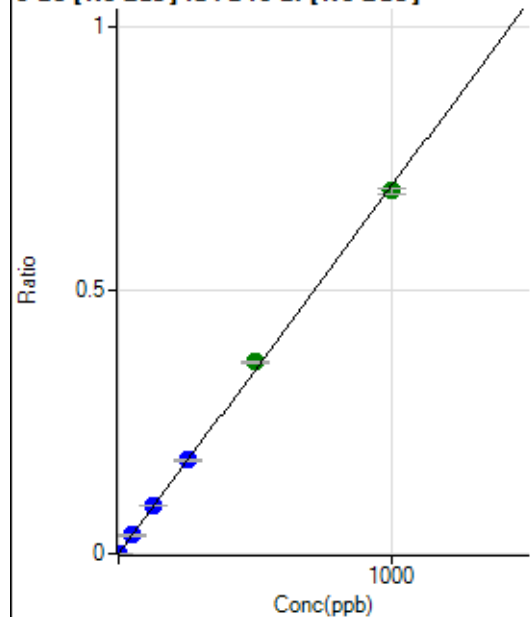


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8122322MS.b\
Analysis File: P8122322MS.batch.bin
DA Date-Time: 2022-12-23 17:21:28
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	002CALB.d	S00	2022-12-23 15:55:57
2	005CALS.d	S02	2022-12-23 16:05:29
3	006CALS.d	S03	2022-12-23 16:08:41
4	007CALS.d	S04	2022-12-23 16:11:47
5	008CALS.d	S05	2022-12-23 16:14:55
6	009CALS.d	S06	2022-12-23 16:18:02
7	010CALS.d	S07	2022-12-23 16:21:10
8	011CALS.d	S08	2022-12-23 16:24:16

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70.41	0.0000	P	12.1
2	☐	1.000	1.036	2709.09	0.0007	P	2.5
3	☐	50.000	50.149	131606.37	0.0351	P	5.4
4	☐	125.000	131.004	336583.60	0.0916	P	2.5
5	☐	250.000	254.347	654955.36	0.1778	P	2.2
6	☐	500.000	522.446	1315716.79	0.3651	A	0.8
7	☐	1000.000	986.932	2473793.75	0.6897	A	1.4
8	☐			1215.76	0.0004	P	27.2

$$y = 6.9881E-004 * x + 2.0252E-005$$

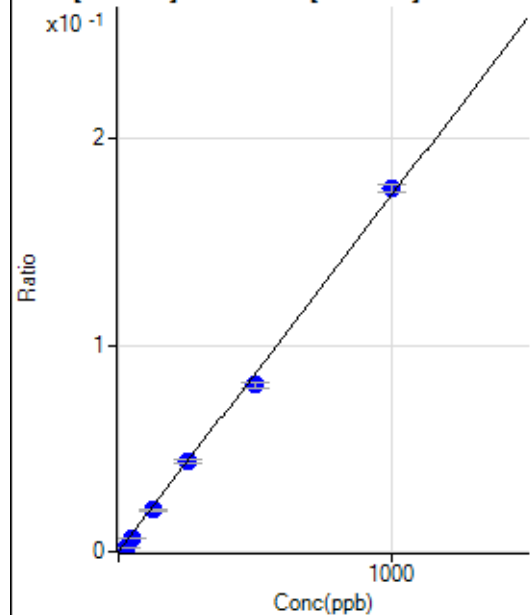
$$R = 0.9996$$

$$DL = 0.01048$$

$$BEC = 0.02898$$

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	285.28	0.0001	P	4.1
2	☐	25.000	12.544	8189.36	0.0022	P	5.2
3	☐	50.000	37.974	24936.86	0.0066	P	4.4
4	☐	125.000	116.202	74051.86	0.0201	P	6.2
5	☐	250.000	251.379	160223.06	0.0435	P	3.9
6	☐	500.000	466.880	290668.18	0.0807	P	3.9
7	☐	1000.000	1018.228	630908.36	0.1759	P	2.2
8	☐			44003.92	0.0130	P	10.6

$$y = 1.7266E-004 * x + 8.1800E-005$$

$$R = 0.9992$$

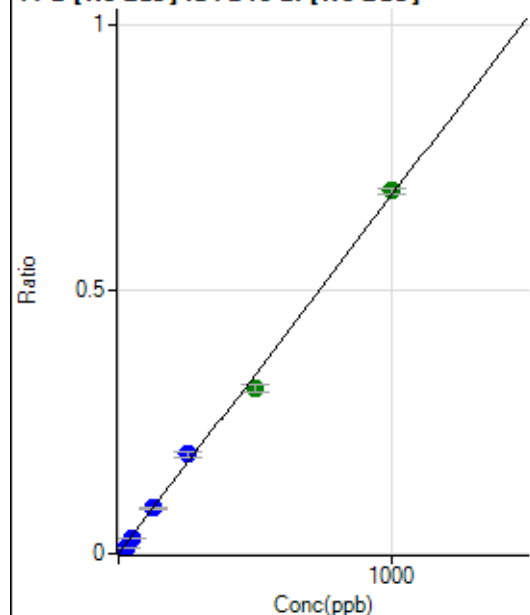
$$DL = 0.05763$$

$$BEC = 0.4738$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1174.48	0.0003	P	8.1
2	☐	25.000	13.588	34751.45	0.0095	P	2.7
3	☐	50.000	42.679	109842.92	0.0292	P	5.3
4	☐	125.000	126.657	316626.88	0.0861	P	4.1
5	☐	250.000	277.414	693656.00	0.1882	P	4.9
6	☐	500.000	461.994	1128288.27	0.3132	A	4.9
7	☐	1000.000	1012.594	2461271.81	0.6861	A	1.5
8	☐			189944.82	0.0562	P	9.9

$$y = 6.7728E-004 * x + 3.3744E-004$$

$$R = 0.9984$$

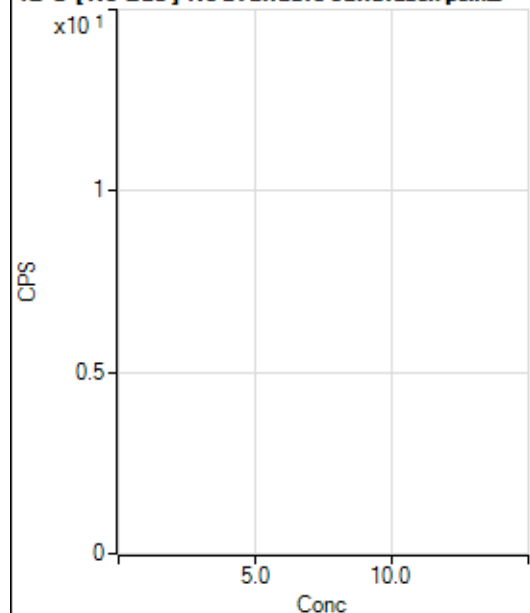
$$DL = 0.1216$$

$$BEC = 0.4982$$

Weight: <None>

Min Conc: 0

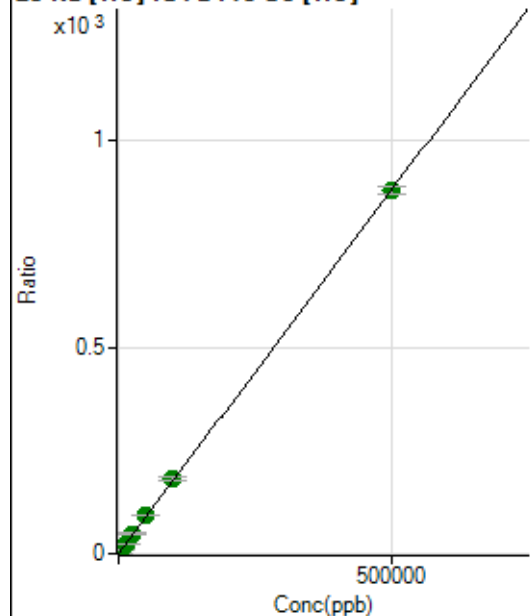
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			4710590.60		A	1.0
2	☐			4616035.04		A	1.3
3	☐			5288959.45		A	1.3
4	☐			5612991.19		A	0.3
5	☐			5231043.43		A	2.0
6	☐			5411632.54		A	1.0
7	☐			5835189.89		A	0.7
8	☐			4932621.16		A	1.9

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			55932.20		P	1.3
2	☐			54894.67		P	0.5
3	☐			63816.53		P	0.9
4	☐			67823.78		P	0.9
5	☐			63822.67		P	1.4
6	☐			68437.61		P	2.8
7	☐			71566.01		P	2.4
8	☐			64740.08		P	1.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16684.88	0.1298	P	0.5
2	☐	500.000	481.235	125805.85	0.9763	P	0.9
3	☐	5000.000	5409.313	1234971.50	9.6450	A	3.8
4	☐	12500.000	13417.078	3185444.10	23.7310	A	0.9
5	☐	25000.000	27244.289	6169884.34	48.0538	A	7.1
6	☐	50000.000	52676.964	12474801.41	92.7911	A	2.4
7	☐	100000.00	102895.65	24658425.20	181.1281	A	5.2
8	☐	500000.00	499013.95	117440580.4	877.9192	A	2.0

