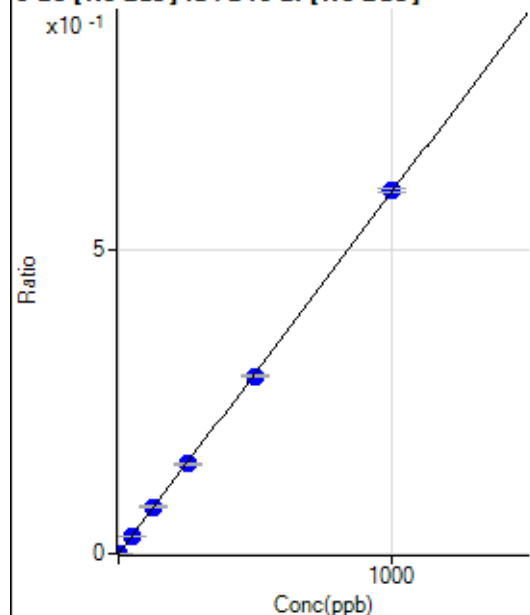


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8042921 MS.b\
Analysis File: P8042921 MS.batch.bin
DA Date-Time: 2021-04-30 00:52:07
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2021-04-29 12:40:16
2	009CALS.d	S02	2021-04-29 12:55:36
3	011CALS.d	S03	2021-04-29 13:01:43
4	012CALS.d	S04	2021-04-29 13:04:47
5	013CALS.d	S05	2021-04-29 13:07:49
6	014CALS.d	S06	2021-04-29 13:10:49
7	015CALS.d	S07	2021-04-29 13:13:47
8	016CALS.d	S08	2021-04-29 13:16:48

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

	R _{jt}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.32	0.0001	P	7.8
2	☐	1.000	0.946	414.60	0.0007	P	2.1
3	☐	50.000	49.673	19238.03	0.0296	P	2.2
4	☐	125.000	129.950	48752.38	0.0774	P	3.6
5	☐	250.000	248.363	96608.62	0.1479	P	2.3
6	☐	500.000	491.310	195752.84	0.2924	P	1.7
7	☐	1000.000	1004.152	395608.79	0.5976	P	1.0
8	☐			159.30	0.0002	P	14.6

$$y = 5.9502\text{E-}004 * x + 8.7164\text{E-}005$$

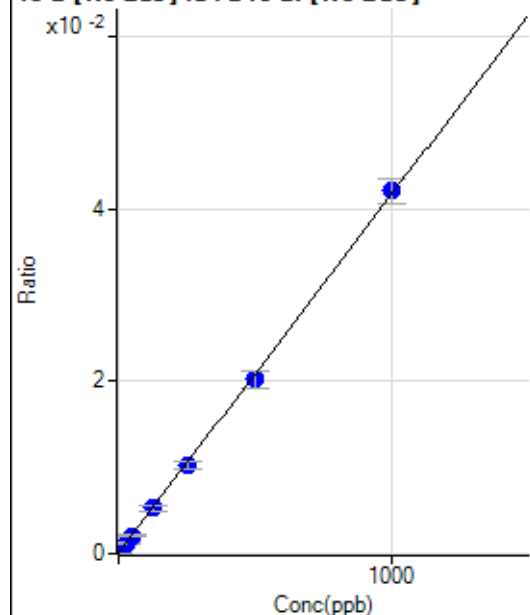
$$R = 0.9999$$

$$DL = 0.03417$$

$$BEC = 0.1465$$

Weight: <None>

Min Conc: 0

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

	R _{jt}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61.99	0.0001	P	20.9
2	☐	25.000	26.391	761.20	0.0012	P	9.5
3	☐	50.000	48.407	1369.80	0.0021	P	3.8
4	☐	125.000	124.479	3321.07	0.0053	P	11.9
5	☐	250.000	243.596	6673.55	0.0102	P	9.5
6	☐	500.000	483.329	13500.91	0.0202	P	10.6
7	☐	1000.000	1010.046	27862.24	0.0420	P	6.9
8	☐			4872.52	0.0072	P	8.1

$$y = 4.1531\text{E-}005 * x + 9.7746\text{E-}005$$

$$R = 0.9998$$

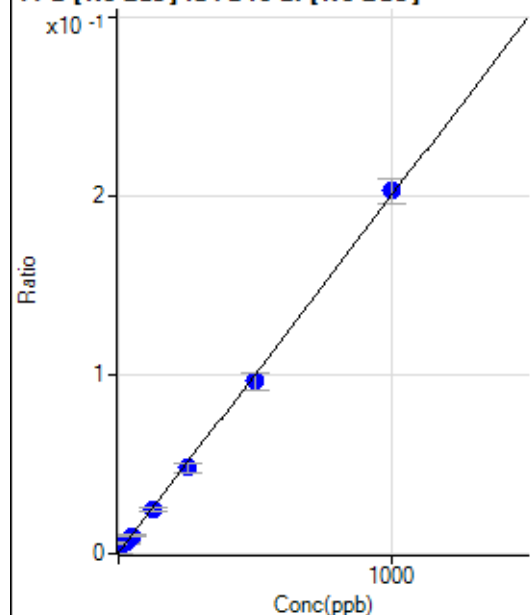
$$DL = 1.478$$

$$BEC = 2.354$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	282.61	0.0004	P	13.3
2	☐	25.000	28.400	3907.10	0.0061	P	8.0
3	☐	50.000	48.544	6602.87	0.0102	P	6.7
4	☐	125.000	121.110	15545.24	0.0247	P	10.7
5	☐	250.000	237.924	31393.47	0.0481	P	10.3
6	☐	500.000	480.336	64624.76	0.0966	P	10.4
7	☐	1000.000	1013.325	134657.33	0.2032	P	7.2
8	☐			23181.75	0.0343	P	8.3

$$y = 2.0009\text{E-}004 * x + 4.4499\text{E-}004$$

$$R = 0.9996$$

$$DL = 0.8863$$

$$BEC = 2.224$$

Weight: <None>

Min Conc: 0

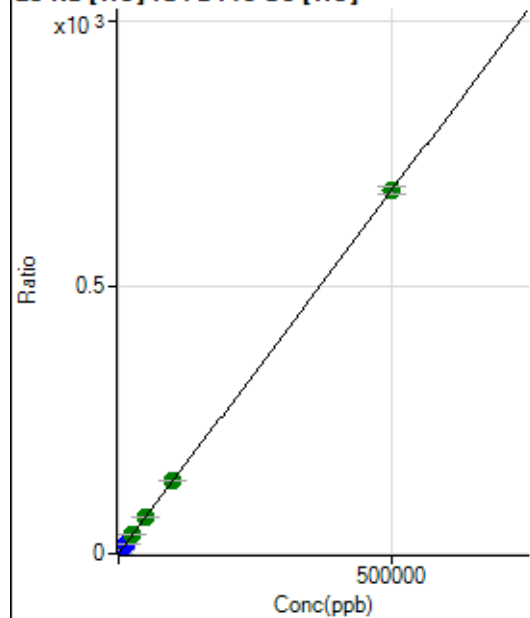
12 C [No Gas] No available calibration points



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			3394456.15		A	0.9
2	☐			3392227.40		A	1.1
3	☐			3758733.59		A	0.5
4	☐			3872147.13		A	0.5
5	☐			3884218.40		A	1.2
6	☐			4004236.89		A	2.0
7	☐			4130676.13		A	0.4
8	☐			4077648.83		A	2.0

12 C [He] No available calibration points

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			41127.82		P	2.0
2	☐			41267.01		P	1.0
3	☐			47878.65		P	1.7
4	☐			47925.79		P	1.5
5	☐			47304.44		P	1.4
6	☐			47360.26		P	1.8
7	☐			49720.78		P	0.6
8	☐			49572.96		P	1.0

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

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12024.70	0.2399	P	3.9
2	☐	500.000	492.425	48051.83	0.9099	P	0.7
3	☐	5000.000	5137.036	377849.21	7.2299	P	1.1
4	☐	12500.000	12903.414	935133.15	17.7977	P	6.7
5	☐	25000.000	26457.372	1849749.20	36.2407	A	3.9
6	☐	50000.000	50128.442	3631348.04	68.4502	A	4.0
7	☐	100000.00	100535.57	7173397.99	137.0397	A	0.3
8	☐	500000.00	499795.72	35054859.4	680.3175	A	2.2

$$y = 0.0014 * x + 0.2399$$

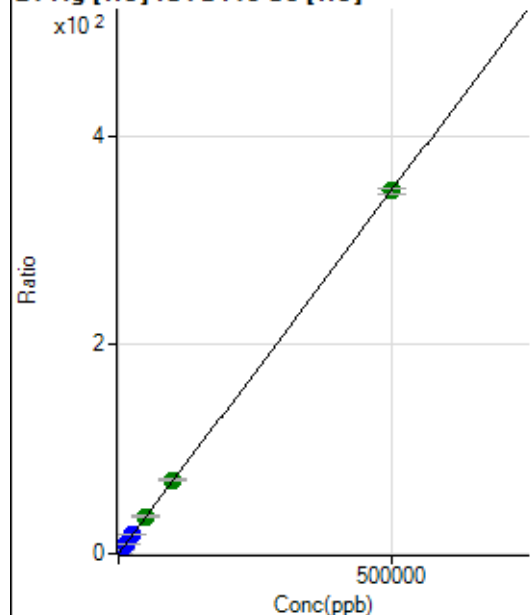
$$R = 1.0000$$

$$DL = 20.73$$

$$BEC = 176.3$$

Weight: <None>

Min Conc: 0

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

	R _{jt}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	544.47	0.0109	P	3.2
2	☐	500.000	512.760	19424.56	0.3678	P	2.7
3	☐	5000.000	5245.544	191396.74	3.6624	P	1.6
4	☐	12500.000	13065.332	478536.56	9.1059	P	6.2
5	☐	25000.000	26621.867	946466.57	18.5429	P	3.6
6	☐	50000.000	50912.872	1880138.74	35.4524	A	5.5
7	☐	100000.00	101488.15	3698466.32	70.6590	A	1.4
8	☐	500000.00	499513.38	17918078.8	347.7331	A	1.9

$$y = 6.9612E-004 * x + 0.0109$$

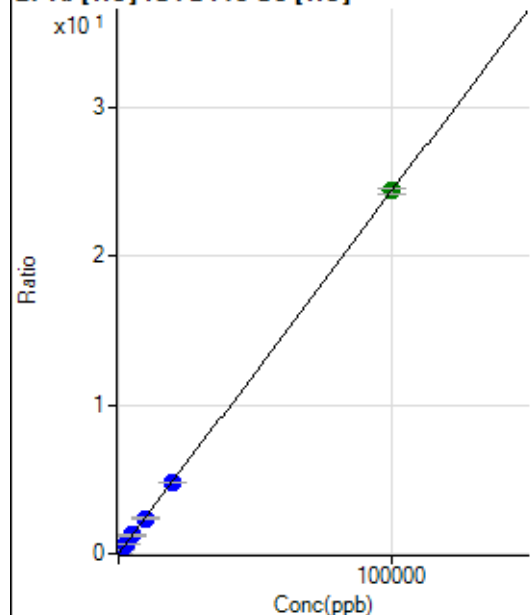
$$R = 1.0000$$

$$DL = 1.503$$

$$BEC = 15.6$$

Weight: <None>

Min Conc: 0

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

	R _{jt}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	413.29	0.0082	P	4.1
2	☐	20.000	19.084	680.76	0.0129	P	0.8
3	☐	1000.000	991.437	13038.79	0.2495	P	1.9
4	☐	2500.000	2480.004	32144.14	0.6117	P	6.5
5	☐	5000.000	5100.057	63756.59	1.2493	P	4.2
6	☐	10000.000	9682.529	125419.10	2.3643	P	4.4
7	☐	20000.000	19534.366	249244.38	4.7616	P	0.7
8	☐	100000.00	100120.45	1255869.38	24.3708	A	1.3

$$y = 2.4333E-004 * x + 0.0082$$

$$R = 1.0000$$

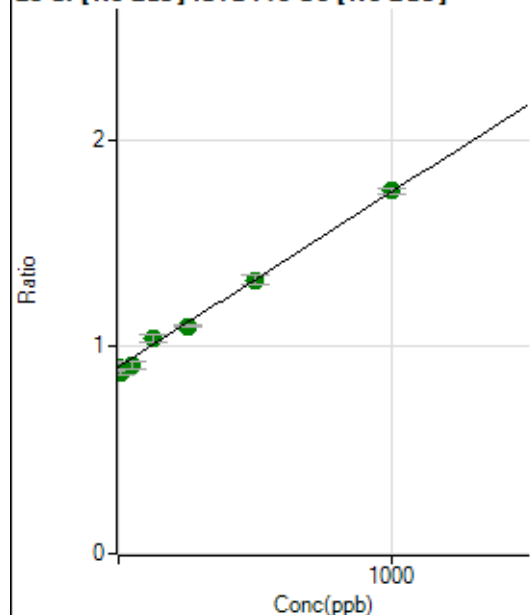
$$DL = 4.195$$

$$BEC = 33.89$$

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	890594.85	0.9029	A	3.0
2	☐	10.000	-33.121	887357.82	0.8749	A	2.2
3	☐	50.000	8.319	932482.29	0.9099	A	3.8
4	☐	125.000	160.834	1024663.91	1.0388	A	3.2
5	☐	250.000	233.083	1135737.50	1.0998	A	0.7
6	☐	500.000	493.850	1401922.18	1.3201	A	3.4
7	☐	1000.000	1005.340	1838240.79	1.7522	A	1.5
8	☐			923013.78	0.8782	A	1.0

$$y = 8.4473\text{E-}004 * x + 0.9029$$

$$R = 0.9975$$

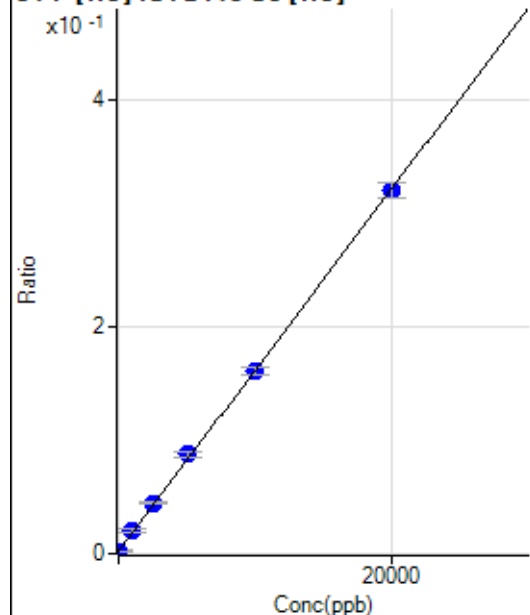
$$DL = 96.52$$

$$BEC = 1069$$

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	18.766	116.67	0.0023	P	22.7
2	☐	0.000	-18.766	91.67	0.0017	P	32.3
3	☐	1000.000	1120.767	1041.73	0.0199	P	13.0
4	☐	2500.000	2670.059	2347.47	0.0446	P	6.4
5	☐	5000.000	5349.988	4459.14	0.0874	P	6.1
6	☐	10000.000	9972.754	8549.94	0.1612	P	3.9
7	☐	20000.000	19898.830	16723.81	0.3195	P	4.3
8	☐			119.45	0.0023	P	25.5

