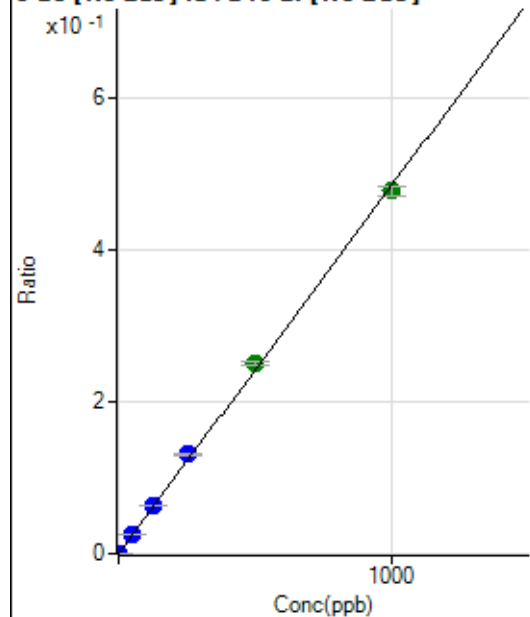


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8070921 MS.b\
Analysis File: P8070921 MS.batch.bin
DA Date-Time: 2021-07-09 14:35:35
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-07-09 12:35:09
2	004CAL.S.d	S02	2021-07-09 12:38:14
3	005CAL.S.d	S03	2021-07-09 12:41:18
4	006CAL.S.d	S04	2021-07-09 12:44:23
5	007CAL.S.d	S05	2021-07-09 12:47:26
6	008CAL.S.d	S06	2021-07-09 12:50:32
7	009CAL.S.d	S07	2021-07-09 12:53:35
8	010CAL.S.d	S08	2021-07-09 12:56:40

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	56.66	0.0000	P	21.1
2	☐	1.000	1.073	3120.39	0.0005	P	4.5
3	☐	50.000	52.403	149967.90	0.0254	P	1.2
4	☐	125.000	131.914	379172.05	0.0639	P	1.3
5	☐	250.000	269.810	766812.73	0.1307	P	1.3
6	☐	500.000	516.102	1439009.30	0.2500	A	2.5
7	☐	1000.000	986.012	2754766.58	0.4777	A	2.6
8	☐			505.91	0.0001	P	1.9

$$y = 4.8447\text{E-}004 * x + 9.6248\text{E-}006$$

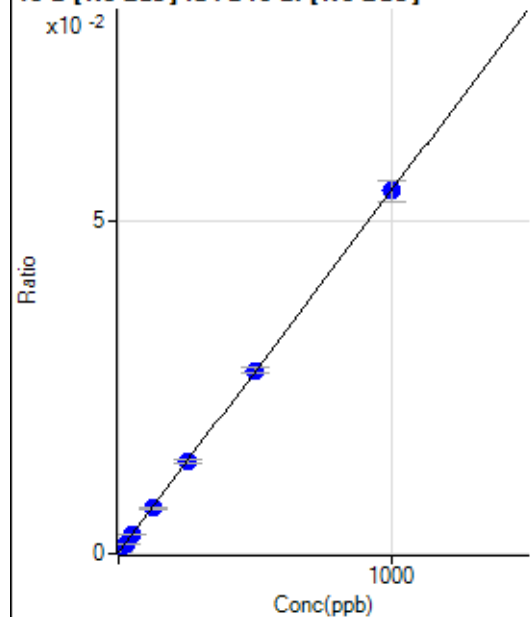
$$R = 0.9996$$

$$DL = 0.0126$$

$$BEC = 0.01987$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1089.16	0.0002	P	2.5
2	☐	25.000	23.395	8608.19	0.0015	P	7.7
3	☐	50.000	48.070	16569.38	0.0028	P	3.9
4	☐	125.000	122.398	40691.57	0.0069	P	4.7
5	☐	250.000	251.642	81546.66	0.0139	P	5.4
6	☐	500.000	502.981	159018.80	0.0276	P	3.1
7	☐	1000.000	998.561	314865.09	0.0546	P	5.7
8	☐			31462.19	0.0055	P	11.3

$$y = 5.4520\text{E-}005 * x + 1.8511\text{E-}004$$

$$R = 1.0000$$

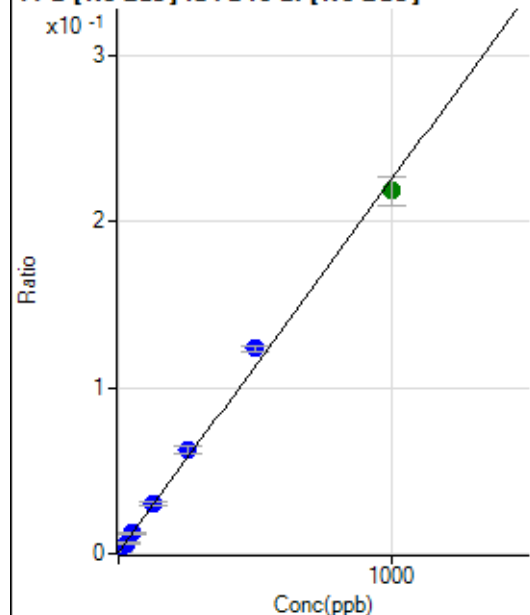
$$DL = 0.2541$$

$$BEC = 3.395$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4944.53	0.0008	P	1.8
2	☐	25.000	24.509	37355.26	0.0063	P	6.6
3	☐	50.000	51.185	72782.26	0.0123	P	5.1
4	☐	125.000	130.302	178455.71	0.0301	P	5.1
5	☐	250.000	274.761	366453.86	0.0625	P	6.1
6	☐	500.000	546.270	710674.48	0.1234	P	2.8
7	☐	1000.000	969.965	1258907.22	0.2185	A	7.9
8	☐			139229.10	0.0241	P	10.9

$$y = 2.2436E-004 * x + 8.4032E-004$$

$$R = 0.9979$$

$$DL = 0.1968$$

$$BEC = 3.745$$

Weight: <None>

Min Conc: 0

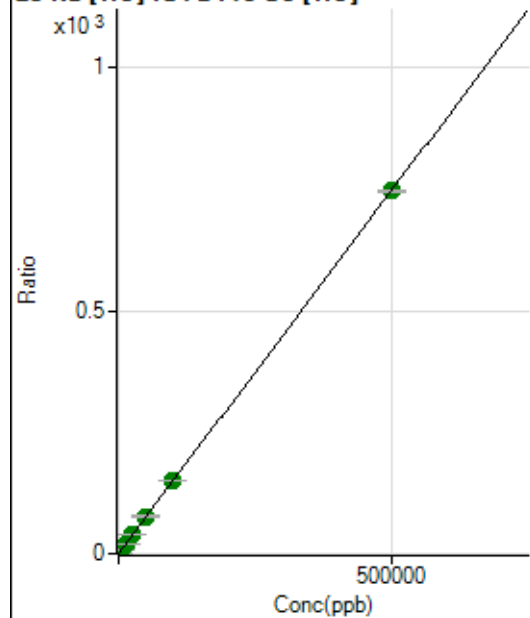
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5843158.68		A	1.8
2	☐			5406149.99		A	0.2
3	☐			5980329.82		A	1.6
4	☐			6474831.57		A	3.6
5	☐			6675382.18		A	1.7
6	☐			7080753.98		A	4.1
7	☐			7214774.30		A	3.3
8	☐			6866960.66		A	3.0

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			56863.47		P	0.9
2	☐			53609.52		P	1.1
3	☐			60145.60		P	0.8
4	☐			66885.81		P	2.8
5	☐			69233.27		P	2.6
6	☐			74882.67		P	2.6
7	☐			76926.89		P	1.8
8	☐			79082.69		P	2.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30822.04	0.1661	P	3.0
2	☐	500.000	521.518	182495.09	0.9453	P	0.8
3	☐	5000.000	5120.416	1510063.68	7.8167	A	1.6
4	☐	12500.000	13149.686	3850365.24	19.8136	A	0.7
5	☐	25000.000	26046.394	7576495.48	39.0832	A	0.3
6	☐	50000.000	51288.969	15023961.27	76.7993	A	1.9
7	☐	100000.00	100684.07	29872440.60	150.6029	A	1.2
8	☐	500000.00	499664.50	148463290.8	746.7383	A	0.7

$$y = 0.0015 * x + 0.1661$$

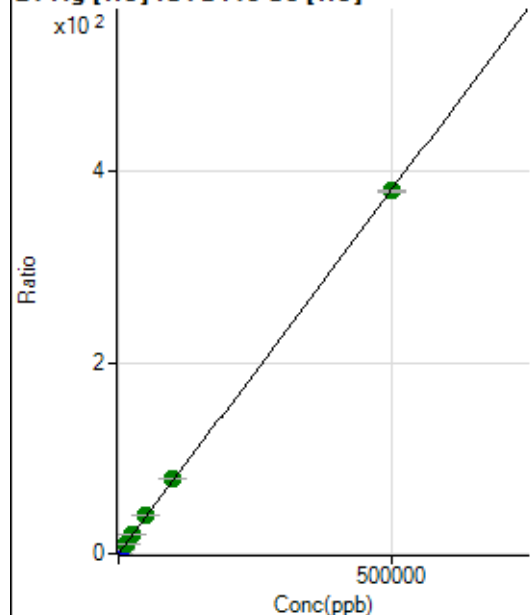
$$R = 1.0000$$

$$DL = 9.859$$

$$BEC = 111.1$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	166.67	0.0009	P	15.1
2	☐	500.000	537.546	79159.71	0.4101	P	2.4
3	☐	5000.000	5501.282	809170.23	4.1885	P	0.7
4	☐	12500.000	13758.046	2035235.46	10.4736	A	1.1
5	☐	25000.000	26876.090	3966173.61	20.4591	A	0.7
6	☐	50000.000	52643.407	7839747.74	40.0732	A	1.1
7	☐	100000.00	103332.43	15601882.12	78.6579	A	0.7
8	☐	500000.00	498938.86	75507891.97	379.7947	A	0.7

$$y = 7.6120E-004 * x + 8.9963E-004$$

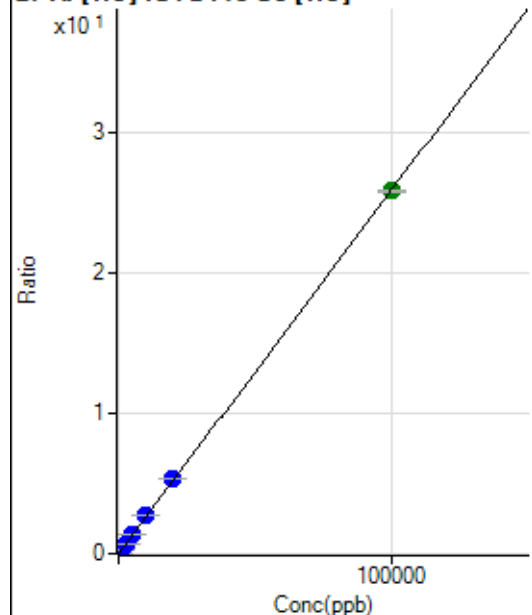
$$R = 1.0000$$

$$DL = 0.534$$

$$BEC = 1.182$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	113.32	0.0006	P	5.1
2	☐	20.000	21.910	1214.91	0.0063	P	4.2
3	☐	1000.000	1051.574	52817.59	0.2734	P	1.7
4	☐	2500.000	2705.094	136487.31	0.7024	P	0.9
5	☐	5000.000	5412.557	272309.75	1.4047	P	0.2
6	☐	10000.000	10573.403	536682.55	2.7436	P	2.1
7	☐	20000.000	20636.560	1061995.26	5.3542	P	0.5
8	☐	100000.00	99789.076	5147000.70	25.8880	A	0.5

$$y = 2.5942E-004 * x + 6.1095E-004$$

$$R = 1.0000$$

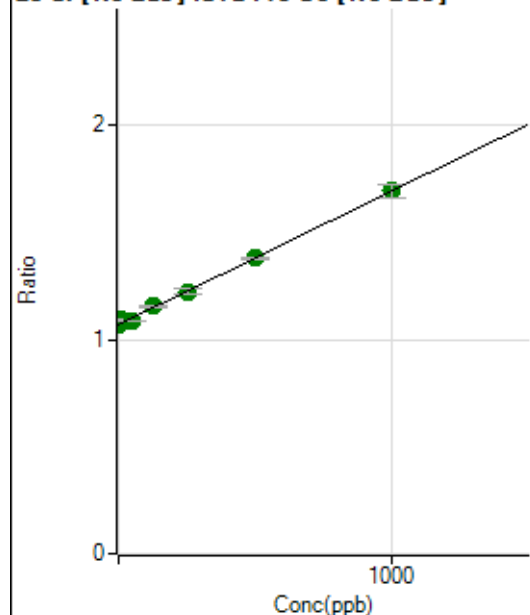
$$DL = 0.361$$

$$BEC = 2.355$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8132660.60	1.0689	A	0.2
2	☐	10.000	35.026	8272175.01	1.0907	A	1.2
3	☐	50.000	28.145	8346101.57	1.0864	A	0.4
4	☐	125.000	139.805	8916532.06	1.1561	A	0.8
5	☐	250.000	248.297	9430042.49	1.2238	A	2.1
6	☐	500.000	498.341	10607073.07	1.3798	A	0.5
7	☐	1000.000	1000.247	13081888.49	1.6929	A	3.4
8	☐			7896494.79	1.0019	A	2.9

$$y = 6.2384E-004 * x + 1.0689$$

R = 0.9992

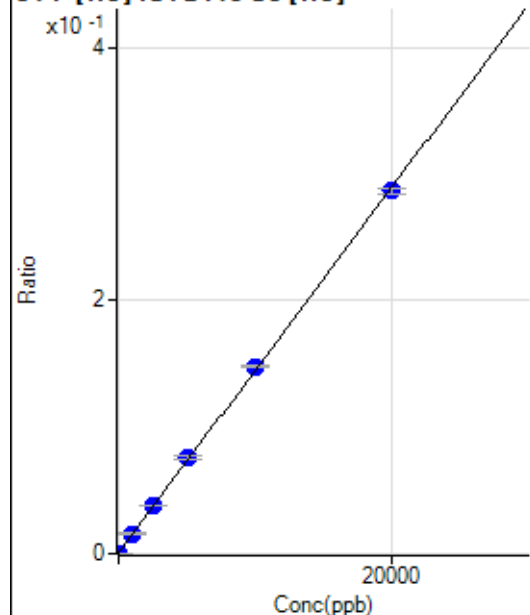
DL = 11.7

BEC = 1713

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.868	116.67	0.0006	P	7.8
2	☐	0.000	-0.868	116.67	0.0006	P	11.6
3	☐	1000.000	1061.325	3075.40	0.0159	P	11.1
4	☐	2500.000	2589.933	7382.61	0.0380	P	3.7
5	☐	5000.000	5211.631	14696.66	0.0758	P	3.4
6	☐	10000.000	10209.003	28940.50	0.1479	P	1.2
7	☐	20000.000	19828.283	56861.94	0.2867	P	1.4
8	☐			144.45	0.0007	P	20.7