$$y = 0.0018 * x + 0.1298$$

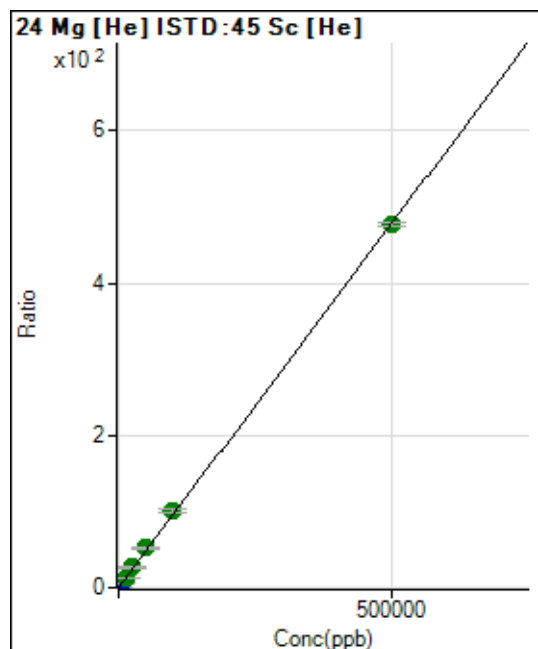
$$R = 1.0000$$

$$DL = 1.041$$

$$BEC = 73.77$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	238.90	0.0019	P	0.9
2	☐	500.000	494.310	61115.34	0.4743	P	2.4
3	☐	5000.000	5581.474	683229.38	5.3365	P	4.0
4	☐	12500.000	14043.177	1801935.59	13.4239	A	2.0
5	☐	25000.000	28105.251	3451092.22	26.8640	A	5.7
6	☐	50000.000	54224.805	6967894.86	51.8283	A	2.0
7	☐	100000.00	104823.90	13638239.54	100.1895	A	4.7
8	☐	500000.00	498413.08	63727575.73	476.3704	A	1.2

$$y = 9.5577\text{E-}004 * x + 0.0019$$

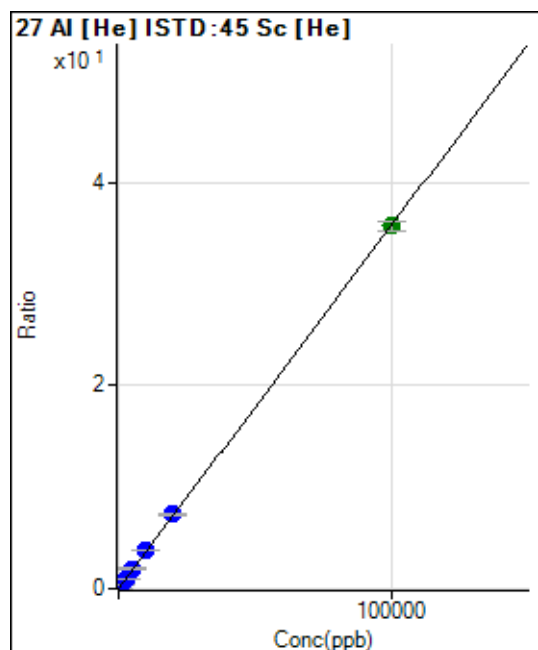
$$R = 0.9999$$

$$DL = 0.05196$$

$$BEC = 1.944$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	47.49	0.0004	P	11.9
2	☐	20.000	20.303	982.83	0.0076	P	1.8
3	☐	1000.000	1064.429	48769.62	0.3809	P	3.4
4	☐	2500.000	2661.276	127752.88	0.9517	P	1.6
5	☐	5000.000	5429.559	249395.47	1.9414	P	5.7
6	☐	10000.000	10557.975	507487.26	3.7747	P	1.8
7	☐	20000.000	20443.568	995220.84	7.3087	P	3.6
8	☐	100000.00	99829.335	4774511.01	35.6880	A	2.4

$$y = 3.5749\text{E-}004 * x + 3.6954\text{E-}004$$

$$R = 1.0000$$

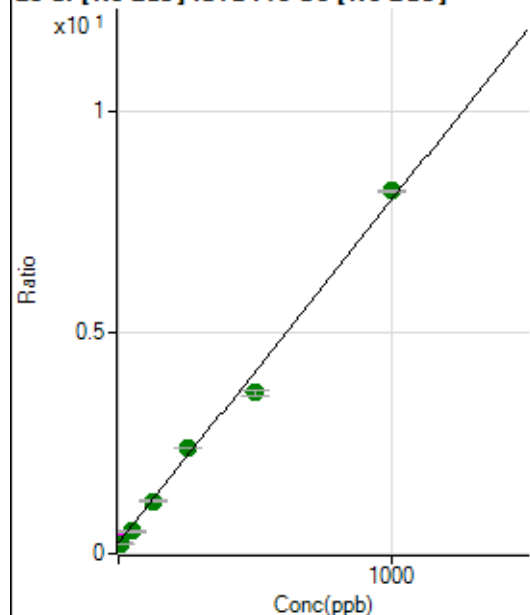
$$DL = 0.3704$$

$$BEC = 1.034$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	877683.57	0.2490	M	7.9
2	☐	10.000	-1.613	905315.77	0.2365	A	0.5
3	☐	50.000	32.944	1985148.24	0.5042	A	3.7
4	☐	125.000	120.279	4440823.84	1.1807	A	3.7
5	☐	250.000	275.771	9140814.53	2.3852	A	1.2
6	☐	500.000	436.551	14000574.45	3.6307	A	2.4
7	☐	1000.000	1026.841	31975553.49	8.2032	A	0.6
8	☐			1119726.85	0.3007	A	0.8

$$y = 0.0077 * x + 0.2490$$

$$R = 0.9967$$

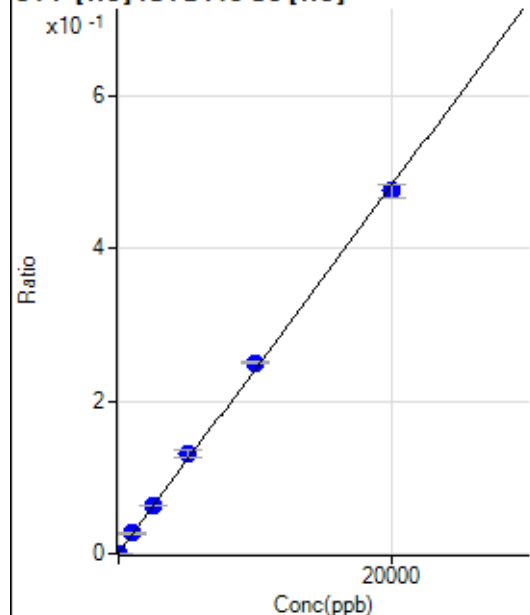
$$DL = 7.582$$

$$BEC = 32.15$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-7.071	105.56	0.0008	P	46.1
2	☐	0.000	7.071	150.01	0.0012	P	0.6
3	☐	1000.000	1070.107	3428.28	0.0268	P	4.3
4	☐	2500.000	2589.286	8499.95	0.0633	P	2.8
5	☐	5000.000	5414.717	16863.06	0.1313	P	7.0
6	☐	10000.000	10338.553	33592.34	0.2499	P	0.8
7	☐	20000.000	19712.378	64739.52	0.4755	P	3.8
8	☐			177.78	0.0013	P	20.1

$$y = 2.4072E-005 * x + 9.9393E-004$$

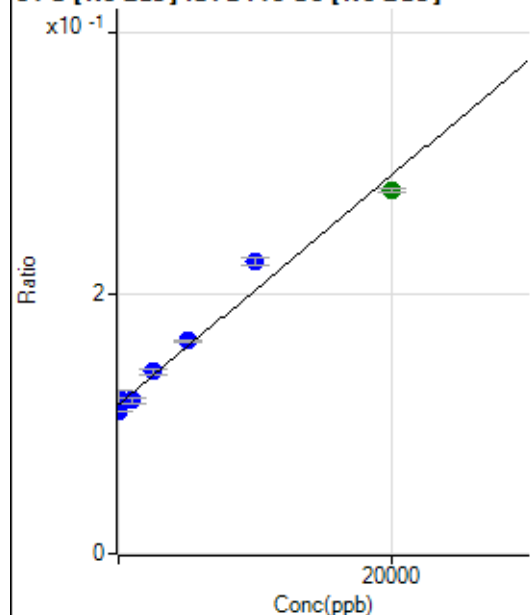
$$R = 0.9995$$

$$DL = 24.07$$

$$BEC = 41.29$$

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	571.151	421617.04	0.1197	P	8.7
2	☐	0.000	-571.151	419599.20	0.1096	P	0.4
3	☐	1000.000	320.549	462398.47	0.1175	P	4.4
4	☐	2500.000	2835.344	525170.89	0.1396	P	2.9
5	☐	5000.000	5567.349	627191.28	0.1637	P	1.2
6	☐	10000.000	12440.752	864427.08	0.2242	P	2.3
7	☐	20000.000	18629.842	1086094.65	0.2787	A	1.0
8	☐			388104.18	0.1042	P	1.5

$$y = 8.8031\text{E-}006 * x + 0.1147$$

$$R = 0.9857$$

$$DL = 1849$$

$$BEC = 1.302\text{E}+04$$

Weight: <None>

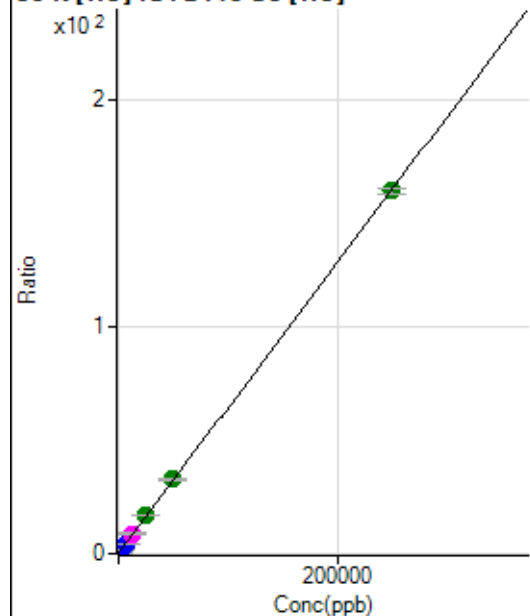
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			182842.02		P	1.5
2	☐			198155.94		P	0.5
3	☐			223491.64		P	1.1
4	☐			234316.23		P	1.0
5	☐			226682.36		P	0.7
6	☐			242624.60		P	0.4
7	☐			237870.01		P	0.7
8	☐			238443.45		P	0.9