$$y = 1.5956\text{E-}005 * x + 0.0020$$

$$R = 0.9998$$

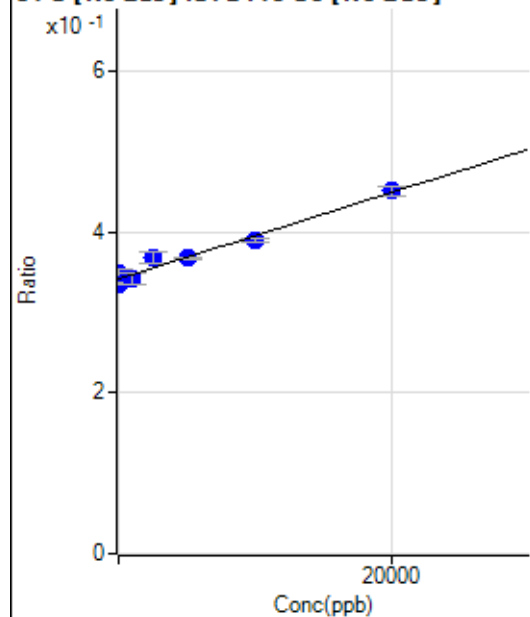
$$DL = 102.4$$

$$BEC = 127.4$$

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	1184.626	343484.10	0.3482	P	3.3
2	☐	0.000	-1184.626	340291.82	0.3355	P	0.4
3	☐	1000.000	-77.796	349910.50	0.3415	P	3.9
4	☐	2500.000	4892.966	363151.48	0.3682	P	3.7
5	☐	5000.000	4718.978	379260.49	0.3673	P	0.5
6	☐	10000.000	8978.765	414323.48	0.3902	P	1.5
7	☐	20000.000	20335.642	473358.65	0.4513	P	2.3
8	☐			325023.82	0.3093	P	1.7

$$y = 5.3796E-006 * x + 0.3419$$

$$R = 0.9832$$

$$DL = 3515$$

$$BEC = 6.355E+04$$

Weight: <None>

Min Conc: 0

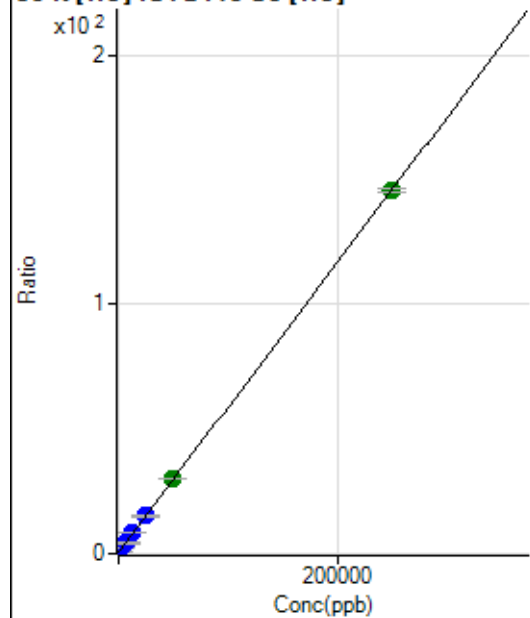
35 Cl [No Gas] No available calibration points



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			179193.10		P	0.6
2	☐			152001.96		P	1.5
3	☐			179338.78		P	1.6
4	☐			174985.36		P	0.7
5	☐			173106.61		P	1.1
6	☐			170072.34		P	1.0
7	☐			170470.19		P	2.7
8	☐			179813.84		P	1.1

35 Cl [He] No available calibration points

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			1833.49		P	3.0
2	☐			1527.90		P	10.3
3	☐			1986.30		P	6.1
4	☐			1741.82		P	7.0
5	☐			1883.50		P	7.0
6	☐			1614.02		P	3.4
7	☐			1683.47		P	9.8
8	☐			1783.50		P	11.3

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

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	26803.23	0.5347	P	3.3
2	☐	500.000	451.110	42062.03	0.7965	P	1.9
3	☐	2500.000	2575.484	106057.49	2.0295	P	2.1
4	☐	6250.000	6425.280	224087.24	4.2638	P	6.1
5	☐	12500.000	13325.894	422136.16	8.2687	P	2.5
6	☐	25000.000	25348.344	808850.24	15.2462	P	3.9
7	☐	50000.000	51140.347	1581572.01	30.2151	A	0.7
8	☐	250000.00	249690.76	7495347.13	145.4479	A	1.1

$$y = 5.8037E-004 * x + 0.5347$$

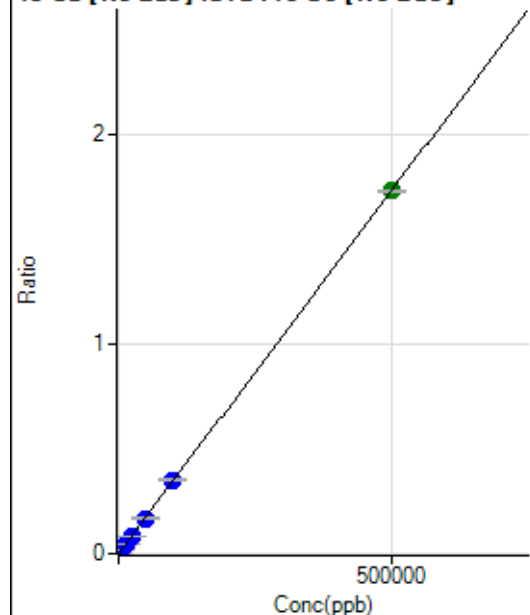
$$R = 1.0000$$

$$DL = 91.25$$

$$BEC = 921.4$$

Weight: <None>

Min Conc: 0

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	180.81	0.0002	P	10.8
2	☐	500.000	480.301	1874.90	0.0018	P	0.8
3	☐	5000.000	4819.466	17302.91	0.0169	P	5.2
4	☐	12500.000	12697.448	43601.16	0.0442	P	3.3
5	☐	25000.000	24375.037	87449.98	0.0847	P	1.5
6	☐	50000.000	48971.056	180492.81	0.1700	P	1.0
7	☐	100000.00	101038.98	367633.79	0.3505	P	1.9
8	☐	500000.00	499923.23	1821673.91	1.7333	A	0.7

$$y = 3.4667\text{E-}006 * x + 1.8351\text{E-}004$$

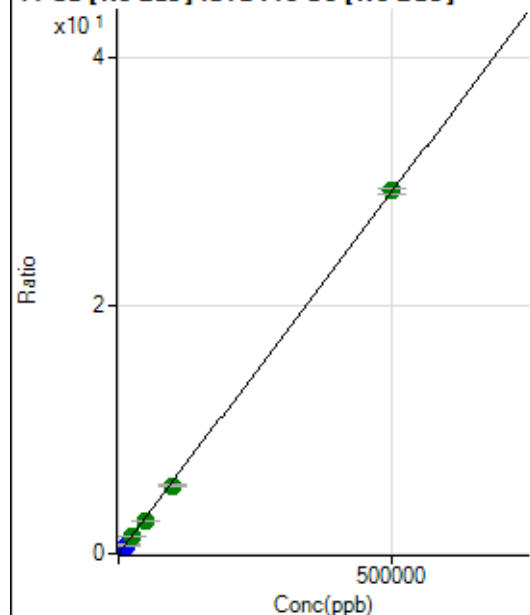
$$R = 1.0000$$

$$DL = 17.21$$

$$BEC = 52.94$$

Weight: <None>

Min Conc: 0

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	14407.87	0.0146	P	2.7
2	☐	500.000	456.267	41769.94	0.0412	P	0.7
3	☐	5000.000	4432.577	279518.79	0.2728	P	4.5
4	☐	12500.000	11622.280	682190.92	0.6916	P	3.3
5	☐	25000.000	23159.382	1408159.51	1.3636	A	3.5
6	☐	50000.000	45698.470	2842107.57	2.6764	A	1.8
7	☐	100000.00	93622.865	5736921.46	5.4679	A	1.4
8	☐	500000.00	501825.27	30736728.3	29.2449	A	1.4

$$y = 5.8248\text{E-}005 * x + 0.0146$$

$$R = 0.9999$$

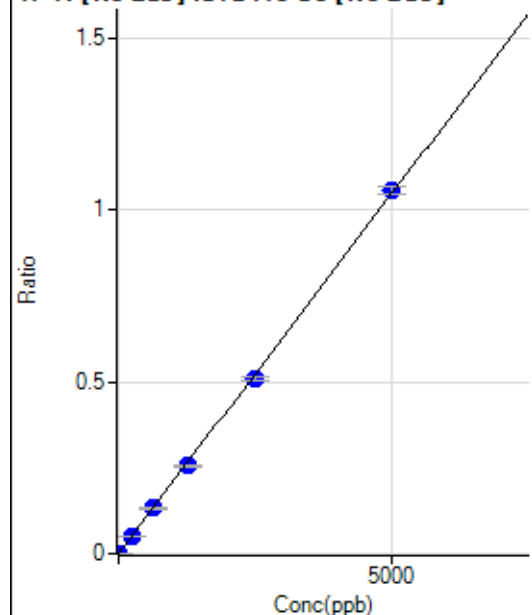
$$DL = 20.6$$

$$BEC = 250.8$$

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	322.24	0.0003	P	26.9
2	☐	5.000	4.764	1341.76	0.0013	P	8.6
3	☐	250.000	240.034	51774.87	0.0506	P	5.9
4	☐	625.000	634.259	131206.18	0.1330	P	4.3
5	☐	1250.000	1219.884	263940.86	0.2556	P	0.8
6	☐	2500.000	2428.207	539998.12	0.5084	P	1.6
7	☐	5000.000	5042.767	1107277.56	1.0555	P	2.0
8	☐			527.80	0.0005	P	15.0

$$y = 2.0925\text{E-}004 * x + 3.2625\text{E-}004$$

R = 0.9998

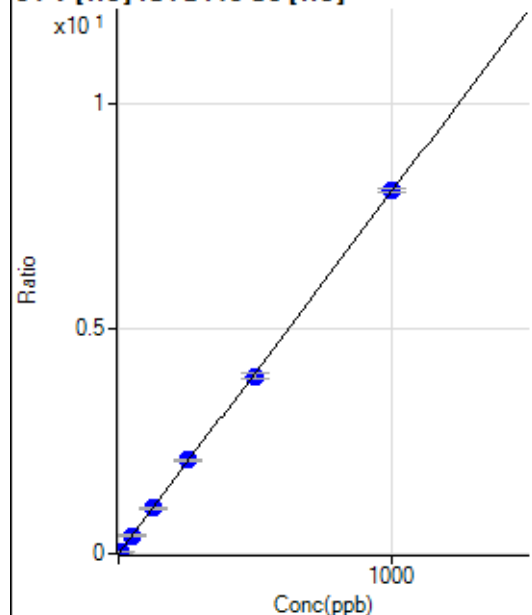
DL = 1.259

BEC = 1.559

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	8.89	0.0002	P	19.4
2	☐	5.000	5.021	2144.63	0.0406	P	2.5
3	☐	50.000	50.299	21180.19	0.4053	P	1.2
4	☐	125.000	126.382	53512.98	1.0180	P	5.4
5	☐	250.000	258.277	106179.91	2.0802	P	3.5
6	☐	500.000	490.998	209784.52	3.9544	P	4.0
7	☐	1000.000	1002.244	422496.27	8.0716	P	1.2
8	☐			92.22	0.0018	P	15.4

$$y = 0.0081 * x + 1.7667\text{E-}004$$

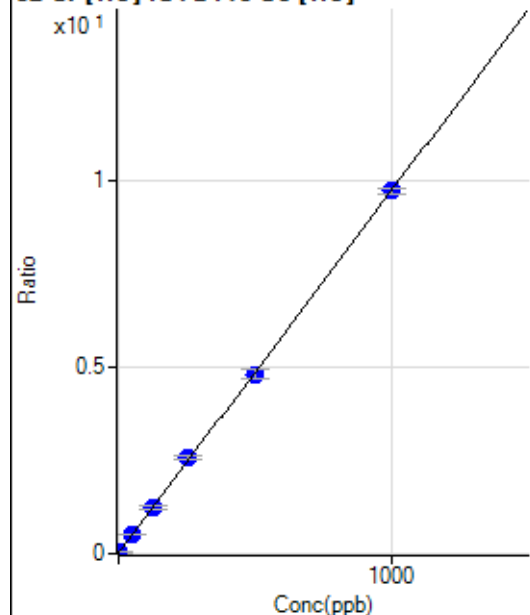
R = 0.9999

DL = 0.01276

BEC = 0.02194

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	635.58	0.0127	P	6.2
2	☐	2.000	1.950	1672.34	0.0317	P	3.7
3	☐	50.000	50.488	26365.53	0.5045	P	1.5
4	☐	125.000	125.099	64708.79	1.2313	P	6.3
5	☐	250.000	262.379	131104.42	2.5687	P	4.0
6	☐	500.000	494.678	256303.94	4.8316	P	4.4
7	☐	1000.000	999.530	510325.50	9.7497	P	1.3
8	☐			3872.78	0.0751	P	1.7

$$y = 0.0097 * x + 0.0127$$

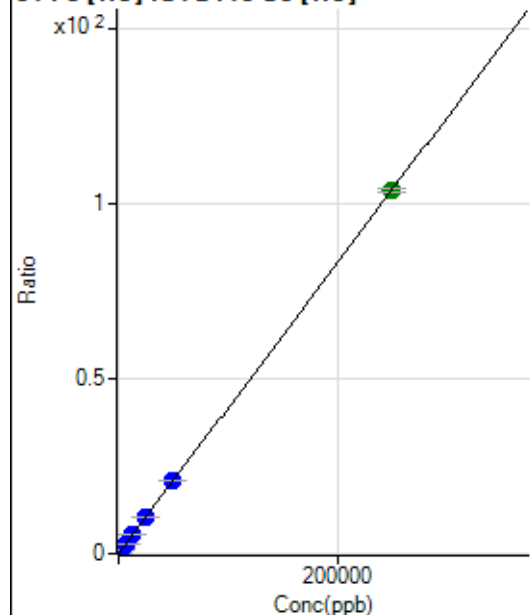
$$R = 0.9999$$

$$DL = 0.2404$$

$$BEC = 1.3$$

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	433.35	0.0086	P	7.4
2	☐	50.000	54.913	1659.39	0.0314	P	1.5
3	☐	2500.000	2561.149	56015.22	1.0718	P	0.9
4	☐	6250.000	6470.304	141623.97	2.6945	P	5.8
5	☐	12500.000	13157.265	279201.13	5.4703	P	3.8
6	☐	25000.000	25003.711	551098.01	10.3878	P	3.9
7	☐	50000.000	50468.863	1097040.13	20.9585	P	1.0
8	☐	250000.00	249866.87	5345429.06	103.7294	A	1.1