$$y = 1.4427E-005 * x + 6.1644E-004$$

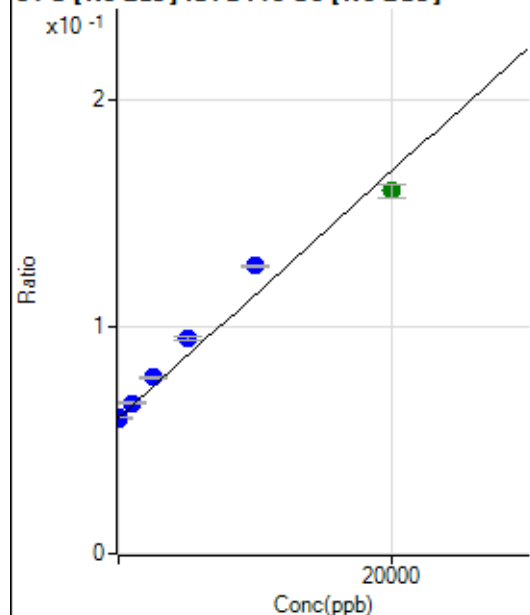
R = 0.9999

DL = 12.39

BEC = 42.73

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-66.245	452044.79	0.0594	P	0.9
2	☐	0.000	66.245	456073.83	0.0601	P	1.3
3	☐	1000.000	1217.300	510042.69	0.0664	P	0.4
4	☐	2500.000	3274.104	598253.13	0.0776	P	1.7
5	☐	5000.000	6436.830	730319.09	0.0948	P	1.3
6	☐	10000.000	12292.001	973267.01	0.1266	P	0.6
7	☐	20000.000	18387.164	1234458.98	0.1597	A	3.5
8	☐			391939.51	0.0497	P	2.1

$$y = 5.4365E-006 * x + 0.0598$$

$$R = 0.9859$$

$$DL = 357.5$$

$$BEC = 1.1E+04$$

Weight: <None>

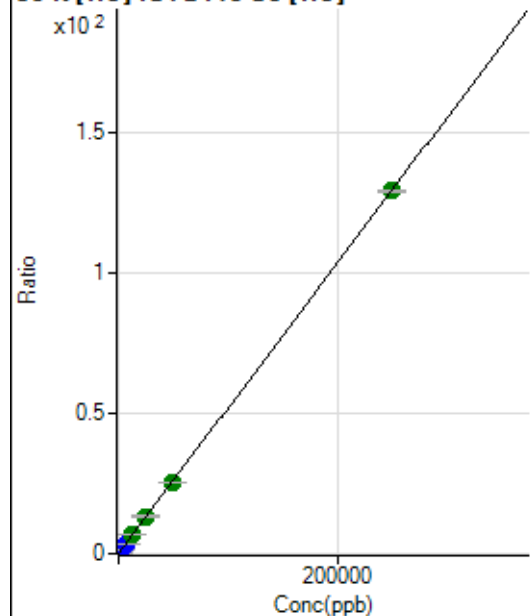
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			559931.43		P	0.2
2	☐			581369.74		P	1.3
3	☐			549074.56		P	0.3
4	☐			546234.11		P	0.2
5	☐			540175.83		P	0.4
6	☐			534059.05		P	0.9
7	☐			525152.85		P	0.5
8	☐			511159.52		P	0.5

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3203.21		P	2.9
2	☐			3381.05		P	3.8
3	☐			2983.73		P	2.0
4	☐			2983.72		P	7.9
5	☐			2933.70		P	4.8
6	☐			3019.84		P	4.3
7	☐			3153.20		P	8.6
8	☐			2917.05		P	8.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	17522.12	0.0944	P	1.9
2	☐	500.000	495.410	67639.11	0.3504	P	1.5
3	☐	2500.000	2595.270	277282.41	1.4353	P	1.3
4	☐	6250.000	6649.224	685942.52	3.5299	P	1.2
5	☐	12500.000	13146.422	1335073.13	6.8868	A	0.6
6	☐	25000.000	25454.797	2591042.38	13.2463	A	2.4
7	☐	50000.000	49460.438	5087552.03	25.6494	A	0.2
8	☐	250000.00	250019.18	25702049.70	129.2732	A	0.7

$$y = 5.1668\text{E-}004 * x + 0.0944$$

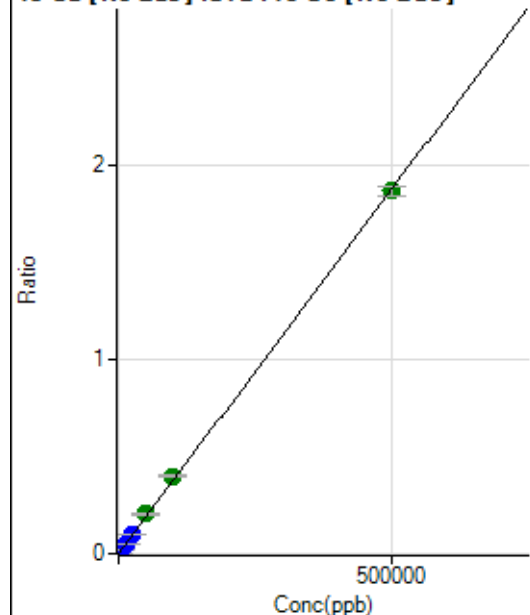
$$R = 1.0000$$

$$DL = 10.21$$

$$BEC = 182.7$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	334.13	0.0000	P	2.4
2	☐	500.000	510.849	14893.76	0.0020	P	0.8
3	☐	5000.000	5191.638	150221.97	0.0196	P	0.1
4	☐	12500.000	13494.341	391458.78	0.0508	P	0.9
5	☐	25000.000	27385.734	793444.82	0.1030	P	1.3
6	☐	50000.000	54148.120	1564661.28	0.2035	A	1.7
7	☐	100000.00	105929.35	3076953.02	0.3981	A	3.0
8	☐	500000.00	498253.24	14759029.00	1.8725	A	2.8

$$y = 3.7581E-006 * x + 4.3920E-005$$

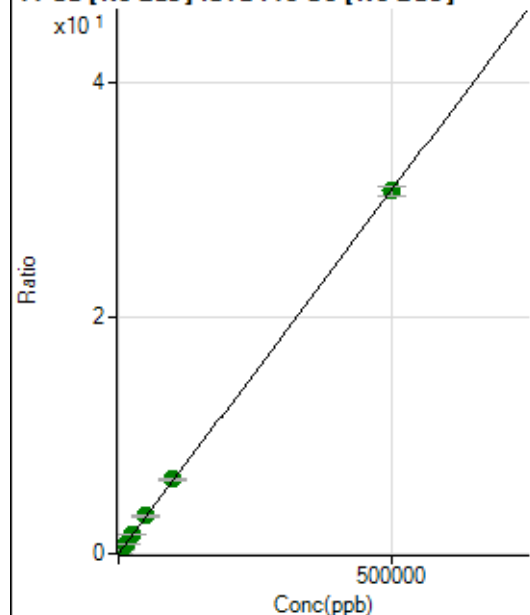
$$R = 0.9999$$

$$DL = 0.8555$$

$$BEC = 11.69$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30525.24	0.0040	P	0.1
2	☐	500.000	510.614	269022.04	0.0355	P	1.0
3	☐	5000.000	4990.794	2393083.97	0.3115	A	1.8
4	☐	12500.000	12821.929	6123850.36	0.7940	A	0.6
5	☐	25000.000	26466.164	12597846.44	1.6346	A	0.4
6	☐	50000.000	51626.521	24483747.90	3.1848	A	0.5
7	☐	100000.00	102288.58	48736133.89	6.3062	A	3.0
8	☐	500000.00	499298.35	242501722.6	30.7668	A	2.5

$$y = 6.1612E-005 * x + 0.0040$$

$$R = 1.0000$$

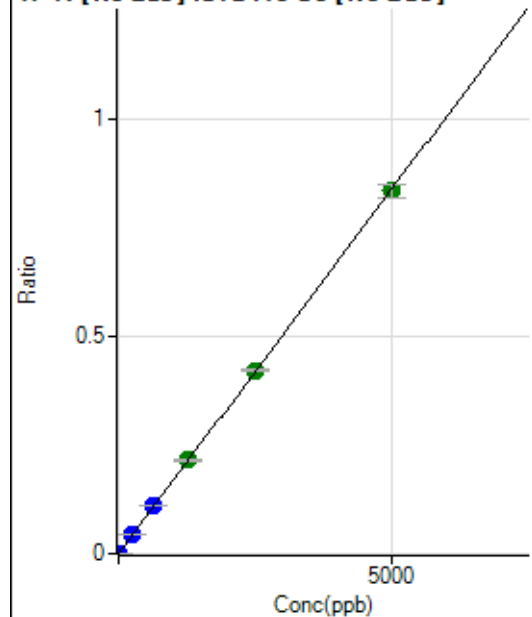
$$DL = 0.1545$$

$$BEC = 65.12$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	197.23	0.0000	P	29.3
2	☐	5.000	5.428	7099.17	0.0009	P	2.1
3	☐	250.000	253.002	326069.32	0.0424	P	0.8
4	☐	625.000	660.468	854224.35	0.1108	P	0.7
5	☐	1250.000	1291.458	1668704.17	0.2166	A	2.0
6	☐	2500.000	2510.068	3235365.50	0.4209	A	1.0
7	☐	5000.000	4980.017	6452399.80	0.8350	A	3.5
8	☐			1914.08	0.0002	P	4.9

$$y = 1.6766\text{E-}004 * x + 2.5886\text{E-}005$$

$$R = 0.9999$$

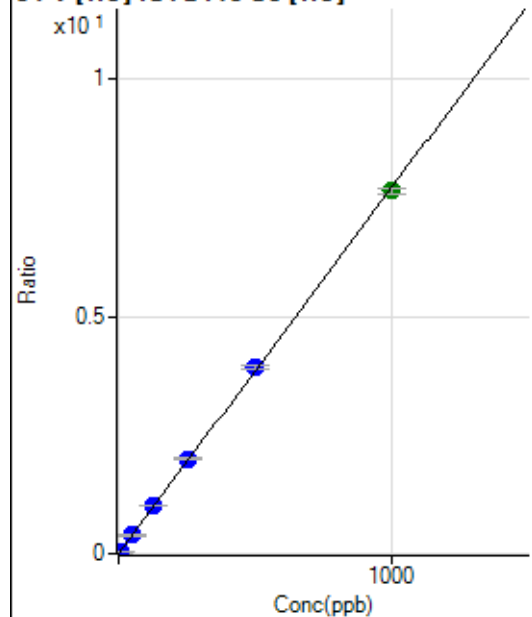
$$DL = 0.1358$$

$$BEC = 0.1544$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.89	0.0000	P	22.8
2	☐	5.000	5.077	7574.29	0.0392	P	0.3
3	☐	50.000	50.316	75024.07	0.3884	P	1.7
4	☐	125.000	129.983	194945.61	1.0032	P	0.8
5	☐	250.000	260.178	389239.58	2.0080	P	0.5
6	☐	500.000	510.269	770322.78	3.9381	P	2.2
7	☐	1000.000	991.682	1518042.53	7.6534	A	1.3
8	☐			463.35	0.0023	P	3.7

$$y = 0.0077 * x + 4.8003\text{E-}005$$

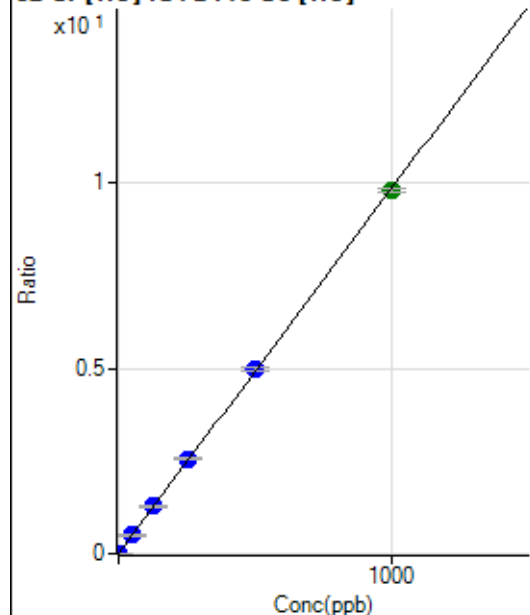
$$R = 0.9999$$

$$DL = 0.00425$$

$$BEC = 0.00622$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	672.25	0.0036	P	12.3
2	☐	2.000	2.032	4566.33	0.0237	P	1.0
3	☐	50.000	49.799	95507.11	0.4944	P	1.3
4	☐	125.000	128.933	247603.99	1.2742	P	0.9
5	☐	250.000	259.994	497377.62	2.5657	P	0.7
6	☐	500.000	507.070	978227.27	5.0005	P	1.8
7	☐	1000.000	993.485	1942592.40	9.7939	A	0.9
8	☐			7661.00	0.0385	P	0.8

$$y = 0.0099 * x + 0.0036$$

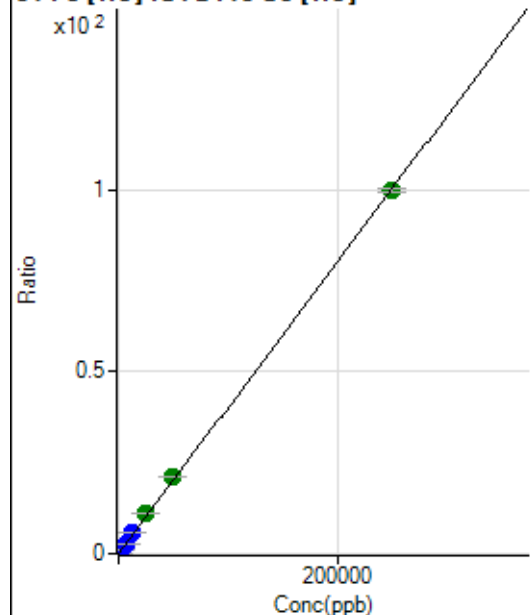
$$R = 0.9999$$

$$DL = 0.1355$$

$$BEC = 0.3681$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	305.56	0.0016	P	14.6
2	☐	50.000	59.135	4893.52	0.0253	P	4.5
3	☐	2500.000	2729.958	211685.61	1.0957	P	0.8
4	☐	6250.000	7046.232	549044.46	2.8256	P	1.8
5	☐	12500.000	14175.780	1101616.64	5.6829	P	0.3
6	☐	25000.000	27383.717	2147407.78	10.9762	A	0.8
7	☐	50000.000	52980.840	4211897.66	21.2347	A	0.9
8	☐	250000.00	249059.46	19844659.70	99.8171	A	1.0