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1280.65		P	4.6
2	☐			1311.20		P	4.9
3	☐			1622.36		P	5.7
4	☐			1752.93		P	2.4
5	☐			1547.35		P	11.2
6	☐			1791.81		P	9.8
7	☐			1736.26		P	10.1
8	☐			1777.94		P	4.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	21789.26	0.1695	P	0.8
2	☐	500.000	464.198	60184.51	0.4670	P	0.5
3	☐	2500.000	2590.744	234423.31	1.8303	P	2.9
4	☐	6250.000	6469.182	579417.80	4.3166	P	1.0
5	☐	12500.000	13358.907	1121706.50	8.7332	M	6.6
6	☐	25000.000	26431.344	2300968.67	17.1134	A	2.9
7	☐	50000.000	51096.725	4483706.39	32.9252	A	3.3
8	☐	250000.00	249588.26	21427776.69	160.1690	A	1.5

$$y = 6.4105E-004 * x + 0.1695$$

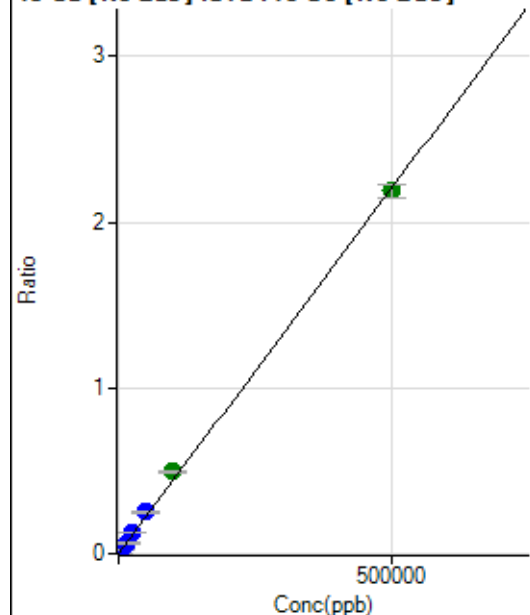
$$R = 1.0000$$

$$DL = 5.994$$

$$BEC = 264.4$$

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	134.98	0.0000	P	3.8
2	☐	500.000	451.303	7756.97	0.0020	P	0.9
3	☐	5000.000	5341.415	92789.53	0.0236	P	4.4
4	☐	12500.000	14440.010	239457.12	0.0637	P	3.5
5	☐	25000.000	28032.523	473485.48	0.1236	P	1.5
6	☐	50000.000	56718.563	963957.73	0.2500	P	1.6
7	☐	100000.00	112213.51	1927362.42	0.4945	A	2.2
8	☐	500000.00	496681.95	8147865.80	2.1885	A	3.6

$$y = 4.4062\text{E-}006 * x + 3.8118\text{E-}005$$

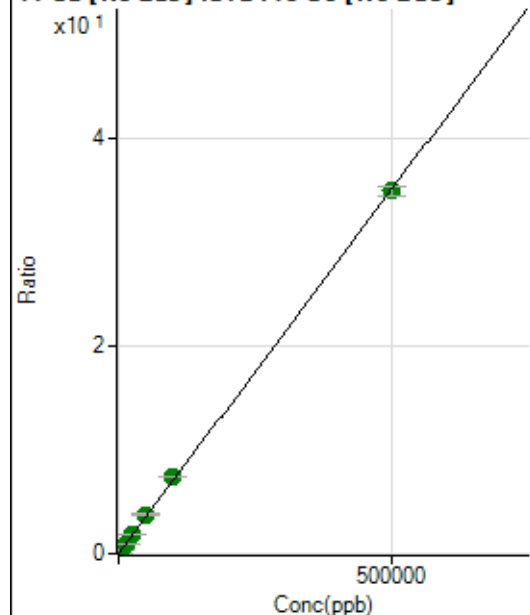
$$R = 0.9996$$

$$DL = 0.994$$

$$BEC = 8.651$$

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	11341.47	0.0032	P	7.4
2	☐	500.000	452.861	133696.34	0.0349	P	0.5
3	☐	5000.000	5084.313	1413604.30	0.3593	A	6.0
4	☐	12500.000	13760.661	3636854.51	0.9669	A	3.1
5	☐	25000.000	26397.254	7097688.84	1.8518	A	1.9
6	☐	50000.000	54093.120	14621337.67	3.7913	A	1.4
7	☐	100000.00	105733.26	28872978.43	7.4076	A	0.4
8	☐	500000.00	498341.85	129950505.5	34.9014	A	2.9

$$y = 7.0029\text{E-}005 * x + 0.0032$$

$$R = 0.9999$$

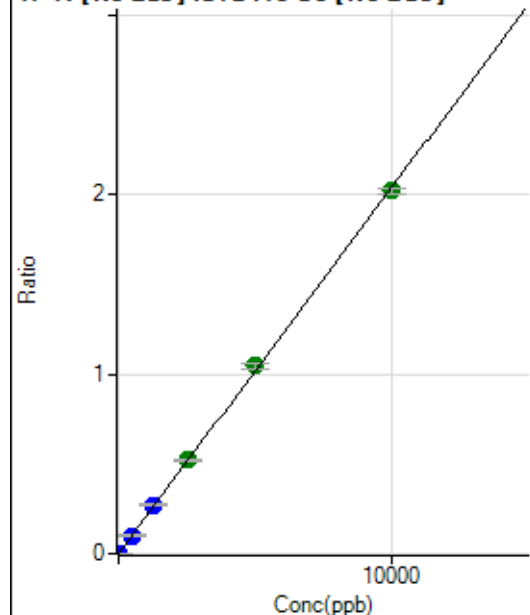
$$DL = 10.26$$

$$BEC = 45.94$$

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	255.56	0.0001	P	9.9
2	☐	5.000	4.666	3914.52	0.0010	P	7.1
3	☐	500.000	492.132	394586.48	0.1003	P	6.2
4	☐	1250.000	1328.826	1018318.06	0.2707	P	2.3
5	☐	2500.000	2549.340	1990130.88	0.5192	A	1.4
6	☐	5000.000	5125.242	4025118.40	1.0438	A	2.6
7	☐	10000.000	9915.584	7870594.71	2.0194	A	1.6
8	☐			4857.01	0.0013	P	16.8

$$y = 2.0365E-004 * x + 7.2585E-005$$

R = 0.9998

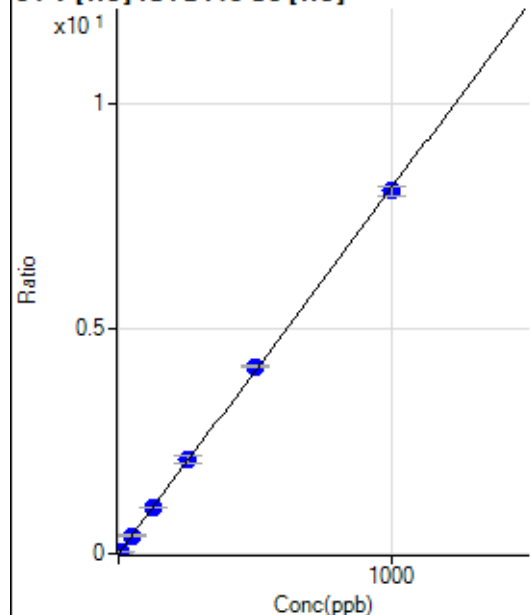
DL = 0.1054

BEC = 0.3564

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	10.00	0.0001	P	33.1
2	☐	5.000	4.620	4858.65	0.0377	P	2.4
3	☐	50.000	49.554	51676.52	0.4037	P	4.5
4	☐	125.000	125.928	137674.11	1.0257	P	0.5
5	☐	250.000	258.121	269929.47	2.1023	P	6.9
6	☐	500.000	511.879	560467.68	4.1689	P	1.6
7	☐	1000.000	991.939	1100327.83	8.0786	P	2.7
8	☐			391.12	0.0029	P	12.9

$$y = 0.0081 * x + 7.7772E-005$$

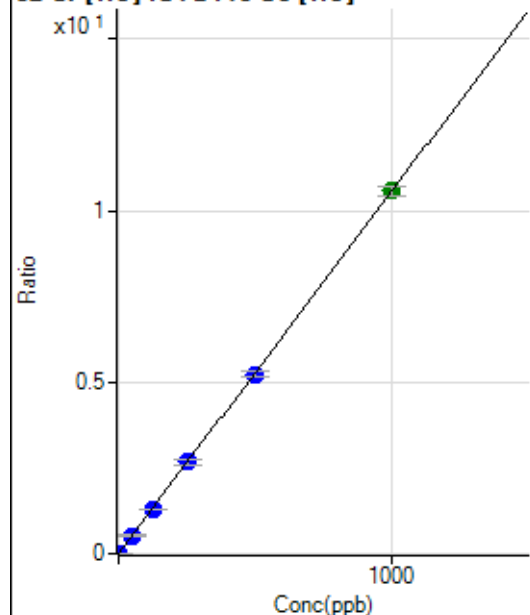
R = 0.9998

DL = 0.009471

BEC = 0.009549

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	448.90	0.0035	P	12.0
2	☐	2.000	1.774	2860.31	0.0222	P	2.8
3	☐	50.000	50.103	68109.74	0.5320	P	4.5
4	☐	125.000	123.257	174988.33	1.3036	P	0.6
5	☐	250.000	251.999	341861.45	2.6616	P	6.1
6	☐	500.000	495.935	703747.83	5.2347	P	2.3
7	☐	1000.000	1001.746	1439865.12	10.5701	A	2.9
8	☐			9386.49	0.0702	P	2.2

$$y = 0.0105 * x + 0.0035$$

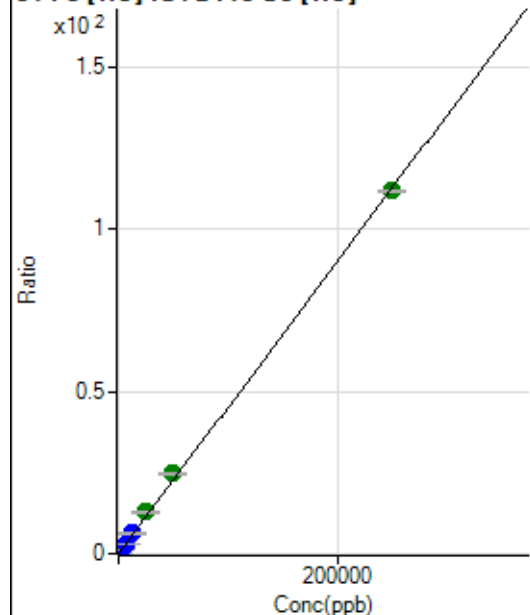
$$R = 1.0000$$

$$DL = 0.119$$

$$BEC = 0.3308$$

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	666.69	0.0052	P	13.1
2	☐	50.000	50.226	3574.59	0.0277	P	4.0
3	☐	2500.000	2722.848	157224.66	1.2280	P	3.4
4	☐	6250.000	6751.973	407721.17	3.0374	P	2.3
5	☐	12500.000	13930.108	804221.54	6.2610	P	6.3
6	☐	25000.000	28396.039	1715161.27	12.7575	A	1.2
7	☐	50000.000	54703.672	3346499.18	24.5720	A	2.6
8	☐	250000.00	248633.37	14939760.06	111.6638	A	0.7

