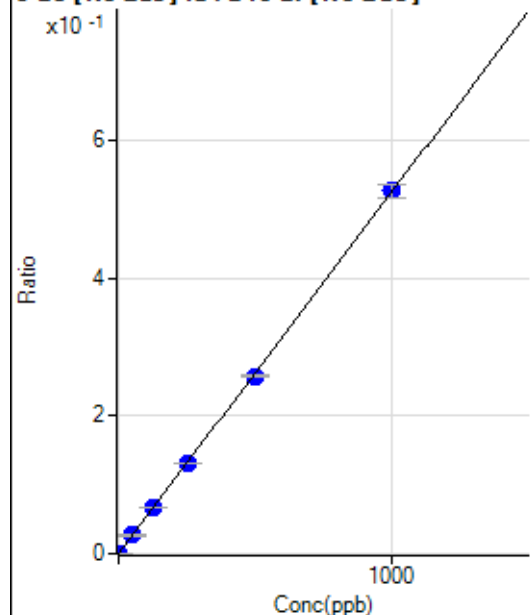


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8120320 MS.b\
Analysis File: P8120320 MS.batch.bin
DA Date-Time: 2020-12-04 01:54:28
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-12-03 14:12:06
2	004CALS.d	S02	2020-12-03 14:15:18
3	005CALS.d	S03	2020-12-03 14:18:27
4	006CALS.d	S04	2020-12-03 14:21:38
5	007CALS.d	S05	2020-12-03 14:24:42
6	008CALS.d	S06	2020-12-03 14:27:43
7	009CALS.d	S07	2020-12-03 14:30:41
8	010CALS.d	S08	2020-12-03 14:33:42

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	97.33	0.0001	P	21.1
2	☐	1.000	0.904	637.10	0.0006	P	4.8
3	☐	50.000	51.029	30094.39	0.0269	P	3.0
4	☐	125.000	126.523	77508.11	0.0665	P	1.9
5	☐	250.000	250.303	155753.85	0.1314	P	0.6
6	☐	500.000	491.717	305631.18	0.2581	P	1.1
7	☐	1000.000	1003.824	619780.66	0.5268	P	3.4
8	☐			473.67	0.0004	P	9.0

$$y = 5.2472\text{E-}004 * x + 8.5647\text{E-}005$$

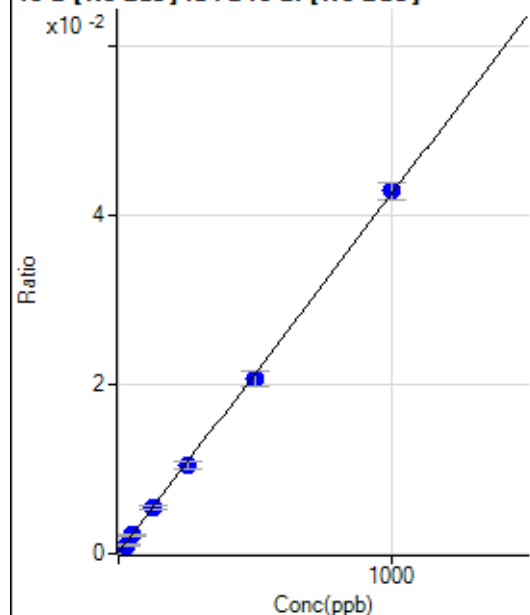
$$R = 0.9999$$

$$DL = 0.1031$$

$$BEC = 0.1632$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	134.64	0.0001	P	8.7
2	☐	25.000	20.501	1121.16	0.0010	P	8.8
3	☐	50.000	48.983	2453.06	0.0022	P	11.4
4	☐	125.000	124.263	6276.11	0.0054	P	7.1
5	☐	250.000	244.002	12377.46	0.0104	P	9.5
6	☐	500.000	485.980	24497.55	0.0207	P	8.1
7	☐	1000.000	1008.765	50432.09	0.0428	P	4.5
8	☐			7507.79	0.0061	P	9.5

$$y = 4.2323\text{E-}005 * x + 1.1854\text{E-}004$$

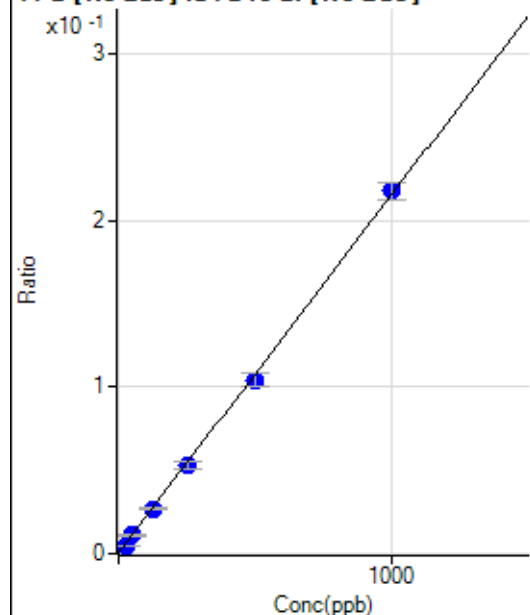
$$R = 0.9998$$

$$DL = 0.7334$$

$$BEC = 2.801$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	648.56	0.0006	P	3.7
2	☐	25.000	19.829	5495.29	0.0048	P	12.5
3	☐	50.000	50.118	12706.34	0.0113	P	9.6
4	☐	125.000	122.563	31419.92	0.0269	P	4.9
5	☐	250.000	243.623	62760.14	0.0530	P	7.8
6	☐	500.000	482.038	123440.46	0.1042	P	7.9
7	☐	1000.000	1011.003	256805.16	0.2180	P	4.7
8	☐			37400.84	0.0302	P	10.4

$$y = 2.1505\text{E-}004 * x + 5.7143\text{E-}004$$

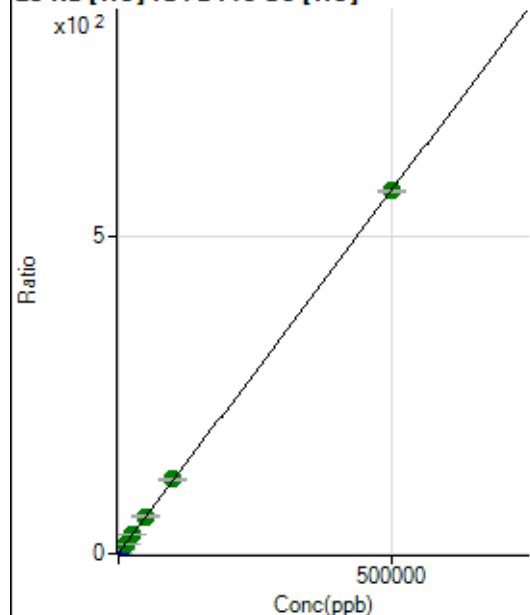
$$R = 0.9997$$

$$DL = 0.2968$$

$$BEC = 2.657$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	39855.04	0.4200	P	1.0
2	☐	500.000	440.382	87595.37	0.9242	P	1.9
3	☐	5000.000	5202.032	601130.21	6.3760	P	1.0
4	☐	12500.000	12911.081	1433379.69	15.2025	A	2.9
5	☐	25000.000	25695.499	2880390.52	29.8400	A	2.8
6	☐	50000.000	51279.134	5647854.95	59.1320	A	1.2
7	☐	100000.00	102071.86	11407102.43	117.2872	A	2.1
8	☐	500000.00	499410.70	55289407.49	572.2203	A	0.4

$$y = 0.0011 * x + 0.4200$$

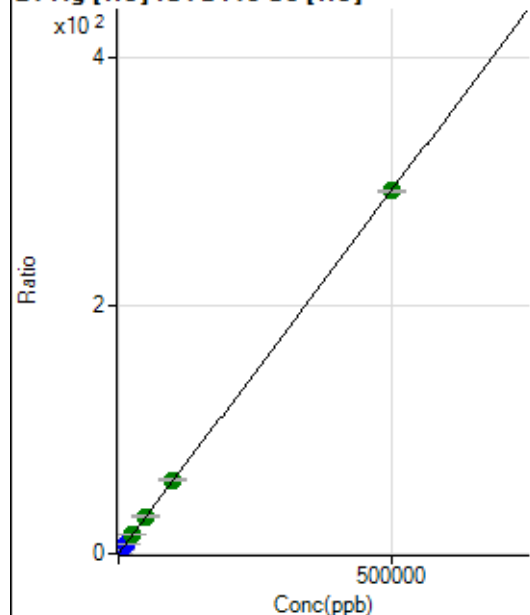
$$R = 1.0000$$

$$DL = 11.45$$

$$BEC = 366.8$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	594.48	0.0063	P	9.7
2	☐	500.000	463.975	26290.90	0.2774	P	2.2
3	☐	5000.000	5288.266	291930.23	3.0966	P	1.6
4	☐	12500.000	13175.905	726661.07	7.7060	P	1.8
5	☐	25000.000	25795.509	1455622.82	15.0806	A	2.5
6	☐	50000.000	51586.683	2879622.87	30.1525	A	1.7
7	☐	100000.00	100709.09	5724212.41	58.8586	A	2.6
8	☐	500000.00	499639.99	28212528.06	291.9858	A	0.3

$$y = 5.8438\text{E-}004 * x + 0.0063$$

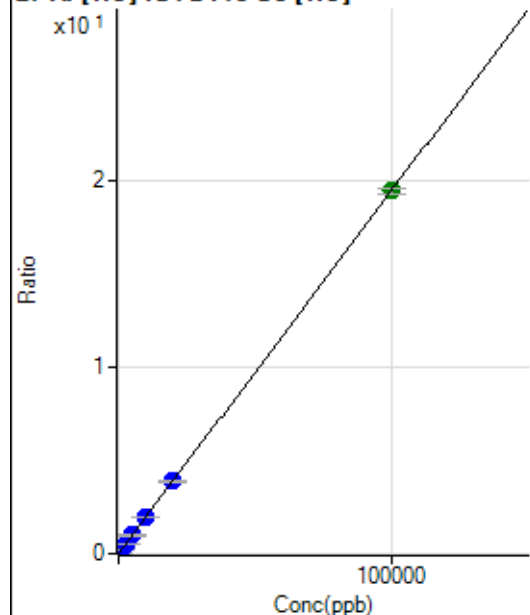
$$R = 1.0000$$

$$DL = 3.127$$

$$BEC = 10.72$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	396.21	0.0042	P	6.6
2	☐	20.000	17.105	711.60	0.0075	P	3.7
3	☐	1000.000	1001.523	18789.72	0.1993	P	1.6
4	☐	2500.000	2543.191	47122.27	0.4997	P	1.4
5	☐	5000.000	5026.455	94934.93	0.9835	P	2.3
6	☐	10000.000	10206.557	190327.51	1.9928	P	1.5
7	☐	20000.000	20071.373	380740.62	3.9149	P	2.4
8	☐	100000.00	99962.652	1882116.09	19.4810	A	1.7

$$y = 1.9484\text{E-}004 * x + 0.0042$$

$$R = 1.0000$$

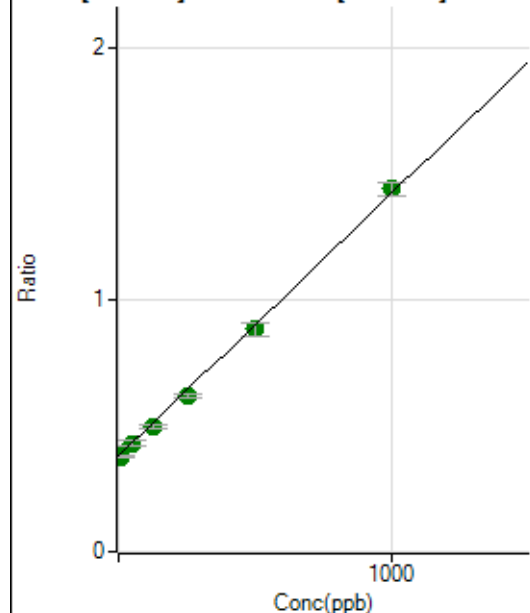
$$DL = 4.259$$

$$BEC = 21.41$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	909658.22	0.3804	A	2.5
2	☐	10.000	-4.065	911536.72	0.3762	A	2.4
3	☐	50.000	47.687	1022887.65	0.4302	A	4.4
4	☐	125.000	109.427	1236529.38	0.4947	A	2.5
5	☐	250.000	227.740	1589958.00	0.6182	A	3.0
6	☐	500.000	482.726	2218441.63	0.8843	A	6.1
7	☐	1000.000	1016.405	3615369.65	1.4414	A	3.5
8	☐			1502467.34	0.5975	A	5.0

$$y = 0.0010 * x + 0.3804$$

$$R = 0.9995$$

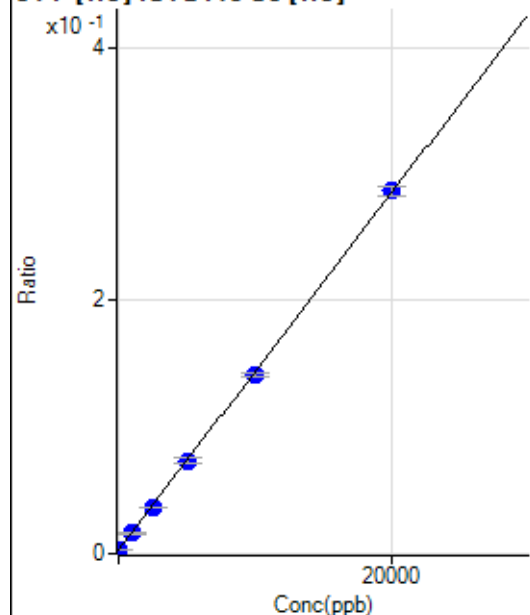
$$DL = 27.69$$

$$BEC = 364.4$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	16.517	300.01	0.0032	P	35.5
2	☐	0.000	-16.517	255.56	0.0027	P	12.6
3	☐	1000.000	955.014	1547.35	0.0164	P	11.0
4	☐	2500.000	2399.940	3467.18	0.0368	P	1.3
5	☐	5000.000	5010.290	7099.16	0.0736	P	6.5
6	☐	10000.000	9803.905	13478.85	0.1411	P	2.2
7	☐	20000.000	20110.232	27860.59	0.2864	P	2.6
8	☐			263.90	0.0027	P	20.8