$$y = 4.0077E-004 * x + 0.0016$$

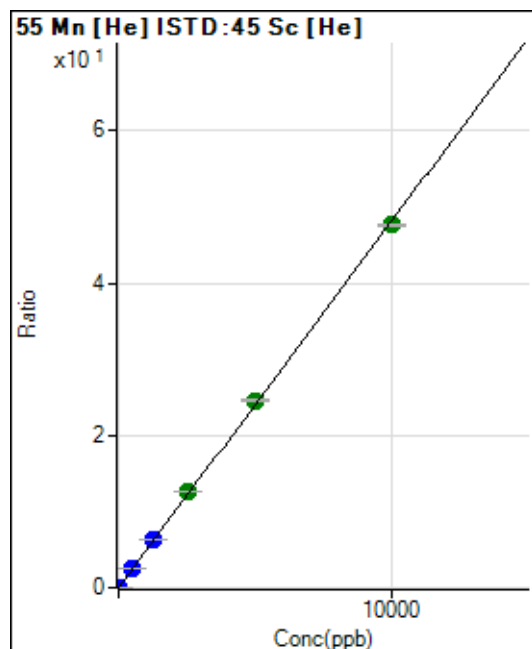
$$R = 0.9999$$

$$DL = 1.798$$

$$BEC = 4.104$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	31.11	0.0002	P	17.9
2	☐	1.000	1.093	1046.72	0.0054	P	6.1
3	☐	500.000	511.777	475334.90	2.4606	P	1.2
4	☐	1250.000	1315.595	1229118.37	6.3249	P	0.6
5	☐	2500.000	2626.779	2447901.86	12.6285	A	1.3
6	☐	5000.000	5110.369	4806303.68	24.5684	A	1.5
7	☐	10000.000	9904.333	9444614.03	47.6156	A	0.7
8	☐			7254.13	0.0365	P	1.4

$$y = 0.0048 * x + 1.6794E-004$$

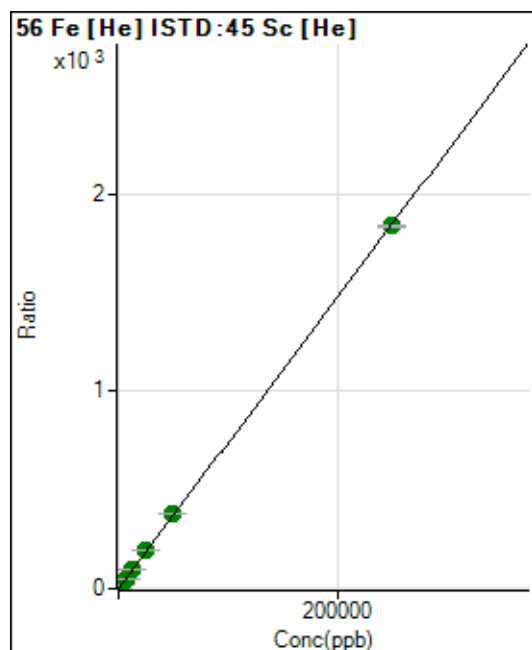
$$R = 0.9998$$

$$DL = 0.01879$$

$$BEC = 0.03493$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2122.43	0.0114	P	3.8
2	☐	50.000	57.415	83902.45	0.4346	P	0.6
3	☐	2500.000	2634.087	3752464.64	19.4249	A	1.7
4	☐	6250.000	6788.744	9724890.26	50.0451	A	1.3
5	☐	12500.000	13681.689	19549799.28	100.8468	A	0.4
6	☐	25000.000	26546.780	38274239.28	195.6637	A	2.2
7	☐	50000.000	51896.808	75867797.07	382.4957	A	0.4
8	☐	250000.00	249392.06	365437985.9	1,838.054	A	0.3

$$y = 0.0074 * x + 0.0114$$

$$R = 1.0000$$

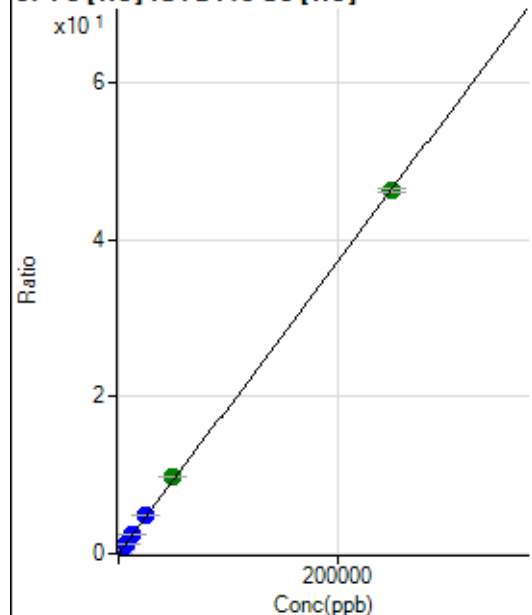
$$DL = 0.1752$$

$$BEC = 1.551$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	70.37	0.0004	P	7.8
2	☐	50.000	58.717	2172.42	0.0113	P	7.2
3	☐	2500.000	2613.253	93618.01	0.4846	P	1.7
4	☐	6250.000	6852.580	246812.29	1.2702	P	1.9
5	☐	12500.000	13633.729	489817.36	2.5268	P	0.1
6	☐	25000.000	26700.105	967893.87	4.9480	P	2.1
7	☐	50000.000	52734.538	1938296.90	9.7722	A	0.7
8	☐	250000.00	249210.19	9180973.12	46.1798	A	0.9

$$y = 1.8530E-004 * x + 3.7896E-004$$

R = 0.9999

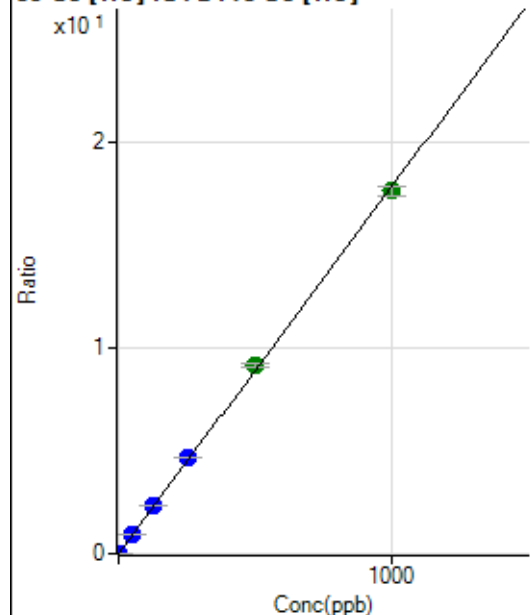
DL = 0.4792

BEC = 2.045

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	50.00	0.0003	P	25.9
2	☐	1.000	1.045	3640.50	0.0189	P	4.1
3	☐	50.000	51.022	175371.44	0.9078	P	0.9
4	☐	125.000	131.049	453004.14	2.3312	P	0.7
5	☐	250.000	261.594	902037.04	4.6531	P	0.6
6	☐	500.000	514.269	1789464.85	9.1473	A	1.4
7	☐	1000.000	989.160	3489575.88	17.5938	A	2.6
8	☐			4930.90	0.0248	P	1.7

$$y = 0.0178 * x + 2.7023E-004$$

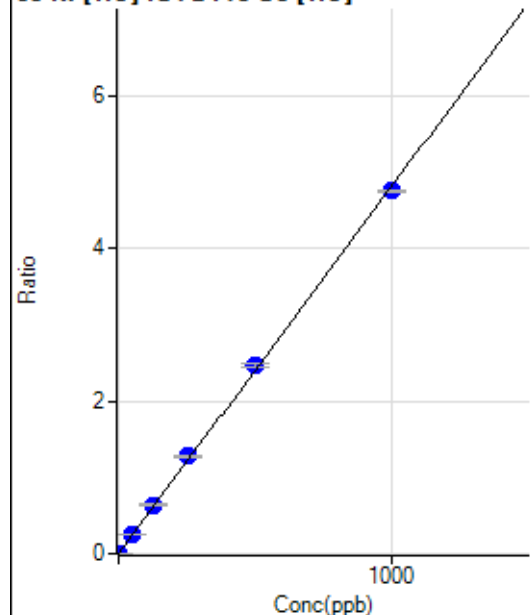
R = 0.9998

DL = 0.0118

BEC = 0.01519

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	44.45	0.0002	P	7.1
2	☐	1.000	1.062	1031.16	0.0053	P	8.4
3	☐	50.000	52.283	48587.19	0.2515	P	0.8
4	☐	125.000	133.124	124371.57	0.6400	P	1.3
5	☐	250.000	265.429	247338.06	1.2759	P	0.9
6	☐	500.000	512.935	482287.33	2.4653	P	1.5
7	☐	1000.000	988.546	942359.16	4.7511	P	0.6
8	☐			3174.83	0.0160	P	1.6

$$y = 0.0048 * x + 2.3931E-004$$

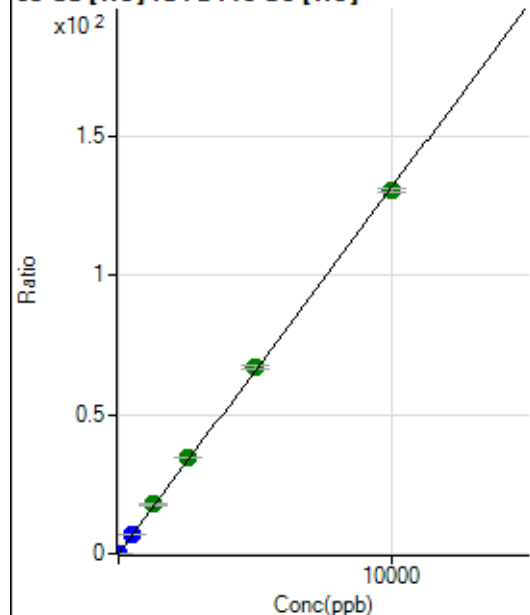
$$R = 0.9997$$

$$DL = 0.01061$$

$$BEC = 0.04979$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1632.33	0.0088	P	7.4
2	☐	2.000	1.717	6056.90	0.0314	P	3.7
3	☐	500.000	523.443	1330601.44	6.8877	P	0.9
4	☐	1250.000	1343.642	3432984.32	17.6664	A	1.6
5	☐	2500.000	2623.061	6684069.69	34.4801	A	0.5
6	☐	5000.000	5084.516	13073368.56	66.8275	A	1.6
7	☐	10000.000	9914.100	25843973.78	130.2961	A	1.1
8	☐			12820.30	0.0645	P	2.0

$$y = 0.0131 * x + 0.0088$$

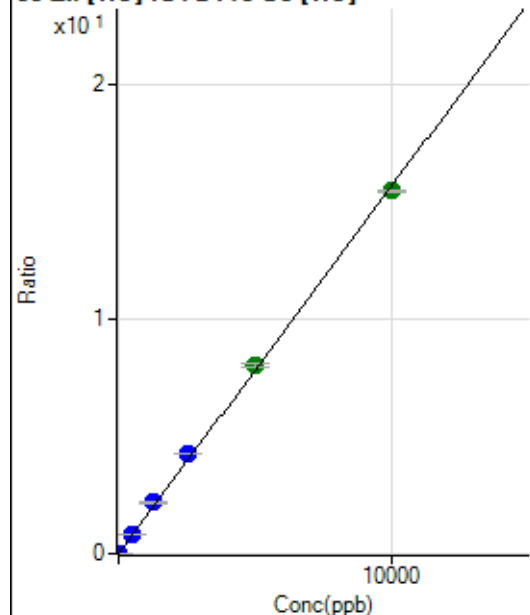
$$R = 0.9998$$

$$DL = 0.1486$$

$$BEC = 0.6695$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	231.12	0.0012	P	3.2
2	☐	2.000	2.425	972.27	0.0050	P	6.9
3	☐	500.000	530.353	160530.27	0.8310	P	1.1
4	☐	1250.000	1393.569	423901.82	2.1815	P	1.3
5	☐	2500.000	2703.274	820083.65	4.2305	P	0.0
6	☐	5000.000	5106.472	1563013.97	7.9902	A	2.0
7	☐	10000.000	9876.482	3065071.55	15.4528	A	0.4
8	☐			50951.12	0.2563	P	0.2

$$y = 0.0016 * x + 0.0012$$

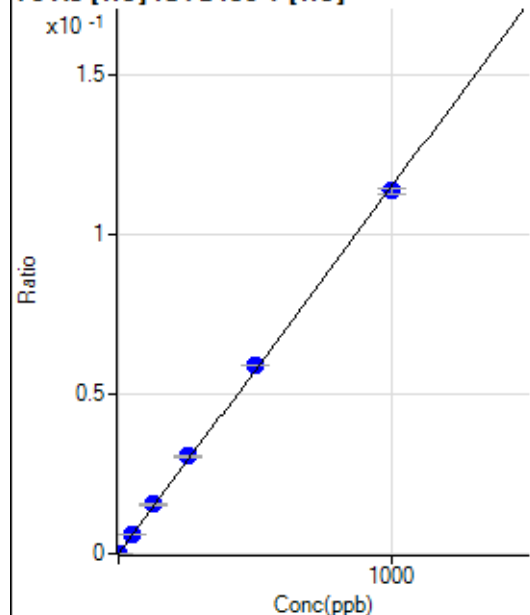
$$R = 0.9996$$

$$DL = 0.07648$$

$$BEC = 0.7963$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.67	0.0000	P	53.3
2	☐	1.000	1.087	196.35	0.0001	P	3.1
3	☐	50.000	52.250	9117.19	0.0060	P	1.5
4	☐	125.000	133.629	23498.80	0.0154	P	1.2
5	☐	250.000	265.144	46962.50	0.0305	P	1.2
6	☐	500.000	513.158	92002.90	0.0590	P	0.3
7	☐	1000.000	988.444	181077.58	0.1137	P	1.4
8	☐			72.34	0.0000	P	5.6

$$y = 1.1498E-004 * x + 3.8357E-006$$

$$R = 0.9997$$

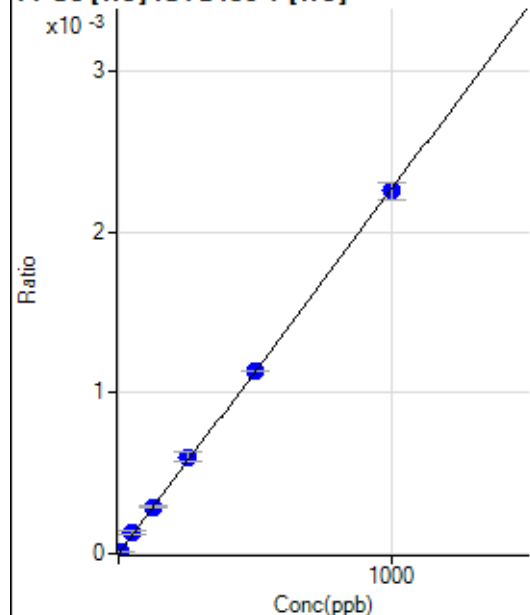
$$DL = 0.05336$$

$$BEC = 0.03336$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.809	20.00	0.0000	P	30.1
3	☐	50.000	56.241	193.34	0.0001	P	17.4
4	☐	125.000	128.368	444.46	0.0003	P	2.9
5	☐	250.000	265.503	925.59	0.0006	P	8.9
6	☐	500.000	500.718	1767.91	0.0011	P	0.5
7	☐	1000.000	995.028	3589.39	0.0023	P	4.8
8	☐			3.33	0.0000	P	100.4