$$y = 4.1510E-004 * x + 0.0086$$

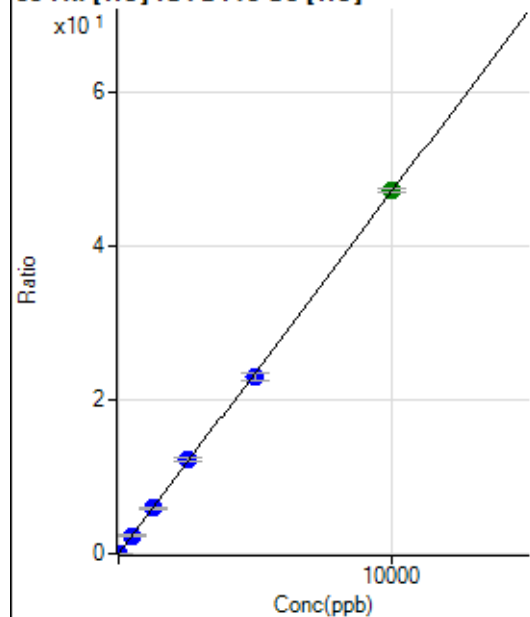
$$R = 1.0000$$

$$DL = 4.626$$

$$BEC = 20.79$$

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	77.78	0.0016	P	16.2
2	☐	1.000	0.910	307.78	0.0058	P	5.9
3	☐	500.000	500.860	123049.46	2.3547	P	2.3
4	☐	1250.000	1251.602	309116.59	5.8818	P	6.1
5	☐	2500.000	2589.270	621020.41	12.1664	P	3.7
6	☐	5000.000	4894.209	1219991.96	22.9954	P	4.0
7	☐	10000.000	10030.335	2466786.67	47.1257	A	1.1
8	☐			1547.87	0.0300	P	2.3

$$y = 0.0047 * x + 0.0016$$

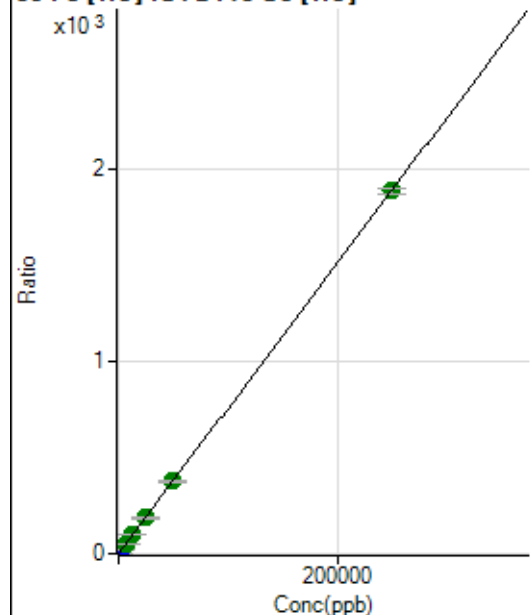
$$R = 0.9999$$

$$DL = 0.1601$$

$$BEC = 0.3302$$

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	2440.99	0.0488	P	8.2
2	☐	50.000	49.749	22371.46	0.4236	P	2.1
3	☐	2500.000	2514.626	992833.08	18.9972	P	0.8
4	☐	6250.000	6361.601	2520672.40	47.9854	A	7.4
5	☐	12500.000	13032.767	5015134.37	98.2547	A	3.7
6	☐	25000.000	24821.854	9926387.38	187.0892	A	3.8
7	☐	50000.000	49898.213	19683898.5	376.0474	A	2.3
8	☐	250000.00	250008.59	97082449.3	1.883.941	A	1.3

$$y = 0.0075 * x + 0.0488$$

$$R = 1.0000$$

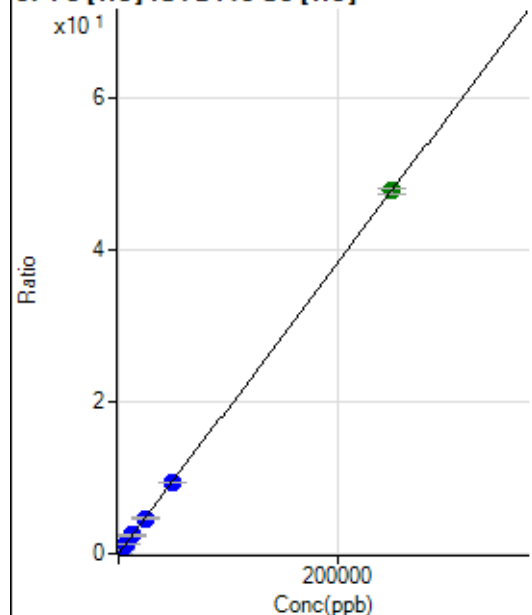
$$DL = 1.583$$

$$BEC = 6.47$$

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	98.15	0.0020	P	21.7
2	☐	50.000	53.903	646.32	0.0122	P	4.7
3	☐	2500.000	2472.009	24732.82	0.4733	P	1.2
4	☐	6250.000	6183.329	62045.87	1.1808	P	6.7
5	☐	12500.000	12749.352	124188.04	2.4327	P	3.0
6	☐	25000.000	24250.757	245449.12	4.6254	P	3.0
7	☐	50000.000	49414.479	493234.63	9.4230	P	1.1
8	☐	250000.00	250181.50	2458136.40	47.6999	A	1.5

$$y = 1.9065E-004 * x + 0.0020$$

R = 1.0000

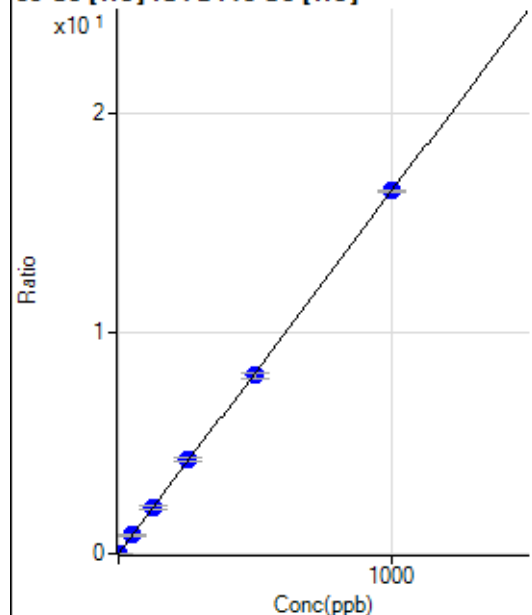
DL = 6.704

BEC = 10.29

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	58.89	0.0012	P	1.6
2	☐	1.000	0.942	880.04	0.0167	P	2.7
3	☐	50.000	50.373	43344.64	0.8294	P	1.0
4	☐	125.000	126.203	109096.17	2.0761	P	6.5
5	☐	250.000	259.733	218011.36	4.2716	P	4.0
6	☐	500.000	492.482	429666.40	8.0983	P	3.6
7	☐	1000.000	1001.157	861664.53	16.4616	P	0.6
8	☐			1276.74	0.0248	P	3.7

$$y = 0.0164 * x + 0.0012$$

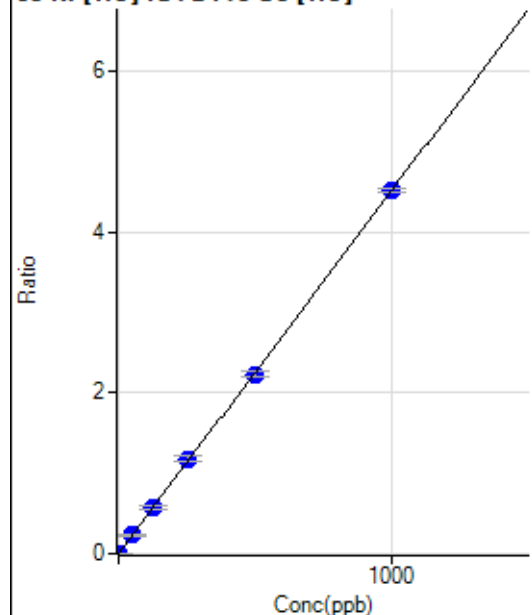
R = 0.9999

DL = 0.003508

BEC = 0.07142

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	42.22	0.0008	P	17.2
2	☐	1.000	1.200	330.01	0.0063	P	6.6
3	☐	50.000	50.190	11868.36	0.2271	P	1.6
4	☐	125.000	126.869	30084.04	0.5727	P	7.3
5	☐	250.000	262.129	60337.25	1.1823	P	4.6
6	☐	500.000	493.874	118168.27	2.2269	P	3.0
7	☐	1000.000	999.788	235919.28	4.5071	P	1.2
8	☐			864.48	0.0168	P	2.7

$$y = 0.0045 * x + 8.4305E-004$$

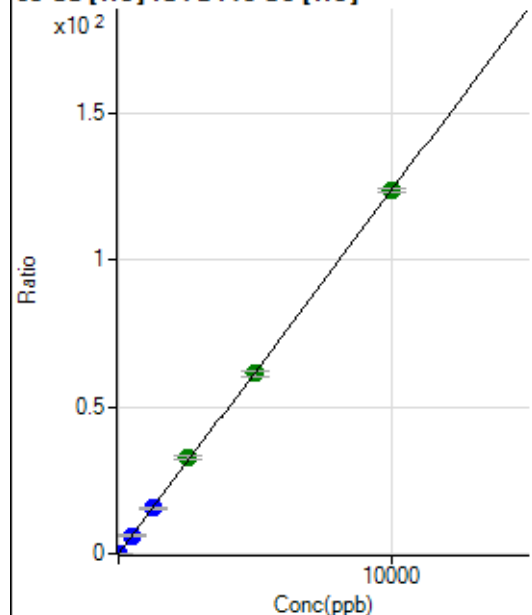
$$R = 0.9999$$

$$DL = 0.09643$$

$$BEC = 0.187$$

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	268.90	0.0054	P	0.9
2	☐	2.000	1.838	1482.32	0.0281	P	4.1
3	☐	500.000	500.239	323304.89	6.1861	P	0.9
4	☐	1250.000	1246.360	809686.94	15.4050	P	5.9
5	☐	2500.000	2635.543	1662581.92	32.5692	A	3.3
6	☐	5000.000	4967.280	3256964.05	61.3794	A	3.1
7	☐	10000.000	9982.918	6456664.07	123.3509	A	0.9
8	☐			4470.74	0.0868	P	5.3

$$y = 0.0124 * x + 0.0054$$

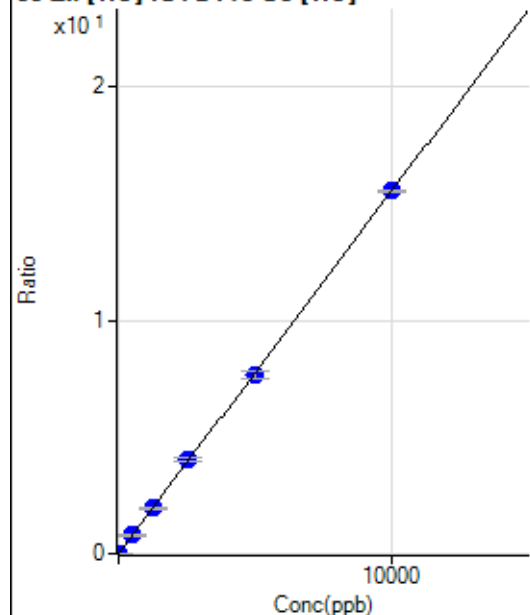
$$R = 0.9999$$

$$DL = 0.01206$$

$$BEC = 0.4339$$

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	60.00	0.0012	P	27.3
2	☐	2.000	2.261	248.89	0.0047	P	21.2
3	☐	500.000	505.646	41136.27	0.7871	P	2.2
4	☐	1250.000	1258.248	102854.60	1.9569	P	5.9
5	☐	2500.000	2592.230	205708.51	4.0304	P	3.9
6	☐	5000.000	4932.261	406819.01	7.6676	P	3.6
7	☐	10000.000	10009.498	814443.41	15.5593	P	0.3
8	☐			1587.88	0.0308	P	8.2

$$y = 0.0016 * x + 0.0012$$

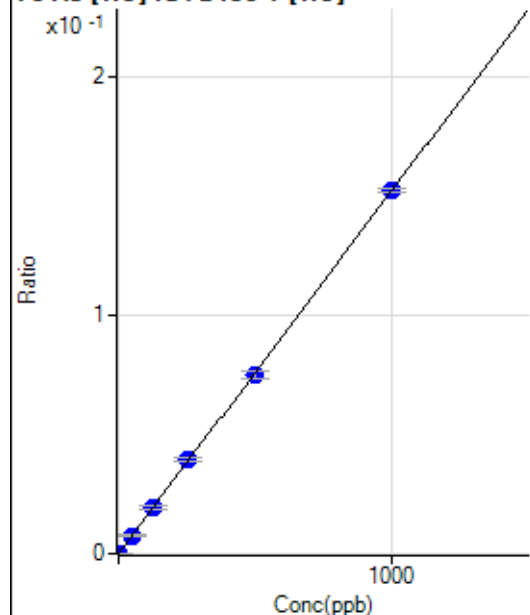
$$R = 0.9999$$

$$DL = 0.6343$$

$$BEC = 0.7738$$

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	8.00	0.0000	P	10.6
2	☐	1.000	1.085	73.34	0.0002	P	16.4
3	☐	50.000	50.204	3000.63	0.0077	P	2.1
4	☐	125.000	126.984	7557.12	0.0193	P	6.0
5	☐	250.000	261.448	15353.88	0.0398	P	4.5
6	☐	500.000	492.895	30508.47	0.0749	P	3.9
7	☐	1000.000	1000.432	61028.58	0.1521	P	0.9
8	☐			33.33	0.0001	P	12.6

$$y = 1.5198E-004 * x + 2.1364E-005$$

$$R = 0.9999$$

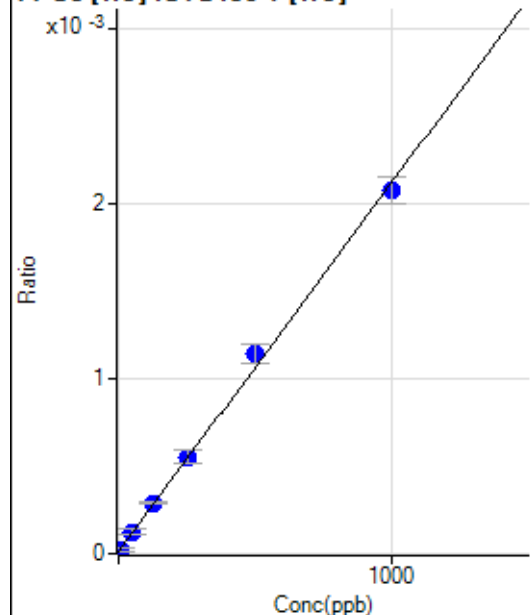
$$DL = 0.04453$$

$$BEC = 0.1406$$

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	4.44	0.0000	P	42.3
2	☐	5.000	3.766	7.78	0.0000	P	138.
3	☐	50.000	53.538	48.89	0.0001	P	23.8
4	☐	125.000	131.346	113.34	0.0003	P	5.4
5	☐	250.000	256.979	213.34	0.0006	P	13.5
6	☐	500.000	537.963	467.79	0.0011	P	9.2
7	☐	1000.000	978.310	832.26	0.0021	P	7.5
8	☐			5.56	0.0000	P	34.9