$$y = 1.4098E-005 * x + 0.0029$$

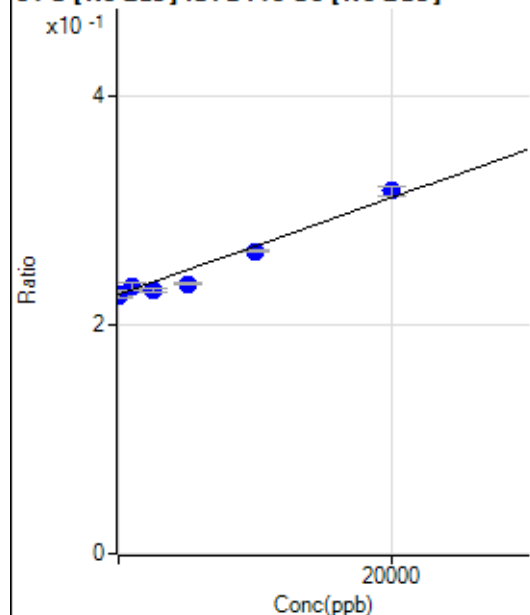
$$R = 0.9999$$

$$DL = 155.5$$

$$BEC = 207.9$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	178.006	544306.02	0.2276	P	2.2
2	☐	0.000	-178.006	547937.06	0.2261	P	1.7
3	☐	1000.000	1635.258	555973.68	0.2338	P	3.5
4	☐	2500.000	870.464	576226.68	0.2305	P	1.5
5	☐	5000.000	2168.190	606957.17	0.2360	P	1.0
6	☐	10000.000	8985.926	664812.90	0.2649	P	1.2
7	☐	20000.000	21386.918	795760.93	0.3174	P	2.4
8	☐			531938.53	0.2115	P	2.5

$$y = 4.2317\text{E-}006 * x + 0.2269$$

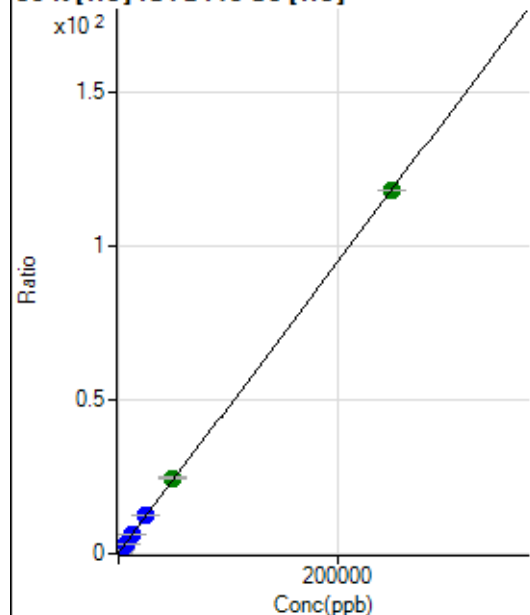
$$R = 0.9847$$

$$DL = 3183$$

$$BEC = 5.361\text{E+}04$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	26511.01	0.2794	P	1.8
2	☐	500.000	443.895	46305.50	0.4886	P	3.7
3	☐	2500.000	2571.785	140644.95	1.4917	P	1.0
4	☐	6250.000	6515.873	315976.09	3.3510	P	2.6
5	☐	12500.000	13007.000	618771.29	6.4110	P	2.8
6	☐	25000.000	26112.115	1202437.87	12.5888	P	1.0
7	☐	50000.000	51565.969	2391204.37	24.5879	A	2.7
8	☐	250000.00	249542.99	11393631.07	117.9156	A	0.1

$$y = 4.7141\text{E-}004 * x + 0.2794$$

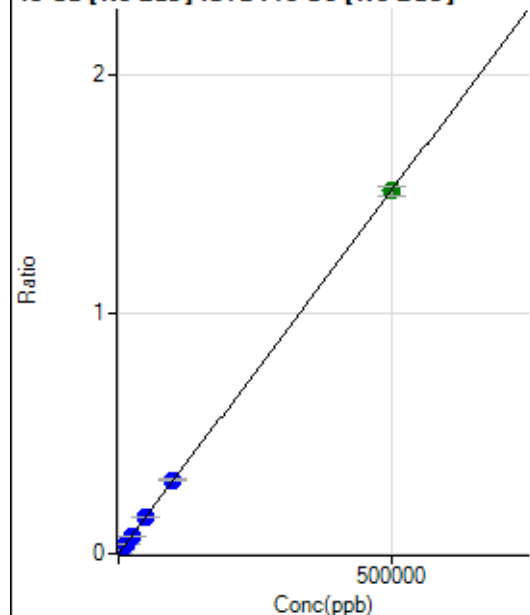
$$R = 1.0000$$

$$DL = 32.04$$

$$BEC = 592.7$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	274.55	0.0001	P	7.2
2	☐	500.000	436.992	3482.50	0.0014	P	3.5
3	☐	5000.000	5133.085	37219.39	0.0156	P	2.8
4	☐	12500.000	12532.369	95075.91	0.0380	P	1.4
5	☐	25000.000	24642.589	192051.48	0.0747	P	1.0
6	☐	50000.000	49815.429	378606.76	0.1509	P	1.9
7	☐	100000.00	101368.67	769396.19	0.3069	P	2.7
8	☐	500000.00	499760.51	3804014.56	1.5125	A	2.5

$$y = 3.0261\text{E-}006 * x + 1.1487\text{E-}004$$

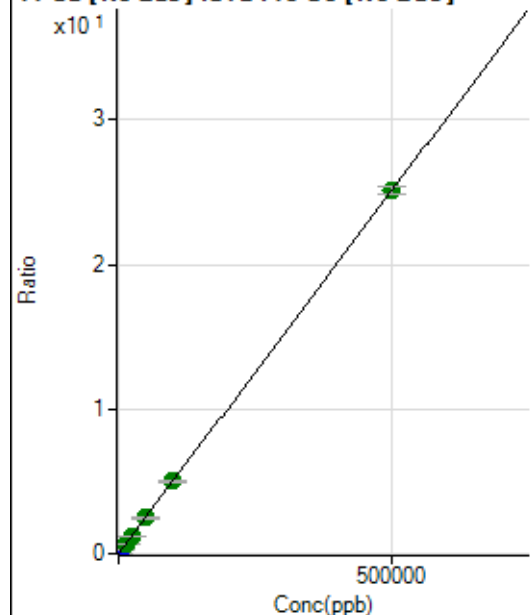
$$R = 1.0000$$

$$DL = 8.149$$

$$BEC = 37.96$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18212.62	0.0076	P	3.4
2	☐	500.000	433.928	71173.24	0.0294	P	2.2
3	☐	5000.000	5151.622	632376.91	0.2659	P	3.1
4	☐	12500.000	12459.659	1580289.70	0.6323	A	2.4
5	☐	25000.000	24323.952	3155467.89	1.2271	A	0.6
6	☐	50000.000	49174.828	6205303.46	2.4730	A	3.4
7	☐	100000.00	100039.86	12595564.95	5.0230	A	2.2
8	☐	500000.00	500107.90	63082491.04	25.0802	A	2.1

$$y = 5.0134\text{E-}005 * x + 0.0076$$

$$R = 1.0000$$

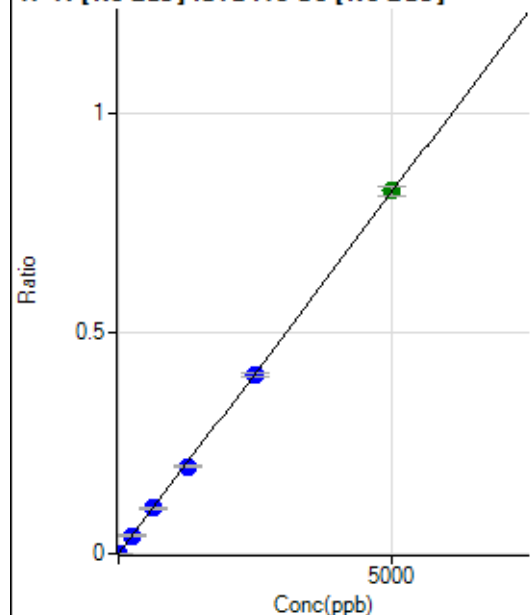
$$DL = 15.47$$

$$BEC = 151.9$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	336.13	0.0001	P	17.0
2	☐	5.000	4.290	2041.87	0.0008	P	4.9
3	☐	250.000	250.795	97948.06	0.0412	P	3.5
4	☐	625.000	625.379	256168.81	0.1025	P	1.4
5	☐	1250.000	1206.818	508235.47	0.1977	P	1.5
6	☐	2500.000	2474.264	1016504.48	0.4051	P	3.0
7	☐	5000.000	5023.577	2061858.83	0.8223	A	2.6
8	☐			633.36	0.0003	P	20.1

$$y = 1.6366\text{E-}004 * x + 1.4036\text{E-}004$$

R = 0.9999

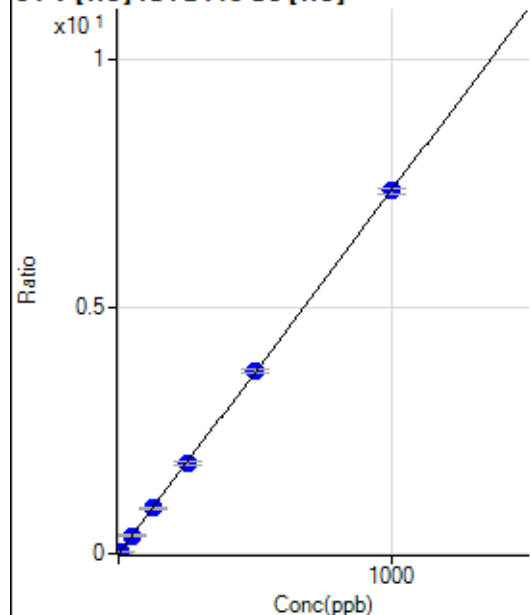
DL = 0.4364

BEC = 0.8576

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11.11	0.0001	P	17.8
2	☐	5.000	4.431	3098.14	0.0327	P	0.7
3	☐	50.000	50.158	34771.03	0.3688	P	1.3
4	☐	125.000	125.316	86869.39	0.9212	P	2.1
5	☐	250.000	249.964	177325.44	1.8374	P	3.4
6	☐	500.000	502.106	352462.54	3.6907	P	1.8
7	☐	1000.000	998.911	714105.02	7.3422	P	1.8
8	☐			228.89	0.0024	P	6.5

$$y = 0.0074 * x + 1.1714\text{E-}004$$

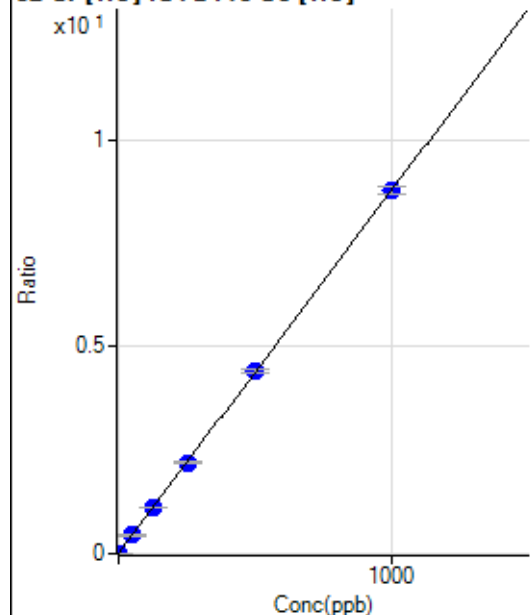
R = 1.0000

DL = 0.00852

BEC = 0.01594

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	618.91	0.0065	P	2.5
2	☐	2.000	1.738	2061.28	0.0217	P	6.6
3	☐	50.000	49.649	41624.90	0.4415	P	1.7
4	☐	125.000	125.411	104231.86	1.1052	P	0.9
5	☐	250.000	250.263	212238.19	2.1990	P	3.2
6	☐	500.000	502.223	420829.40	4.4064	P	1.5
7	☐	1000.000	998.790	851634.16	8.7567	P	2.2
8	☐			16686.48	0.1727	P	1.0

$$y = 0.0088 * x + 0.0065$$

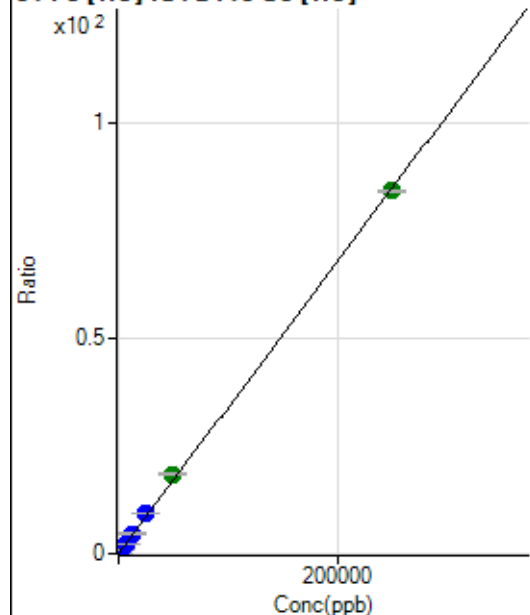
$$R = 1.0000$$

$$DL = 0.05667$$

$$BEC = 0.7442$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	383.34	0.0040	P	16.0
2	☐	50.000	47.679	1913.13	0.0202	P	3.3
3	☐	2500.000	2745.358	88013.82	0.9335	P	0.8
4	☐	6250.000	6880.122	220017.85	2.3333	P	1.9
5	☐	12500.000	13720.849	448699.34	4.6491	P	3.2
6	☐	25000.000	27527.687	890352.00	9.3233	P	2.1
7	☐	50000.000	54403.305	1791858.06	18.4219	A	1.3
8	☐	250000.00	248787.32	8138446.19	84.2292	A	0.5

$$y = 3.3854E-004 * x + 0.0040$$

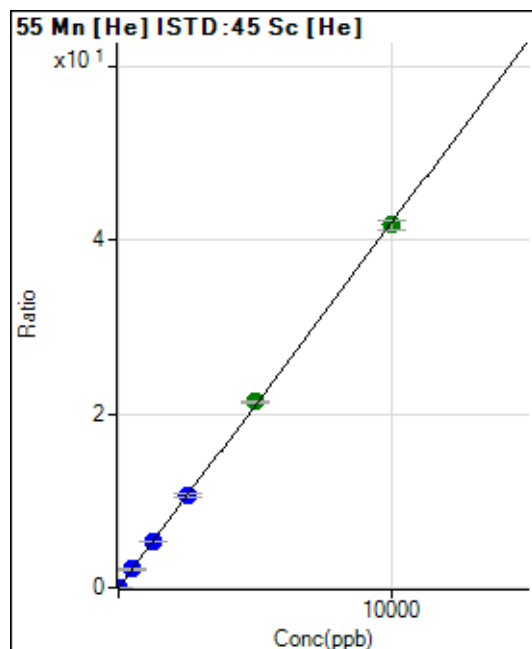
$$R = 0.9998$$

$$DL = 5.747$$

$$BEC = 11.94$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	106.67	0.0011	P	26.8
2	☐	1.000	0.883	457.79	0.0048	P	7.3
3	☐	500.000	503.134	199383.75	2.1148	P	1.4
4	☐	1250.000	1265.131	501295.47	5.3161	P	1.9
5	☐	2500.000	2528.349	1025321.69	10.6229	P	2.8
6	☐	5000.000	5089.513	2042219.90	21.3826	A	1.5
7	☐	10000.000	9946.108	4063801.96	41.7856	A	2.5
8	☐			5026.48	0.0520	P	1.2