$$y = 2.2644\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

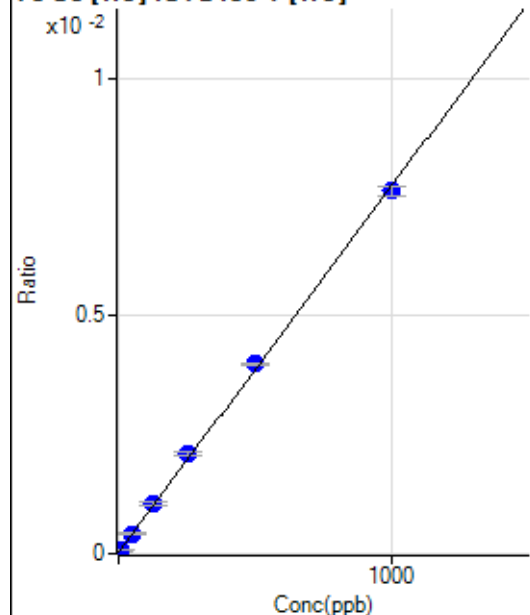
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.33	0.0000	P	6.2
2	☐	5.000	5.258	99.34	0.0001	P	4.1
3	☐	50.000	50.819	631.74	0.0004	P	5.2
4	☐	125.000	133.552	1612.93	0.0011	P	4.6
5	☐	250.000	269.144	3235.04	0.0021	P	2.4
6	☐	500.000	514.422	6225.68	0.0040	P	1.3
7	☐	1000.000	986.892	12168.14	0.0076	P	2.3
8	☐			48.34	0.0000	P	13.6

$$y = 7.7142\text{E-}006 * x + 2.4640\text{E-}005$$

$$R = 0.9996$$

$$DL = 0.5982$$

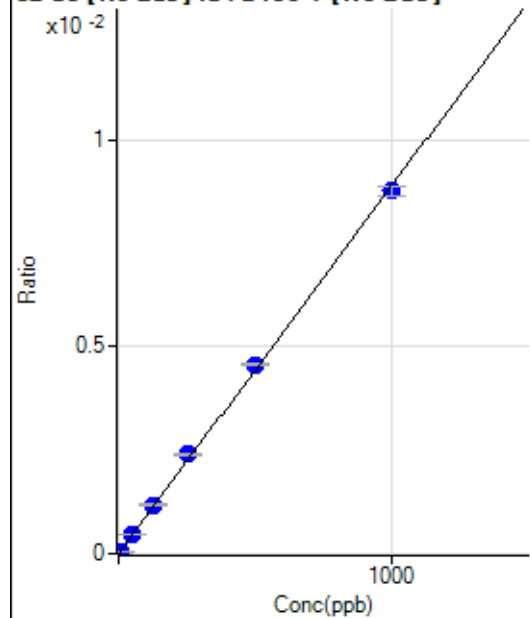
$$BEC = 3.194$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			26786.55		P	1.6
2	☐			25753.55		P	2.4
3	☐			26933.61		P	2.5
4	☐			26689.77		P	4.6
5	☐			26124.67		P	3.4
6	☐			27371.51		P	3.5
7	☐			27856.58		P	1.5
8	☐			27110.88		P	3.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	0.21	0.0000	P	5772.
2	☐	5.000	5.270	769.40	0.0000	P	8.7
3	☐	50.000	52.357	7717.32	0.0005	P	2.7
4	☐	125.000	132.459	19940.41	0.0012	P	2.0
5	☐	250.000	269.714	40072.40	0.0024	P	1.4
6	☐	500.000	514.126	76853.76	0.0046	P	1.6
7	☐	1000.000	986.957	150748.47	0.0088	P	2.5
8	☐			164.45	0.0000	P	31.1

$$y = 8.8789E-006 * x + 1.2947E-008$$

$$R = 0.9996$$

$$DL = 0.2525$$

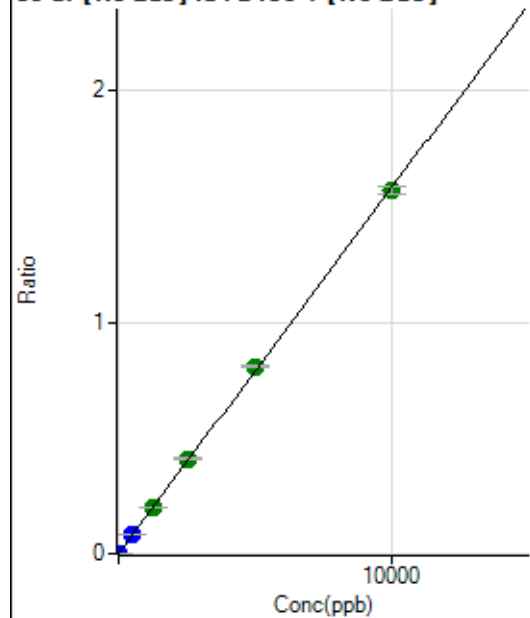
$$BEC = 0.001458$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1021.16		P	0.9
2	☐			1038.94		P	5.0
3	☐			1000.04		P	6.8
4	☐			1027.83		P	3.6
5	☐			1005.60		P	5.4
6	☐			1084.50		P	2.2
7	☐			972.27		P	4.6
8	☐			1121.17		P	4.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1652.93	0.0001	P	2.1
2	☐	1.000	1.124	4564.76	0.0003	P	4.1
3	☐	500.000	504.311	1324137.82	0.0798	P	1.9
4	☐	1250.000	1274.347	3414772.69	0.2014	A	0.4
5	☐	2500.000	2591.635	6852116.73	0.4095	A	1.9
6	☐	5000.000	5110.475	13592761.59	0.8074	A	1.2
7	☐	10000.000	9918.595	26955436.36	1.5668	A	2.1
8	☐			11546.71	0.0007	P	1.4

$$y = 1.5796E-004 * x + 1.0001E-004$$

$$R = 0.9999$$

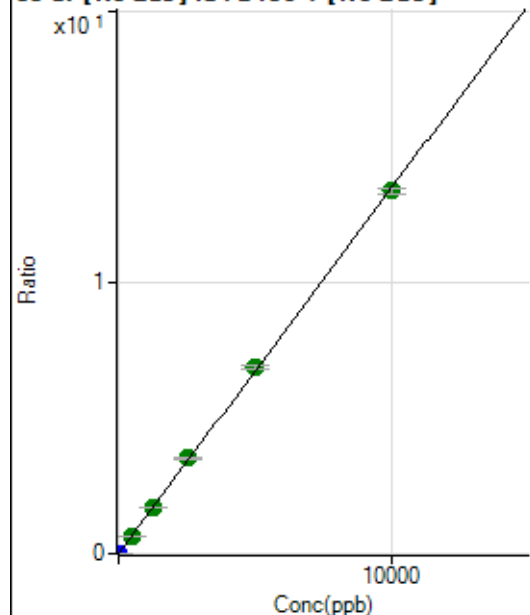
$$DL = 0.04061$$

$$BEC = 0.6331$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	702.82	0.0000	P	10.0
2	☐	1.000	1.042	23793.00	0.0014	P	1.0
3	☐	500.000	492.790	11022899.20	0.6639	A	1.9
4	☐	1250.000	1270.453	29021974.26	1.7116	A	0.7
5	☐	2500.000	2607.723	58786670.06	3.5133	A	2.0
6	☐	5000.000	5096.084	115585381.7	6.8657	A	1.7
7	☐	10000.000	9922.831	230011246.8	13.3685	A	1.4
8	☐			85833.19	0.0050	P	3.6

$$y = 0.0013 * x + 4.2527E-005$$

$$R = 0.9999$$

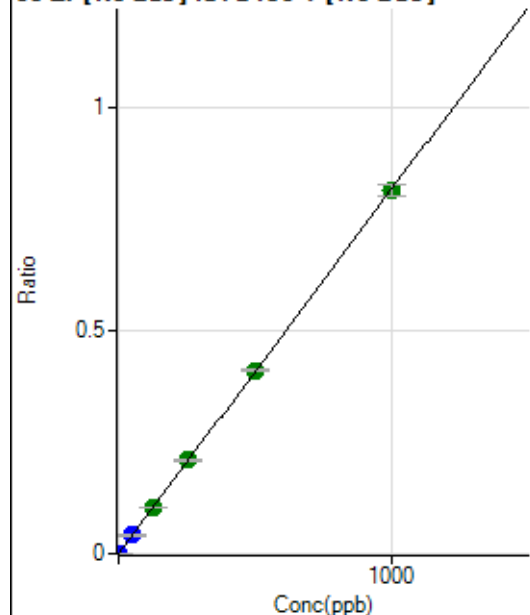
$$DL = 0.009462$$

$$BEC = 0.03157$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1036.18	0.0001	P	5.7
2	☐	1.000	1.029	14852.70	0.0009	P	2.1
3	☐	50.000	50.311	683384.07	0.0412	P	2.3
4	☐	125.000	127.216	1763249.95	0.1040	A	1.6
5	☐	250.000	257.382	3519549.73	0.2103	A	1.8
6	☐	500.000	503.990	6933769.42	0.4118	A	0.6
7	☐	1000.000	995.867	13995928.09	0.8137	A	3.1
8	☐			4656.46	0.0003	P	6.3

$$y = 8.1698E-004 * x + 6.2736E-005$$

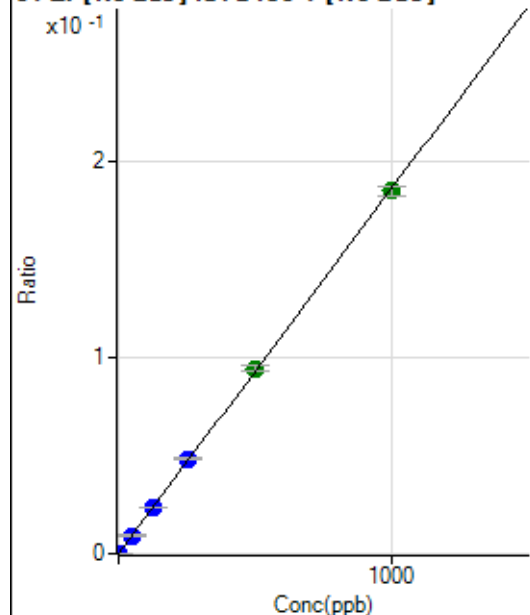
$$R = 1.0000$$

$$DL = 0.01303$$

$$BEC = 0.07679$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	194.45	0.0000	P	17.4
2	☐	1.000	0.990	3222.69	0.0002	P	2.3
3	☐	50.000	49.863	154264.48	0.0093	P	1.4
4	☐	125.000	126.102	398128.29	0.0235	P	1.6
5	☐	250.000	258.672	805714.53	0.0482	P	2.2
6	☐	500.000	507.447	1590125.04	0.0945	A	2.6
7	☐	1000.000	993.977	3182371.71	0.1850	A	3.0
8	☐			1027.85	0.0001	P	14.0

$$y = 1.8611E-004 * x + 1.1785E-005$$

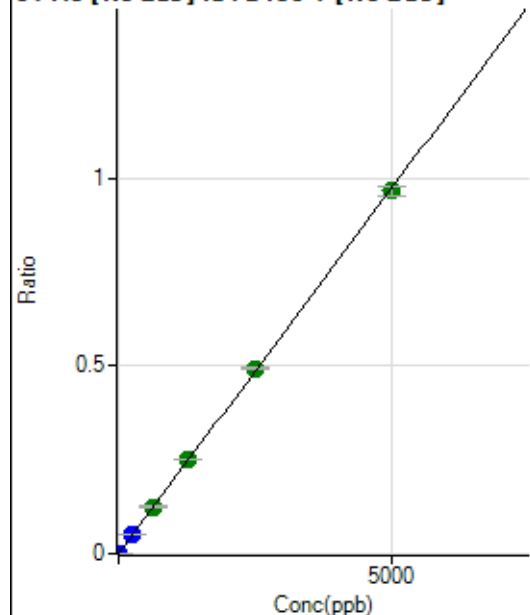
$$R = 0.9999$$

$$DL = 0.03304$$

$$BEC = 0.06332$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	341.68	0.0000	P	7.2
2	☐	5.000	5.185	16938.48	0.0010	P	2.0
3	☐	250.000	256.359	828798.44	0.0499	P	0.9
4	☐	625.000	643.567	2124279.47	0.1253	A	0.7
5	☐	1250.000	1294.836	4217839.89	0.2521	A	0.9
6	☐	2500.000	2537.434	8315464.08	0.4939	A	1.6
7	☐	5000.000	4967.435	16634241.69	0.9669	A	2.4
8	☐			5734.66	0.0003	P	5.4

$$y = 1.9464E-004 * x + 2.0662E-005$$

$$R = 0.9999$$

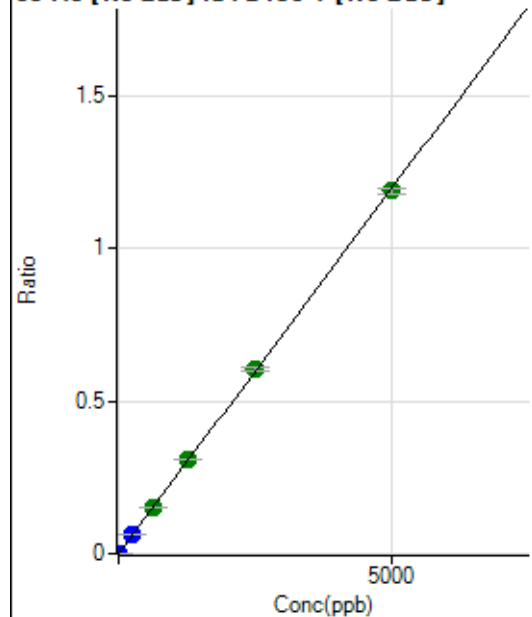
$$DL = 0.0229$$

$$BEC = 0.1062$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	47.22	0.0000	P	62.9
2	☐	5.000	5.139	20248.58	0.0012	P	2.7
3	☐	250.000	255.325	1013015.44	0.0610	P	2.0
4	☐	625.000	640.158	2593920.07	0.1530	A	1.6
5	☐	1250.000	1298.930	5194918.08	0.3104	A	0.3
6	☐	2500.000	2530.569	10180333.74	0.6048	A	2.7
7	☐	5000.000	4970.322	20437504.45	1.1878	A	1.6
8	☐			6404.42	0.0004	P	2.1