$$y = 4.4909E-004 * x + 0.0052$$

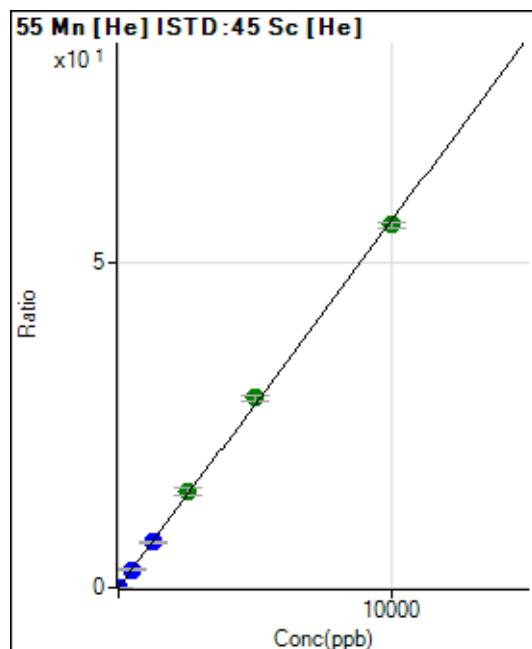
$$R = 0.9997$$

$$DL = 4.527$$

$$BEC = 11.54$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	206.67	0.0016	P	8.8
2	☐	1.000	0.960	904.48	0.0070	P	7.9
3	☐	500.000	496.943	358855.38	2.8024	P	2.3
4	☐	1250.000	1235.325	934776.11	6.9639	P	1.6
5	☐	2500.000	2642.338	1911841.98	14.8939	A	7.9
6	☐	5000.000	5163.098	3912904.97	29.1010	A	2.6
7	☐	10000.000	9884.854	7590097.73	55.7130	A	1.4
8	☐			8438.13	0.0631	P	3.2

$$y = 0.0056 * x + 0.0016$$

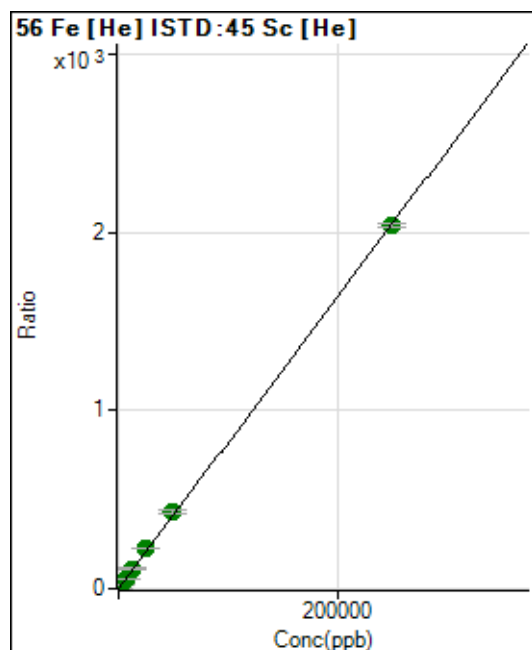
$$R = 0.9997$$

$$DL = 0.07506$$

$$BEC = 0.2852$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4052.49	0.0315	P	3.9
2	☐	50.000	46.913	53489.36	0.4151	P	2.0
3	☐	2500.000	2740.939	2873541.85	22.4423	A	3.8
4	☐	6250.000	6801.253	7468590.97	55.6408	A	1.8
5	☐	12500.000	13848.830	14553735.51	113.2640	A	5.8
6	☐	25000.000	27423.623	30150361.55	224.2559	A	0.9
7	☐	50000.000	52837.241	58845187.89	432.0458	A	3.5
8	☐	250000.00	249106.55	272481735.7	2,036.807	A	1.0

$$y = 0.0082 * x + 0.0315$$

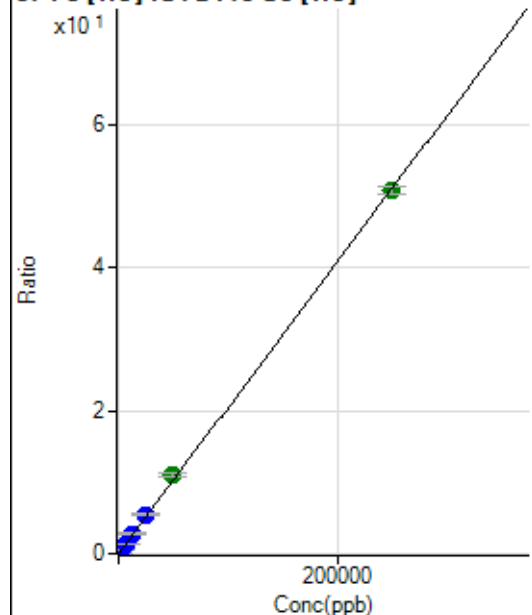
$$R = 0.9999$$

$$DL = 0.4516$$

$$BEC = 3.856$$

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	250.01	0.0019	P	15.3
2	☐	50.000	50.187	1570.48	0.0122	P	1.5
3	☐	2500.000	2675.036	70174.80	0.5480	P	1.7
4	☐	6250.000	6688.436	183513.30	1.3672	P	0.4
5	☐	12500.000	13624.886	357431.96	2.7830	P	6.5
6	☐	25000.000	26790.332	735478.55	5.4703	P	2.2
7	☐	50000.000	54233.961	1507792.90	11.0719	A	3.0
8	☐	250000.00	248905.21	6796737.48	50.8073	A	2.0

$$y = 2.0412\text{E-}004 * x + 0.0019$$

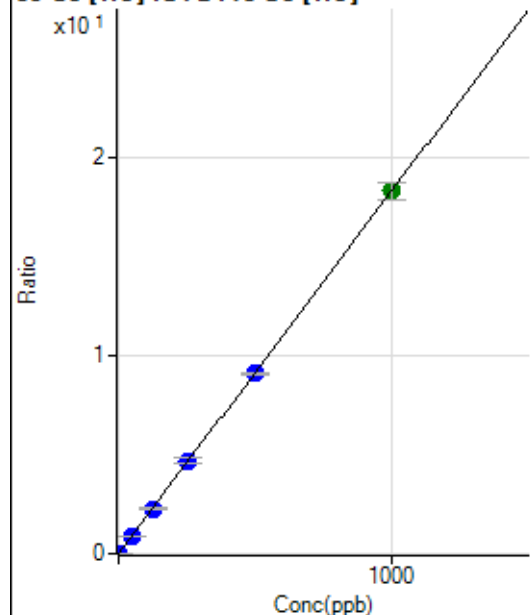
$$R = 0.9998$$

$$DL = 4.361$$

$$BEC = 9.519$$

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	203.34	0.0016	P	7.0
2	☐	1.000	0.878	2276.87	0.0177	P	3.3
3	☐	50.000	49.437	116214.26	0.9076	P	3.1
4	☐	125.000	124.175	305677.26	2.2773	P	1.4
5	☐	250.000	255.678	602056.45	4.6872	P	6.0
6	☐	500.000	495.940	1222097.25	9.0904	P	1.9
7	☐	1000.000	1000.742	2496756.16	18.3416	A	4.5
8	☐			2485.80	0.0186	P	2.7

$$y = 0.0183 * x + 0.0016$$

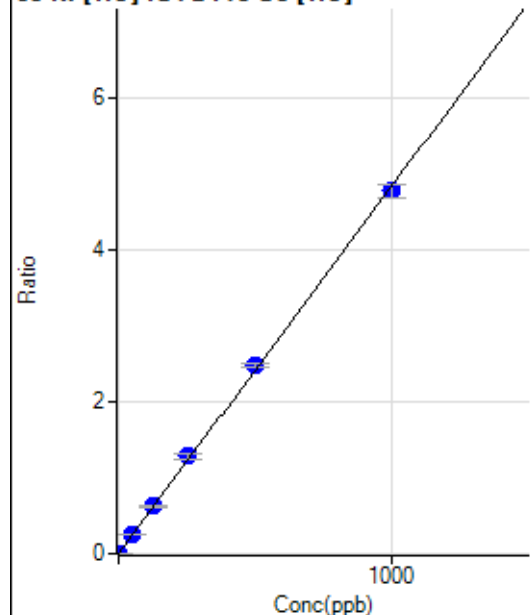
$$R = 1.0000$$

$$DL = 0.01822$$

$$BEC = 0.08634$$

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	76.67	0.0006	P	23.1
2	☐	1.000	0.916	646.69	0.0050	P	10.1
3	☐	50.000	52.058	32246.62	0.2519	P	4.3
4	☐	125.000	128.601	83398.87	0.6213	P	2.9
5	☐	250.000	265.081	164446.71	1.2801	P	5.7
6	☐	500.000	514.879	334217.61	2.4858	P	2.2
7	☐	1000.000	988.237	649558.56	4.7706	P	3.6
8	☐			1827.92	0.0137	P	1.9