$$y = 0.0042 * x + 0.0011$$

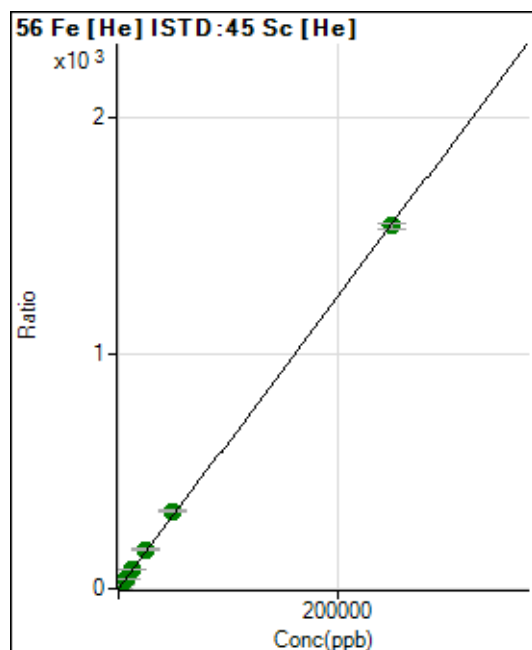
$$R = 0.9999$$

$$DL = 0.2145$$

$$BEC = 0.2669$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2609.54	0.0275	P	4.2
2	☐	50.000	47.035	30200.68	0.3187	P	2.3
3	☐	2500.000	2725.997	1593524.85	16.9018	A	0.9
4	☐	6250.000	6781.314	3960923.70	42.0047	A	2.1
5	☐	12500.000	13410.096	8015242.71	83.0377	A	2.4
6	☐	25000.000	26826.058	15860307.30	166.0843	A	2.2
7	☐	50000.000	53193.467	32027577.11	329.3020	A	1.9
8	☐	250000.00	249117.65	148987734.8	1,542.098	A	1.4

$$y = 0.0062 * x + 0.0275$$

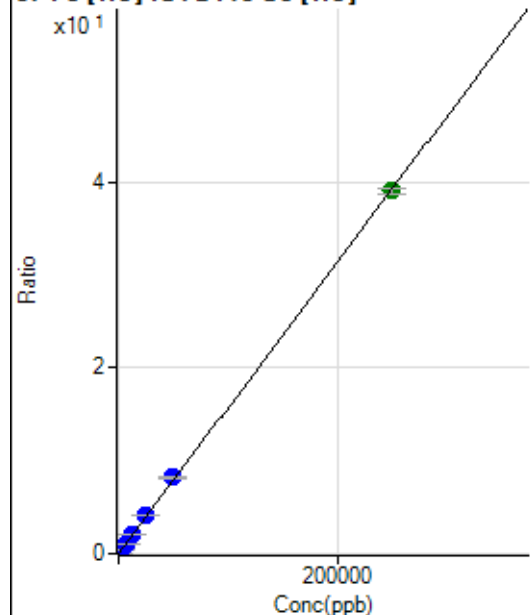
$$R = 0.9999$$

$$DL = 0.5658$$

$$BEC = 4.444$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	124.08	0.0013	P	16.8
2	☐	50.000	48.326	840.78	0.0089	P	8.1
3	☐	2500.000	2655.971	39319.09	0.4170	P	1.4
4	☐	6250.000	6686.844	98815.60	1.0479	P	2.2
5	☐	12500.000	13223.659	199909.89	2.0711	P	2.4
6	☐	25000.000	26433.967	395262.05	4.1388	P	1.7
7	☐	50000.000	52518.007	799564.09	8.2215	P	2.5
8	☐	250000.00	249304.33	3770125.08	39.0227	A	1.3

$$y = 1.5652E-004 * x + 0.0013$$

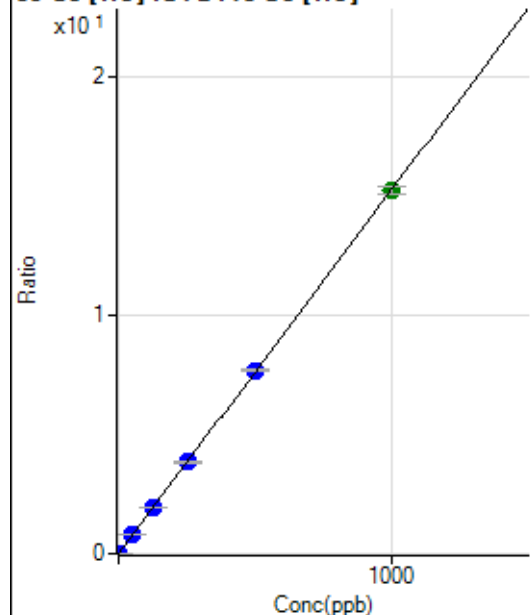
$$R = 0.9999$$

$$DL = 4.219$$

$$BEC = 8.351$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	58.89	0.0006	P	12.6
2	☐	1.000	0.919	1386.75	0.0146	P	5.5
3	☐	50.000	50.782	73078.47	0.7752	P	1.5
4	☐	125.000	127.032	182774.32	1.9381	P	1.1
5	☐	250.000	251.563	370403.93	3.8375	P	2.5
6	☐	500.000	503.689	733772.35	7.6830	P	1.6
7	☐	1000.000	997.472	1479704.39	15.2143	A	2.2
8	☐			2960.33	0.0306	P	4.2

$$y = 0.0153 * x + 6.2090E-004$$

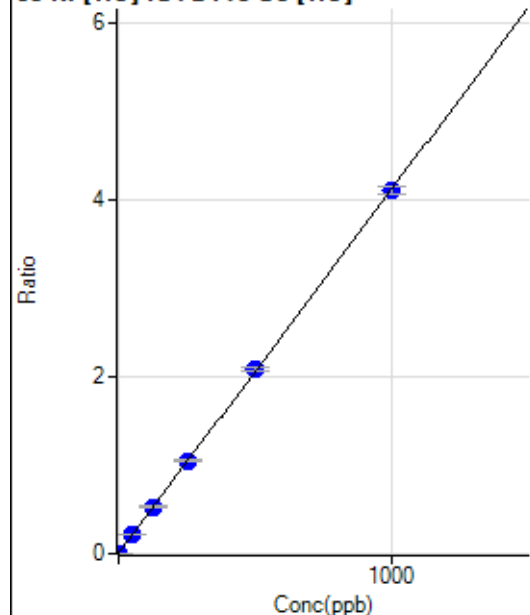
$$R = 1.0000$$

$$DL = 0.01537$$

$$BEC = 0.04071$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	356.68	0.0038	P	12.0
2	☐	1.000	0.858	691.14	0.0073	P	6.6
3	☐	50.000	49.821	19702.58	0.2090	P	0.3
4	☐	125.000	128.376	50210.43	0.5325	P	2.8
5	☐	250.000	254.296	101454.90	1.0512	P	2.8
6	☐	500.000	505.104	199035.29	2.0842	P	2.0
7	☐	1000.000	995.961	399332.84	4.1059	P	2.1
8	☐			5770.11	0.0597	P	4.5

$$y = 0.0041 * x + 0.0038$$

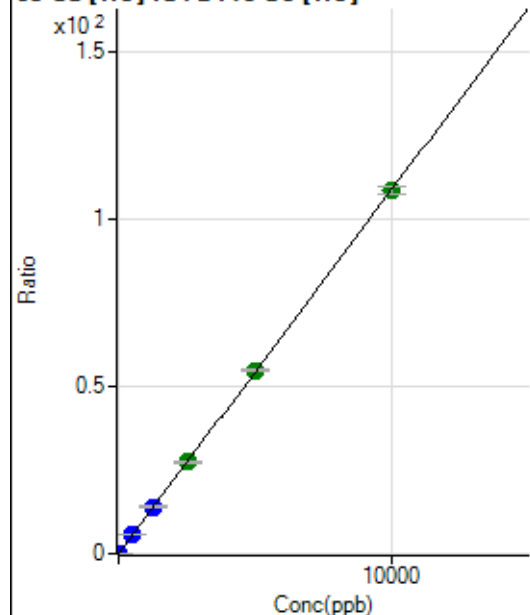
$$R = 1.0000$$

$$DL = 0.3277$$

$$BEC = 0.9116$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	887.16	0.0093	P	10.4
2	☐	2.000	2.093	3040.99	0.0321	P	1.1
3	☐	500.000	516.211	529501.16	5.6165	P	1.4
4	☐	1250.000	1289.199	1321400.40	14.0127	P	1.5
5	☐	2500.000	2528.208	2651470.19	27.4710	A	2.7
6	☐	5000.000	5026.263	5215361.61	54.6051	A	1.1
7	☐	10000.000	9974.106	10537620.59	108.3490	A	2.2
8	☐			10506.33	0.1088	P	2.9

$$y = 0.0109 * x + 0.0093$$

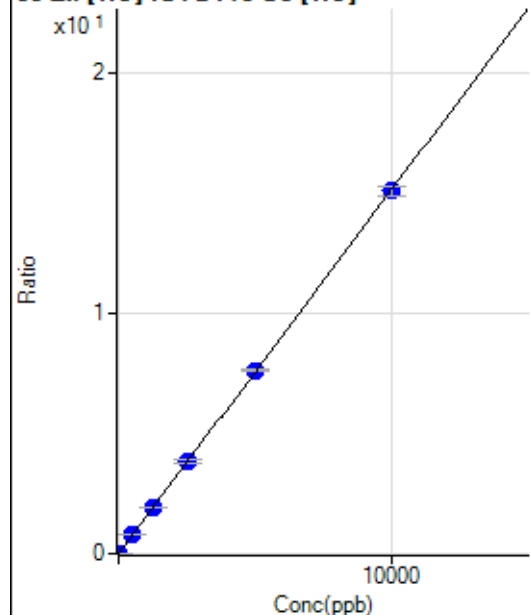
$$R = 1.0000$$

$$DL = 0.2676$$

$$BEC = 0.8606$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	110.00	0.0012	P	41.6
2	☐	2.000	1.725	357.79	0.0038	P	13.9
3	☐	500.000	508.380	72720.73	0.7713	P	0.5
4	☐	1250.000	1266.171	180974.29	1.9192	P	1.8
5	☐	2500.000	2530.617	370114.55	3.8346	P	2.7
6	☐	5000.000	5034.606	728481.07	7.6277	P	1.5
7	☐	10000.000	9972.603	1469262.67	15.1079	P	2.7
8	☐			5557.80	0.0575	P	2.4

$$y = 0.0015 * x + 0.0012$$

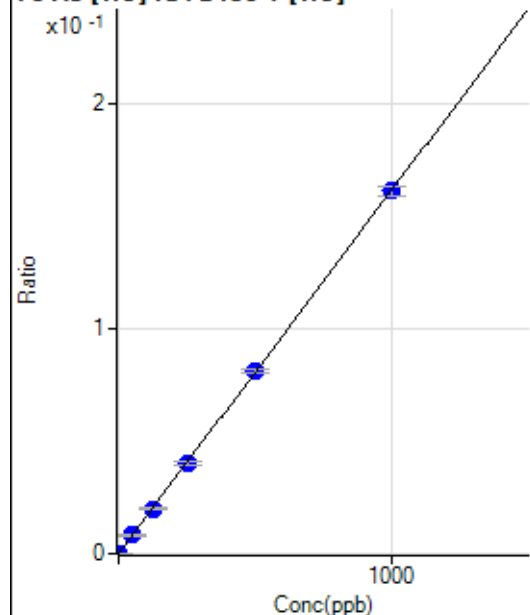
$$R = 1.0000$$

$$DL = 0.9577$$

$$BEC = 0.7679$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7.11	0.0000	P	37.4
2	☐	1.000	0.905	97.26	0.0002	P	6.4
3	☐	50.000	50.327	4975.94	0.0081	P	3.8
4	☐	125.000	123.931	12405.17	0.0200	P	1.9
5	☐	250.000	248.619	25101.37	0.0402	P	3.0
6	☐	500.000	503.103	50390.31	0.0813	P	1.5
7	☐	1000.000	998.911	101655.80	0.1613	P	2.6
8	☐			41.74	0.0001	P	19.7

$$y = 1.6151E-004 * x + 1.1526E-005$$

$$R = 1.0000$$

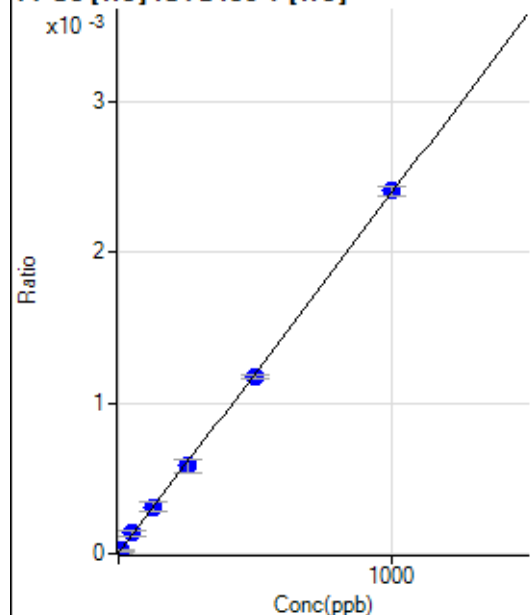
$$DL = 0.0801$$

$$BEC = 0.07137$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2.22	0.0000	P	173.2
2	☐	5.000	6.730	12.22	0.0000	P	66.9
3	☐	50.000	55.820	83.33	0.0001	P	27.5
4	☐	125.000	129.372	193.34	0.0003	P	18.8
5	☐	250.000	243.243	365.56	0.0006	P	14.8
6	☐	500.000	488.479	724.47	0.0012	P	2.1
7	☐	1000.000	1006.604	1514.54	0.0024	P	2.5
8	☐			1.11	0.0000	P	173.2