$$y = 2.3898\text{E-}004 * x + 2.8657\text{E-}006$$

R = 0.9999

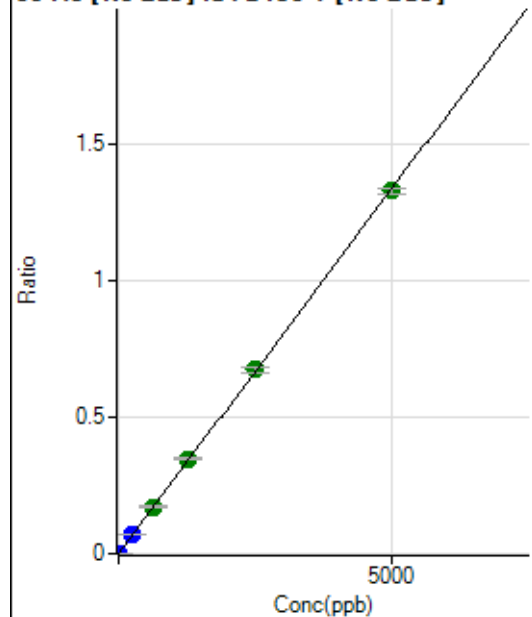
DL = 0.02264

BEC = 0.01199

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	133.34	0.0000	P	25.6
2	☐	5.000	5.090	22465.85	0.0014	P	3.4
3	☐	250.000	253.262	1122009.32	0.0676	P	2.0
4	☐	625.000	642.859	2908473.87	0.1715	A	1.6
5	☐	1250.000	1303.415	5819977.26	0.3478	A	1.3
6	☐	2500.000	2519.049	11315592.96	0.6722	A	2.3
7	☐	5000.000	4974.726	22839774.99	1.3274	A	1.4
8	☐			16524.13	0.0010	P	4.7

$$y = 2.6683\text{E-}004 * x + 8.0808\text{E-}006$$

R = 0.9999

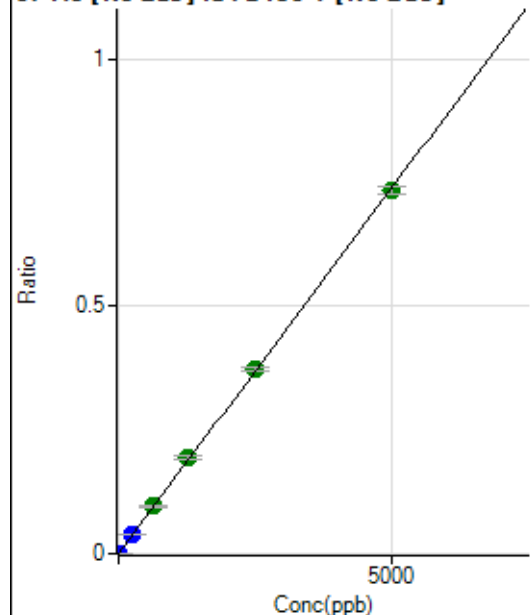
DL = 0.0233

BEC = 0.03028

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0000	P	46.1
2	☐	5.000	5.229	12728.38	0.0008	P	1.7
3	☐	250.000	255.598	626694.46	0.0377	P	2.1
4	☐	625.000	646.329	1618387.73	0.0955	A	1.9
5	☐	1250.000	1314.912	3249305.04	0.1942	A	2.3
6	☐	2500.000	2531.301	6293448.58	0.3738	A	2.1
7	☐	5000.000	4965.175	12615648.63	0.7333	A	2.2
8	☐			4022.92	0.0002	P	5.7

$$y = 1.4768\text{E-}004 * x + 1.6841\text{E-}006$$

$$R = 0.9999$$

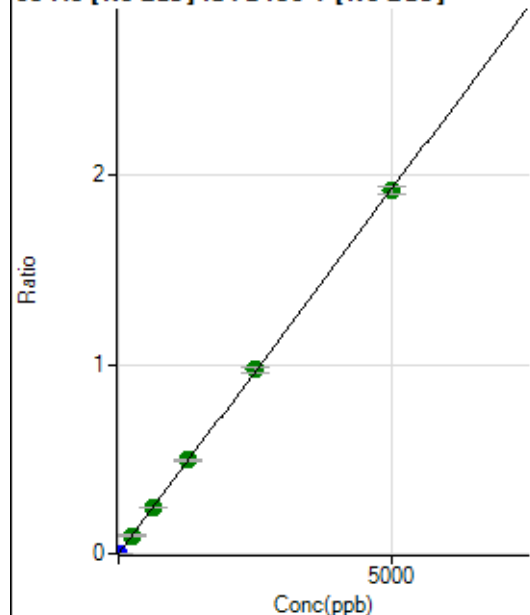
$$DL = 0.01576$$

$$BEC = 0.0114$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	86.12	0.0000	P	25.9
2	☐	5.000	5.136	32591.54	0.0020	P	2.3
3	☐	250.000	250.112	1598033.34	0.0963	A	2.2
4	☐	625.000	633.218	4132022.58	0.2437	A	0.9
5	☐	1250.000	1285.544	8278805.65	0.4948	A	1.4
6	☐	2500.000	2524.208	16353141.34	0.9715	A	2.6
7	☐	5000.000	4977.977	32959446.92	1.9158	A	2.1
8	☐			9531.32	0.0006	P	5.0

$$y = 3.8485\text{E-}004 * x + 5.2253\text{E-}006$$

$$R = 1.0000$$

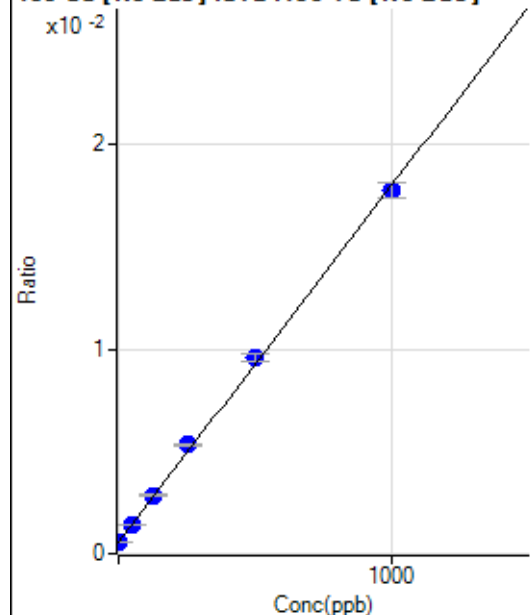
$$DL = 0.01057$$

$$BEC = 0.01358$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6490.62	0.0006	P	7.7
2	☐	1.000	-0.127	6485.02	0.0006	P	6.5
3	☐	50.000	50.911	16952.49	0.0014	P	0.1
4	☐	125.000	132.102	33285.28	0.0029	P	1.4
5	☐	250.000	273.209	62659.49	0.0053	P	1.9
6	☐	500.000	516.377	113434.58	0.0096	P	3.6
7	☐	1000.000	985.077	217503.79	0.0177	P	4.1
8	☐			6290.50	0.0005	P	3.0

$$y = 1.7432\text{E-}005 * x + 5.5640\text{E-}004$$

R = 0.9995

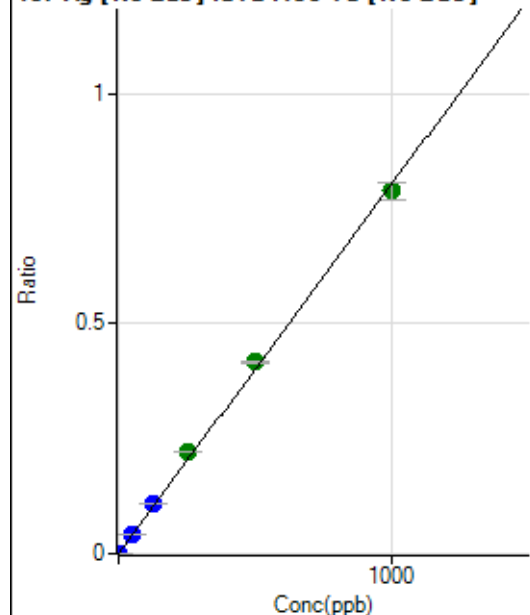
DL = 7.404

BEC = 31.92

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	52.78	0.0000	P	17.6
2	☐	1.000	1.016	9598.07	0.0008	P	2.4
3	☐	50.000	52.358	493371.97	0.0420	P	1.4
4	☐	125.000	137.488	1284526.38	0.1103	P	0.2
5	☐	250.000	276.532	2614660.54	0.2219	A	0.7
6	☐	500.000	518.346	4938682.57	0.4160	A	1.9
7	☐	1000.000	982.515	9672879.38	0.7885	A	4.9
8	☐			3829.69	0.0003	P	19.6

$$y = 8.0255\text{E-}004 * x + 4.5208\text{E-}006$$

R = 0.9993

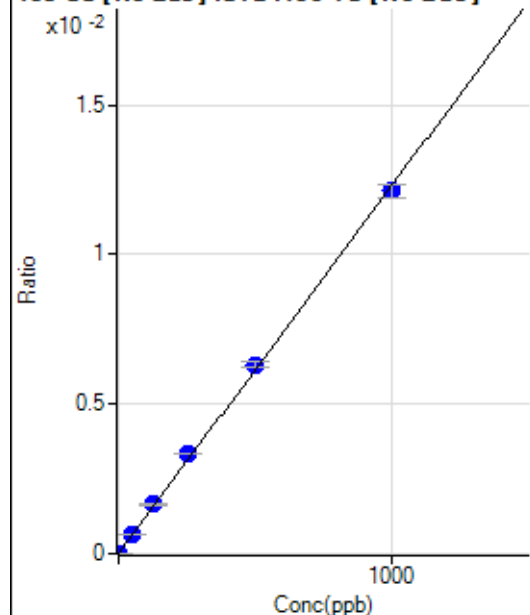
DL = 0.00298

BEC = 0.005633

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	51.39	0.0000	P	44.8
2	☐	1.000	0.811	168.06	0.0000	P	2.7
3	☐	50.000	51.104	7420.12	0.0006	P	2.9
4	☐	125.000	133.100	19084.25	0.0016	P	1.4
5	☐	250.000	271.062	39278.16	0.0033	P	1.1
6	☐	500.000	513.679	74953.74	0.0063	P	2.6
7	☐	1000.000	986.827	148772.82	0.0121	P	4.0
8	☐			187.50	0.0000	P	12.0

$$y = 1.2284\text{E-}005 * x + 4.4076\text{E-}006$$

$$R = 0.9996$$

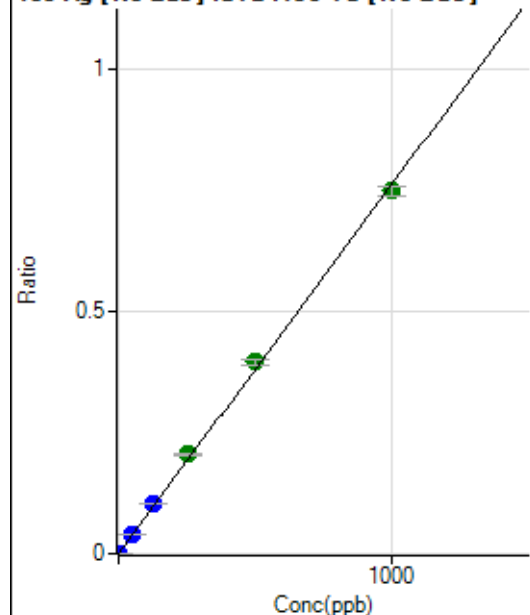
$$DL = 0.4823$$

$$BEC = 0.3588$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	38.89	0.0000	P	54.5
2	☐	1.000	1.004	8983.71	0.0008	P	1.6
3	☐	50.000	52.620	470159.77	0.0400	P	2.0
4	☐	125.000	136.153	1206244.47	0.1036	P	1.0
5	☐	250.000	269.230	2413922.62	0.2049	A	0.8
6	☐	500.000	519.872	4696205.23	0.3956	A	2.7
7	☐	1000.000	983.732	9187639.79	0.7487	A	2.6
8	☐			3117.12	0.0003	P	3.1

$$y = 7.6104\text{E-}004 * x + 3.3428\text{E-}006$$

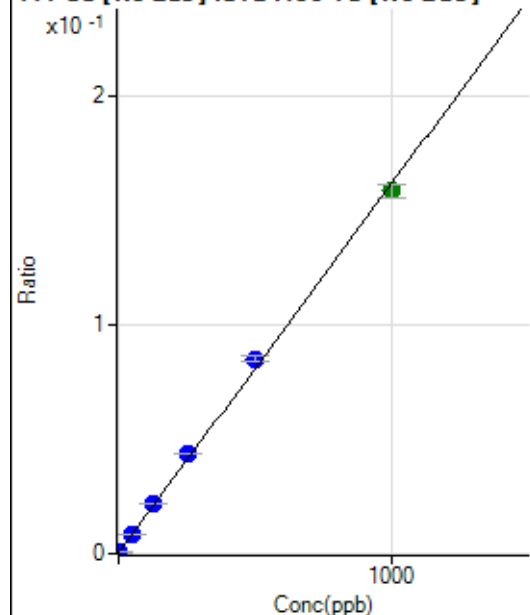
$$R = 0.9995$$

$$DL = 0.007179$$

$$BEC = 0.004392$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4517.18	0.0004	P	7.5
2	☐	1.000	0.975	6367.87	0.0005	P	4.9
3	☐	50.000	51.852	102566.20	0.0087	P	0.9
4	☐	125.000	134.356	256343.87	0.0220	P	0.6
5	☐	250.000	269.173	515198.06	0.0437	P	0.2
6	☐	500.000	526.032	1009927.93	0.0851	P	3.3
7	☐	1000.000	980.929	1942684.74	0.1583	A	4.0
8	☐			4777.67	0.0004	P	3.5

$$y = 1.6102\text{E-}004 * x + 3.8723\text{E-}004$$

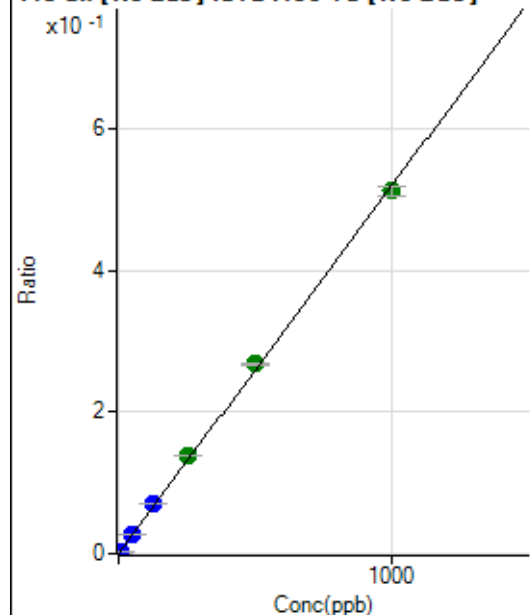
$$R = 0.9993$$

$$DL = 0.5391$$

$$BEC = 2.405$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	966.73	0.0001	P	10.4
2	☐	5.000	5.136	32182.84	0.0027	P	1.0
3	☐	50.000	51.106	312513.17	0.0266	P	2.4
4	☐	125.000	134.724	815369.82	0.0700	P	0.7
5	☐	250.000	266.090	1628879.58	0.1383	A	0.9
6	☐	500.000	515.478	3179137.59	0.2678	A	1.4
7	☐	1000.000	986.967	6291415.20	0.5126	A	2.4
8	☐			4172.98	0.0003	P	1.5