$$y = 0.0048 * x + 5.9689E-004$$

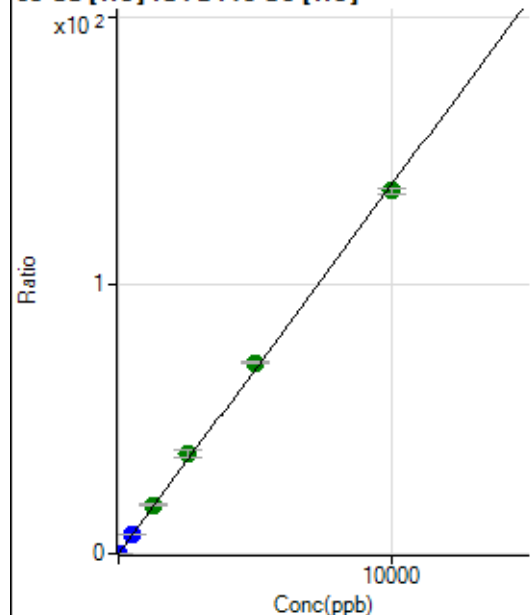
$$R = 0.9997$$

$$DL = 0.08579$$

$$BEC = 0.1237$$

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	1282.29	0.0100	P	7.0
2	☐	2.000	1.727	4337.37	0.0337	P	3.6
3	☐	500.000	510.729	898422.47	7.0169	P	3.3
4	☐	1250.000	1325.477	2442275.64	18.1948	A	2.1
5	☐	2500.000	2734.473	4817255.65	37.5255	A	7.4
6	☐	5000.000	5180.170	9556072.15	71.0791	A	1.1
7	☐	10000.000	9841.325	18397220.70	135.0277	A	1.8
8	☐			6989.57	0.0523	P	9.4

$$y = 0.0137 * x + 0.0100$$

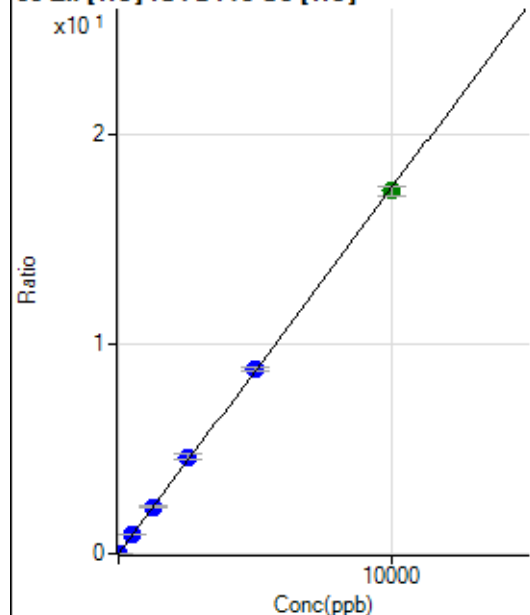
$$R = 0.9994$$

$$DL = 0.1522$$

$$BEC = 0.7267$$

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	273.34	0.0021	P	5.2
2	☐	2.000	1.475	604.46	0.0047	P	3.3
3	☐	500.000	529.980	118354.09	0.9244	P	4.0
4	☐	1250.000	1285.028	300448.81	2.2383	P	2.5
5	☐	2500.000	2650.854	592792.01	4.6151	P	6.0
6	☐	5000.000	5064.226	1185071.49	8.8149	P	1.9
7	☐	10000.000	9924.296	2352319.49	17.2724	A	2.9
8	☐			1611.22	0.0121	P	9.2

$$y = 0.0017 * x + 0.0021$$

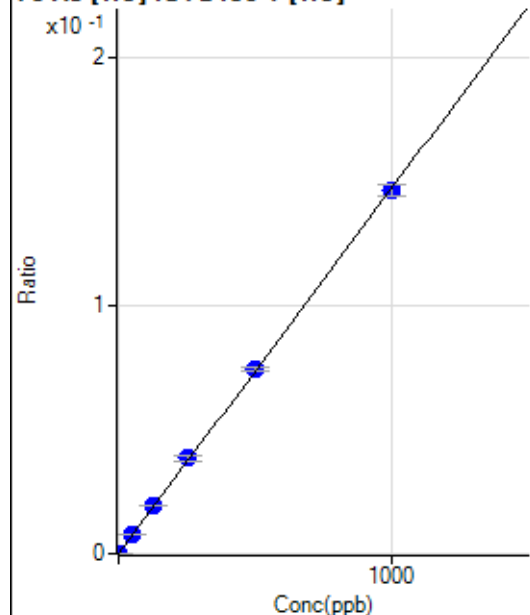
$$R = 0.9998$$

$$DL = 0.1901$$

$$BEC = 1.221$$

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	5.67	0.0000	P	37.9
2	☐	1.000	0.971	137.35	0.0001	P	5.3
3	☐	50.000	51.315	6943.08	0.0076	P	4.0
4	☐	125.000	130.435	18173.82	0.0192	P	0.7
5	☐	250.000	261.069	35548.71	0.0384	P	5.6
6	☐	500.000	505.632	72202.31	0.0744	P	2.1
7	☐	1000.000	993.672	142326.62	0.1462	P	3.1
8	☐			55.34	0.0001	P	21.7

$$y = 1.4715E-004 * x + 6.1999E-006$$

$$R = 0.9999$$

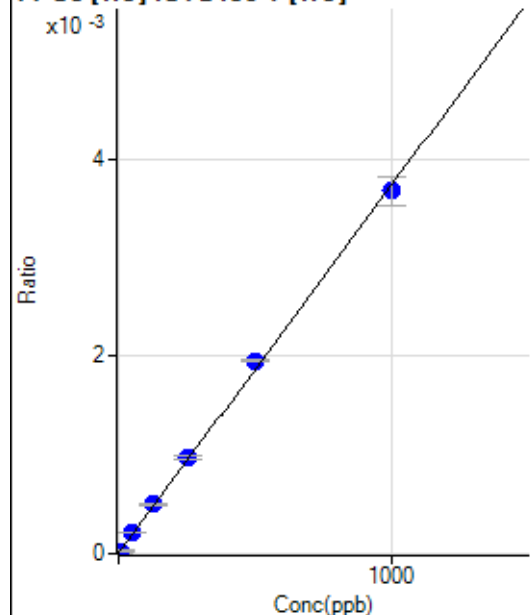
$$DL = 0.04791$$

$$BEC = 0.04213$$

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	3.33	0.0000	P	1.1
2	☐	5.000	5.818	23.33	0.0000	P	37.9
3	☐	50.000	56.018	195.56	0.0002	P	4.2
4	☐	125.000	133.074	473.35	0.0005	P	6.3
5	☐	250.000	260.861	904.48	0.0010	P	3.8
6	☐	500.000	523.011	1896.81	0.0020	P	1.5
7	☐	1000.000	984.465	3578.27	0.0037	P	8.2
8	☐			3.33	0.0000	P	100.

$$y = 3.7309\text{E-}006 * x + 3.6337\text{E-}006$$

$$R = 0.9995$$

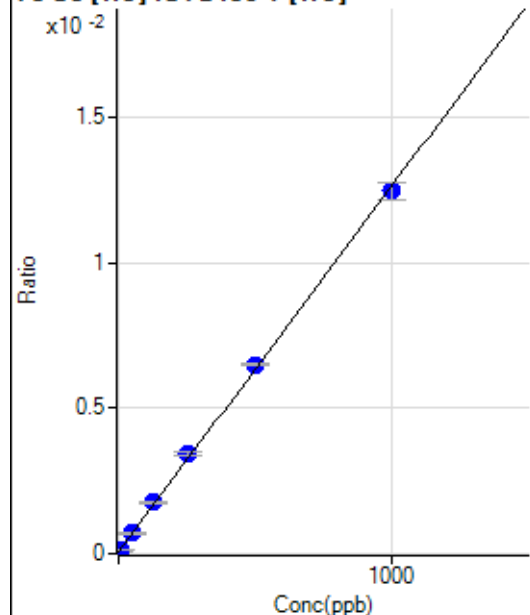
$$DL = 0.03188$$

$$BEC = 0.9739$$

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	58.68	0.0001	P	8.9
2	☐	5.000	4.547	111.68	0.0001	P	10.1
3	☐	50.000	50.539	642.75	0.0007	P	6.7
4	☐	125.000	135.831	1678.61	0.0018	P	2.9
5	☐	250.000	268.686	3191.02	0.0034	P	2.7
6	☐	500.000	512.480	6319.73	0.0065	P	0.9
7	☐	1000.000	987.710	12157.80	0.0125	P	4.4
8	☐			62.68	0.0001	P	9.6

$$y = 1.2583\text{E-}005 * x + 6.4043\text{E-}005$$

$$R = 0.9996$$

$$DL = 1.357$$

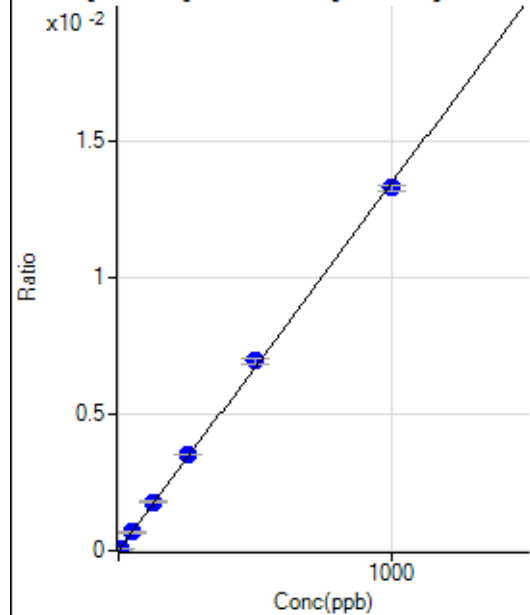
$$BEC = 5.089$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35421.69		P	1.7
2	☐			34689.09		P	3.9
3	☐			34565.63		P	4.1
4	☐			34395.11		P	4.8
5	☐			34735.89		P	1.5
6	☐			32795.85		P	3.1
7	☐			33762.36		P	0.4
8	☐			31558.10		P	1.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	14.58	0.0000	P	71.5
2	☐	5.000	4.896	545.79	0.0001	P	5.7
3	☐	50.000	51.098	5803.51	0.0007	P	5.9
4	☐	125.000	132.592	14750.34	0.0018	P	1.5
5	☐	250.000	261.055	28908.61	0.0035	P	1.4
6	☐	500.000	516.852	58105.68	0.0069	P	2.7
7	☐	1000.000	987.807	111939.26	0.0133	P	1.2
8	☐			175.40	0.0000	P	28.2