$$y = 2.3843\text{E-}006 * x + 3.5475\text{E-}006$$

$$R = 0.9998$$

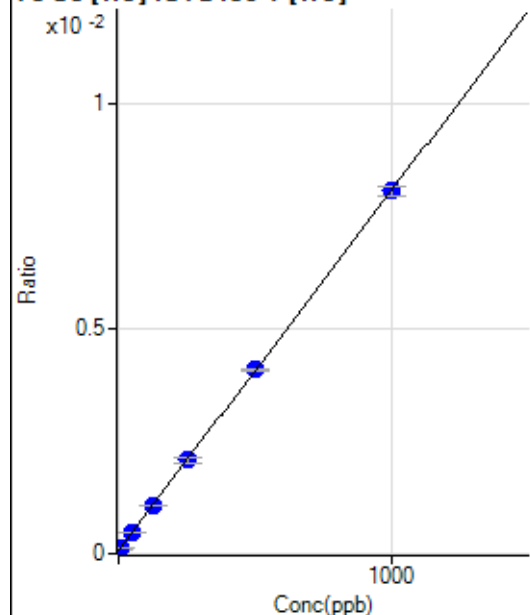
$$DL = 7.731$$

$$BEC = 1.488$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	47.00	0.0001	P	14.0
2	☐	5.000	6.097	76.68	0.0001	P	13.9
3	☐	50.000	50.033	290.70	0.0005	P	5.0
4	☐	125.000	123.835	659.41	0.0011	P	1.5
5	☐	250.000	250.102	1294.86	0.0021	P	5.2
6	☐	500.000	501.558	2530.16	0.0041	P	1.5
7	☐	1000.000	999.334	5075.10	0.0081	P	2.4
8	☐			53.34	0.0001	P	6.6

$$y = 7.9834\text{E-}006 * x + 7.5907\text{E-}005$$

$$R = 1.0000$$

$$DL = 3.996$$

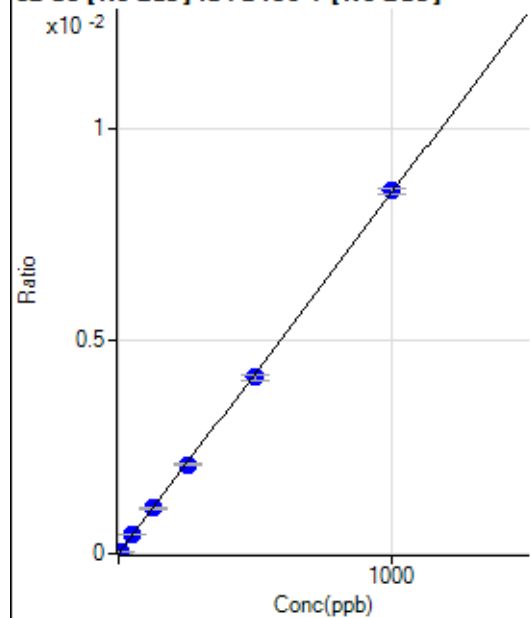
$$BEC = 9.508$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2779.80		P	5.5
2	☐			2859.92		P	3.2
3	☐			2933.34		P	8.9
4	☐			2909.96		P	3.3
5	☐			2956.71		P	5.8
6	☐			2876.60		P	6.5
7	☐			2983.41		P	7.4
8	☐			3126.92		P	4.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-26.59	0.0000	P	-150.
2	☐	5.000	5.855	248.89	0.0000	P	7.5
3	☐	50.000	51.252	2318.21	0.0004	P	1.3
4	☐	125.000	126.227	6067.98	0.0011	P	1.9
5	☐	250.000	247.076	12154.49	0.0021	P	2.2
6	☐	500.000	489.127	24054.20	0.0041	P	2.9
7	☐	1000.000	1005.947	48671.78	0.0085	P	1.5
8	☐			30.49	0.0000	P	296.2

$$y = 8.4931E-006 * x - 4.9182E-006$$

$$R = 0.9999$$

$$DL = 2.612$$

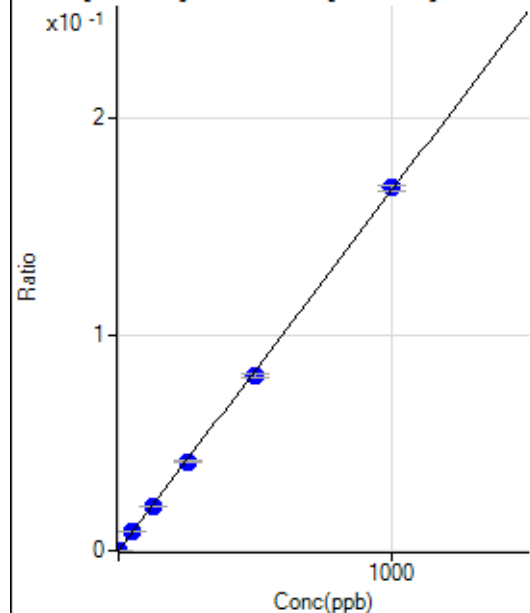
$$BEC = -0.5791$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			420.01		P	9.2
2	☐			384.46		P	6.1
3	☐			424.46		P	8.0
4	☐			380.01		P	3.2
5	☐			395.57		P	8.3
6	☐			404.45		P	7.9
7	☐			424.46		P	1.6
8	☐			407.79		P	16.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	630.59	0.0001	P	17.8
2	☐	1.000	0.994	1552.91	0.0003	P	10.9
3	☐	50.000	52.215	47394.62	0.0088	P	2.1
4	☐	125.000	122.807	116810.63	0.0205	P	1.7
5	☐	250.000	247.334	239529.64	0.0413	P	1.4
6	☐	500.000	486.487	469799.84	0.0810	P	2.9
7	☐	1000.000	1007.586	956059.59	0.1677	P	1.4
8	☐			5898.65	0.0010	P	6.7

$$y = 1.6635E-004 * x + 1.1384E-004$$

$$R = 0.9999$$

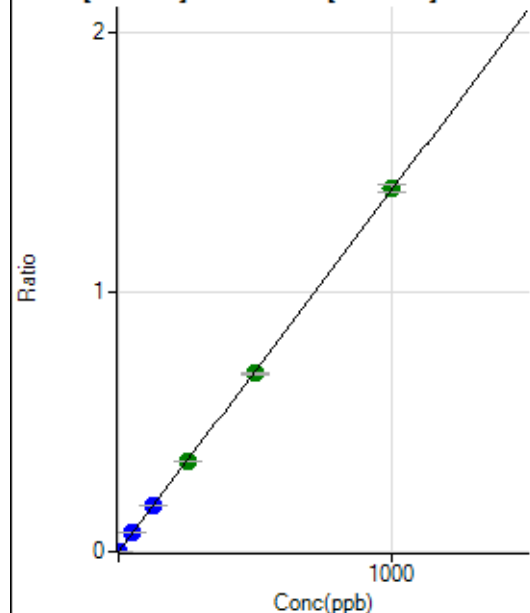
$$DL = 0.3663$$

$$BEC = 0.6843$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	169.45	0.0000	P	13.4
2	☐	1.000	0.861	6832.43	0.0012	P	6.7
3	☐	50.000	52.493	394029.20	0.0732	P	2.6
4	☐	125.000	127.107	1007111.42	0.1771	P	1.3
5	☐	250.000	248.337	2008841.88	0.3460	A	0.8
6	☐	500.000	492.497	3978382.86	0.6862	A	1.2
7	☐	1000.000	1003.779	7971250.87	1.3985	A	2.1
8	☐			44803.16	0.0079	P	2.3

$$y = 0.0014 * x + 3.0564E-005$$

$$R = 0.9999$$

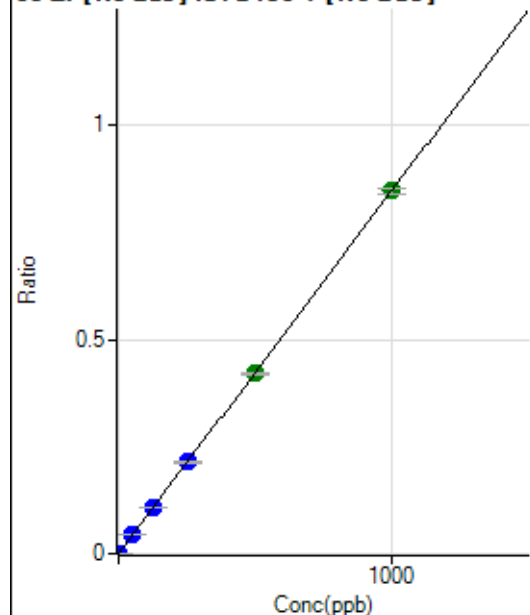
$$DL = 0.008813$$

$$BEC = 0.02194$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	216.67	0.0000	P	6.0
2	☐	1.000	0.914	4520.31	0.0008	P	1.9
3	☐	50.000	52.052	237536.82	0.0441	P	1.9
4	☐	125.000	127.693	614864.95	0.1081	P	0.9
5	☐	250.000	252.093	1239160.62	0.2134	P	0.8
6	☐	500.000	496.800	2438431.24	0.4206	A	1.7
7	☐	1000.000	1000.638	4828418.64	0.8471	A	1.8
8	☐			1464.01	0.0003	P	2.0

$$y = 8.4650E-004 * x + 3.9171E-005$$

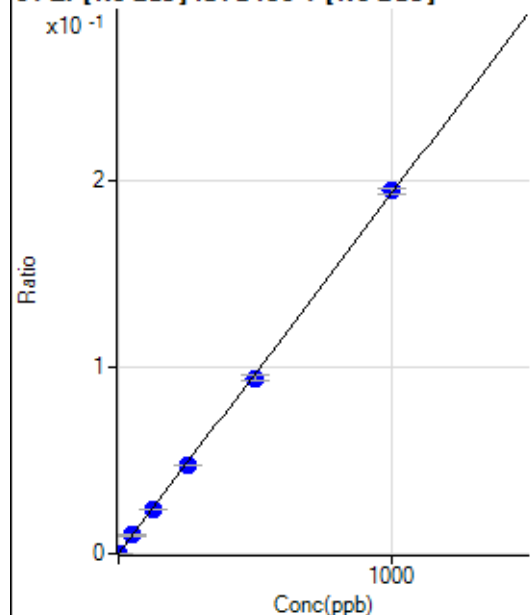
$$R = 1.0000$$

$$DL = 0.008263$$

$$BEC = 0.04627$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	61.11	0.0000	P	9.3
2	☐	1.000	0.771	888.94	0.0002	P	12.1
3	☐	50.000	51.123	53252.14	0.0099	P	2.9
4	☐	125.000	122.918	135097.60	0.0238	P	1.1
5	☐	250.000	246.677	276759.63	0.0477	P	1.2
6	☐	500.000	486.951	545454.25	0.0941	P	3.1
7	☐	1000.000	1007.559	1109685.87	0.1947	P	1.4
8	☐			380.57	0.0001	P	5.2

$$y = 1.9320\text{E-}004 * x + 1.1049\text{E-}005$$

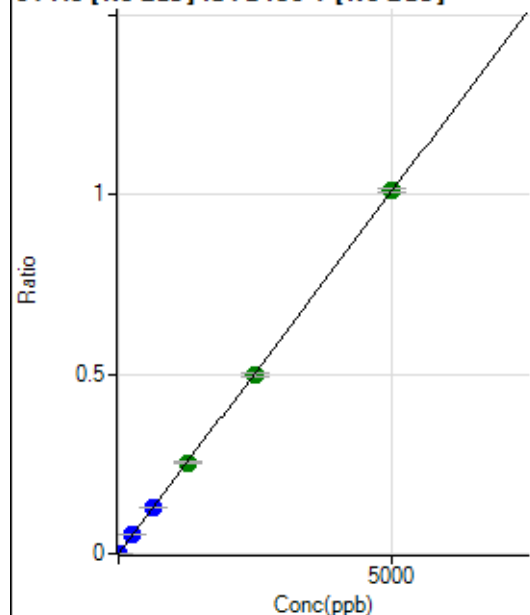
$$R = 0.9999$$

$$DL = 0.01589$$

$$BEC = 0.05719$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	80.56	0.0000	P	44.5
2	☐	5.000	4.366	4973.24	0.0009	P	2.8
3	☐	250.000	261.482	283712.71	0.0527	P	2.6
4	☐	625.000	639.215	732161.87	0.1288	P	0.5
5	☐	1250.000	1259.537	1472947.58	0.2537	A	1.4
6	☐	2500.000	2469.598	2883791.30	0.4974	A	2.4
7	☐	5000.000	5010.466	5752727.56	1.0092	A	1.2
8	☐			3658.93	0.0006	P	4.6

$$y = 2.0141\text{E-}004 * x + 1.4651\text{E-}005$$

$$R = 1.0000$$

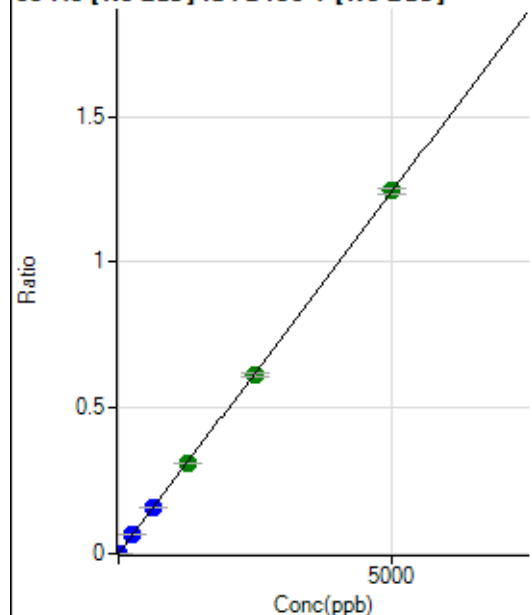
$$DL = 0.09719$$

$$BEC = 0.07274$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19.45	0.0000	P	22.2
2	☐	5.000	4.534	6268.28	0.0011	P	3.7
3	☐	250.000	263.002	351323.20	0.0652	P	2.6
4	☐	625.000	632.340	891841.34	0.1568	P	0.2
5	☐	1250.000	1244.465	1792062.43	0.3087	A	0.7
6	☐	2500.000	2464.634	3544045.70	0.6113	A	2.3
7	☐	5000.000	5017.500	7093676.63	1.2445	A	1.9
8	☐			5323.36	0.0009	P	3.6

$$y = 2.4803\text{E-}004 * x + 3.5003\text{E-}006$$

$$R = 1.0000$$

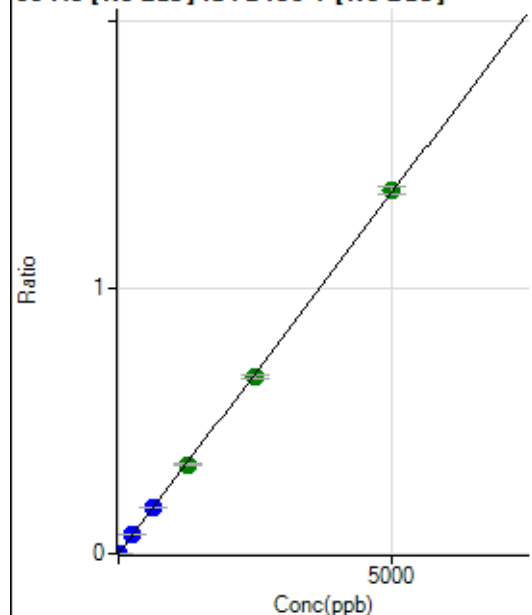
$$DL = 0.009379$$

$$BEC = 0.01411$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	52.78	0.0000	P	41.3
2	☐	5.000	4.315	6560.05	0.0012	P	3.2
3	☐	250.000	262.073	382728.93	0.0711	P	2.3
4	☐	625.000	639.706	986273.18	0.1735	P	1.3
5	☐	1250.000	1234.900	1943903.54	0.3348	A	1.2
6	☐	2500.000	2442.330	3839108.33	0.6622	A	2.0
7	☐	5000.000	5030.169	7773730.47	1.3638	A	2.1
8	☐			6148.72	0.0011	P	1.4