$$y = 2.1068\text{E-}006 * x + 1.1853\text{E-}005$$

R = 0.9989

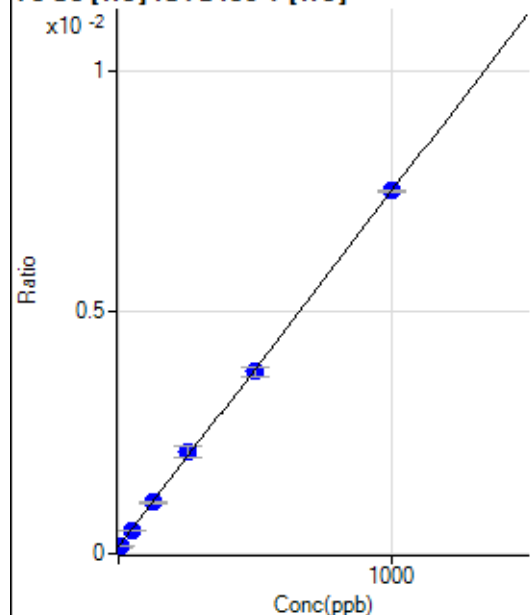
DL = 7.143

BEC = 5.626

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	54.67	0.0001	P	19.1
2	☐	5.000	2.628	65.01	0.0002	P	4.0
3	☐	50.000	45.245	187.69	0.0005	P	2.5
4	☐	125.000	124.031	414.05	0.0011	P	6.6
5	☐	250.000	265.528	809.11	0.0021	P	12.0
6	☐	500.000	491.578	1530.91	0.0038	P	4.8
7	☐	1000.000	1000.700	3011.96	0.0075	P	0.7
8	☐			55.01	0.0001	P	13.1

$$y = 7.3537\text{E-}006 * x + 1.4585\text{E-}004$$

R = 0.9998

DL = 11.37

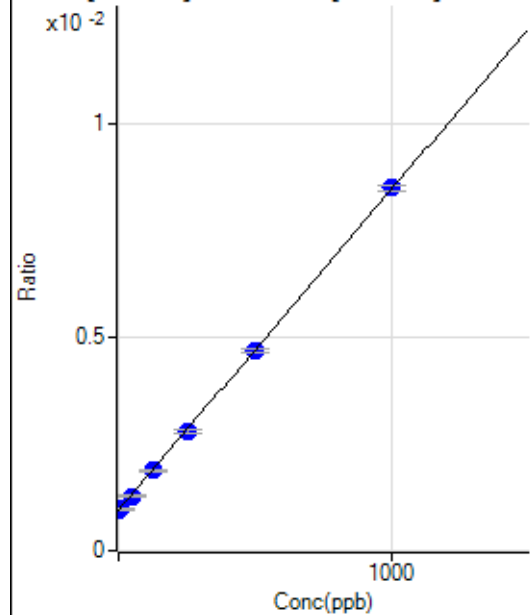
BEC = 19.83

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3784.42		P	1.9
2	☐			3844.50		P	4.0
3	☐			3687.63		P	1.4
4	☐			3837.85		P	1.7
5	☐			3694.29		P	6.4
6	☐			3680.93		P	4.6
7	☐			3764.39		P	2.0
8	☐			3721.01		P	4.3

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

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2964.77	0.0010	P	2.7
2	☐	5.000	4.237	3142.71	0.0010	P	5.0
3	☐	50.000	42.418	4091.13	0.0013	P	4.8
4	☐	125.000	122.937	5888.83	0.0019	P	3.6
5	☐	250.000	242.769	8883.93	0.0028	P	3.1
6	☐	500.000	496.722	15293.16	0.0047	P	2.0
7	☐	1000.000	1004.088	27661.51	0.0085	P	1.7
8	☐			3083.33	0.0009	P	3.5

$$y = 7.5063E-006 * x + 9.5119E-004$$

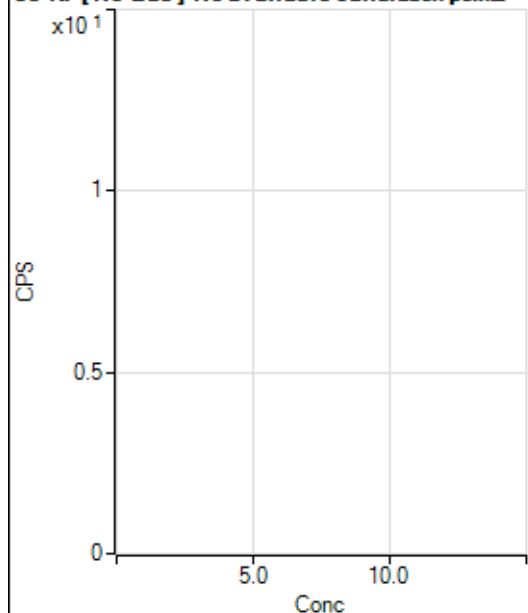
$$R = 1.0000$$

$$DL = 10.43$$

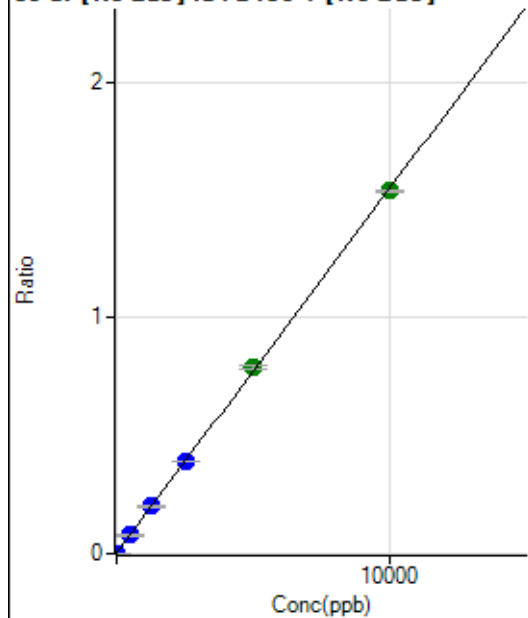
$$BEC = 126.7$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			5140.99		P	3.2
2	☐			5114.32		P	4.9
3	☐			5008.72		P	4.3
4	☐			5156.56		P	1.8
5	☐			5105.43		P	4.0
6	☐			5107.64		P	2.5
7	☐			5117.65		P	2.9
8	☐			5373.30		P	4.0

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

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8077.54	0.0026	P	2.1
2	☐	1.000	1.590	9078.17	0.0028	P	1.0
3	☐	500.000	489.977	252166.80	0.0783	P	4.1
4	☐	1250.000	1281.311	629965.75	0.2005	P	3.3
5	☐	2500.000	2520.673	1255277.77	0.3918	P	1.7
6	☐	5000.000	5104.889	2584674.54	0.7909	A	1.6
7	☐	10000.000	9938.974	5011174.81	1.5374	A	0.7
8	☐			11855.33	0.0036	P	2.8

$$y = 1.5443\text{E-}004 * x + 0.0026$$

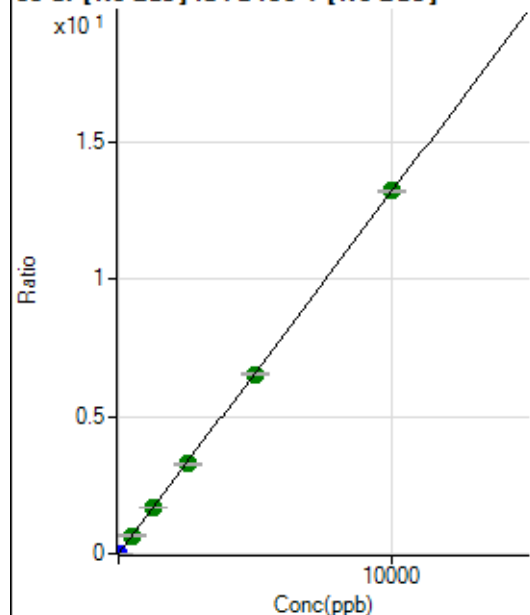
$$R = 0.9999$$

$$DL = 1.063$$

$$BEC = 16.79$$

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	155.56	0.0000	P	9.8
2	☐	1.000	1.031	4500.85	0.0014	P	5.7
3	☐	500.000	496.058	2104207.49	0.6530	A	4.0
4	☐	1250.000	1281.911	5304516.31	1.6875	A	2.0
5	☐	2500.000	2484.083	10475516.3	3.2699	A	1.9
6	☐	5000.000	4952.604	21304369.9	6.5193	A	1.2
7	☐	10000.000	10023.885	43015369.3	13.1948	A	0.6
8	☐			31026.91	0.0094	P	2.8

$$y = 0.0013 * x + 4.9978E-005$$

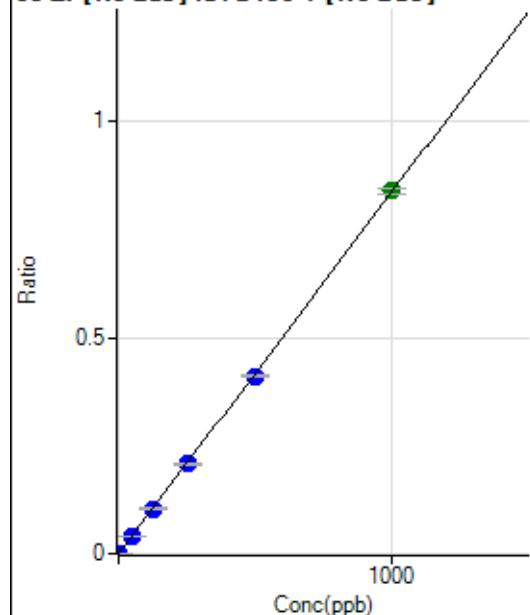
$$R = 1.0000$$

$$DL = 0.01119$$

$$BEC = 0.03797$$

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	147.23	0.0000	P	24.0
2	☐	1.000	1.010	2850.37	0.0009	P	1.7
3	☐	50.000	48.404	130496.49	0.0405	P	4.4
4	☐	125.000	123.717	325031.72	0.1034	P	4.2
5	☐	250.000	248.402	665204.23	0.2077	P	2.3
6	☐	500.000	491.893	1343595.90	0.4112	P	0.8
7	☐	1000.000	1004.693	2737193.48	0.8397	A	1.4
8	☐			1347.34	0.0004	P	7.4

$$y = 8.3577E-004 * x + 4.7117E-005$$

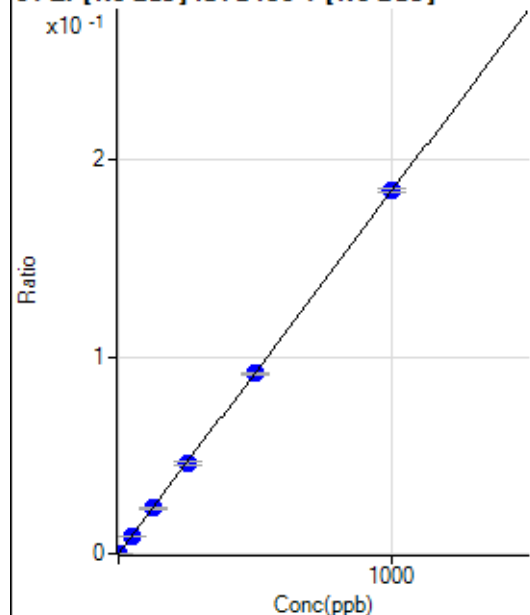
$$R = 1.0000$$

$$DL = 0.04051$$

$$BEC = 0.05638$$

Weight: <None>

Min Conc: 0

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	41.67	0.0000	P	21.8
2	☐	1.000	0.990	625.03	0.0002	P	14.4
3	☐	50.000	47.229	28045.44	0.0087	P	4.7
4	☐	125.000	125.796	72804.54	0.0232	P	3.0
5	☐	250.000	248.761	146678.29	0.0458	P	4.8
6	☐	500.000	498.348	299762.23	0.0917	P	0.9
7	☐	1000.000	1001.175	600580.29	0.1843	P	1.2
8	☐			263.90	0.0001	P	8.9

$$y = 1.8404\text{E-}004 * x + 1.3406\text{E-}005$$

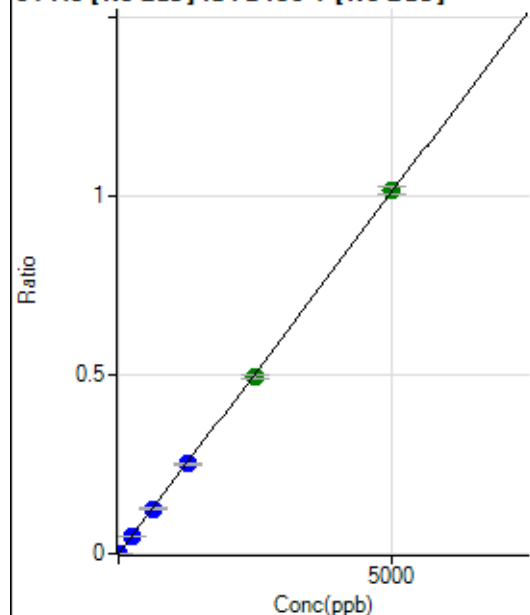
$$R = 1.0000$$

$$DL = 0.04768$$

$$BEC = 0.07285$$

Weight: <None>

Min Conc: 0

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	88.89	0.0000	P	50.4
2	☐	5.000	4.736	3153.22	0.0010	P	8.1
3	☐	250.000	242.779	158221.42	0.0491	P	4.3
4	☐	625.000	620.743	394397.74	0.1255	P	3.4
5	☐	1250.000	1241.425	803902.56	0.2510	P	1.8
6	☐	2500.000	2460.341	1625209.58	0.4973	A	2.1
7	☐	5000.000	5022.867	3308201.38	1.0153	A	2.3
8	☐			1294.54	0.0004	P	6.2

$$y = 2.0213\text{E-}004 * x + 2.8359\text{E-}005$$

$$R = 1.0000$$

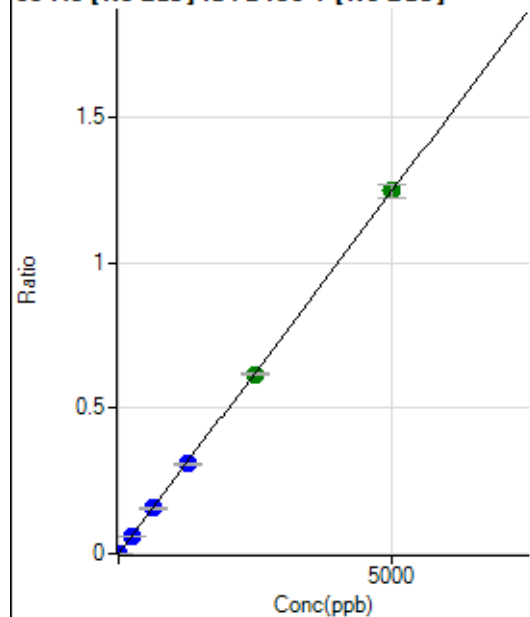
$$DL = 0.2123$$

$$BEC = 0.1403$$

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	27.78	0.0000	P	47.8
2	☐	5.000	4.919	3942.33	0.0012	P	3.8
3	☐	250.000	240.057	192464.47	0.0597	P	4.6
4	☐	625.000	626.563	490020.22	0.1559	P	2.8
5	☐	1250.000	1240.515	988827.61	0.3087	P	1.4
6	☐	2500.000	2483.260	2019175.05	0.6179	A	1.4
7	☐	5000.000	5011.043	4061273.88	1.2469	A	3.9
8	☐			1480.67	0.0005	P	9.3