$$y = 5.1931\text{E-}004 * x + 8.2866\text{E-}005$$

$$R = 0.9996$$

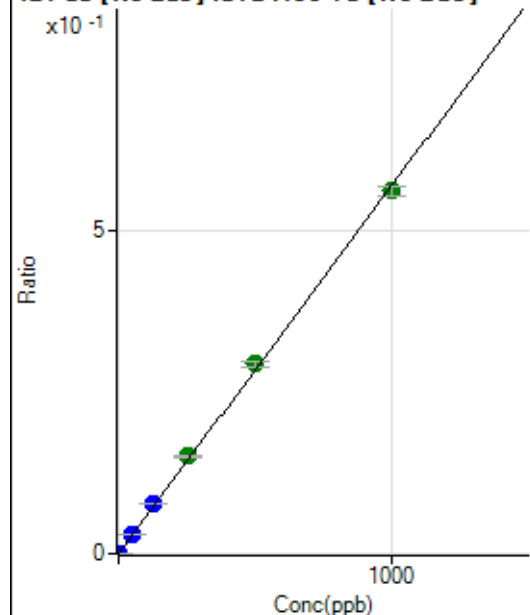
$$DL = 0.04993$$

$$BEC = 0.1596$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	52.78	0.0000	P	18.3
2	☐	2.000	2.103	14057.55	0.0012	P	0.6
3	☐	50.000	50.517	337481.68	0.0287	P	1.3
4	☐	125.000	133.980	887414.21	0.0762	P	0.3
5	☐	250.000	265.347	1778625.43	0.1510	A	1.8
6	☐	500.000	516.617	3489018.26	0.2939	A	2.7
7	☐	1000.000	986.706	6890928.19	0.5614	A	2.4
8	☐			6532.30	0.0005	P	2.4

$$y = 5.6896E-004 * x + 4.5250E-006$$

$$R = 0.9996$$

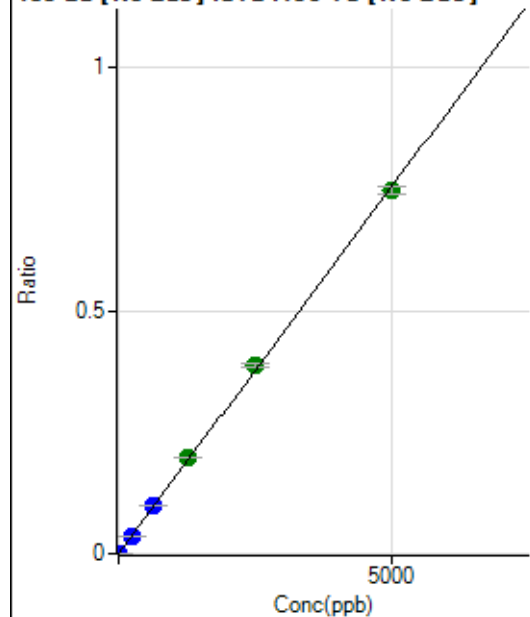
$$DL = 0.004369$$

$$BEC = 0.007953$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0000	P	62.6
2	☐	10.000	10.141	17948.51	0.0015	P	3.1
3	☐	250.000	247.268	438377.86	0.0373	P	0.8
4	☐	625.000	652.040	1146194.37	0.0985	P	0.1
5	☐	1250.000	1307.514	2326012.53	0.1974	A	1.1
6	☐	2500.000	2572.112	4610407.91	0.3884	A	2.5
7	☐	5000.000	4946.322	9168191.35	0.7469	A	2.3
8	☐			3872.88	0.0003	P	2.3

$$y = 1.5100E-004 * x + 2.3861E-006$$

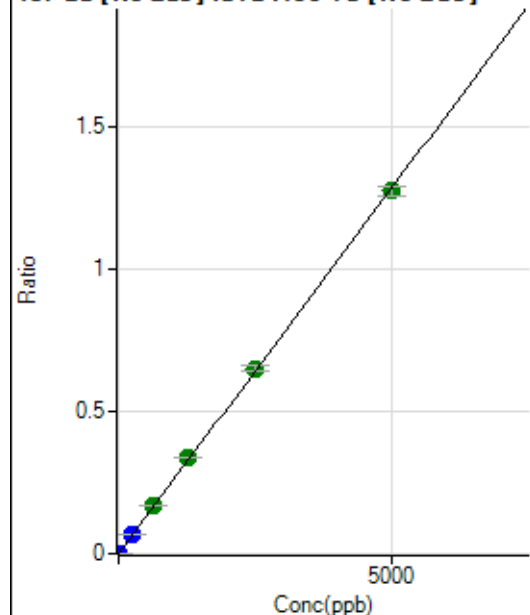
$$R = 0.9998$$

$$DL = 0.02965$$

$$BEC = 0.0158$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	61.11	0.0000	P	7.8
2	☐	10.000	10.525	31712.91	0.0027	P	1.5
3	☐	250.000	253.165	763917.42	0.0651	P	1.2
4	☐	625.000	651.376	1948750.26	0.1674	A	1.3
5	☐	1250.000	1305.857	3953963.80	0.3356	A	0.4
6	☐	2500.000	2533.729	7730595.74	0.6512	A	2.9
7	☐	5000.000	4965.715	15663300.18	1.2762	A	2.3
8	☐			6429.46	0.0005	P	10.2

$$y = 2.5701E-004 * x + 5.2390E-006$$

$$R = 0.9999$$

$$DL = 0.004787$$

$$BEC = 0.02038$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			4.45		P	86.6
3	☐			42.22		P	36.5
4	☐			77.78		P	50.2
5	☐			193.34		P	0.0
6	☐			297.79		P	11.5
7	☐			597.80		P	19.0
8	☐			80.00		P	41.7

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	86.6
2	☐			0.00		P	
3	☐			2.22		P	86.6
4	☐			3.33		P	0.0
5	☐			12.22		P	41.7
6	☐			24.44		P	7.9
7	☐			32.22		P	48.9
8	☐			16.66		P	34.6

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			8.33		P	0.0
2	☐			11.11		P	86.6
3	☐			38.89		P	32.7
4	☐			80.56		P	21.5
5	☐			147.23		P	11.8
6	☐			266.68		P	13.6
7	☐			525.03		P	13.0
8	☐			1969.65		P	5.2

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	86.6
2	☐			3.33		P	0.0
3	☐			14.45		P	48.0
4	☐			18.89		P	10.2
5	☐			61.11		P	25.8
6	☐			105.56		P	35.2
7	☐			204.45		P	12.5
8	☐			945.60		P	3.8

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			80.56		P	48.9
2	☐			80.56		P	36.3
3	☐			105.56		P	9.1
4	☐			197.23		P	12.9
5	☐			211.12		P	25.7
6	☐			344.46		P	17.0
7	☐			544.47		P	3.9
8	☐			2214.14		P	7.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			30.00		P	22.2
2	☐			43.34		P	13.3
3	☐			44.45		P	45.8
4	☐			60.00		P	25.5
5	☐			71.11		P	23.6
6	☐			158.89		P	13.5
7	☐			201.12		P	15.0
8	☐			1032.28		P	9.7

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			102.78		P	56.9
2	☐			52.78		P	9.1
3	☐			88.89		P	14.3
4	☐			77.78		P	6.2
5	☐			88.89		P	44.3
6	☐			125.00		P	6.7
7	☐			188.90		P	26.6
8	☐			338.90		P	2.8

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			24.44		P	47.9
2	☐			40.00		P	30.0
3	☐			36.67		P	45.5
4	☐			34.44		P	36.6
5	☐			45.55		P	15.2
6	☐			30.00		P	40.1
7	☐			60.00		P	5.5
8	☐			115.56		P	10.1

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			25.00		P	66.7
2	☐			38.89		P	75.3
3	☐			72.23		P	26.7
4	☐			38.89		P	32.7
5	☐			13.89		P	91.6
6	☐			38.89		P	44.6
7	☐			50.00		P	16.7
8	☐			100.00		P	14.4

172 Yb [He] No available calibration points

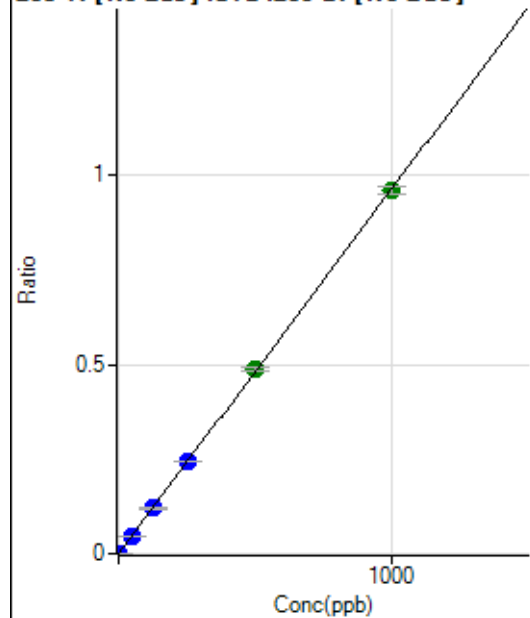
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			9.26		P	34.6
2	☐			16.67		P	57.7
3	☐			12.97		P	49.5
4	☐			24.08		P	26.6
5	☐			11.11		P	86.6
6	☐			22.22		P	25.0
7	☐			16.67		P	33.3
8	☐			53.71		P	21.5

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2066.88		P	8.8
2	☐			2289.15		P	3.9
3	☐			2036.33		P	8.0
4	☐			2069.67		P	11.3
5	☐			2041.88		P	4.5
6	☐			1950.20		P	4.6
7	☐			2228.03		P	4.2
8	☐			1966.88		P	5.8

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1959.44		P	13.1
2	☐			1485.30		P	3.6
3	☐			1463.08		P	4.3
4	☐			1366.77		P	3.6
5	☐			1277.87		P	18.3
6	☐			1274.16		P	6.9
7	☐			1253.78		P	6.1
8	☐			1248.24		P	4.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	575.03	0.0001	P	9.3
2	☐	1.000	0.956	6335.06	0.0010	P	2.0
3	☐	50.000	47.691	292958.20	0.0460	P	1.2
4	☐	125.000	124.665	760174.61	0.1201	P	1.3
5	☐	250.000	253.367	1543026.28	0.2439	P	0.5
6	☐	500.000	507.494	3083282.21	0.4885	A	2.2
7	☐	1000.000	995.569	6146390.67	0.9582	A	2.1
8	☐			1697.39	0.0003	P	5.7

$$y = 9.6238E-004 * x + 9.2515E-005$$

$$R = 0.9999$$

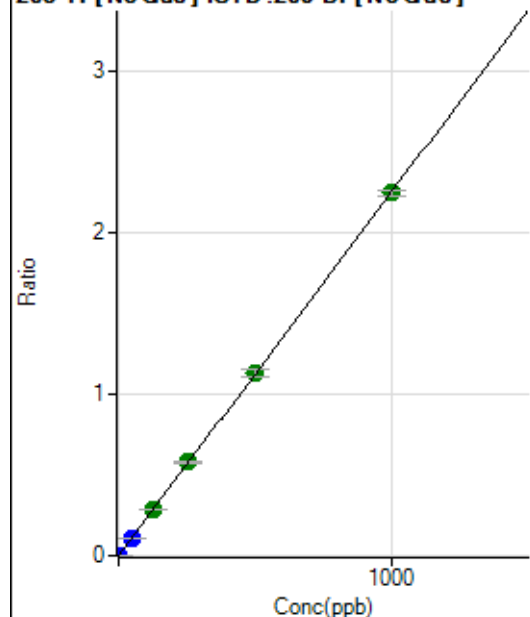
$$DL = 0.0267$$

$$BEC = 0.09613$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1263.98	0.0002	P	4.0
2	☐	1.000	1.006	15415.12	0.0025	P	1.0
3	☐	50.000	48.145	690759.15	0.1084	P	2.1
4	☐	125.000	126.345	1799615.80	0.2842	A	1.7
5	☐	250.000	256.491	3648798.13	0.5768	A	1.9
6	☐	500.000	500.743	7106407.28	1.1259	A	4.0
7	☐	1000.000	997.930	14388618.72	2.2436	A	1.6
8	☐			4059.10	0.0007	P	8.0

$$y = 0.0022 * x + 2.0324E-004$$

$$R = 1.0000$$

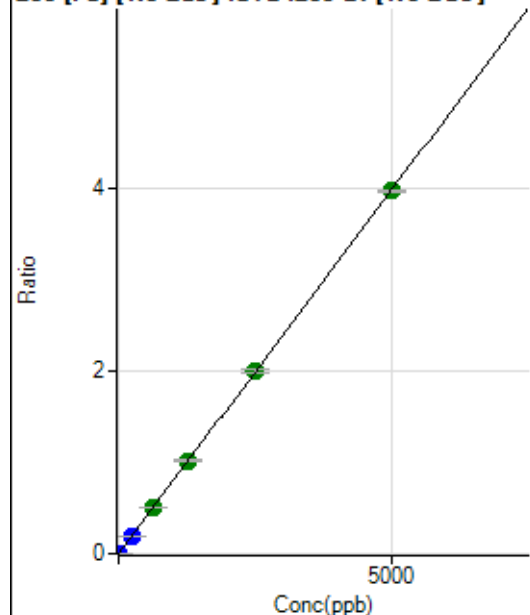
$$DL = 0.01072$$

$$BEC = 0.09041$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	340.75	0.0001	P	2.0
2	☐	1.000	0.958	5104.80	0.0008	P	1.5
3	☐	250.000	232.408	1176459.37	0.1847	P	0.5
4	☐	625.000	634.975	3194053.05	0.5045	A	0.9
5	☐	1250.000	1280.650	6435883.71	1.0174	A	2.1
6	☐	2500.000	2505.846	12565455.49	1.9907	A	2.3
7	☐	5000.000	4989.047	25421199.64	3.9634	A	0.6
8	☐			23354.59	0.0040	P	2.0