$$y = 2.7113\text{E-}004 * x + 9.5839\text{E-}006$$

$$R = 0.9999$$

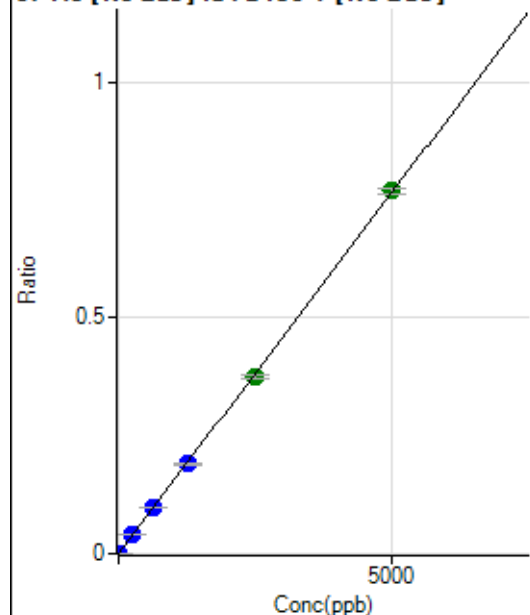
$$DL = 0.04378$$

$$BEC = 0.03535$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	8.33	0.0000	P	2.3
2	☐	5.000	4.236	3611.69	0.0007	P	5.5
3	☐	250.000	262.190	216226.30	0.0401	P	2.0
4	☐	625.000	632.478	550657.56	0.0968	P	0.9
5	☐	1250.000	1240.540	1102773.08	0.1899	P	0.9
6	☐	2500.000	2449.585	2174560.79	0.3751	A	1.7
7	☐	5000.000	5026.029	4386770.11	0.7696	A	1.4
8	☐			3244.91	0.0006	P	7.5

$$y = 1.5311\text{E-}004 * x + 1.5051\text{E-}006$$

$$R = 0.9999$$

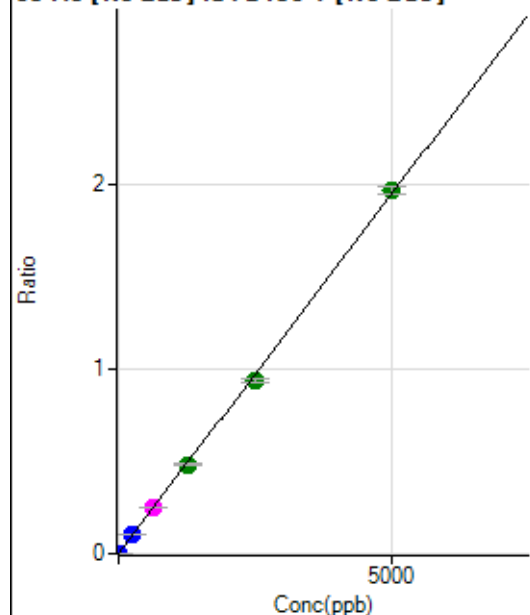
$$DL = 0.0006873$$

$$BEC = 0.00983$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	19.44	0.0000	P	48.9
2	☐	5.000	4.348	9456.28	0.0017	P	3.4
3	☐	250.000	262.434	551807.10	0.1025	P	3.0
4	☐	625.000	636.426	1412955.66	0.2485	M	1.8
5	☐	1250.000	1237.788	2805871.66	0.4833	A	1.0
6	☐	2500.000	2411.001	5457892.27	0.9414	A	1.6
7	☐	5000.000	5045.503	11228978.46	1.9700	A	2.0
8	☐			8391.63	0.0015	P	0.5

$$y = 3.9044\text{E-}004 * x + 3.5000\text{E-}006$$

$$R = 0.9997$$

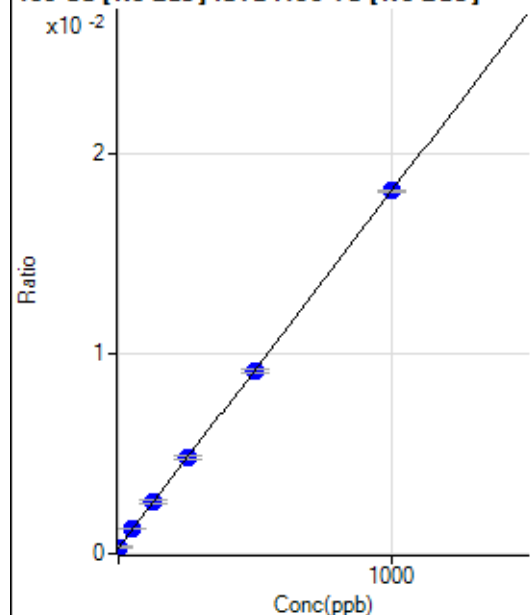
$$DL = 0.01316$$

$$BEC = 0.008964$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1144.53	0.0003	P	7.3
2	☐	1.000	1.808	1261.21	0.0003	P	7.7
3	☐	50.000	52.690	4734.28	0.0012	P	5.0
4	☐	125.000	128.720	10318.08	0.0026	P	4.9
5	☐	250.000	252.957	19361.26	0.0048	P	2.8
6	☐	500.000	495.812	36727.36	0.0091	P	2.1
7	☐	1000.000	1000.754	72724.76	0.0181	P	0.5
8	☐			1369.54	0.0003	P	7.7

$$y = 1.7818\text{E-}005 * x + 2.9621\text{E-}004$$

$$R = 1.0000$$

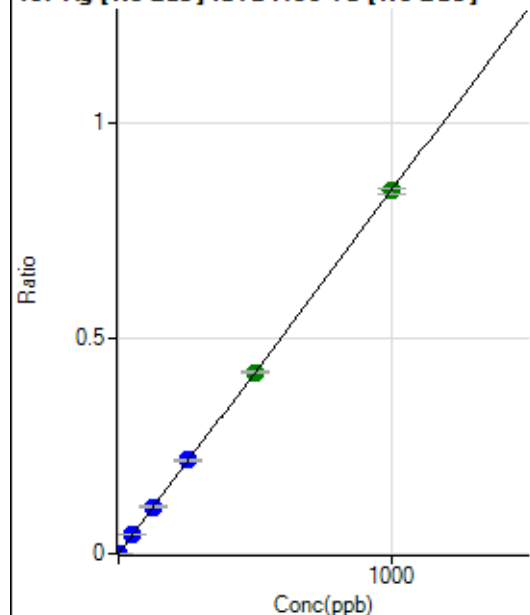
$$DL = 3.617$$

$$BEC = 16.62$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	75.00	0.0000	P	53.0
2	☐	1.000	0.851	2833.70	0.0007	P	3.5
3	☐	50.000	52.432	169763.38	0.0443	P	3.2
4	☐	125.000	127.924	430388.87	0.1080	P	3.1
5	☐	250.000	256.861	873856.54	0.2168	P	1.9
6	☐	500.000	498.170	1691368.49	0.4205	A	1.2
7	☐	1000.000	998.713	3381311.40	0.8429	A	1.4
8	☐			1886.29	0.0005	P	5.3

$$y = 8.4399\text{E-}004 * x + 1.9484\text{E-}005$$

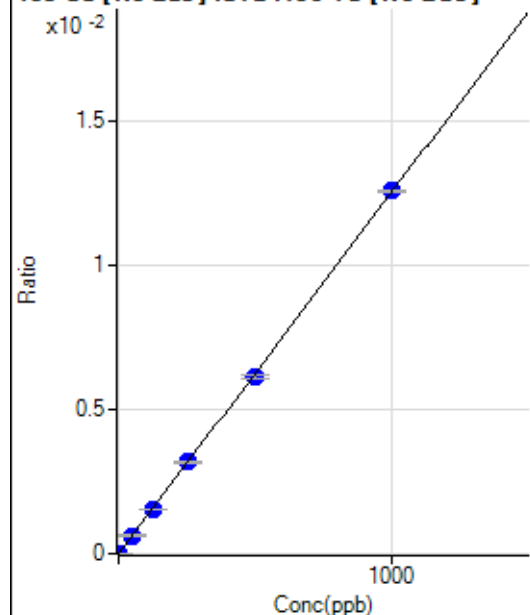
$$R = 1.0000$$

$$DL = 0.03674$$

$$BEC = 0.02309$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	15.28	0.0000	P	27.1
2	☐	1.000	1.158	70.83	0.0000	P	9.8
3	☐	50.000	50.015	2412.74	0.0006	P	4.9
4	☐	125.000	122.822	6137.55	0.0015	P	2.7
5	☐	250.000	253.685	12803.28	0.0032	P	2.7
6	☐	500.000	489.469	24637.38	0.0061	P	2.4
7	☐	1000.000	1004.616	50415.23	0.0126	P	0.5
8	☐			80.56	0.0000	P	40.4

$$y = 1.2505\text{E-}005 * x + 3.9214\text{E-}006$$

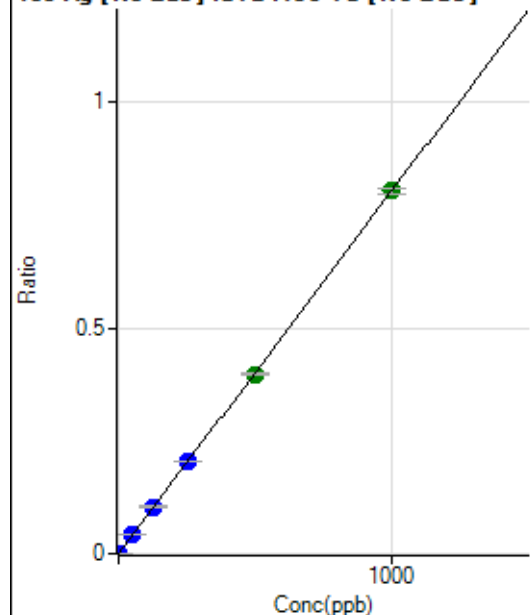
$$R = 0.9999$$

$$DL = 0.2553$$

$$BEC = 0.3136$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	36.11	0.0000	P	70.1
2	☐	1.000	0.859	2686.43	0.0007	P	6.1
3	☐	50.000	52.037	160258.19	0.0418	P	4.0
4	☐	125.000	129.592	414846.78	0.1041	P	2.8
5	☐	250.000	254.676	824471.29	0.2045	P	1.1
6	☐	500.000	494.053	1595995.73	0.3968	A	1.2
7	☐	1000.000	1001.129	3225243.58	0.8040	A	1.3
8	☐			1741.82	0.0004	P	12.1

$$y = 8.0309\text{E-}004 * x + 9.1667\text{E-}006$$

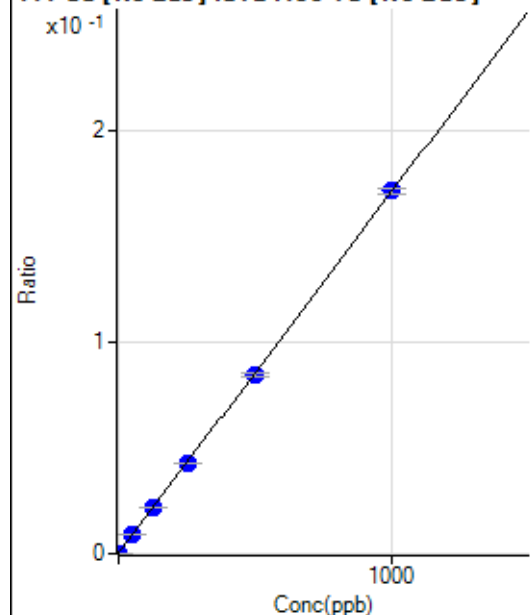
$$R = 1.0000$$

$$DL = 0.02402$$

$$BEC = 0.01141$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	804.37	0.0002	P	7.7
2	☐	1.000	1.188	1580.51	0.0004	P	3.2
3	☐	50.000	51.607	34620.24	0.0090	P	4.9
4	☐	125.000	125.865	86607.79	0.0217	P	2.4
5	☐	250.000	249.473	172769.12	0.0429	P	1.1
6	☐	500.000	493.714	340368.28	0.0846	P	1.4
7	☐	1000.000	1003.086	688768.24	0.1717	P	1.9
8	☐			1232.86	0.0003	P	6.9

$$y = 1.7097\text{E-}004 * x + 2.0818\text{E-}004$$

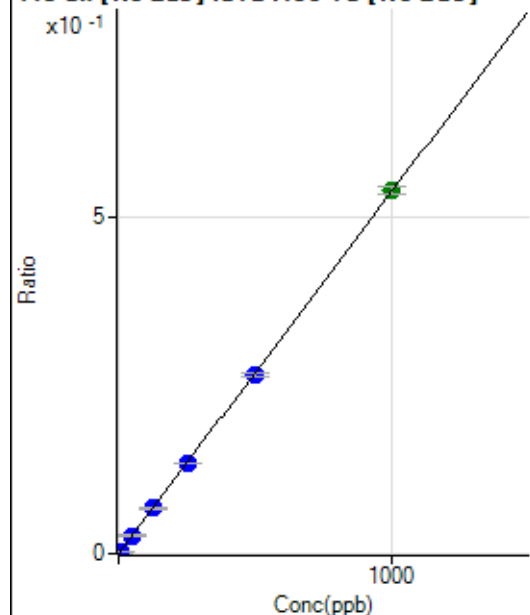
$$R = 1.0000$$

$$DL = 0.2819$$

$$BEC = 1.218$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	216.68	0.0001	P	10.4
2	☐	5.000	4.372	9245.02	0.0024	P	0.8
3	☐	50.000	50.315	103845.46	0.0271	P	2.7
4	☐	125.000	125.048	267914.11	0.0672	P	2.7
5	☐	250.000	248.948	539195.53	0.1338	P	1.0
6	☐	500.000	494.249	1067974.43	0.2655	P	1.8
7	☐	1000.000	1003.120	2161317.15	0.5388	A	2.0
8	☐			1494.57	0.0004	P	9.9