$$y = 2.4882\text{E-}004 * x + 8.9652\text{E-}006$$

$$R = 1.0000$$

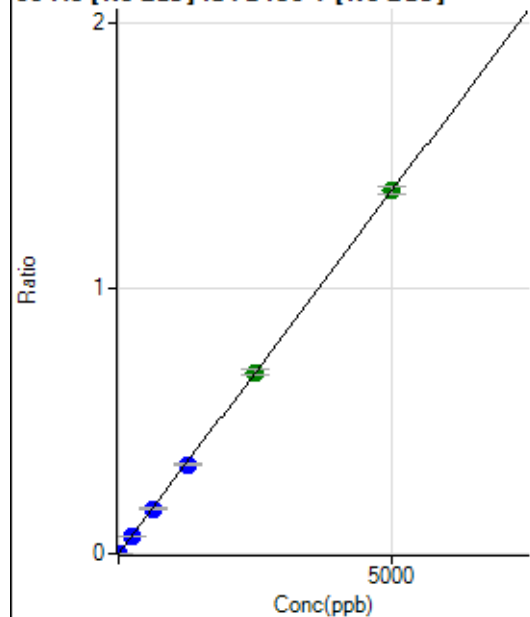
$$DL = 0.05163$$

$$BEC = 0.03603$$

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	72.22	0.0000	P	15.9
2	☐	5.000	4.663	4142.41	0.0013	P	5.2
3	☐	250.000	240.838	211637.28	0.0657	P	5.1
4	☐	625.000	619.159	530547.85	0.1689	P	4.5
5	☐	1250.000	1230.447	1074922.38	0.3356	P	2.1
6	☐	2500.000	2502.120	2229473.27	0.6823	A	2.8
7	☐	5000.000	5005.017	4447924.19	1.3649	A	2.1
8	☐			2364.15	0.0007	P	5.4

$$y = 2.7269\text{E-}004 * x + 2.3133\text{E-}005$$

$$R = 1.0000$$

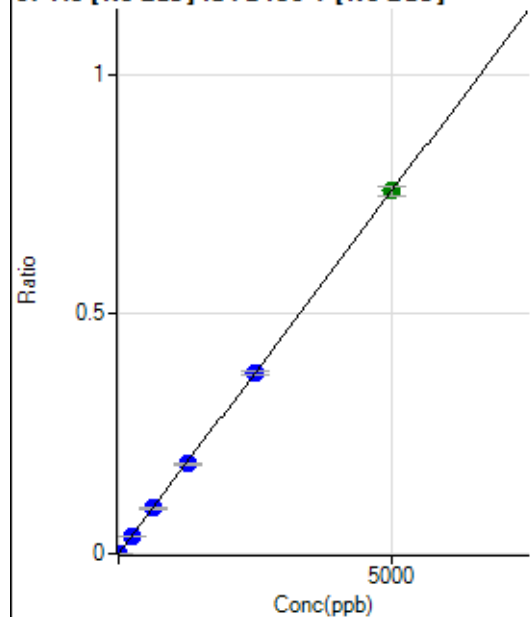
$$DL = 0.04057$$

$$BEC = 0.08483$$

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	8.33	0.0000	P	99.9
2	☐	5.000	4.885	2369.72	0.0007	P	6.5
3	☐	250.000	242.457	118126.06	0.0367	P	4.5
4	☐	625.000	629.030	298891.11	0.0951	P	3.9
5	☐	1250.000	1238.152	599717.33	0.1872	P	1.8
6	☐	2500.000	2493.174	1231832.80	0.3770	P	1.2
7	☐	5000.000	5006.248	2466261.32	0.7569	A	2.6
8	☐			886.17	0.0003	P	13.5

$$y = 1.5120\text{E-}004 * x + 2.6438\text{E-}006$$

$$R = 1.0000$$

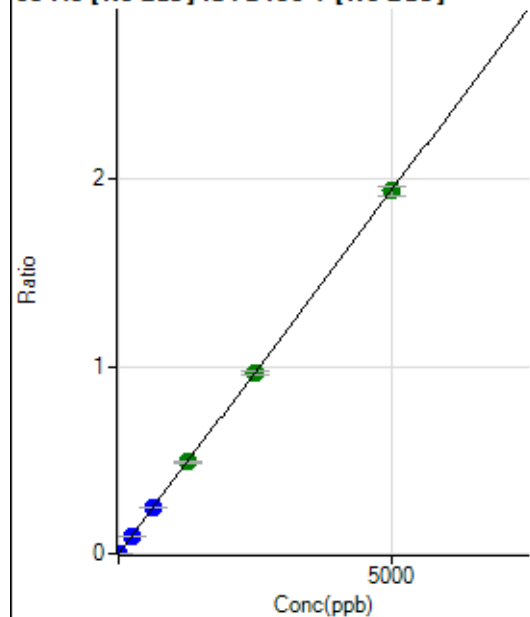
$$DL = 0.0524$$

$$BEC = 0.01749$$

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	11.11	0.0000	P	173.
2	☐	5.000	4.905	6101.51	0.0019	P	9.0
3	☐	250.000	244.456	305598.23	0.0949	P	5.8
4	☐	625.000	633.879	773271.12	0.2461	P	3.4
5	☐	1250.000	1259.666	1566313.20	0.4890	A	2.3
6	☐	2500.000	2500.105	3171048.64	0.9705	A	2.2
7	☐	5000.000	4996.698	6319772.54	1.9395	A	2.6
8	☐			2405.83	0.0007	P	5.8

$$y = 3.8816\text{E-}004 * x + 3.6453\text{E-}006$$

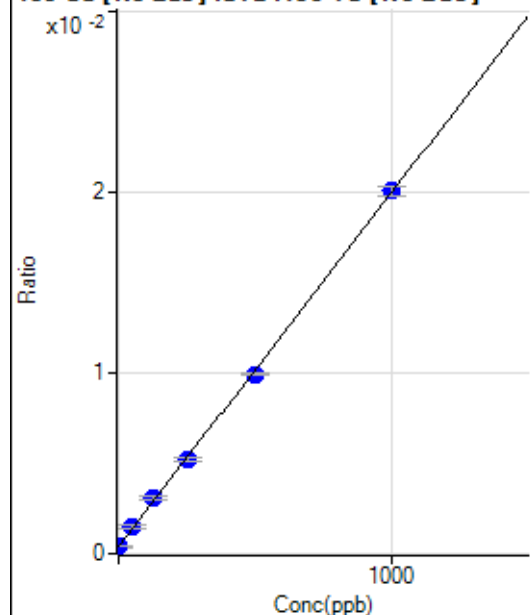
$$R = 1.0000$$

$$DL = 0.0488$$

$$BEC = 0.009391$$

Weight: <None>

Min Conc: 0

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

	R _j t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	613.92	0.0004	P	9.7
2	☐	1.000	-0.125	636.15	0.0004	P	4.7
3	☐	50.000	55.697	2464.19	0.0015	P	13.8
4	☐	125.000	135.758	4892.67	0.0030	P	7.7
5	☐	250.000	247.306	8805.84	0.0052	P	4.3
6	☐	500.000	487.983	17519.89	0.0099	P	0.8
7	☐	1000.000	1005.054	34588.49	0.0201	P	2.7
8	☐			683.37	0.0004	P	11.5

$$y = 1.9591\text{E-}005 * x + 3.8819\text{E-}004$$

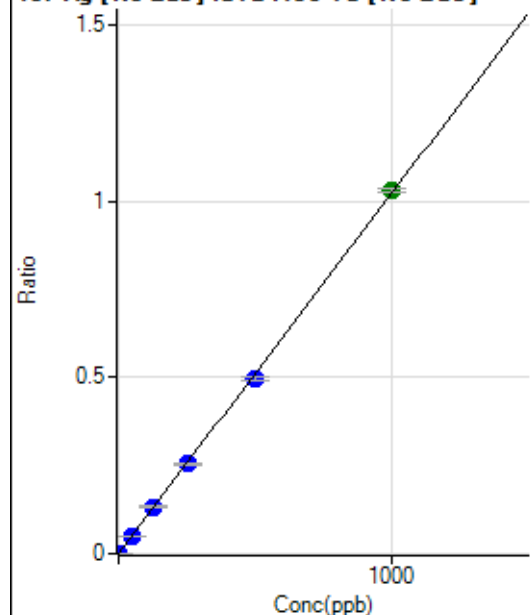
$$R = 0.9998$$

$$DL = 5.759$$

$$BEC = 19.81$$

Weight: <None>

Min Conc: 0

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

	R _j t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5.56	0.0000	P	173.
2	☐	1.000	0.905	1530.69	0.0009	P	11.1
3	☐	50.000	48.513	82871.39	0.0496	P	4.7
4	☐	125.000	130.159	213684.54	0.1330	P	3.4
5	☐	250.000	248.780	427726.37	0.2542	P	3.0
6	☐	500.000	485.535	873557.25	0.4961	P	2.2
7	☐	1000.000	1006.967	1772860.70	1.0288	A	1.0
8	☐			830.60	0.0005	P	7.2

$$y = 0.0010 * x + 3.5953\text{E-}006$$

$$R = 0.9998$$

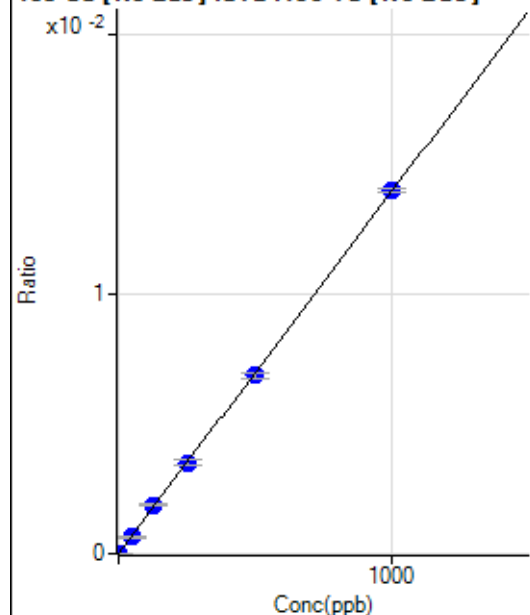
$$DL = 0.01828$$

$$BEC = 0.003519$$

Weight: <None>

Min Conc: 0

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



	R _{jt}	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	13.89	0.0000	P	77.2
2	☐	1.000	1.294	44.44	0.0000	P	22.6
3	☐	50.000	46.311	1094.50	0.0007	P	7.5
4	☐	125.000	133.071	2996.19	0.0019	P	4.2
5	☐	250.000	251.073	5905.50	0.0035	P	6.1
6	☐	500.000	491.747	12090.16	0.0069	P	2.6
7	☐	1000.000	1003.033	24112.90	0.0140	P	0.9
8	☐			40.28	0.0000	P	15.2

$$y = 1.3945\text{E-}005 * x + 8.8625\text{E-}006$$

$$R = 0.9999$$

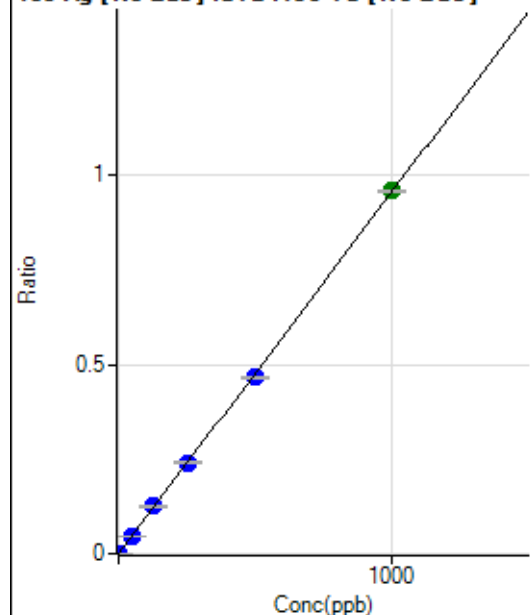
$$DL = 1.472$$

$$BEC = 0.6356$$

Weight: <None>

Min Conc: 0

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



	R _{jt}	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5.55	0.0000	P	86.6
2	☐	1.000	0.984	1552.91	0.0009	P	6.1
3	☐	50.000	49.352	78677.66	0.0471	P	4.8
4	☐	125.000	130.566	199972.69	0.1245	P	4.9
5	☐	250.000	252.237	404726.76	0.2405	P	2.0
6	☐	500.000	488.012	819384.06	0.4653	P	0.6
7	☐	1000.000	1004.771	1650725.33	0.9580	A	0.8
8	☐			691.70	0.0004	P	18.7

$$y = 9.5346\text{E-}004 * x + 3.5274\text{E-}006$$

$$R = 0.9999$$

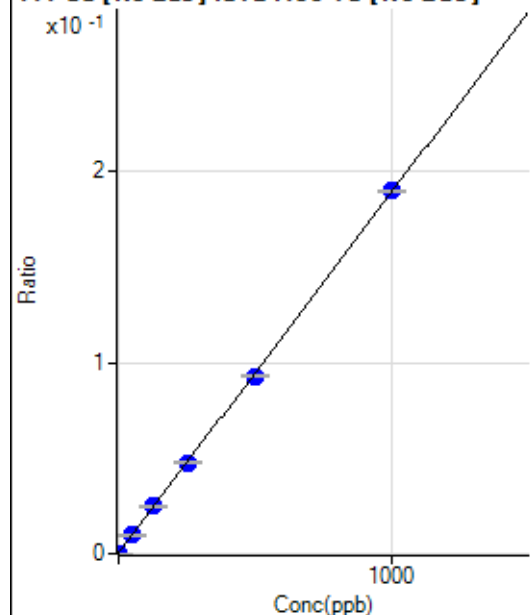
$$DL = 0.009617$$

$$BEC = 0.0037$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	315.29	0.0002	P	8.1
2	☐	1.000	0.872	600.85	0.0004	P	11.0
3	☐	50.000	49.882	16084.67	0.0096	P	5.8
4	☐	125.000	129.831	39730.24	0.0247	P	4.3
5	☐	250.000	251.509	80309.67	0.0477	P	2.7
6	☐	500.000	489.812	163341.22	0.0928	P	1.2
7	☐	1000.000	1004.119	327246.91	0.1899	P	0.6
8	☐			517.66	0.0003	P	10.3

$$y = 1.8896E-004 * x + 1.9934E-004$$

$$R = 0.9999$$

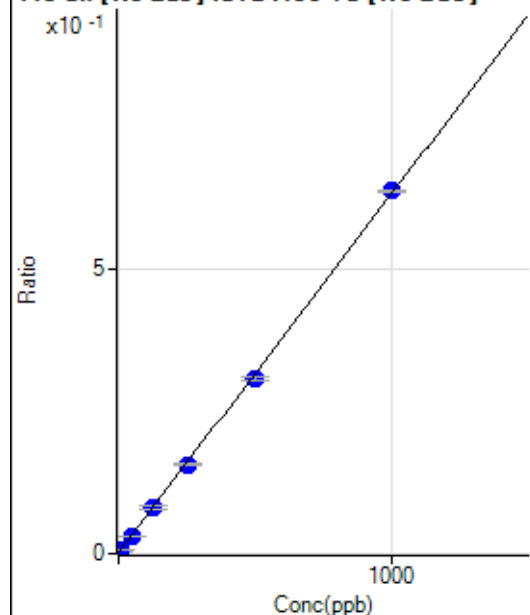
$$DL = 0.2572$$

$$BEC = 1.055$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2828.15	0.0018	P	5.2
2	☐	5.000	5.897	9078.27	0.0055	P	4.1
3	☐	50.000	46.366	51793.05	0.0310	P	5.9
4	☐	125.000	125.763	130113.50	0.0810	P	4.9
5	☐	250.000	245.524	263257.10	0.1564	P	2.5
6	☐	500.000	485.389	541581.85	0.3075	P	1.6
7	☐	1000.000	1008.507	1097531.42	0.6370	P	0.6
8	☐			808.38	0.0004	P	6.4