$$y = 1.3419\text{E-}005 * x + 1.8952\text{E-}006$$

$$R = 0.9997$$

$$DL = 0.303$$

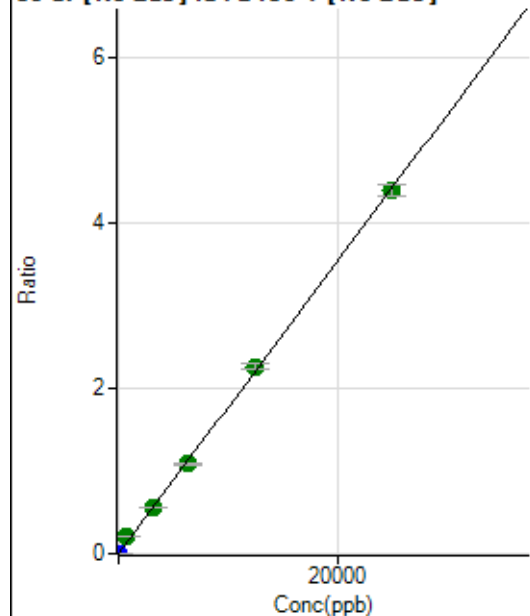
$$BEC = 0.1412$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			260.39		P	6.7
2	☐			266.22		P	6.2
3	☐			246.22		P	3.6
4	☐			243.72		P	7.1
5	☐			245.39		P	7.8
6	☐			272.89		P	3.8
7	☐			280.39		P	2.0
8	☐			305.38		P	8.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	491.69	0.0001	P	16.2
2	☐	1.000	0.989	1930.74	0.0002	P	10.6
3	☐	625.000	1203.446	1791323.41	0.2123	A	6.6
4	☐	3125.000	3127.411	4567799.75	0.5515	A	0.8
5	☐	6250.000	6177.750	8984780.15	1.0894	A	2.0
6	☐	12500.000	12800.721	18903628.37	2.2572	A	3.3
7	☐	25000.000	24852.940	36998536.94	4.3823	A	3.1
8	☐			24041.18	0.0030	P	20.5

$$y = 1.7633E-004 * x + 6.5002E-005$$

$$R = 0.9997$$

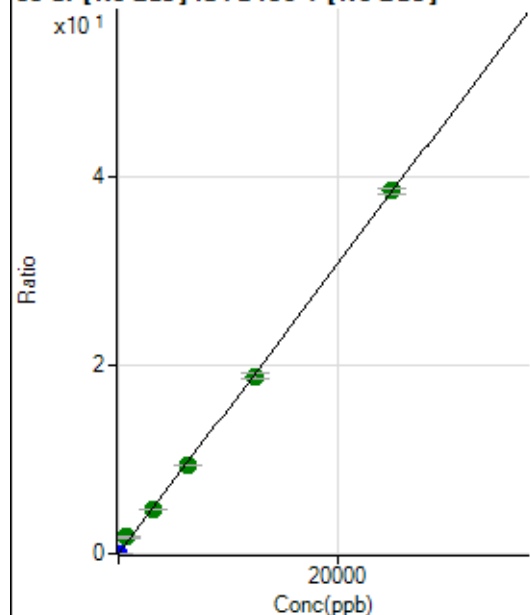
$$DL = 0.1797$$

$$BEC = 0.3686$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	783.38	0.0001	P	13.9
2	☐	1.000	0.905	12069.46	0.0015	P	1.7
3	☐	625.000	1159.202	15040724.64	1.7819	A	5.7
4	☐	3125.000	3096.851	39420335.26	4.7603	A	1.8
5	☐	6250.000	6145.212	77914698.96	9.4460	A	1.4
6	☐	12500.000	12308.916	158469407.7	18.9203	A	2.8
7	☐	25000.000	25111.903	325916882.2	38.5999	A	1.3
8	☐			198107.85	0.0244	P	24.5

$$y = 0.0015 * x + 1.0338E-004$$

$$R = 0.9997$$

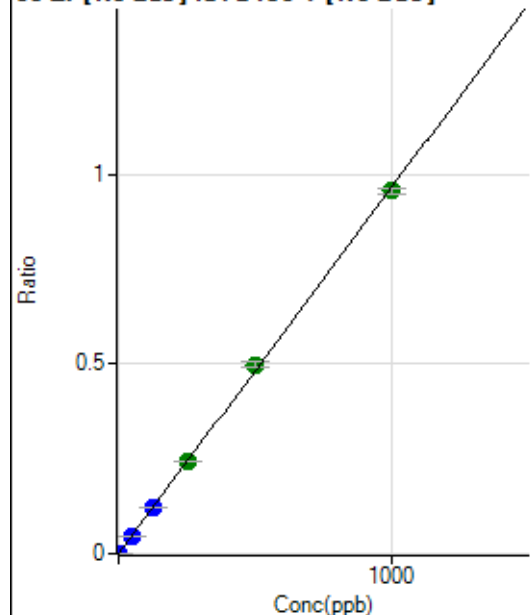
$$DL = 0.02799$$

$$BEC = 0.06725$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	330.57	0.0000	P	16.7
2	☐	1.000	0.910	7443.84	0.0009	P	3.4
3	☐	50.000	46.765	381130.11	0.0451	P	5.2
4	☐	125.000	125.683	1004280.97	0.1213	P	1.3
5	☐	250.000	251.699	2002516.69	0.2428	A	0.5
6	☐	500.000	517.305	4178779.95	0.4989	A	2.9
7	☐	1000.000	991.000	8070273.01	0.9558	A	1.3
8	☐			5151.57	0.0006	P	20.7

$$y = 9.6443E-004 * x + 4.3681E-005$$

$$R = 0.9998$$

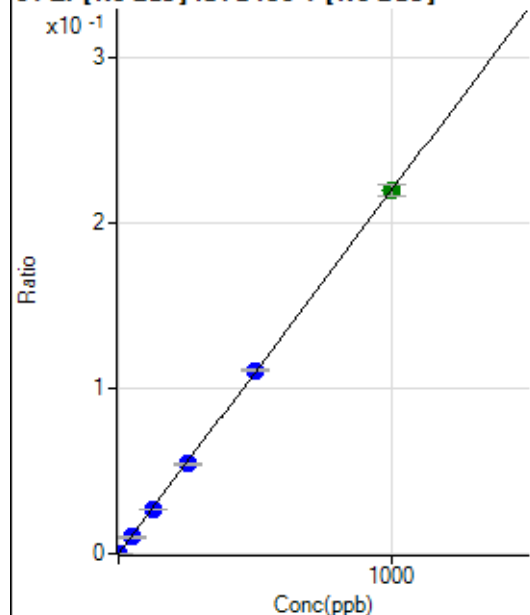
$$DL = 0.02263$$

$$BEC = 0.04529$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	41.67	0.0000	P	59.0
2	☐	1.000	0.823	1505.67	0.0002	P	7.1
3	☐	50.000	46.466	86099.50	0.0102	P	6.8
4	☐	125.000	122.307	222385.53	0.0269	P	0.7
5	☐	250.000	247.191	447505.04	0.0543	P	1.3
6	☐	500.000	505.161	928872.86	0.1109	P	1.6
7	☐	1000.000	998.635	1850579.10	0.2192	A	3.2
8	☐			1072.30	0.0001	P	26.6

$$y = 2.1949\text{E-}004 * x + 5.6018\text{E-}006$$

$$R = 1.0000$$

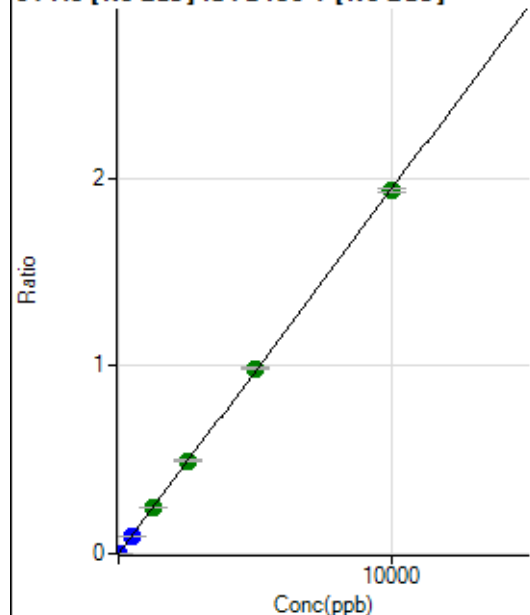
$$DL = 0.04521$$

$$BEC = 0.02552$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	133.34	0.0000	P	9.2
2	☐	5.000	5.381	8577.86	0.0011	P	3.3
3	☐	500.000	473.873	776645.24	0.0920	P	6.7
4	☐	1250.000	1269.489	2042013.52	0.2466	A	1.7
5	☐	2500.000	2540.679	4069363.76	0.4934	A	1.6
6	☐	5000.000	5079.199	8262612.68	0.9864	A	1.7
7	☐	10000.000	9949.101	16315040.12	1.9321	A	1.1
8	☐			10247.42	0.0013	P	19.3

$$y = 1.9420\text{E-}004 * x + 1.7333\text{E-}005$$

$$R = 0.9999$$

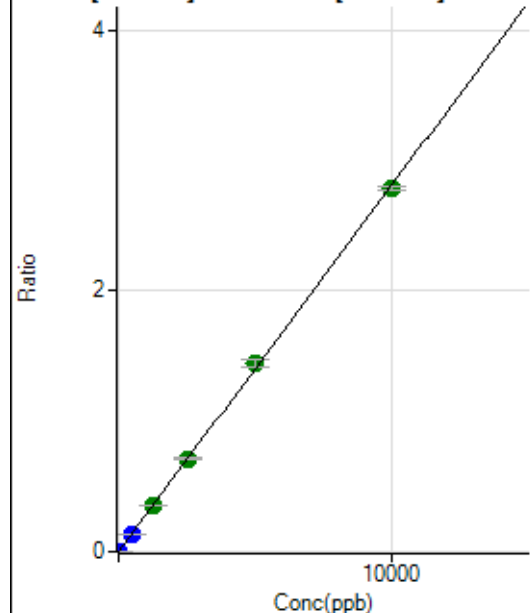
$$DL = 0.02453$$

$$BEC = 0.08925$$

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	69.45	0.0000	P	30.8
2	☐	5.000	4.746	10829.55	0.0013	P	5.0
3	☐	500.000	476.082	1127971.77	0.1337	P	6.5
4	☐	1250.000	1280.981	2978646.66	0.3597	A	0.2
5	☐	2500.000	2531.621	5862095.75	0.7108	A	1.5
6	☐	5000.000	5166.368	12146826.40	1.4505	A	4.1
7	☐	10000.000	9906.234	23483643.93	2.7812	A	1.0
8	☐			14672.91	0.0018	P	21.9