$$y = 5.3708\text{E-}004 * x + 5.6170\text{E-}005$$

$$R = 1.0000$$

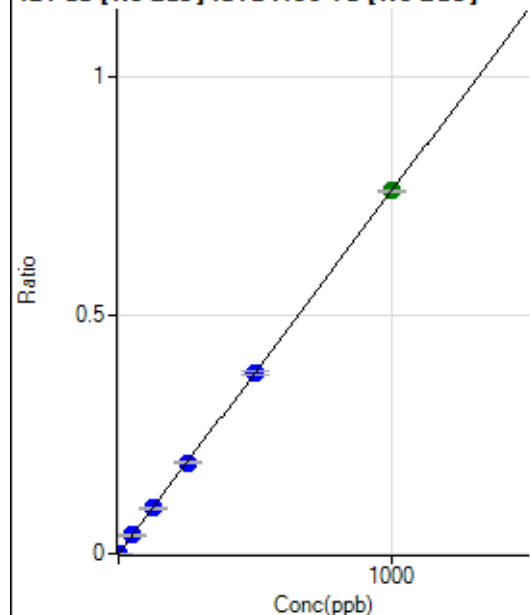
$$DL = 0.03252$$

$$BEC = 0.1046$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	22.22	0.0000	P	38.9
2	☐	2.000	1.781	5217.81	0.0014	P	5.2
3	☐	50.000	51.156	148919.23	0.0388	P	3.2
4	☐	125.000	125.832	380743.34	0.0955	P	2.8
5	☐	250.000	251.402	769271.97	0.1908	P	0.7
6	☐	500.000	498.264	1521388.91	0.3782	P	1.4
7	☐	1000.000	1000.356	3046358.69	0.7594	A	0.4
8	☐			2589.22	0.0006	P	3.3

$$y = 7.5909\text{E-}004 * x + 5.6871\text{E-}006$$

$$R = 1.0000$$

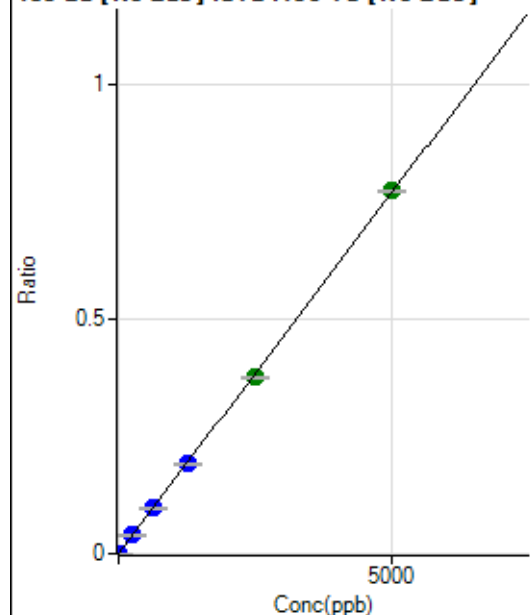
$$DL = 0.008741$$

$$BEC = 0.007492$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	22.22	0.0000	P	74.3
2	☐	10.000	8.504	5039.94	0.0013	P	6.3
3	☐	250.000	254.111	149623.32	0.0390	P	3.6
4	☐	625.000	627.250	383854.21	0.0963	P	3.5
5	☐	1250.000	1247.635	772188.42	0.1916	P	1.6
6	☐	2500.000	2443.918	1509498.10	0.3753	A	0.7
7	☐	5000.000	5028.148	3097269.58	0.7721	A	0.8
8	☐			5737.50	0.0014	P	2.6

$$y = 1.5355\text{E-}004 * x + 5.6361\text{E-}006$$

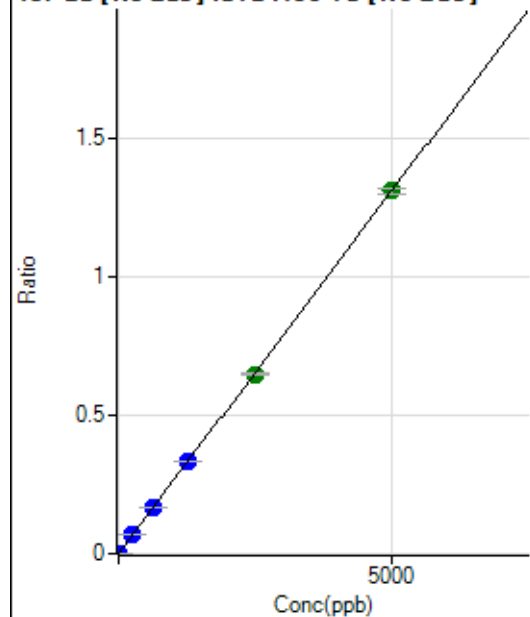
$$R = 0.9999$$

$$DL = 0.08179$$

$$BEC = 0.03671$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13.89	0.0000	P	65.1
2	☐	10.000	9.095	9147.76	0.0024	P	2.5
3	☐	250.000	258.624	259081.49	0.0676	P	3.4
4	☐	625.000	634.033	660213.85	0.1656	P	2.9
5	☐	1250.000	1267.839	1335113.38	0.3312	P	1.2
6	☐	2500.000	2479.488	2605768.09	0.6478	A	1.0
7	☐	5000.000	5004.237	5244831.80	1.3074	A	1.3
8	☐			10087.39	0.0025	P	4.4

$$y = 2.6125E-004 * x + 3.5296E-006$$

$$R = 1.0000$$

$$DL = 0.02637$$

$$BEC = 0.01351$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

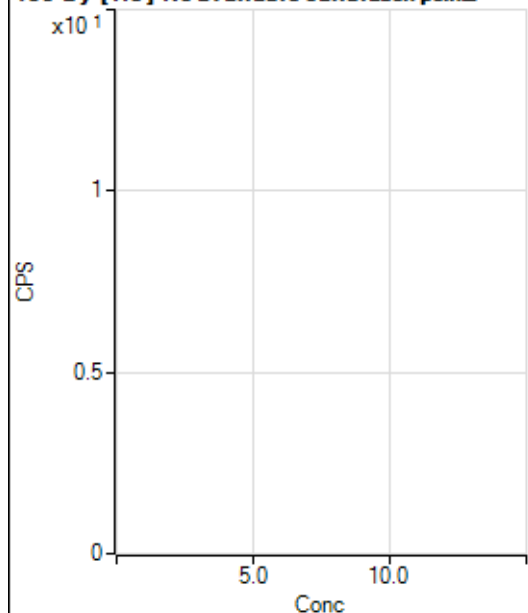
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			13.33		P	100.0
3	☐			17.78		P	43.3
4	☐			24.44		P	41.7
5	☐			44.44		P	43.3
6	☐			68.89		P	24.4
7	☐			173.34		P	10.2
8	☐			22.22		P	34.7

150 Nd [He] No available calibration points

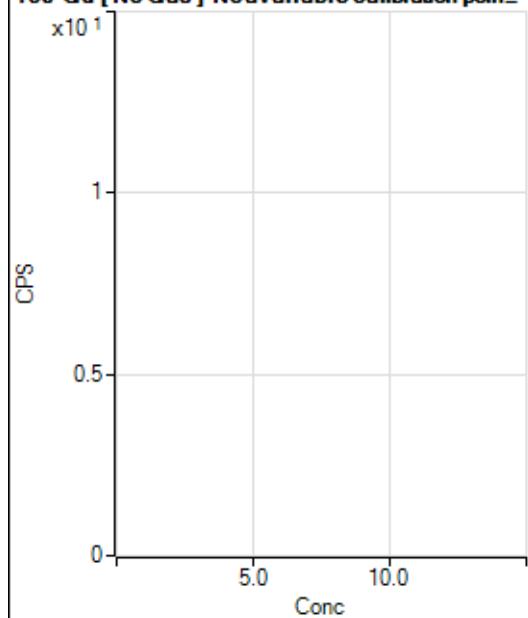
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			1.11		P	173.2
3	☐			0.00		P	
4	☐			1.11		P	173.2
5	☐			4.44		P	43.4
6	☐			5.56		P	34.7
7	☐			25.56		P	7.5
8	☐			2.22		P	86.6

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	NaN
2	☐			19.45		P	24.7
3	☐			25.00		P	115.5
4	☐			27.78		P	45.8
5	☐			50.00		P	88.2
6	☐			66.67		P	45.1
7	☐			133.34		P	10.8
8	☐			230.57		P	10.4

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			1.11		P	173.2
3	☐			8.89		P	78.1
4	☐			6.66		P	86.6
5	☐			16.67		P	121.7
6	☐			16.67		P	69.3
7	☐			32.22		P	23.9
8	☐			94.45		P	11.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.00		P	57.7
2	☐			38.89		P	68.9
3	☐			27.78		P	34.6
4	☐			22.22		P	21.6
5	☐			47.22		P	66.8
6	☐			44.44		P	39.0
7	☐			102.78		P	12.4
8	☐			194.45		P	4.9

160 Gd [He] No available calibration points

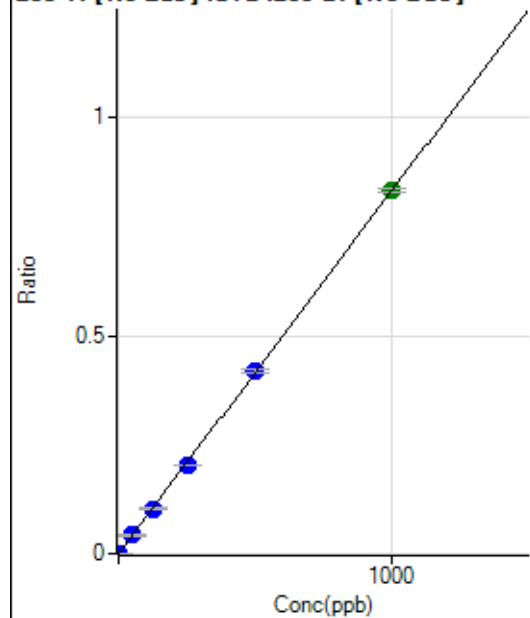
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	57.8
2	☐			8.89		P	78.1
3	☐			14.44		P	58.1
4	☐			12.22		P	31.5
5	☐			10.00		P	66.7
6	☐			33.33		P	45.8
7	☐			42.22		P	31.9
8	☐			107.78		P	1.8

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	86.6
2	☐			13.89		P	34.7
3	☐			27.78		P	17.3
4	☐			22.22		P	21.6
5	☐			38.89		P	24.7
6	☐			27.78		P	17.3
7	☐			58.33		P	65.5
8	☐			33.34		P	66.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	24.7
2	☐			6.67		P	0.0
3	☐			6.67		P	0.0
4	☐			5.55		P	69.3
5	☐			12.22		P	15.7
6	☐			15.55		P	44.6
7	☐			24.45		P	28.4
8	☐			11.11		P	34.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	52.78	0.0000	P	7.0
2	☐	1.000	0.868	1564.04	0.0007	P	7.0
3	☐	50.000	51.061	86960.40	0.0425	P	3.5
4	☐	125.000	122.933	221002.93	0.1022	P	3.0
5	☐	250.000	244.819	446900.91	0.2035	P	0.5
6	☐	500.000	501.536	885243.01	0.4168	P	2.1
7	☐	1000.000	1000.733	1769553.97	0.8316	A	1.1
8	☐			1255.65	0.0006	P	8.7

$$y = 8.3096E-004 * x + 2.5092E-005$$

$$R = 1.0000$$

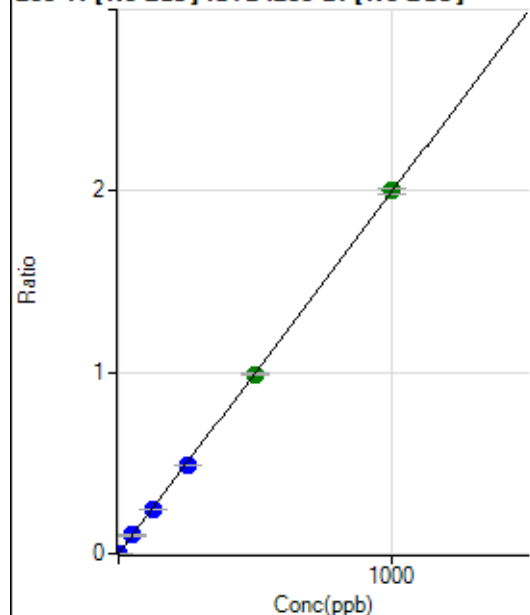
$$DL = 0.00638$$

$$BEC = 0.0302$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	102.78	0.0000	P	9.5
2	☐	1.000	0.871	3739.55	0.0018	P	9.2
3	☐	50.000	50.511	206305.16	0.1007	P	3.4
4	☐	125.000	122.717	529179.89	0.2446	P	2.6
5	☐	250.000	244.563	1070758.26	0.4875	P	0.5
6	☐	500.000	496.113	2100521.97	0.9889	A	0.8
7	☐	1000.000	1003.563	4256154.13	2.0003	A	1.7
8	☐			3064.34	0.0015	P	8.2

$$y = 0.0020 * x + 4.8918E-005$$

$$R = 1.0000$$

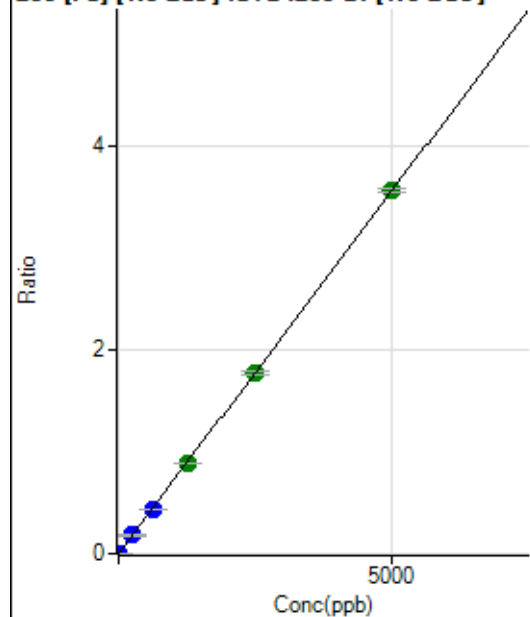
$$DL = 0.006964$$

$$BEC = 0.02454$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	238.90	0.0001	P	10.5
2	☐	1.000	0.793	1422.32	0.0007	P	4.9
3	☐	250.000	252.400	367974.68	0.1796	P	2.6
4	☐	625.000	609.118	937359.60	0.4333	P	2.4
5	☐	1250.000	1234.580	1928846.04	0.8781	A	0.1
6	☐	2500.000	2497.001	3772368.43	1.7760	A	1.5
7	☐	5000.000	5007.220	7577837.49	3.5612	A	1.2
8	☐			7759.85	0.0038	P	2.7