$$y = 6.2989E-004 * x + 0.0018$$

$$R = 0.9998$$

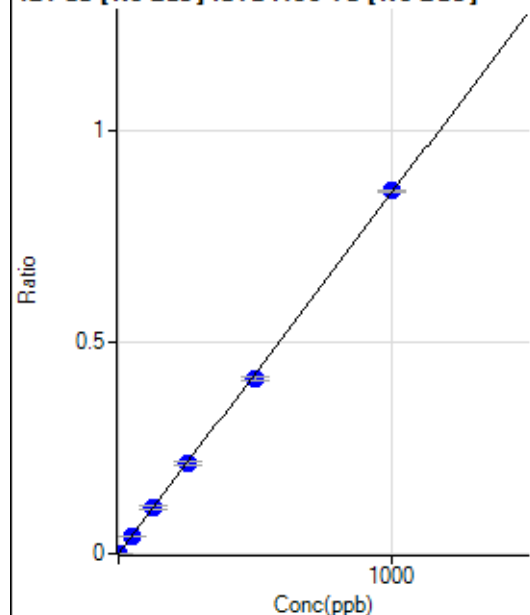
$$DL = 0.4439$$

$$BEC = 2.842$$

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	27.78	0.0000	P	98.1
2	☐	2.000	1.970	2797.60	0.0017	P	2.4
3	☐	50.000	47.939	68332.45	0.0409	P	4.3
4	☐	125.000	128.244	175517.00	0.1093	P	5.0
5	☐	250.000	250.644	359383.27	0.2136	P	2.9
6	☐	500.000	486.595	730068.52	0.4146	P	2.0
7	☐	1000.000	1006.239	1477278.34	0.8574	P	0.3
8	☐			1147.30	0.0006	P	2.7

$$y = 8.5203\text{E-}004 * x + 1.7803\text{E-}005$$

$$R = 0.9999$$

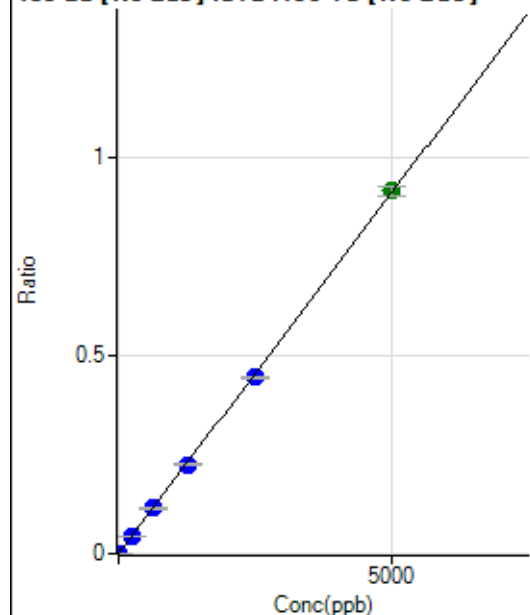
$$DL = 0.0615$$

$$BEC = 0.02089$$

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	8.33	0.0000	P	99.8
2	☐	10.000	10.050	3028.20	0.0018	P	5.3
3	☐	250.000	242.553	73963.41	0.0442	P	2.7
4	☐	625.000	639.097	187109.41	0.1165	P	4.1
5	☐	1250.000	1239.031	380007.44	0.2258	P	1.5
6	☐	2500.000	2442.756	783972.21	0.4452	P	0.6
7	☐	5000.000	5029.974	1578884.21	0.9166	A	2.4
8	☐			702.82	0.0004	P	16.6

$$y = 1.8224\text{E-}004 * x + 5.2085\text{E-}006$$

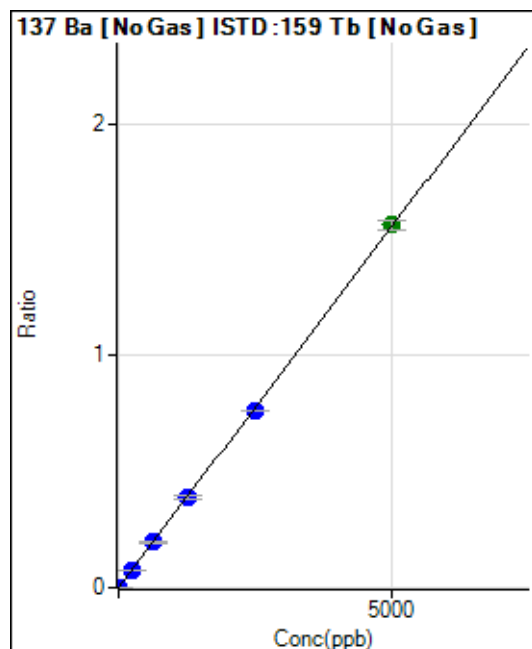
$$R = 0.9999$$

$$DL = 0.08553$$

$$BEC = 0.02858$$

Weight: <None>

Min Conc: 0



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	11.11	0.0000	P	86.6
2	☐	10.000	9.737	5009.41	0.0030	P	0.5
3	☐	250.000	245.658	127820.91	0.0765	P	4.9
4	☐	625.000	635.111	317571.55	0.1977	P	4.0
5	☐	1250.000	1253.032	656246.65	0.3900	P	3.1
6	☐	2500.000	2441.973	1338423.18	0.7600	P	0.2
7	☐	5000.000	5027.209	2695304.22	1.5647	A	2.3
8	☐			1272.32	0.0007	P	12.9

$$y = 3.1124\text{E-}004 * x + 7.0869\text{E-}006$$

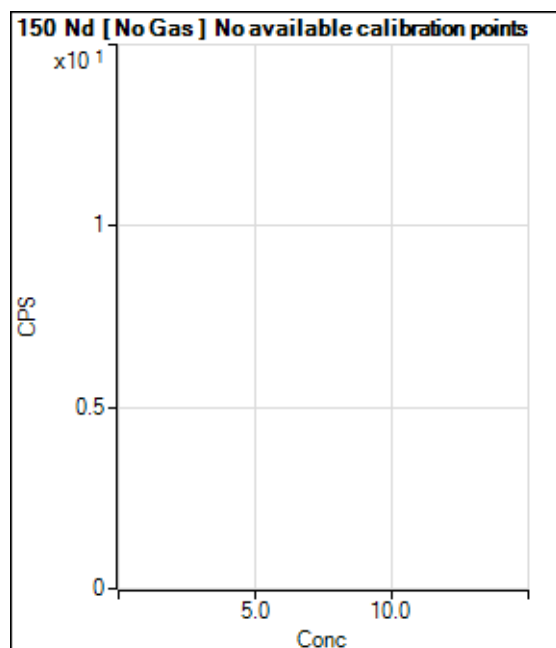
$$R = 0.9999$$

$$DL = 0.05918$$

$$BEC = 0.02277$$

Weight: <None>

Min Conc: 0



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			8.89		P	86.6
2	☐			8.89		P	43.3
3	☐			6.67		P	173.
4	☐			24.44		P	41.7
5	☐			20.00		P	33.4
6	☐			37.78		P	10.2
7	☐			82.23		P	16.9
8	☐			8.89		P	43.3

150 Nd [He] No available calibration points

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			0.00		P	
3	☐			0.00		P	
4	☐			0.00		P	
5	☐			3.33		P	100.
6	☐			2.22		P	86.6
7	☐			3.33		P	0.0
8	☐			3.33		P	173.

156 Dy [No Gas] No available calibration points

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	173.
2	☐			2.78		P	173.
3	☐			13.89		P	34.7
4	☐			16.67		P	100.
5	☐			22.22		P	57.3
6	☐			27.78		P	45.8
7	☐			47.22		P	27.0
8	☐			336.13		P	17.6

156 Dy [He] No available calibration points

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			0.00		P	
2	☐			2.22		P	86.6
3	☐			6.66		P	86.6
4	☐			10.00		P	57.7
5	☐			22.22		P	22.9
6	☐			18.89		P	20.4
7	☐			42.22		P	19.9
8	☐			177.78		P	31.4

160 Gd [No Gas] Noavailable calibration poin_

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			16.67		P	86.6
2	☐			27.78		P	75.5
3	☐			30.56		P	41.7
4	☐			30.56		P	56.8
5	☐			25.00		P	66.7
6	☐			36.11		P	35.3
7	☐			77.78		P	16.4
8	☐			383.35		P	15.2

160 Gd [He] No available calibration points

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1.11		P	173.
2	☐			5.55		P	69.3
3	☐			6.67		P	50.0
4	☐			16.67		P	20.0
5	☐			11.11		P	17.3
6	☐			22.22		P	22.9
7	☐			51.11		P	3.8
8	☐			202.23		P	11.0

164 Er [No Gas] No available calibration points

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			27.78		P	62.5
2	☐			25.00		P	66.7
3	☐			30.55		P	68.6
4	☐			22.22		P	86.6
5	☐			19.44		P	137.
6	☐			30.56		P	41.7
7	☐			16.67		P	50.0
8	☐			66.67		P	21.7

164 Er [He] No available calibration points

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			7.78		P	24.7
3	☐			11.11		P	75.5
4	☐			11.11		P	45.8
5	☐			8.89		P	78.1
6	☐			10.00		P	57.7
7	☐			11.11		P	45.8
8	☐			23.33		P	24.7

172 Yb [No Gas] No available calibration points

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.00		P	100.
2	☐			13.89		P	124.
3	☐			5.55		P	86.6
4	☐			8.33		P	100.
5	☐			11.11		P	114.
6	☐			11.11		P	86.6
7	☐			13.89		P	34.7
8	☐			13.89		P	69.3

172 Yb [He] No available calibration points

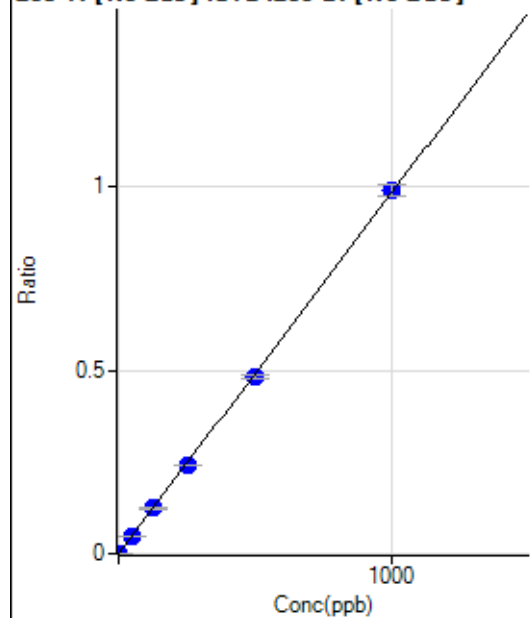
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.71		P	86.6
2	☐			3.71		P	86.6
3	☐			1.85		P	173.
4	☐			1.85		P	173.
5	☐			3.71		P	86.6
6	☐			3.71		P	86.6
7	☐			3.71		P	86.6
8	☐			3.71		P	86.6

176 Yb [No Gas] No available calibration points

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			113.89		P	22.4
2	☐			180.56		P	33.4
3	☐			122.23		P	10.4
4	☐			202.79		P	20.3
5	☐			175.00		P	25.2
6	☐			133.34		P	18.7
7	☐			186.12		P	22.1
8	☐			188.89		P	20.4

176 Yb [He] No available calibration points

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			83.33		P	17.6
2	☐			90.74		P	12.7
3	☐			90.74		P	15.4
4	☐			83.33		P	24.0
5	☐			72.23		P	20.4
6	☐			75.93		P	22.4
7	☐			77.78		P	24.7
8	☐			90.74		P	40.8

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

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	102.78	0.0001	P	10.7
2	☐	1.000	1.037	941.73	0.0011	P	12.2
3	☐	50.000	48.069	39588.94	0.0475	P	5.4
4	☐	125.000	126.919	98649.65	0.1251	P	3.6
5	☐	250.000	243.706	197756.21	0.2401	P	0.7
6	☐	500.000	491.855	414176.48	0.4844	P	1.9
7	☐	1000.000	1005.502	836560.42	0.9901	P	3.2
8	☐			475.02	0.0006	P	12.6

$$y = 9.8459E-004 * x + 1.2816E-004$$

$$R = 0.9999$$

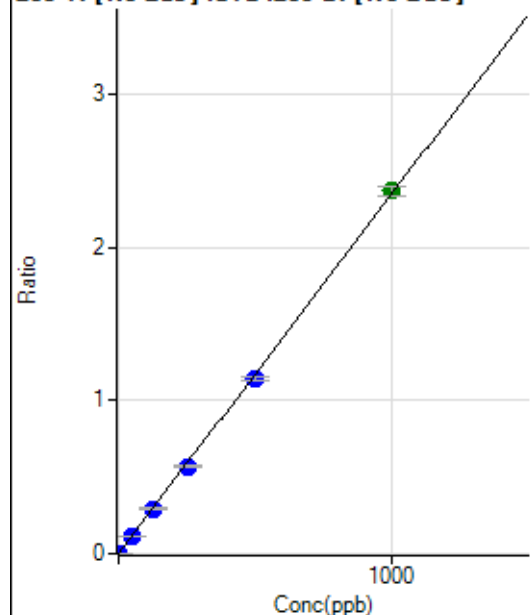
$$DL = 0.04188$$

$$BEC = 0.1302$$

Weight: <None>

Min Conc: 0

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



	R _{jt}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	200.01	0.0002	P	7.1
2	☐	1.000	1.021	2172.47	0.0026	P	5.5
3	☐	50.000	47.342	93107.00	0.1115	P	2.3
4	☐	125.000	124.862	231567.61	0.2937	P	4.1
5	☐	250.000	242.710	469962.23	0.5706	P	0.9
6	☐	500.000	485.421	975513.69	1.1409	P	2.4
7	☐	1000.000	1009.262	2004073.13	2.3718	A	2.4
8	☐			1163.97	0.0014	P	8.4

$$y = 0.0023 * x + 2.4955E-004$$

$$R = 0.9998$$

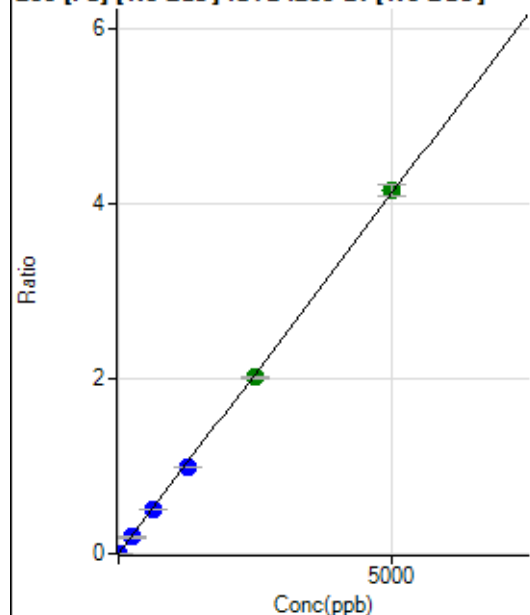
$$DL = 0.02252$$

$$BEC = 0.1062$$

Weight: <None>

Min Conc: 0

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



	R _{jt}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	150.01	0.0002	P	18.1
2	☐	1.000	0.957	798.19	0.0010	P	7.3
3	☐	250.000	231.236	158848.54	0.1903	P	3.9
4	☐	625.000	612.920	397640.63	0.5041	P	3.0
5	☐	1250.000	1194.461	809098.95	0.9823	P	0.6
6	☐	2500.000	2452.683	1724268.46	2.0168	A	0.9
7	☐	5000.000	5039.991	3500875.05	4.1441	A	3.1
8	☐			28442.62	0.0339	P	2.9