$$y = 2.8076\text{E-}004 * x + 9.1598\text{E-}006$$

$$R = 0.9998$$

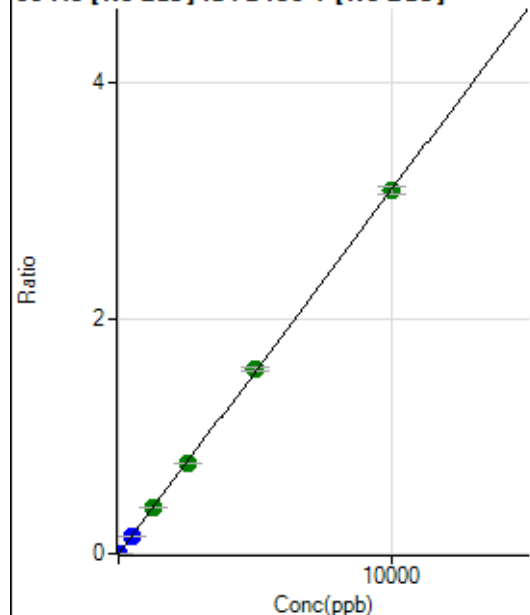
$$DL = 0.03016$$

$$BEC = 0.03263$$

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	186.12	0.0000	P	20.5
2	☐	5.000	4.700	11938.76	0.0015	P	4.3
3	☐	500.000	474.566	1239197.70	0.1468	P	6.1
4	☐	1250.000	1259.295	3226495.56	0.3896	A	1.3
5	☐	2500.000	2493.041	6360617.33	0.7713	A	1.3
6	☐	5000.000	5061.711	13116720.43	1.5659	A	1.8
7	☐	10000.000	9970.994	26043746.93	3.0846	A	2.3
8	☐			23804.78	0.0029	P	14.4

$$y = 3.0935\text{E-}004 * x + 2.4508\text{E-}005$$

$$R = 1.0000$$

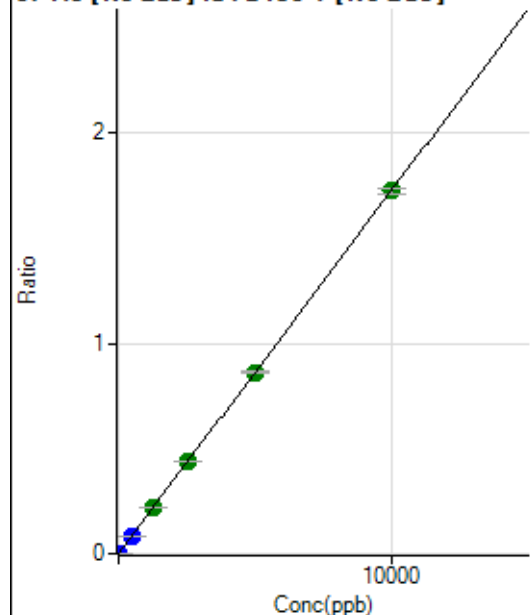
$$DL = 0.04864$$

$$BEC = 0.07922$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	30.56	0.0000	P	24.4
2	☐	5.000	4.580	6418.33	0.0008	P	2.8
3	☐	500.000	477.135	695564.81	0.0824	P	5.5
4	☐	1250.000	1256.331	1796890.38	0.2170	A	1.8
5	☐	2500.000	2537.548	3613905.29	0.4382	A	1.4
6	☐	5000.000	5001.569	7235205.19	0.8637	A	1.2
7	☐	10000.000	9990.180	14566562.30	1.7252	A	1.3
8	☐			9218.55	0.0011	P	23.5

$$y = 1.7269\text{E-}004 * x + 3.9644\text{E-}006$$

$$R = 1.0000$$

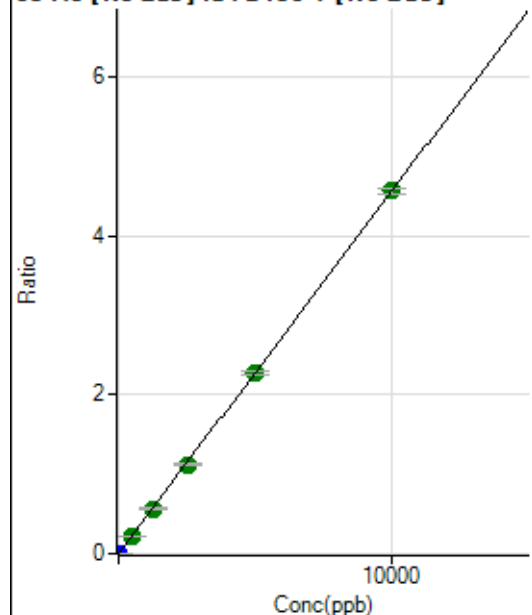
$$DL = 0.01682$$

$$BEC = 0.02296$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	105.56	0.0000	P	21.4
2	☐	5.000	4.482	16596.47	0.0021	P	3.5
3	☐	500.000	472.861	1817981.77	0.2153	A	5.0
4	☐	1250.000	1247.058	4701903.49	0.5679	A	3.6
5	☐	2500.000	2462.891	9249179.46	1.1215	A	2.0
6	☐	5000.000	4986.774	19019908.06	2.2707	A	2.1
7	☐	10000.000	10017.615	38515069.96	4.5615	A	1.5
8	☐			22878.70	0.0028	P	18.6

$$y = 4.5534\text{E-}004 * x + 1.3817\text{E-}005$$

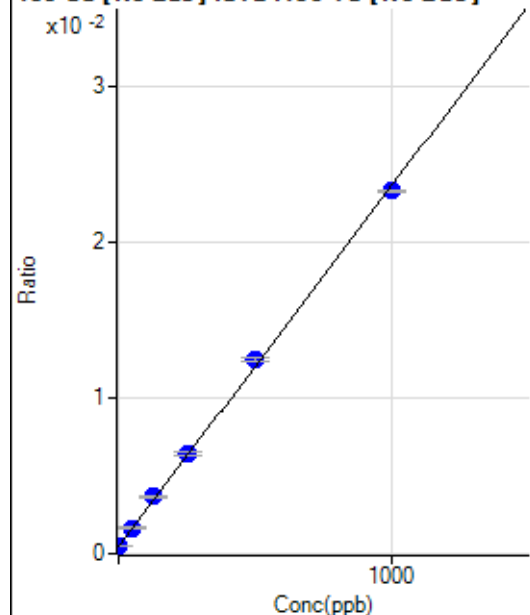
$$R = 1.0000$$

$$DL = 0.01944$$

$$BEC = 0.03034$$

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	2455.85	0.0005	P	5.8
2	☐	1.000	2.406	2930.94	0.0005	P	7.6
3	☐	50.000	50.688	9734.23	0.0016	P	5.6
4	☐	125.000	138.000	20529.59	0.0037	P	1.5
5	☐	250.000	259.515	37593.70	0.0065	P	3.6
6	☐	500.000	519.415	73301.29	0.0125	P	1.6
7	☐	1000.000	986.253	138788.84	0.0233	P	0.3
8	☐			3044.87	0.0005	P	3.9

$$y = 2.3179\text{E-}005 * x + 4.6039\text{E-}004$$

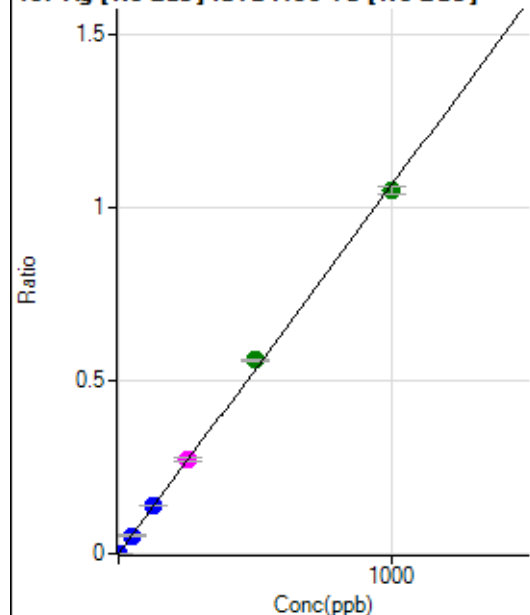
$$R = 0.9996$$

$$DL = 3.477$$

$$BEC = 19.86$$

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	32.7
2	☐	1.000	0.967	5926.44	0.0010	P	6.6
3	☐	50.000	48.495	307290.03	0.0516	P	5.6
4	☐	125.000	132.666	792154.55	0.1412	P	0.6
5	☐	250.000	255.999	1581989.00	0.2724	M	3.8
6	☐	500.000	525.383	3278808.26	0.5591	A	1.6
7	☐	1000.000	984.926	6237318.28	1.0481	A	2.2
8	☐			4423.07	0.0008	P	8.1