$$y = 7.1120E-004 * x + 1.1385E-004$$

$$R = 1.0000$$

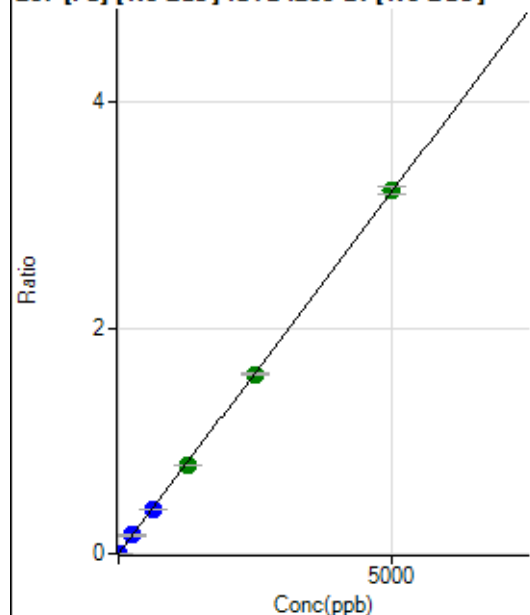
$$DL = 0.05064$$

$$BEC = 0.1601$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	233.34	0.0001	P	21.8
2	☐	1.000	0.812	1324.17	0.0006	P	7.6
3	☐	250.000	252.832	332482.69	0.1623	P	1.8
4	☐	625.000	608.882	844836.65	0.3906	P	3.3
5	☐	1250.000	1218.544	1716746.89	0.7816	A	1.3
6	☐	2500.000	2484.248	3384687.23	1.5934	A	0.5
7	☐	5000.000	5017.613	6847177.76	3.2182	A	2.0
8	☐			6790.76	0.0033	P	3.7

$$y = 6.4135E-004 * x + 1.1118E-004$$

$$R = 1.0000$$

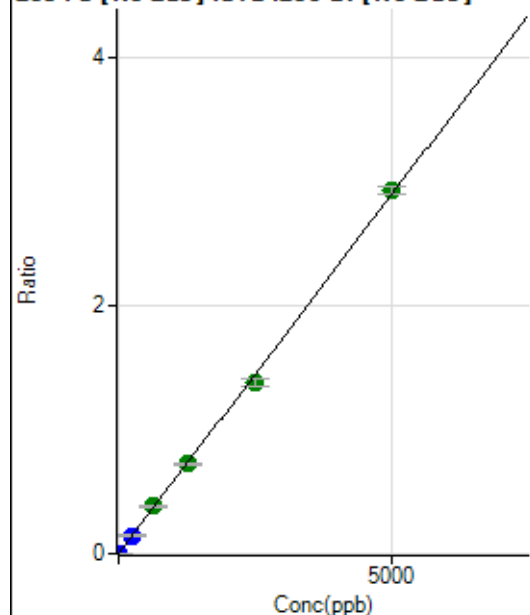
$$DL = 0.1136$$

$$BEC = 0.1734$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	146.84	0.0001	P	66.4
2	☐	1.000	0.738	1045.06	0.0005	P	18.9
3	☐	250.000	250.075	296138.30	0.1447	P	6.8
4	☐	625.000	656.992	822002.32	0.3800	A	2.8
5	☐	1250.000	1250.634	1588796.81	0.7233	A	1.5
6	☐	2500.000	2384.395	2928521.49	1.3790	A	5.5
7	☐	5000.000	5053.641	6218876.57	2.9227	A	2.2
8	☐			6429.98	0.0031	P	7.9

$$y = 5.7833E-004 * x + 6.9560E-005$$

$$R = 0.9996$$

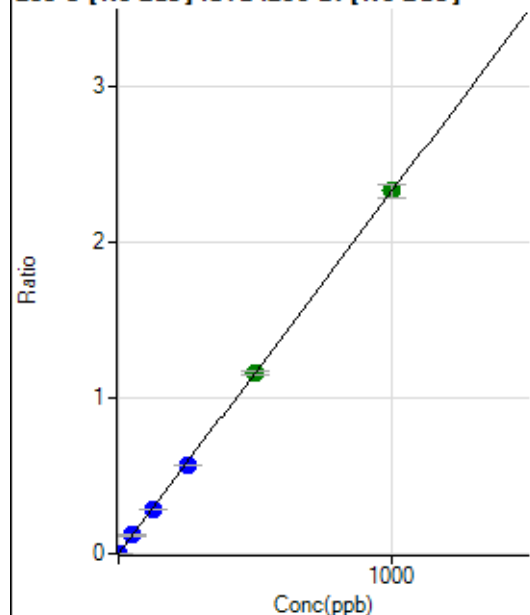
$$DL = 0.2395$$

$$BEC = 0.1203$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8.33	0.0000	P	99.4
2	☐	1.000	0.839	4092.44	0.0020	P	5.9
3	☐	50.000	50.629	240727.67	0.1175	P	3.6
4	☐	125.000	122.983	617571.33	0.2855	P	2.8
5	☐	250.000	242.181	1234892.89	0.5622	P	0.0
6	☐	500.000	499.297	2462081.07	1.1591	A	1.3
7	☐	1000.000	1002.527	4951326.19	2.3273	A	3.4
8	☐			650.04	0.0003	P	9.0

$$y = 0.0023 * x + 4.0010E-006$$

$$R = 1.0000$$

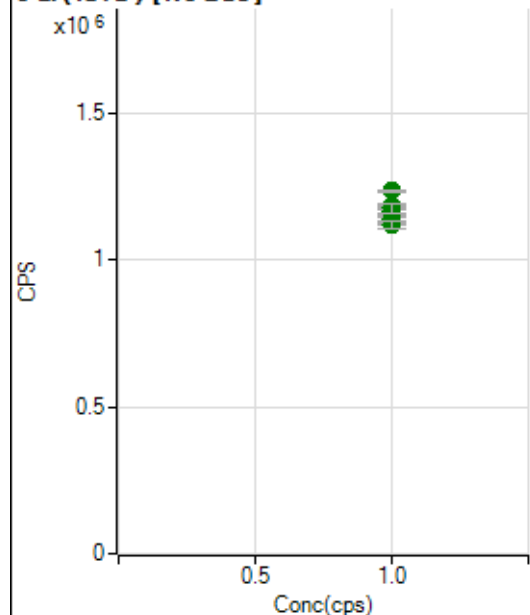
$$DL = 0.00514$$

$$BEC = 0.001724$$

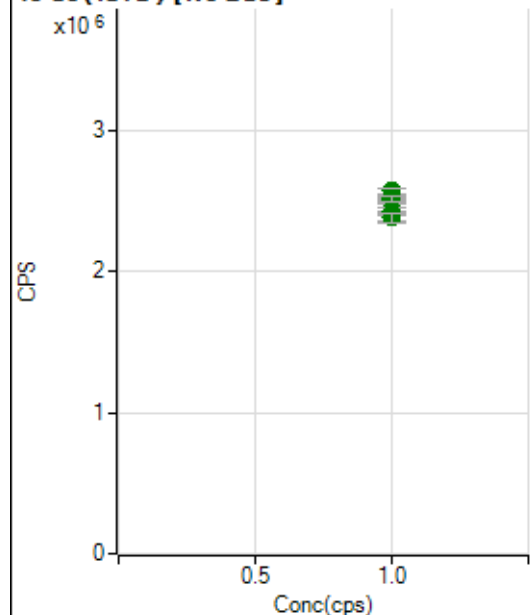
Weight: <None>

Min Conc: 0

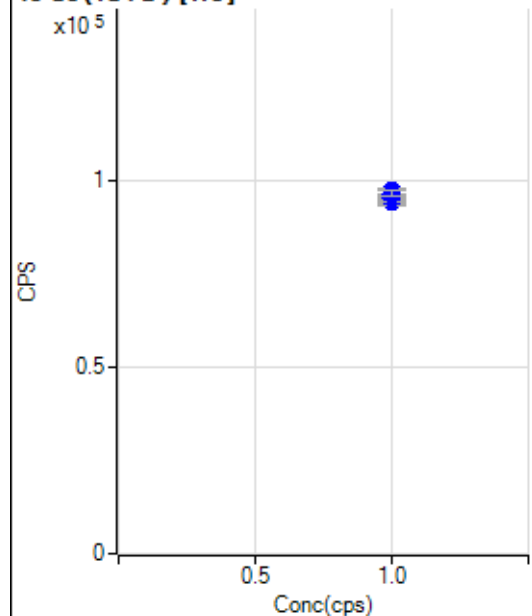
6 Li (ISTD) [No Gas]



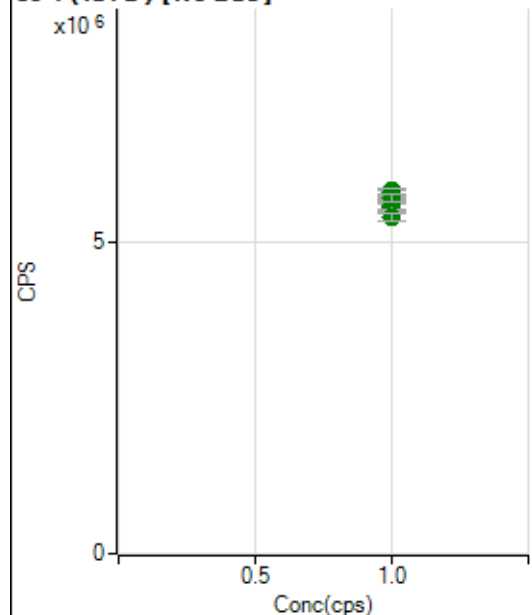
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1135390.52		A	1.5
2	☐	1.000		1138520.42		A	2.6
3	☐	1.000		1120814.28		A	2.1
4	☐	1.000		1166207.33		A	1.6
5	☐	1.000		1185139.66		A	0.2
6	☐	1.000		1184176.09		A	0.6
7	☐	1.000		1177233.46		A	2.8
8	☐	1.000		1236537.21		A	0.8

45 Sc (ISTD) [No Gas]

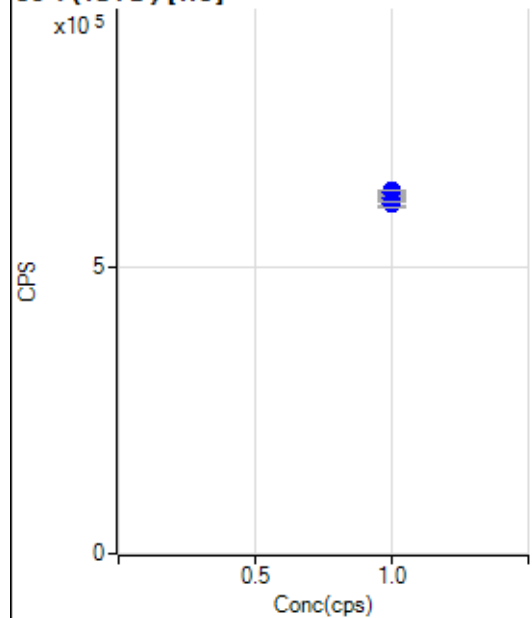
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2392115.59		A	2.4
2	☐	1.000		2423899.91		A	2.1
3	☐	1.000		2379828.94		A	3.0
4	☐	1.000		2499636.39		A	1.0
5	☐	1.000		2571650.69		A	1.3
6	☐	1.000		2510043.66		A	1.4
7	☐	1.000		2508264.89		A	2.3
8	☐	1.000		2515727.43		A	1.5

45 Sc (ISTD) [He]

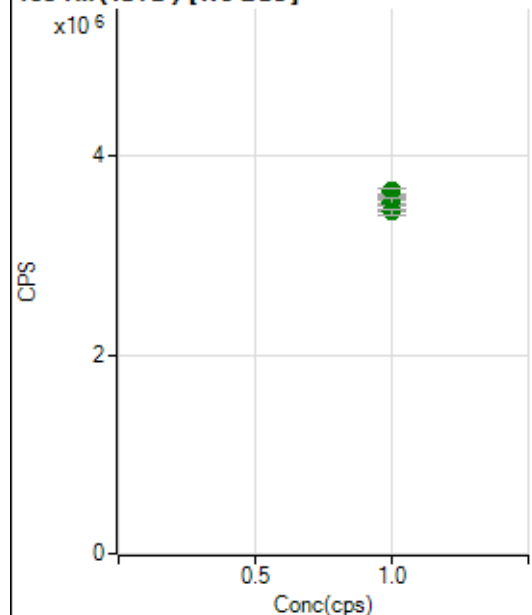
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		94907.48		P	1.4
2	☐	1.000		94791.25		P	1.1
3	☐	1.000		94289.03		P	1.5
4	☐	1.000		94315.09		P	1.6
5	☐	1.000		96557.36		P	2.2
6	☐	1.000		95523.21		P	2.0
7	☐	1.000		97277.84		P	1.5
8	☐	1.000		96625.32		P	1.4

89 Y (ISTD) [No Gas]

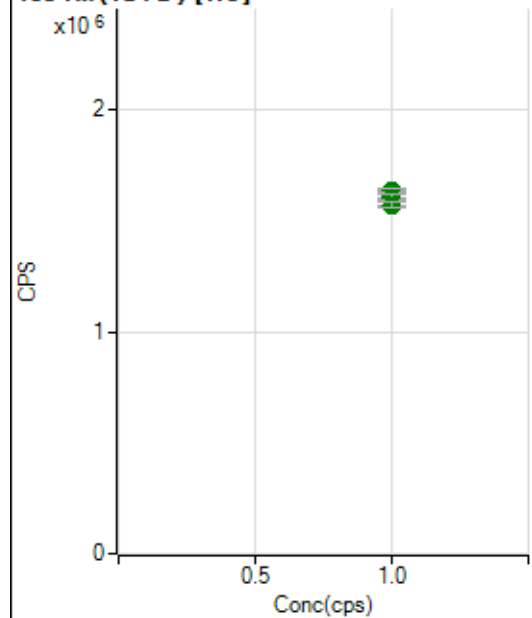
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5536374.36		A	2.4
2	☐	1.000		5560341.31		A	2.2
3	☐	1.000		5387632.84		A	2.4
4	☐	1.000		5686208.95		A	0.2
5	☐	1.000		5805775.54		A	0.0
6	☐	1.000		5798563.59		A	1.3
7	☐	1.000		5700767.00		A	1.0
8	☐	1.000		5691776.03		A	1.9

89 Y (ISTD) [He]

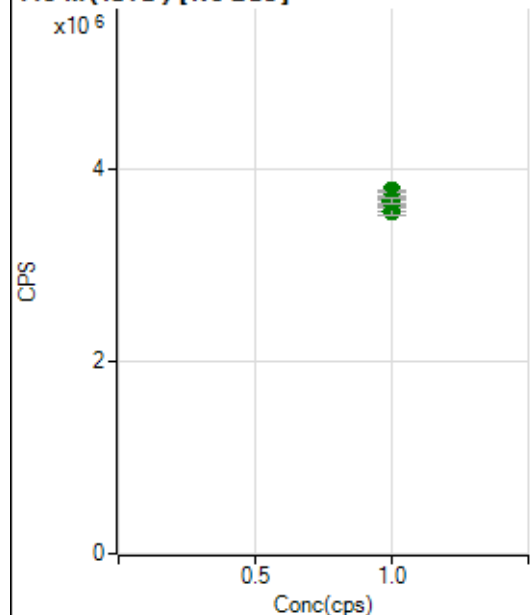
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		618463.49		P	1.4
2	☐	1.000		616502.32		P	2.8
3	☐	1.000		611566.55		P	2.0
4	☐	1.000		619484.74		P	0.9
5	☐	1.000		625227.69		P	2.3
6	☐	1.000		620185.92		P	2.0
7	☐	1.000		630235.27		P	1.6
8	☐	1.000		633349.86		P	0.1