$$y = 7.9441E-004 * x + 5.4770E-005$$

$$R = 1.0000$$

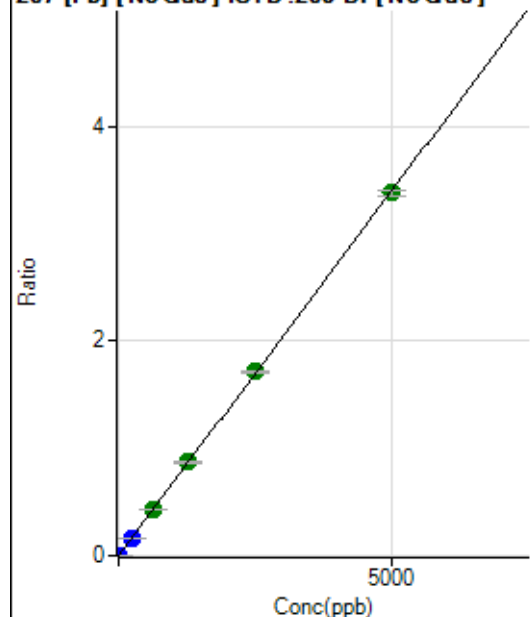
$$DL = 0.004139$$

$$BEC = 0.06894$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	285.19	0.0000	P	15.2
2	☐	1.000	0.994	4508.28	0.0007	P	4.2
3	☐	250.000	238.426	1031380.84	0.1619	P	0.6
4	☐	625.000	630.987	2712424.42	0.4284	A	0.2
5	☐	1250.000	1284.153	5514936.29	0.8718	A	2.1
6	☐	2500.000	2529.650	10840366.33	1.7174	A	1.1
7	☐	5000.000	4976.467	21666906.73	3.3785	A	1.3
8	☐			20586.92	0.0035	P	2.1

$$y = 6.7888\text{E-}004 * x + 4.5875\text{E-}005$$

$$R = 0.9999$$

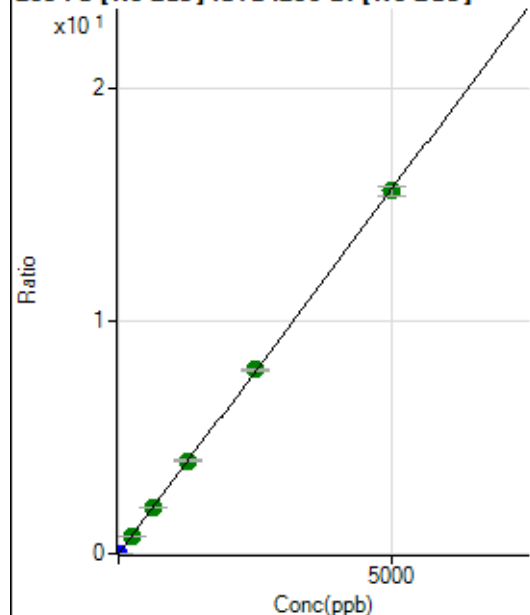
$$DL = 0.03078$$

$$BEC = 0.06758$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1372.28	0.0002	P	2.8
2	☐	1.000	0.976	20488.18	0.0033	P	2.6
3	☐	250.000	239.577	4780250.49	0.7504	A	0.6
4	☐	625.000	629.192	12475430.11	1.9704	A	0.9
5	☐	1250.000	1275.971	25275670.88	3.9957	A	1.1
6	☐	2500.000	2524.497	49900497.87	7.9052	A	0.9
7	☐	5000.000	4981.256	100017869.6	15.5981	A	2.4
8	☐			93267.15	0.0159	P	1.4

$$y = 0.0031 * x + 2.2054\text{E-}004$$

$$R = 1.0000$$

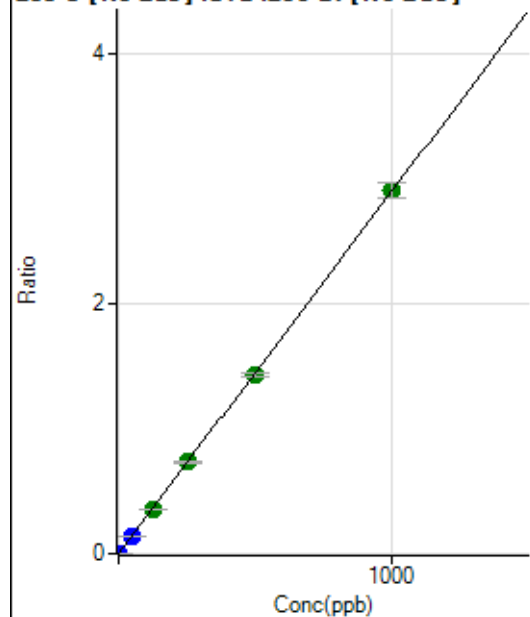
$$DL = 0.005977$$

$$BEC = 0.07043$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.44	0.0000	P	97.8
2	☐	1.000	0.926	16767.07	0.0027	P	2.0
3	☐	50.000	46.273	852888.49	0.1339	P	1.9
4	☐	125.000	121.397	2223870.62	0.3512	A	0.6
5	☐	250.000	253.025	4631050.49	0.7321	A	2.0
6	☐	500.000	494.462	9030226.68	1.4307	A	1.9
7	☐	1000.000	1002.650	18596112.22	2.9010	A	4.4
8	☐			3081.04	0.0005	P	2.7

$$y = 0.0029 * x + 3.0987E-006$$

$$R = 1.0000$$

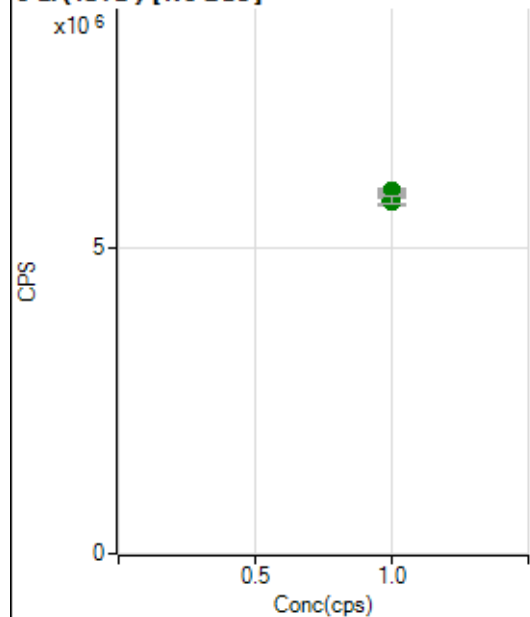
$$DL = 0.003142$$

$$BEC = 0.001071$$

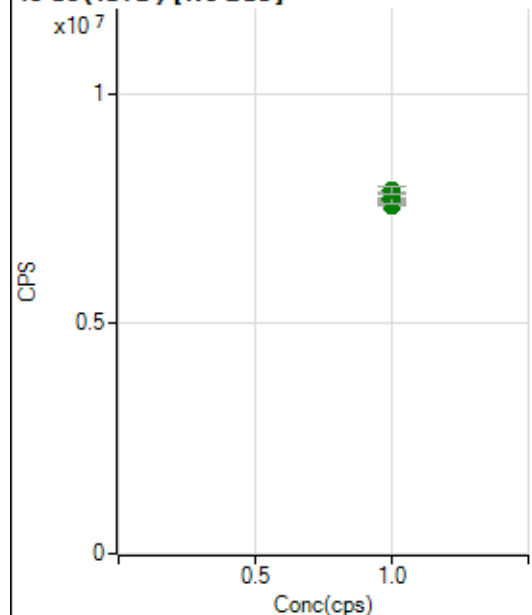
Weight: <None>

Min Conc: 0

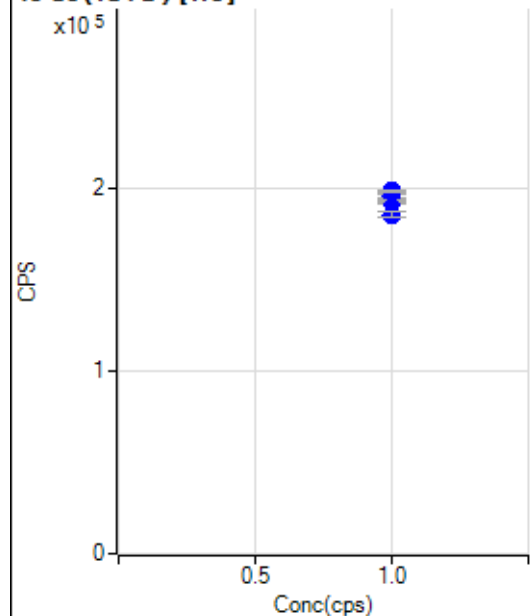
6 Li (ISTD) [No Gas]



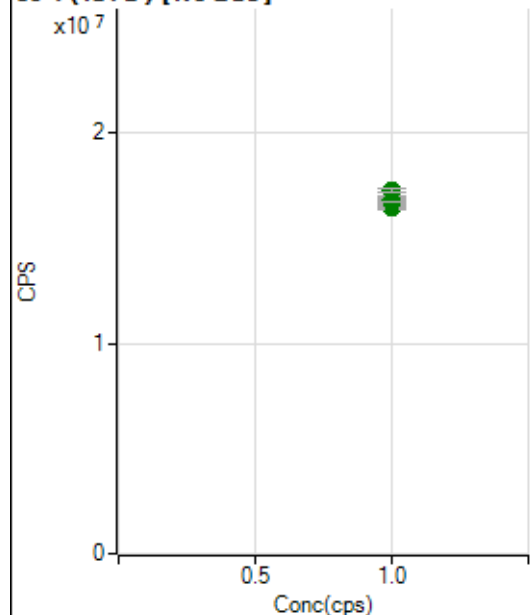
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5884545.27		A	0.9
2	☐	1.000		5895256.04		A	2.4
3	☐	1.000		5905121.90		A	0.6
4	☐	1.000		5932431.11		A	0.8
5	☐	1.000		5866180.24		A	0.7
6	☐	1.000		5757172.75		A	2.4
7	☐	1.000		5767977.46		A	1.8
8	☐	1.000		5778239.79		A	2.2

45 Sc (ISTD) [No Gas]

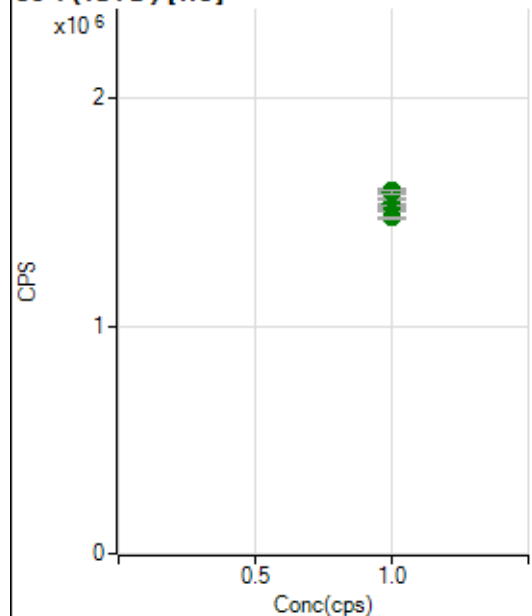
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7608511.55		A	0.8
2	☐	1.000		7584572.87		A	0.9
3	☐	1.000		7682132.94		A	0.4
4	☐	1.000		7712742.66		A	1.0
5	☐	1.000		7706890.16		A	1.1
6	☐	1.000		7687732.80		A	0.8
7	☐	1.000		7732802.80		A	2.9
8	☐	1.000		7884555.58		A	2.0

45 Sc (ISTD) [He]

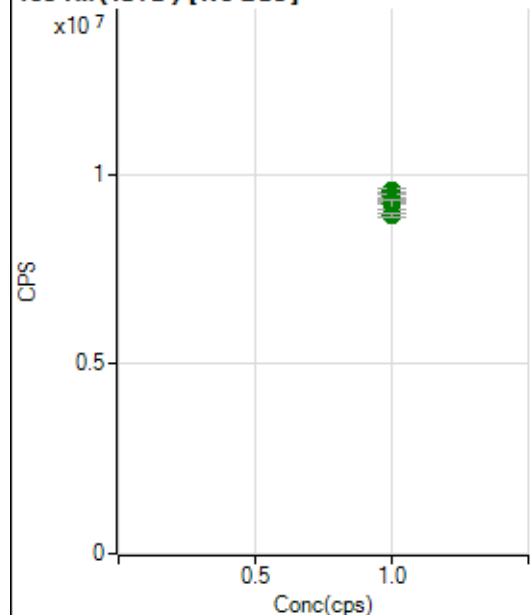
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		185589.35		P	1.8
2	☐	1.000		193067.93		P	1.4
3	☐	1.000		193195.06		P	0.8
4	☐	1.000		194333.65		P	0.9
5	☐	1.000		193851.96		P	0.8
6	☐	1.000		195659.57		P	1.7
7	☐	1.000		198349.10		P	0.2
8	☐	1.000		198815.89		P	0.5

89 Y (ISTD) [No Gas]

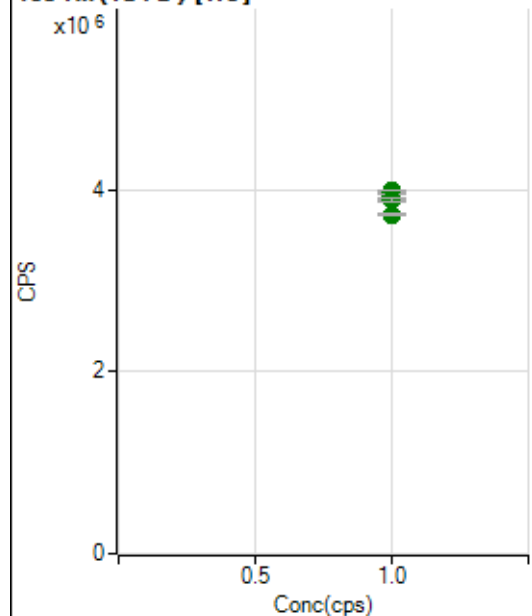
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		16526646.97		A	1.6
2	☐	1.000		16446352.67		A	1.2
3	☐	1.000		16604024.75		A	1.3
4	☐	1.000		16955705.86		A	0.5
5	☐	1.000		16735310.44		A	1.3
6	☐	1.000		16838203.08		A	1.6
7	☐	1.000		17209083.22		A	2.2
8	☐	1.000		17255874.74		A	1.1

89 Y (ISTD) [He]

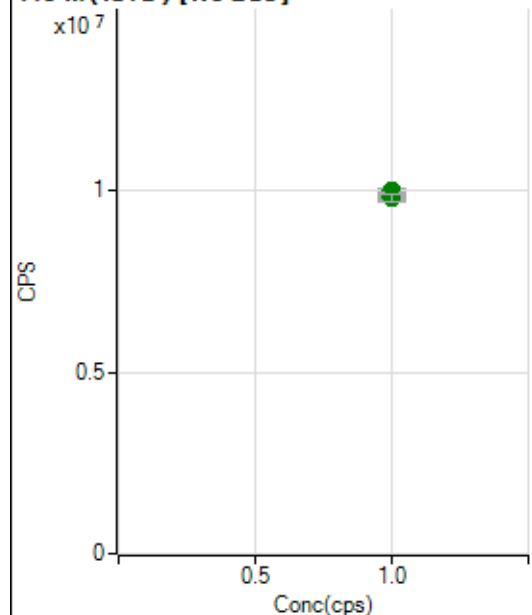
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1474919.46		A	0.7
2	☐	1.000		1524131.37		A	1.6
3	☐	1.000		1516892.03		A	1.5
4	☐	1.000		1529193.01		A	1.0
5	☐	1.000		1540283.85		A	1.7
6	☐	1.000		1559231.09		A	0.5
7	☐	1.000		1593423.94		A	1.1
8	☐	1.000		1588875.24		A	1.1