$$y = 8.2221E-004 * x + 1.8688E-004$$

$$R = 0.9999$$

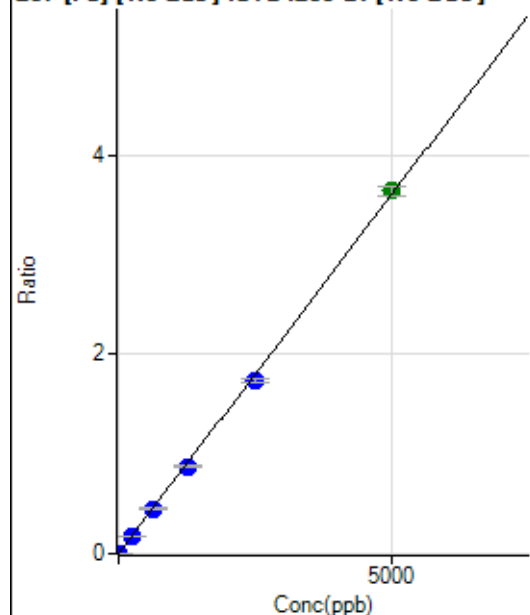
$$DL = 0.1233$$

$$BEC = 0.2273$$

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	153.71	0.0002	P	17.5
2	☐	1.000	0.837	651.88	0.0008	P	1.7
3	☐	250.000	233.428	140420.03	0.1683	P	4.5
4	☐	625.000	619.844	352008.29	0.4465	P	4.9
5	☐	1250.000	1215.431	721082.92	0.8754	P	0.7
6	☐	2500.000	2413.236	1485812.98	1.7379	P	1.6
7	☐	5000.000	5053.497	3074841.16	3.6391	A	2.5
8	☐			24770.28	0.0295	P	2.5

$$y = 7.2008\text{E-}004 * x + 1.9179\text{E-}004$$

$$R = 0.9998$$

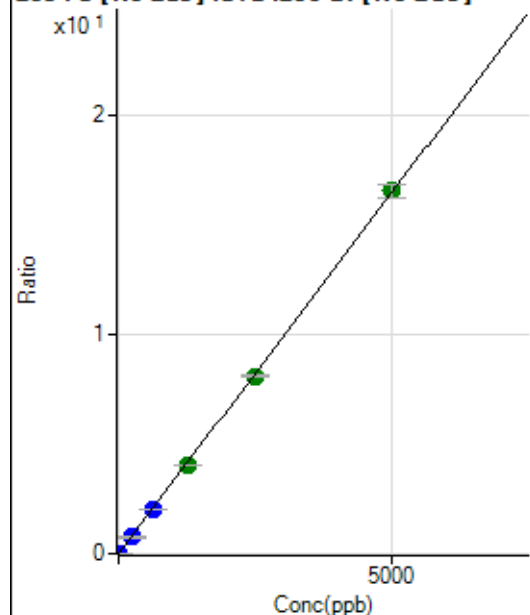
$$DL = 0.1397$$

$$BEC = 0.2663$$

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	640.76	0.0008	P	14.7
2	☐	1.000	0.914	3124.28	0.0038	P	2.5
3	☐	250.000	230.345	633636.98	0.7590	P	3.6
4	☐	625.000	612.956	1591692.36	2.0185	P	4.0
5	☐	1250.000	1215.157	3295380.16	4.0008	A	0.2
6	☐	2500.000	2465.091	6938205.97	8.1153	A	1.4
7	☐	5000.000	5028.654	13983187.6	16.5539	A	3.5
8	☐			112031.54	0.1335	P	1.0

$$y = 0.0033 * x + 7.9976\text{E-}004$$

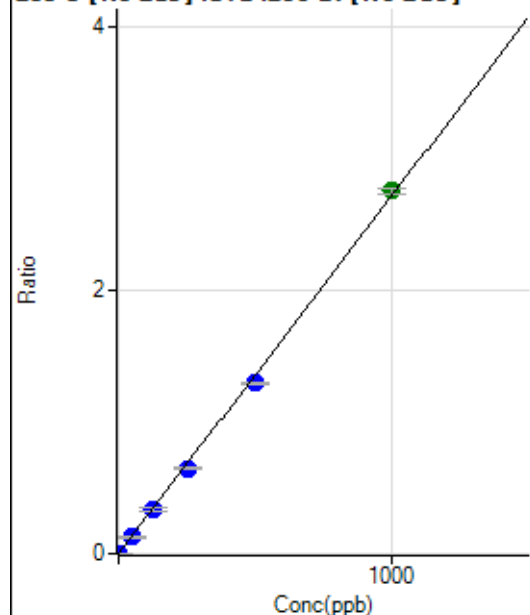
$$R = 0.9999$$

$$DL = 0.1072$$

$$BEC = 0.243$$

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	13.89	0.0000	P	35.6
2	☐	1.000	0.969	2166.93	0.0026	P	7.3
3	☐	50.000	45.816	103620.12	0.1242	P	4.0
4	☐	125.000	123.674	264196.12	0.3351	P	4.5
5	☐	250.000	239.134	533732.25	0.6479	P	1.1
6	☐	500.000	476.395	1103595.93	1.2908	P	0.7
7	☐	1000.000	1014.894	2323998.14	2.7498	A	1.7
8	☐			486.14	0.0006	P	9.2

$$y = 0.0027 * x + 1.7396E-005$$

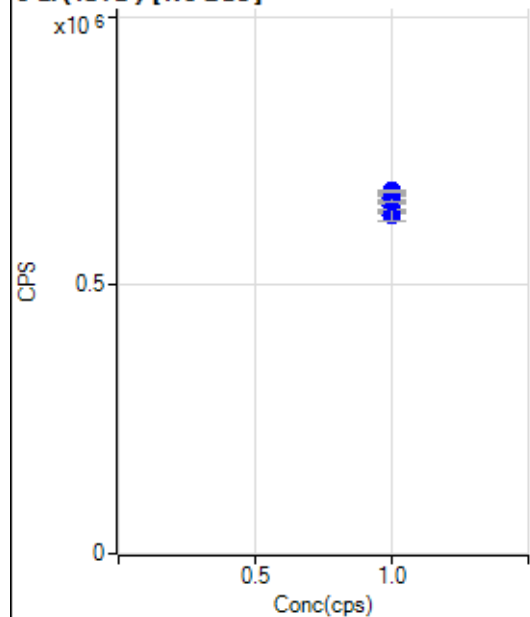
$$R = 0.9995$$

$$DL = 0.006865$$

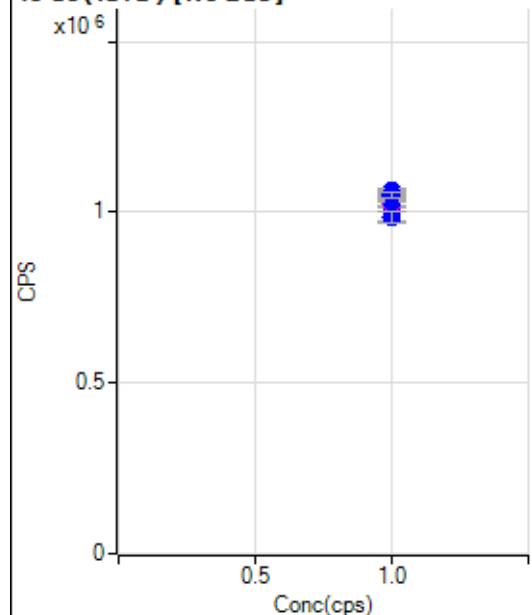
$$BEC = 0.006421$$

Weight: <None>

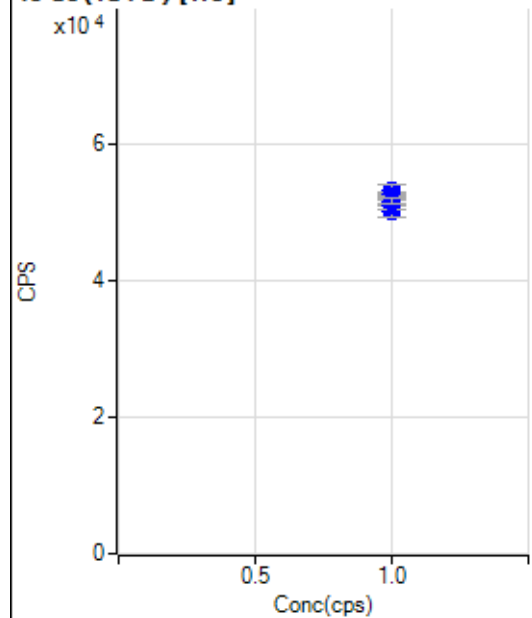
Min Conc: 0

6 Li (ISTD) [No Gas]

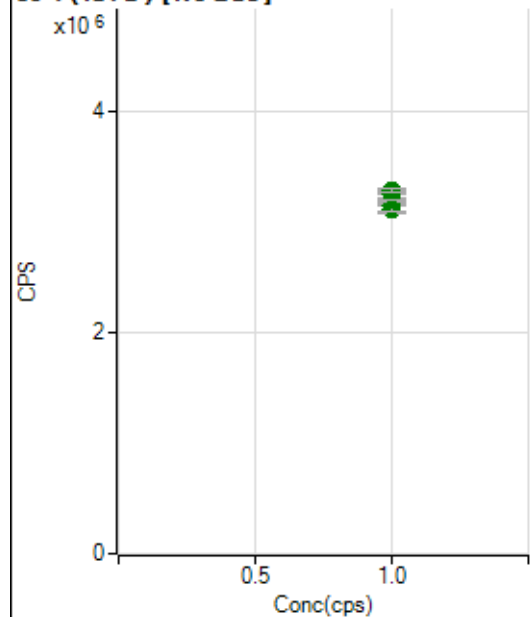
	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		634811.30		P	0.9
2	☐	1.000		637744.05		P	1.1
3	☐	1.000		649275.82		P	3.3
4	☐	1.000		630273.53		P	3.3
5	☐	1.000		653347.61		P	0.5
6	☐	1.000		669453.03		P	0.6
7	☐	1.000		662037.53		P	2.1
8	☐	1.000		675341.90		P	0.3

45 Sc (ISTD) [No Gas]

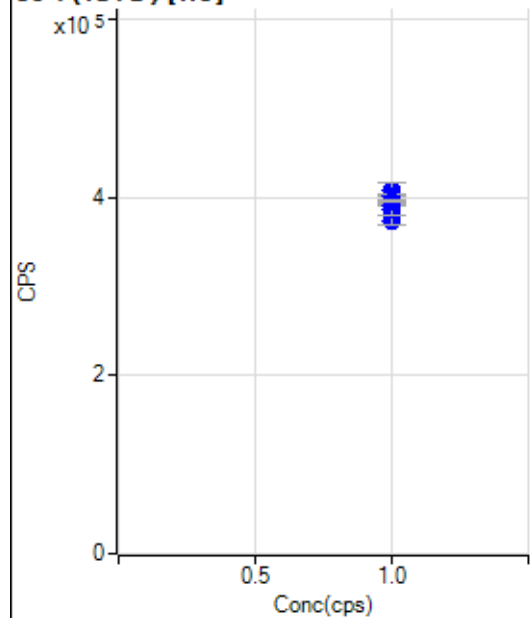
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		986875.12		P	2.6
2	☐	1.000		1014277.93		P	0.6
3	☐	1.000		1025954.53		M	4.5
4	☐	1.000		987112.08		P	3.4
5	☐	1.000		1032670.96		P	0.2
6	☐	1.000		1062020.76		P	1.3
7	☐	1.000		1049442.36		P	3.1
8	☐	1.000		1051092.98		P	1.7

45 Sc (ISTD) [He]

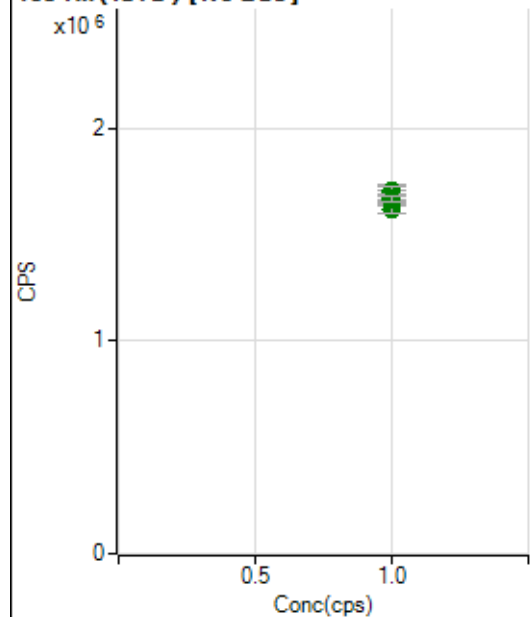
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		50153.93		P	3.1
2	☐	1.000		52809.96		P	0.7
3	☐	1.000		52264.54		P	0.9
4	☐	1.000		52673.24		P	5.5
5	☐	1.000		51077.19		P	2.9
6	☐	1.000		53102.35		P	3.6
7	☐	1.000		52344.89		P	0.5
8	☐	1.000		51538.73		P	1.6

89 Y (ISTD) [No Gas]

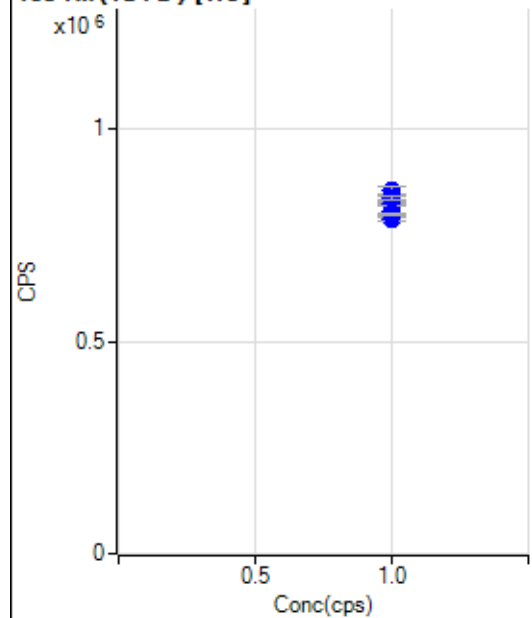
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3115980.37		A	1.9
2	☐	1.000		3198072.94		A	1.5
3	☐	1.000		3226416.58		A	4.8
4	☐	1.000		3144855.89		A	3.3
5	☐	1.000		3203714.22		A	0.8
6	☐	1.000		3267901.48		A	0.9
7	☐	1.000		3259897.31		A	3.2
8	☐	1.000		3284885.75		A	0.9

89 Y (ISTD) [He]

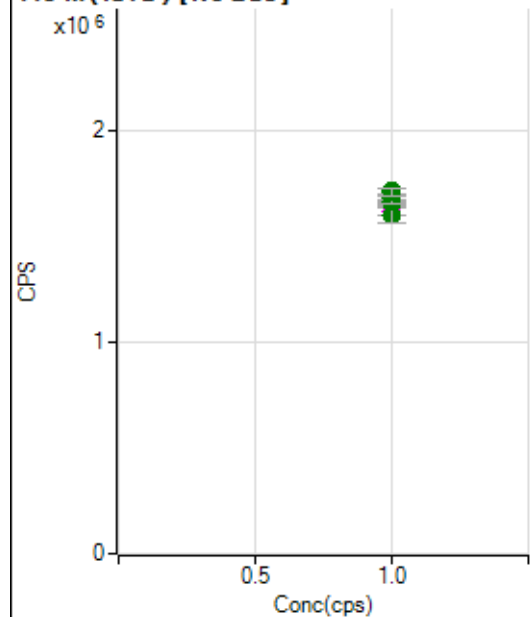
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		373979.43		P	2.9
2	☐	1.000		393564.78		P	0.4
3	☐	1.000		392174.70		P	0.3
4	☐	1.000		392014.82		P	5.5
5	☐	1.000		386590.50		P	3.3
6	☐	1.000		407629.71		P	4.4
7	☐	1.000		401367.42		P	1.4
8	☐	1.000		396339.32		P	0.3