103 Rh (ISTD) [No Gas]

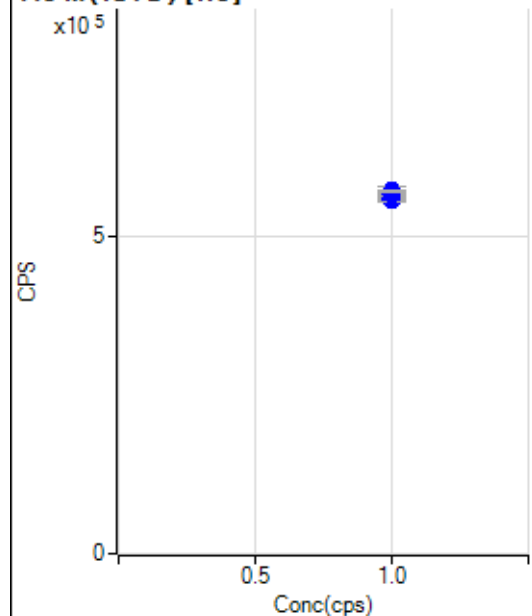
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3511590.70		A	0.7
2	☐	1.000		3514846.61		A	2.7
3	☐	1.000		3467743.96		A	1.8
4	☐	1.000		3642703.94		A	2.2
5	☐	1.000		3651040.66		A	1.7
6	☐	1.000		3578839.10		A	1.0
7	☐	1.000		3543384.50		A	2.0
8	☐	1.000		3442523.08		A	1.6

103 Rh (ISTD) [He]

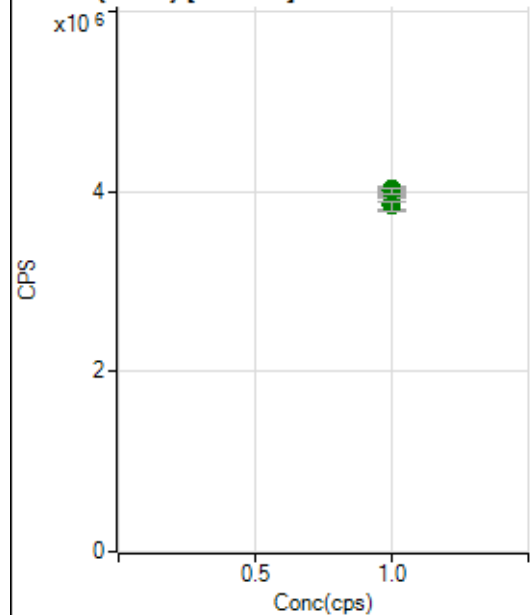
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1609931.00		A	1.2
2	☐	1.000		1621964.86		A	2.4
3	☐	1.000		1597243.85		A	0.8
4	☐	1.000		1602400.85		A	2.0
5	☐	1.000		1634388.78		A	1.0
6	☐	1.000		1582100.20		A	2.3
7	☐	1.000		1605570.62		A	1.9
8	☐	1.000		1569764.16		A	1.5

115 In (ISTD) [No Gas]

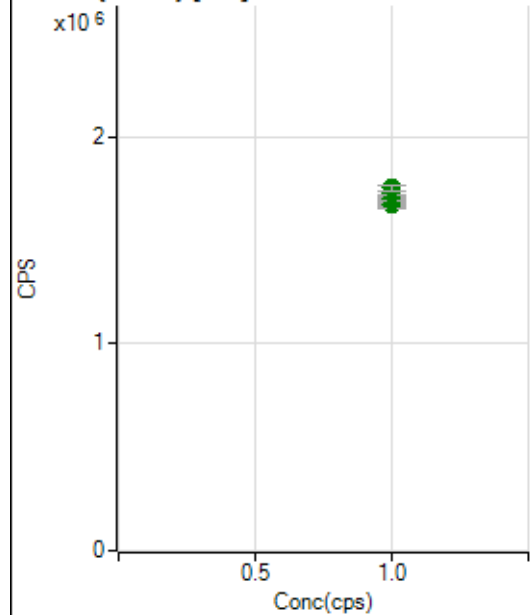
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3647971.51		A	2.6
2	☐	1.000		3637062.28		A	3.8
3	☐	1.000		3563813.39		A	2.3
4	☐	1.000		3668324.55		A	2.7
5	☐	1.000		3778125.17		A	0.8
6	☐	1.000		3734278.72		A	2.0
7	☐	1.000		3688989.52		A	2.4
8	☐	1.000		3669074.14		A	1.7

115 In (ISTD) [He]

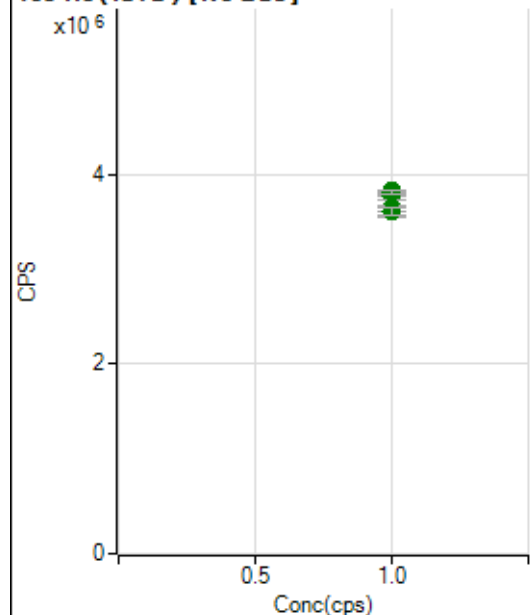
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		566066.64		P	1.2
2	☐	1.000		564138.17		P	2.9
3	☐	1.000		556406.25		P	1.3
4	☐	1.000		565056.63		P	0.5
5	☐	1.000		570619.11		P	2.1
6	☐	1.000		559566.74		P	1.8
7	☐	1.000		565905.00		P	0.9
8	☐	1.000		569788.22		P	0.7

159 Tb (ISTD) [No Gas]

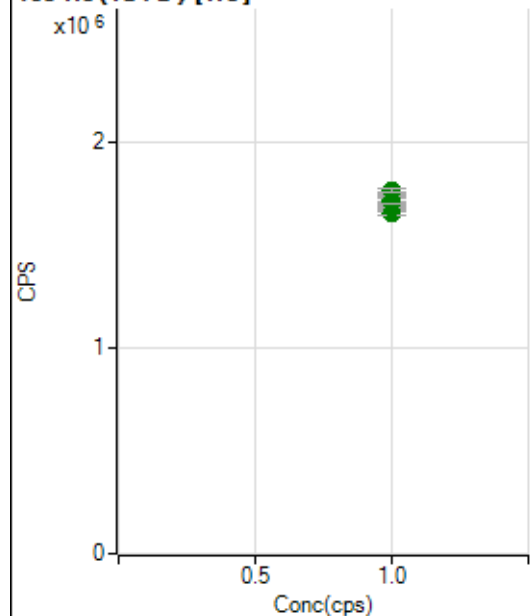
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3868104.87		A	4.0
2	☐	1.000		3845350.50		A	2.6
3	☐	1.000		3836351.36		A	2.4
4	☐	1.000		3987884.14		A	2.9
5	☐	1.000		4031091.50		A	1.0
6	☐	1.000		4022546.75		A	0.5
7	☐	1.000		4011806.88		A	1.0
8	☐	1.000		4008761.95		A	1.8

159 Tb (ISTD) [He]

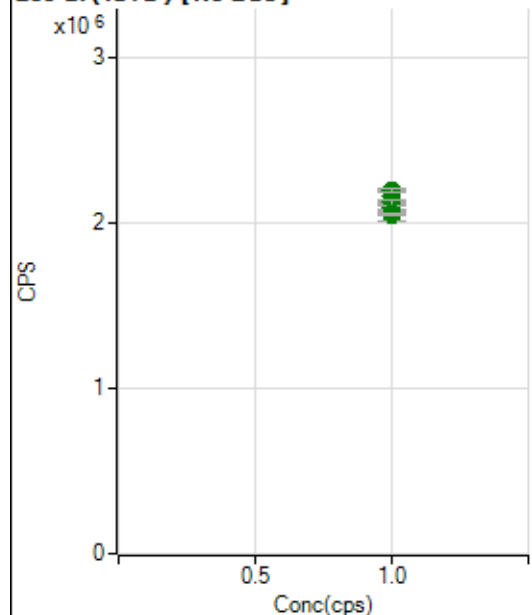
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1688255.18		A	1.7
2	☐	1.000		1679403.41		A	2.5
3	☐	1.000		1669134.64		A	1.5
4	☐	1.000		1669665.95		A	1.5
5	☐	1.000		1693868.34		A	1.5
6	☐	1.000		1701522.28		A	1.9
7	☐	1.000		1726264.33		A	1.3
8	☐	1.000		1751750.72		A	1.9

165 Ho (ISTD) [No Gas]

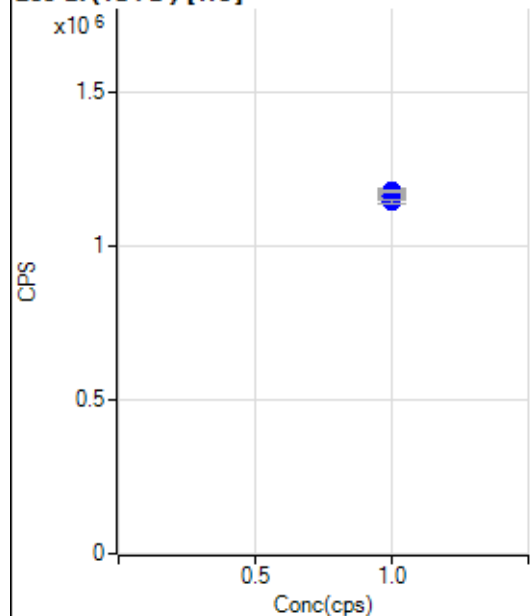
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3640368.92		A	1.6
2	☐	1.000		3607985.41		A	3.6
3	☐	1.000		3610672.26		A	2.4
4	☐	1.000		3768174.61		A	2.3
5	☐	1.000		3822835.07		A	0.1
6	☐	1.000		3769274.04		A	0.3
7	☐	1.000		3773795.31		A	2.2
8	☐	1.000		3805520.31		A	1.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1708429.12		A	2.4
2	☐	1.000		1689080.50		A	1.9
3	☐	1.000		1655507.23		A	0.9
4	☐	1.000		1683636.05		A	0.7
5	☐	1.000		1722010.42		A	2.4
6	☐	1.000		1713701.74		A	1.9
7	☐	1.000		1743629.29		A	0.7
8	☐	1.000		1762642.18		A	1.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2101550.84		A	2.2
2	☐	1.000		2099069.57		A	3.6
3	☐	1.000		2049850.21		A	3.5
4	☐	1.000		2164282.36		A	3.2
5	☐	1.000		2196494.65		A	0.9
6	☐	1.000		2124252.73		A	0.8
7	☐	1.000		2128173.14		A	1.9
8	☐	1.000		2057972.14		A	0.8

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1156081.62		P	1.0
2	☐	1.000		1152325.33		P	2.3
3	☐	1.000		1146372.01		P	1.5
4	☐	1.000		1157907.54		P	0.2
5	☐	1.000		1180129.91		P	1.9
6	☐	1.000		1161111.23		P	2.3
7	☐	1.000		1177003.83		P	0.4
8	☐	1.000		1145180.20		P	0.7

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8120320 MS.b
Acq. Date-Time 2020-12-03 13:46:14
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		2402	24016.19			1.546	5.000
24		31943	319427.39			1.640	5.000
25		4286	42864.05			1.560	5.000
26		4779	47792.30			1.532	5.000
59		17612	176123.25			1.295	5.000
113		2787	27873.66			1.798	5.000
115		8845	88452.18			2.268	5.000
206		2840	28398.02			1.986	5.000
207		2386	23863.60			2.119	5.000
208		5858	58580.84			2.092	5.000
220		1	9.20			17.442	

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

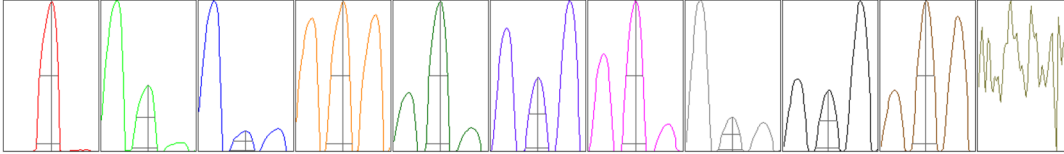
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2416	2410	2441	2401	2341
24	31929	32160	32400	32171	31054
25	4313	4289	4350	4306	4174
26	4811	4829	4793	4814	4650
59	17700	17553	17755	17812	17242
113	2776	2781	2812	2852	2716
115	9002	8888	8919	8922	8494
206	2801	2834	2922	2863	2778
207	2363	2376	2447	2426	2321
208	5809	5814	6024	5935	5709

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	4386.53	9.05	8.90 - 9.10	
24	56727.23	24.00	23.90 - 24.10	
25	7427.83	25.00	24.90 - 25.10	
26	8413.70	26.00	25.90 - 26.10	
59	32444.92	59.00	58.90 - 59.10	
113	5514.49	113.00	112.90 - 113.10	
115	17387.66	115.05	114.90 - 115.10	
206	5371.56	206.00	205.90 - 206.10	
207	4492.34	206.95	206.90 - 207.10	
208	11177.98	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.739	0.900	
24	0.59	0.786	0.900	
25	0.61	0.783	0.900	
26	0.60	0.819	0.900	
59	0.58	0.739	0.900	
113	0.53	0.731	0.900	
115	0.52	0.760	0.900	
206	0.55	0.768	0.900	
207	0.55	0.762	0.900	
208	0.55	0.776	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.46 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	10.1 V	Deflect	15.4 V
Extract 2	-215.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-105 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	0.9991	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.6 mm
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EM

Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1331 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4173	41731.50			1.344	
89		9472	94724.61			1.102	
205		7185	71854.55			2.151	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4162	4183	4086	4237	4199
89	9498	9486	9299	9583	9496
205	7273	7130	6967	7377	7180

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.46 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	10.1 V	Deflect	4.6 V
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US EPA Tune Check Report

Extract 2	-215.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-105 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	0.9991	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	0.8 mm	Torch V	-0.6 mm		
EM					
Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1331 V