103 Rh (ISTD) [No Gas]

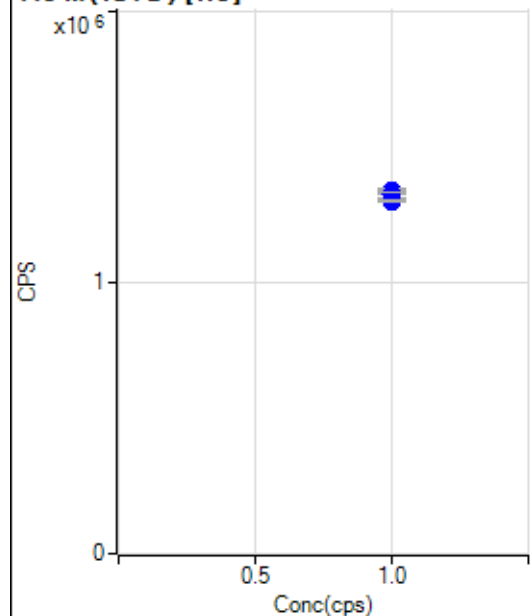
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9503679.55		A	0.6
2	☐	1.000		9416463.66		A	1.4
3	☐	1.000		9555146.57		A	1.5
4	☐	1.000		9531064.80		A	1.5
5	☐	1.000		9416235.19		A	1.2
6	☐	1.000		9245095.09		A	0.8
7	☐	1.000		9201084.84		A	2.4
8	☐	1.000		8908263.05		A	1.0

103 Rh (ISTD) [He]

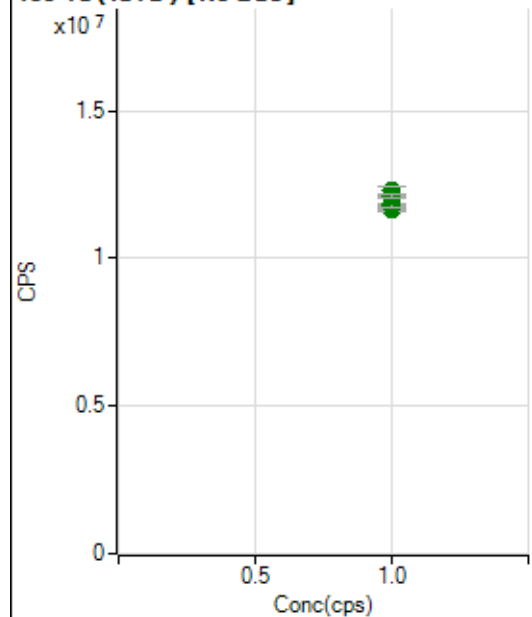
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3887600.53		A	1.0
2	☐	1.000		3976117.96		A	0.8
3	☐	1.000		3956468.17		A	1.7
4	☐	1.000		3991870.53		A	0.5
5	☐	1.000		3941316.68		A	2.5
6	☐	1.000		3983019.98		A	1.3
7	☐	1.000		3898866.47		A	0.9
8	☐	1.000		3728068.32		A	0.6

115 In (ISTD) [No Gas]

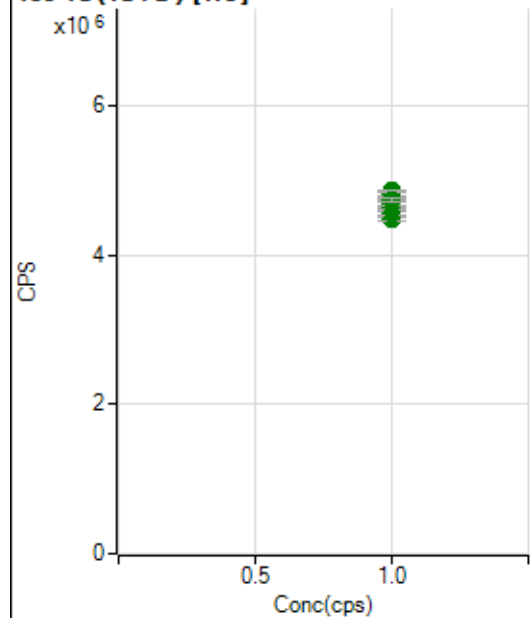
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9782746.80		A	1.7
2	☐	1.000		9896274.67		A	1.8
3	☐	1.000		9999975.43		A	1.2
4	☐	1.000		9966788.23		A	0.5
5	☐	1.000		9868257.34		A	1.0
6	☐	1.000		9877062.66		A	1.1
7	☐	1.000		9880975.56		A	2.2
8	☐	1.000		9809616.71		A	1.7

115 In (ISTD) [He]

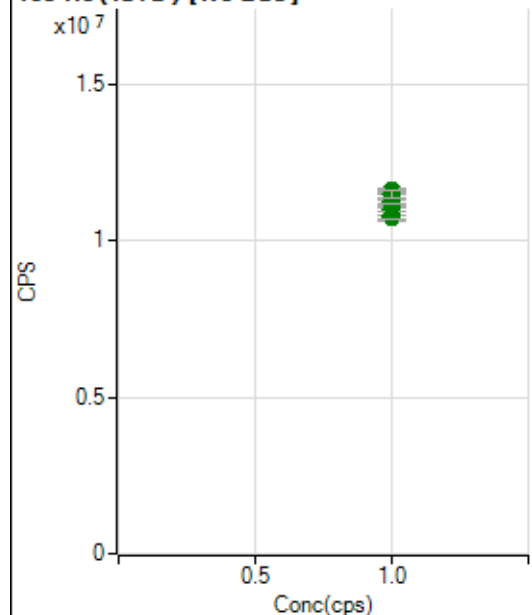
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1295825.31		P	0.3
2	☐	1.000		1335992.37		P	0.9
3	☐	1.000		1325866.24		P	0.7
4	☐	1.000		1333187.26		P	0.3
5	☐	1.000		1330143.01		P	1.1
6	☐	1.000		1333211.81		P	1.5
7	☐	1.000		1321104.41		P	1.3
8	☐	1.000		1299300.53		P	0.8

159 Tb (ISTD) [No Gas]

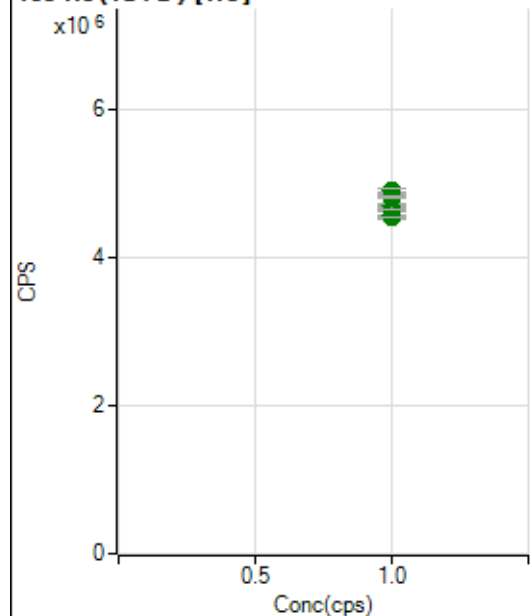
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		11664942.33		A	0.7
2	☐	1.000		11702857.18		A	1.2
3	☐	1.000		11740736.07		A	1.3
4	☐	1.000		11640832.05		A	0.6
5	☐	1.000		11781249.96		A	0.7
6	☐	1.000		11875321.21		A	2.6
7	☐	1.000		12277916.48		A	2.8
8	☐	1.000		12115540.10		A	1.1

159 Tb (ISTD) [He]

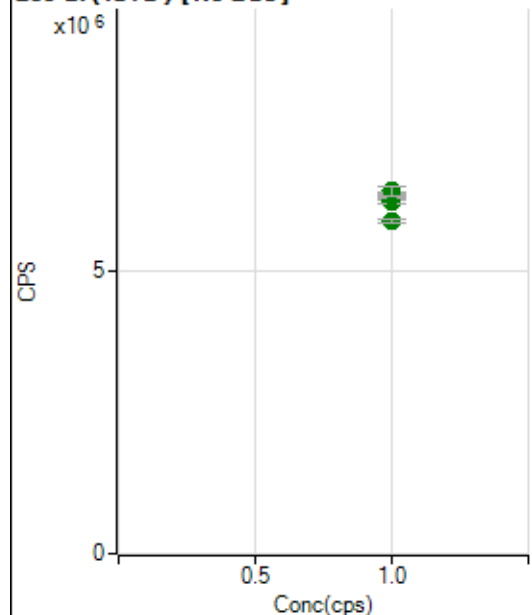
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4489067.36		A	1.0
2	☐	1.000		4561118.79		A	1.3
3	☐	1.000		4614209.93		A	1.3
4	☐	1.000		4635676.32		A	0.8
5	☐	1.000		4690093.57		A	1.6
6	☐	1.000		4822109.75		A	1.7
7	☐	1.000		4858460.86		A	0.7
8	☐	1.000		4742022.85		A	0.8

165 Ho (ISTD) [No Gas]

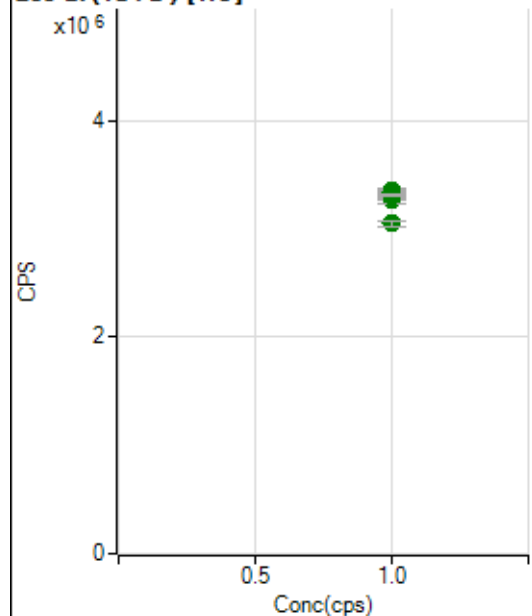
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10725722.55		A	1.6
2	☐	1.000		10812960.14		A	2.1
3	☐	1.000		10974086.53		A	1.3
4	☐	1.000		11130395.21		A	0.3
5	☐	1.000		11248671.35		A	1.2
6	☐	1.000		11339610.93		A	2.3
7	☐	1.000		11588378.64		A	1.2
8	☐	1.000		11475649.39		A	2.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4541029.45		A	1.6
2	☐	1.000		4646342.26		A	1.4
3	☐	1.000		4572228.02		A	1.4
4	☐	1.000		4676173.92		A	0.4
5	☐	1.000		4685378.92		A	1.7
6	☐	1.000		4837966.77		A	2.0
7	☐	1.000		4893135.28		A	1.7
8	☐	1.000		4807439.34		A	0.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6221518.52		A	1.6
2	☐	1.000		6255571.71		A	2.0
3	☐	1.000		6370148.86		A	0.2
4	☐	1.000		6331398.38		A	0.3
5	☐	1.000		6325756.50		A	0.1
6	☐	1.000		6312577.06		A	0.9
7	☐	1.000		6414593.24		A	2.4
8	☐	1.000		5876777.62		A	1.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3264540.89		A	1.5
2	☐	1.000		3351888.59		A	1.0
3	☐	1.000		3337781.82		A	2.2
4	☐	1.000		3315619.67		A	2.5
5	☐	1.000		3310067.59		A	0.9
6	☐	1.000		3334535.99		A	1.4
7	☐	1.000		3317663.07		A	0.4
8	☐	1.000		3047419.95		A	1.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8070921 MS.b
Acq. Date-Time 2021-07-09 12:03:51
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		18886	188860.32			0.568	5.000
24		142826	1428258.81			1.025	5.000
25		20223	202226.94			0.290	5.000
26		23708	237080.33			0.432	5.000
59		27160	271597.68			0.433	5.000
113		12744	127437.22			0.487	5.000
115		40348	403477.53			1.856	5.000
206		14726	147264.21			0.380	5.000
207		12157	121570.76			0.779	5.000
208		30120	301200.44			0.507	5.000
220		1	5.30			23.679	

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

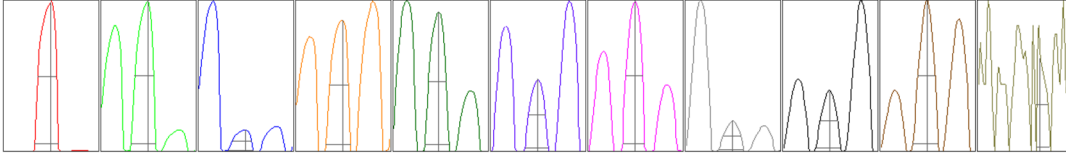
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	18994	18989	18776	18778	18894
24	141605	142279	141926	145260	143058
25	20300	20263	20202	20196	20152
26	23706	23736	23685	23564	23849
59	26958	27226	27174	27258	27182
113	12791	12780	12713	12786	12648
115	40978	41255	40146	39891	39469
206	14634	14770	14741	14768	14719
207	12051	12243	12211	12224	12058
208	29936	30302	30043	30254	30066

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	32748.14	9.00	8.90 - 9.10	
24	254488.76	24.00	23.90 - 24.10	
25	35109.14	25.00	24.90 - 25.10	
26	40331.37	26.00	25.90 - 26.10	
59	50741.08	58.95	58.90 - 59.10	
113	25281.12	113.00	112.90 - 113.10	
115	79402.52	115.00	114.90 - 115.10	
206	27929.28	206.00	205.90 - 206.10	
207	23267.78	207.00	206.90 - 207.10	
208	57707.60	208.00	207.90 - 208.10	
220	0.55	220.50	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.739	0.900	
24	0.60	0.779	0.900	
25	0.60	0.779	0.900	
26	0.61	0.778	0.900	
59	0.56	0.773	0.900	
113	0.53	0.732	0.900	
115	0.53	0.693	0.900	
206	0.56	0.788	0.900	
207	0.55	0.791	0.900	
208	0.55	0.809	0.900	
220	0.36	0.441		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.75 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 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	9.5 V	Deflect	16.0 V
Extract 2	-150.0 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	160 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9995	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.05		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.8 mm
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EM

Discriminator	4.0 mV	Analog HV	2207 V	Pulse HV	1535 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		5118	51176.88			2.069	
89		23045	230447.70			2.416	
205		38411	384114.44			2.540	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	5172	5157	5127	5199	4934
89	23201	23151	23193	23581	22098
205	39019	38686	38535	39100	36717

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 L/min	Dilution Gas	0.40 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	9.5 V	Deflect	5.2 V
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Extract 2	-150.0 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	200 V		
QP Parameters					
Mass Gain	123	Axis Gain	0.9995	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.05		
Hardware Settings					
Torch					
Torch H	1.0 mm	Torch V	-0.8 mm		
EM					
Discriminator	4.0 mV	Analog HV	2207 V	Pulse HV	1535 V