103 Rh (ISTD) [No Gas]

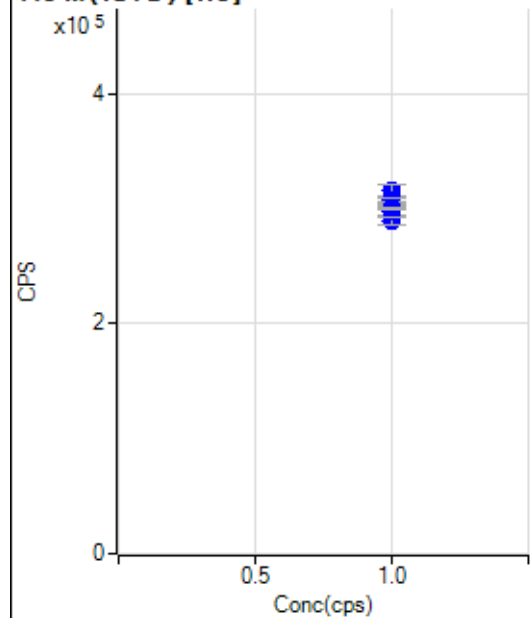
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1646656.97		A	1.2
2	☐	1.000		1679284.00		A	0.2
3	☐	1.000		1695261.32		A	4.6
4	☐	1.000		1620258.38		A	3.2
5	☐	1.000		1694133.87		A	1.5
6	☐	1.000		1704405.08		A	2.0
7	☐	1.000		1673533.97		A	1.7
8	☐	1.000		1663811.78		A	1.6

103 Rh (ISTD) [He]

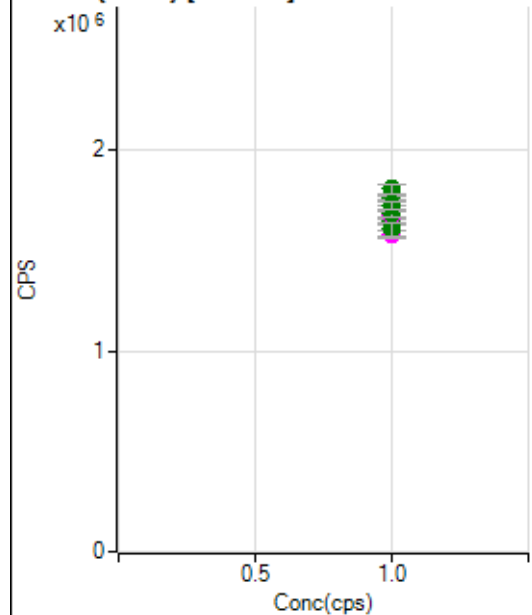
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		789869.81		P	1.8
2	☐	1.000		828299.10		P	0.9
3	☐	1.000		824995.91		P	1.0
4	☐	1.000		822986.90		P	5.5
5	☐	1.000		807611.80		P	3.4
6	☐	1.000		854306.88		P	2.7
7	☐	1.000		837253.76		P	1.4
8	☐	1.000		798841.40		P	0.6

115 In (ISTD) [No Gas]

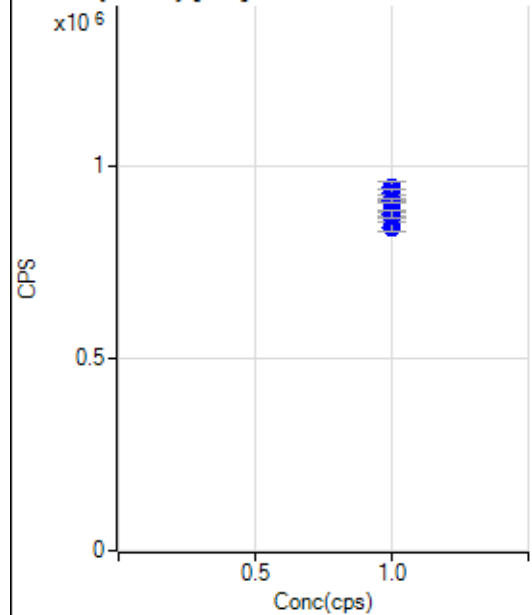
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1617436.76		M	2.2
2	☐	1.000		1656429.94		A	0.9
3	☐	1.000		1688927.13		A	4.5
4	☐	1.000		1604580.73		A	4.8
5	☐	1.000		1668131.27		A	1.2
6	☐	1.000		1716863.49		A	1.9
7	☐	1.000		1679319.44		A	2.3
8	☐	1.000		1708431.77		A	2.4

115 In (ISTD) [He]

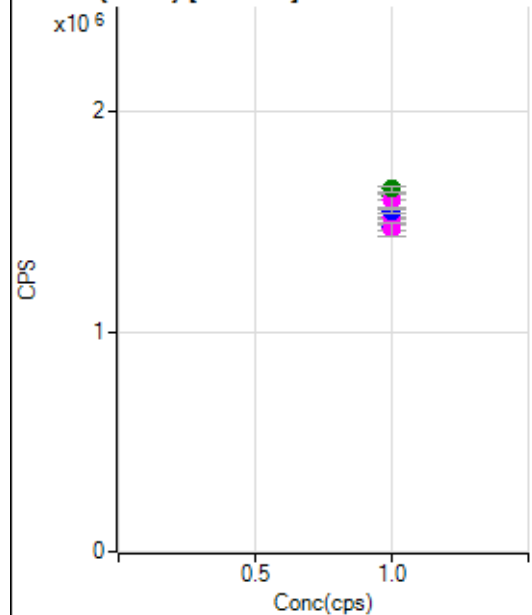
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		289938.30		P	2.5
2	☐	1.000		304327.56		P	0.8
3	☐	1.000		304033.19		P	0.5
4	☐	1.000		302688.91		P	5.7
5	☐	1.000		297768.30		P	3.4
6	☐	1.000		315380.53		P	3.5
7	☐	1.000		307092.05		P	1.3
8	☐	1.000		300567.38		P	0.5

159 Tb (ISTD) [No Gas]

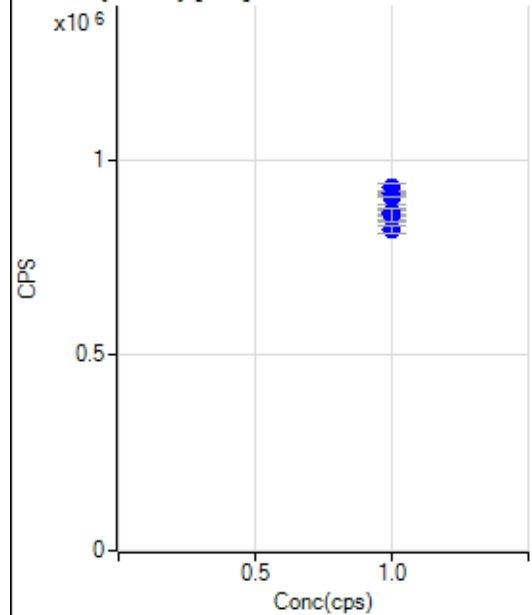
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1580399.16		M	2.0
2	☐	1.000		1649056.43		A	1.2
3	☐	1.000		1674873.52		M	5.9
4	☐	1.000		1608221.23		A	4.1
5	☐	1.000		1683144.91		A	1.3
6	☐	1.000		1761020.04		A	1.4
7	☐	1.000		1722963.10		A	2.4
8	☐	1.000		1807793.93		A	2.7

159 Tb (ISTD) [He]

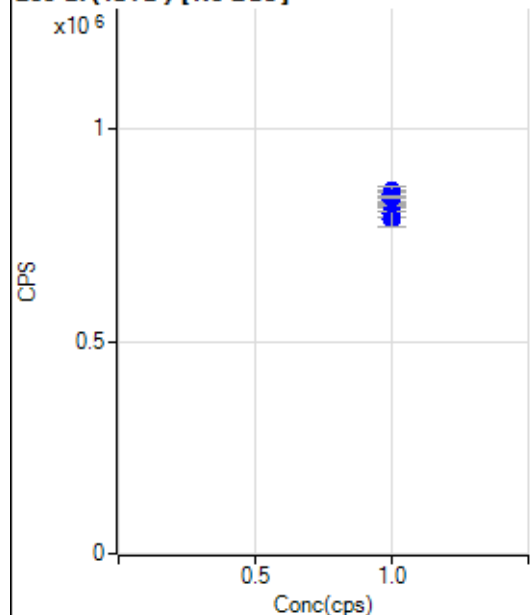
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		843113.53		P	2.7
2	☐	1.000		874037.73		P	1.2
3	☐	1.000		877600.92		P	1.1
4	☐	1.000		889153.42		P	5.2
5	☐	1.000		877308.92		P	2.6
6	☐	1.000		945200.86		P	3.7
7	☐	1.000		934134.75		P	1.5
8	☐	1.000		911828.62		P	0.8

165 Ho (ISTD) [No Gas]

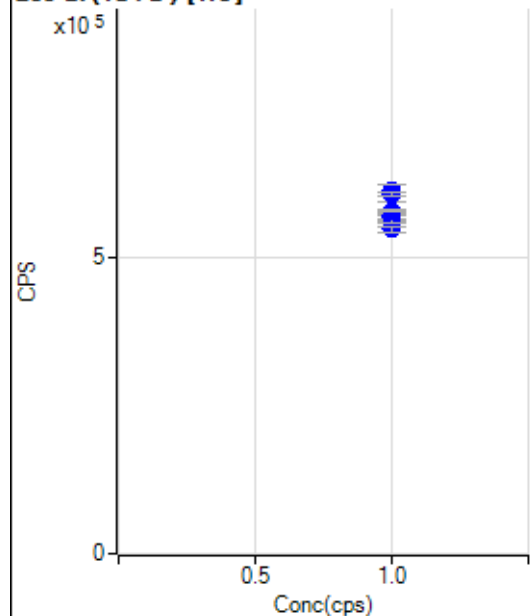
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1480266.97		P	2.4
2	☐	1.000		1513950.76		P	0.5
3	☐	1.000		1520142.67		M	4.8
4	☐	1.000		1463717.78		M	4.4
5	☐	1.000		1546751.17		P	1.4
6	☐	1.000		1612178.75		A	1.7
7	☐	1.000		1596302.36		M	4.3
8	☐	1.000		1647750.93		A	1.6

165 Ho (ISTD) [He]

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		822138.89		P	2.6
2	☐	1.000		859675.04		P	0.7
3	☐	1.000		865800.99		P	1.0
4	☐	1.000		865509.78		P	4.3
5	☐	1.000		859139.56		P	4.0
6	☐	1.000		928764.90		P	2.8
7	☐	1.000		916034.80		P	1.2
8	☐	1.000		906126.51		P	0.2

209 Bi (ISTD) [No Gas]

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		801034.07		P	1.9
2	☐	1.000		820130.07		P	1.1
3	☐	1.000		835701.23		P	5.1
4	☐	1.000		789472.78		P	4.6
5	☐	1.000		823678.25		P	1.0
6	☐	1.000		854953.43		P	0.8
7	☐	1.000		845542.18		P	4.4
8	☐	1.000		839496.54		P	0.3

209 Bi (ISTD) [He]

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		546072.29		P	2.0
2	☐	1.000		567037.96		P	1.1
3	☐	1.000		568534.64		P	1.5
4	☐	1.000		576331.63		P	5.7
5	☐	1.000		567758.28		P	3.8
6	☐	1.000		610920.27		P	3.3
7	☐	1.000		604761.09		P	1.3
8	☐	1.000		577866.77		P	0.6

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8042921 MS.b
Acq. Date-Time 2021-04-29 12:03:30
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		3964	39643.89			2.029	5.000
24		34477	344774.42			1.704	5.000
25		4525	45246.45			1.244	5.000
26		5263	52633.51			1.560	5.000
59		23991	239913.78			1.381	5.000
113		2936	29355.74			1.733	5.000
115		18482	184820.53			1.921	5.000
206		3979	39788.65			1.532	5.000
207		3518	35176.81			1.403	5.000
208		8310	83098.52			1.775	5.000
220		1	10.90			11.422	

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

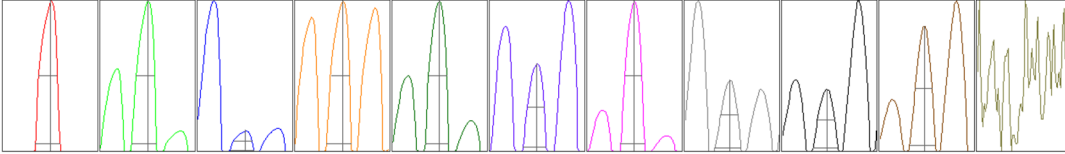
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3987	3824	3982	4027	4002
24	34647	33439	34702	34892	34707
25	4556	4427	4540	4569	4531
26	5299	5120	5282	5289	5328
59	24168	23407	24073	24211	24097
113	2914	2865	2980	2930	2989
115	18284	17956	18719	18641	18809
206	3932	3902	4028	3987	4044
207	3479	3454	3542	3540	3573
208	8194	8130	8355	8374	8497

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	7249.36	9.05	8.90 - 9.10	
24	62148.41	24.05	23.90 - 24.10	
25	8331.43	25.05	24.90 - 25.10	
26	9340.94	26.05	25.90 - 26.10	
59	44630.84	59.00	58.90 - 59.10	
113	5752.44	113.00	112.90 - 113.10	
115	36572.59	115.00	114.90 - 115.10	
206	7584.81	205.95	205.90 - 206.10	
207	6545.16	206.95	206.90 - 207.10	
208	15909.41	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.776	0.900	
24	0.58	0.782	0.900	
25	0.58	0.744	0.900	
26	0.60	0.782	0.900	
59	0.57	0.737	0.900	
113	0.53	0.729	0.900	
115	0.53	0.763	0.900	
206	0.54	0.817	0.900	
207	0.55	0.786	0.900	
208	0.53	0.818	0.900	
220	0.14			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.49 L/min Dilution Gas 0.45 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	10.5 V	Deflect	15.2 V
Extract 2	-220.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 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	190 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9988	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-1.1 mm
---------	--------	---------	---------

EM

Discriminator	3.9 mV	Analog HV	2193 V	Pulse HV	1415 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		5858	58575.21			0.733	
89		9610	96096.47			0.750	
205		5850	58504.41			0.873	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	5921	5820	5863	5815	5869
89	9708	9626	9565	9631	9518
205	5937	5856	5813	5828	5818

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.49 L/min	Dilution Gas	0.45 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	10.5 V	Deflect	5.0 V
-----------	--------	------------	--------	---------	-------

US EPA Tune Check Report

Extract 2	-220.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 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	0.9988	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.02		
Hardware Settings					
Torch					
Torch H	0.6 mm	Torch V	-1.1 mm		
EM					
Discriminator	3.9 mV	Analog HV	2193 V	Pulse HV	1415 V