$$y = 0.0011 * x + 1.3863\text{E-}005$$

$$R = 0.9995$$

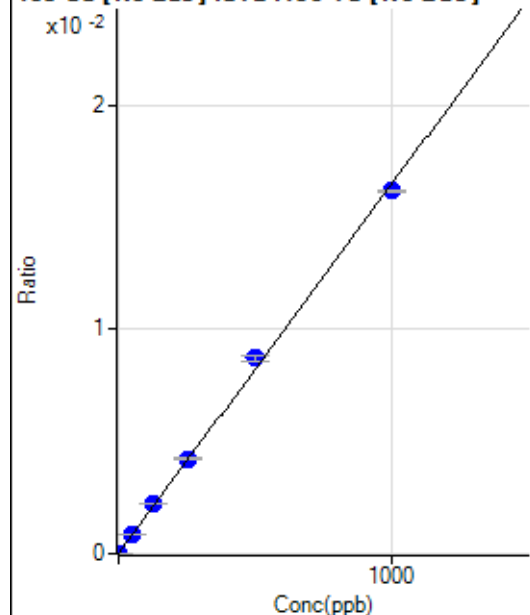
$$DL = 0.01277$$

$$BEC = 0.01303$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	25.00	0.0000	P	45.2
2	☐	1.000	1.002	120.83	0.0000	P	14.7
3	☐	50.000	50.849	5014.87	0.0008	P	4.8
4	☐	125.000	134.988	12498.89	0.0022	P	2.3
5	☐	250.000	257.424	24644.46	0.0042	P	0.8
6	☐	500.000	528.755	51087.62	0.0087	P	2.9
7	☐	1000.000	982.476	96316.48	0.0162	P	0.4
8	☐			101.39	0.0000	P	31.5

$$y = 1.6468\text{E-}005 * x + 4.7480\text{E-}006$$

$$R = 0.9993$$

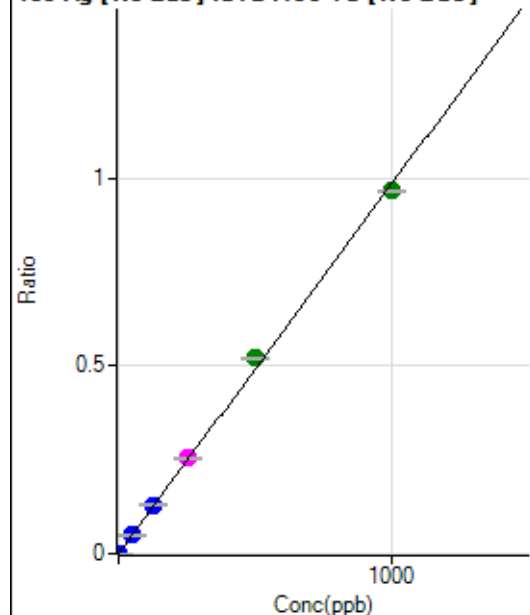
$$DL = 0.3912$$

$$BEC = 0.2883$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	61.11	0.0000	P	44.9
2	☐	1.000	0.996	5631.84	0.0010	P	7.2
3	☐	50.000	49.939	292721.58	0.0492	P	5.0
4	☐	125.000	132.125	729680.52	0.1301	P	0.9
5	☐	250.000	258.245	1476258.95	0.2542	M	1.2
6	☐	500.000	530.363	3061751.59	0.5220	A	0.9
7	☐	1000.000	981.870	5751459.55	0.9664	A	0.5
8	☐			4153.51	0.0007	P	5.8

$$y = 9.8426\text{E-}004 * x + 1.1484\text{E-}005$$

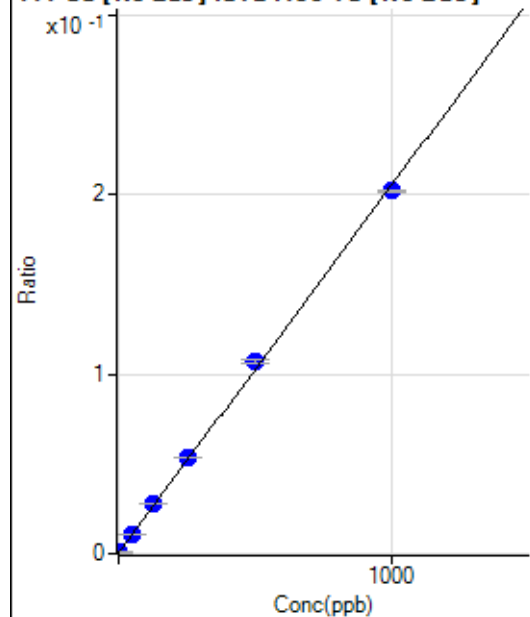
$$R = 0.9992$$

$$DL = 0.01572$$

$$BEC = 0.01167$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1725.20	0.0003	P	4.9
2	☐	1.000	1.097	3112.98	0.0005	P	7.1
3	☐	50.000	50.776	63797.19	0.0107	P	6.1
4	☐	125.000	136.609	158739.46	0.0283	P	0.5
5	☐	250.000	260.604	311719.50	0.0537	P	1.1
6	☐	500.000	521.528	628069.32	0.1071	P	2.1
7	☐	1000.000	985.095	1202227.30	0.2020	P	0.5
8	☐			2836.86	0.0005	P	7.0

$$y = 2.0474\text{E-}004 * x + 3.2357\text{E-}004$$

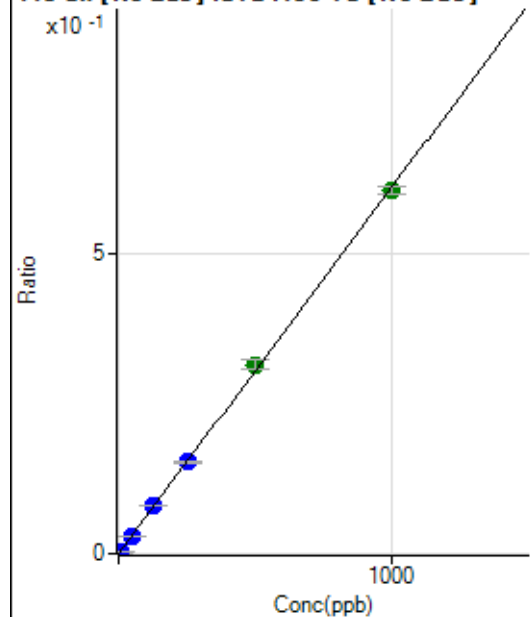
$$R = 0.9995$$

$$DL = 0.2339$$

$$BEC = 1.58$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	375.04	0.0001	P	15.9
2	☐	5.000	4.607	16357.50	0.0029	P	3.9
3	☐	50.000	48.274	175685.82	0.0295	P	5.5
4	☐	125.000	130.110	445625.02	0.0794	P	1.7
5	☐	250.000	250.566	887796.02	0.1529	P	2.2
6	☐	500.000	516.099	1846045.20	0.3148	A	4.7
7	☐	1000.000	991.259	3598259.63	0.6047	A	2.2
8	☐			4959.43	0.0009	P	5.6

$$y = 6.0992\text{E-}004 * x + 7.0292\text{E-}005$$

$$R = 0.9998$$

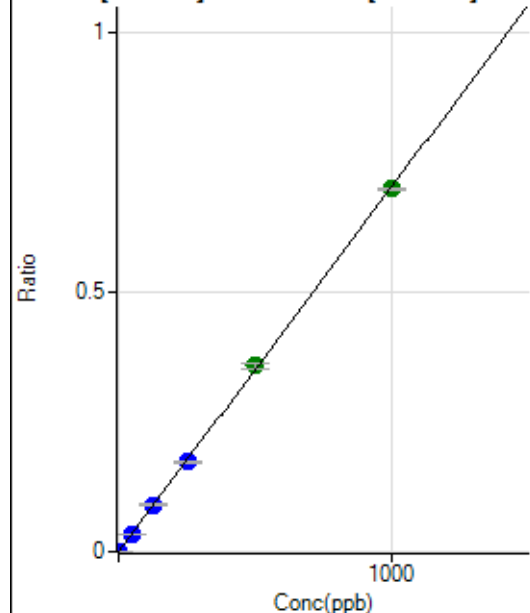
$$DL = 0.05508$$

$$BEC = 0.1152$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	51.8
2	☐	2.000	1.793	7218.79	0.0013	P	5.4
3	☐	50.000	46.972	196500.81	0.0330	P	4.8
4	☐	125.000	128.575	506686.95	0.0903	P	1.4
5	☐	250.000	247.011	1007282.33	0.1735	P	2.1
6	☐	500.000	510.527	2102491.98	0.3585	A	2.9
7	☐	1000.000	995.189	4159442.19	0.6989	A	0.3
8	☐			4103.57	0.0007	P	19.7

$$y = 7.0228\text{E-}004 * x + 1.2258\text{E-}005$$

$$R = 0.9999$$

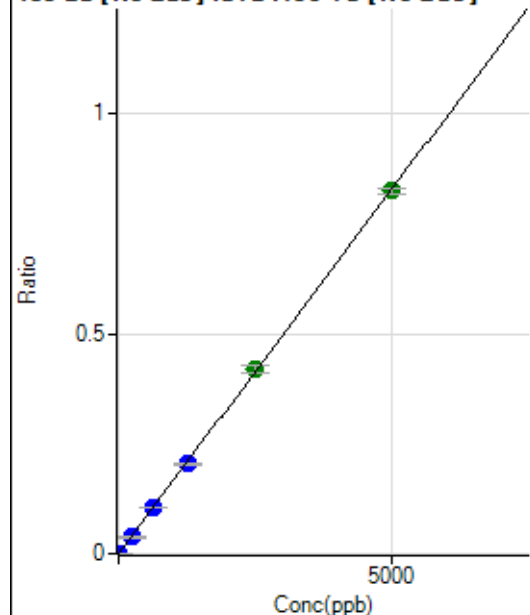
$$DL = 0.02714$$

$$BEC = 0.01745$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0000	P	61.0
2	☐	10.000	8.704	8219.39	0.0014	P	3.7
3	☐	250.000	230.266	227051.98	0.0381	P	5.5
4	☐	625.000	627.962	583413.07	0.1040	P	0.5
5	☐	1250.000	1234.786	1187201.30	0.2045	P	1.7
6	☐	2500.000	2543.233	2469394.98	0.4211	A	4.0
7	☐	5000.000	4982.806	4910200.33	0.8251	A	1.9
8	☐			4189.83	0.0007	P	14.6

$$y = 1.6558\text{E-}004 * x + 6.1952\text{E-}006$$

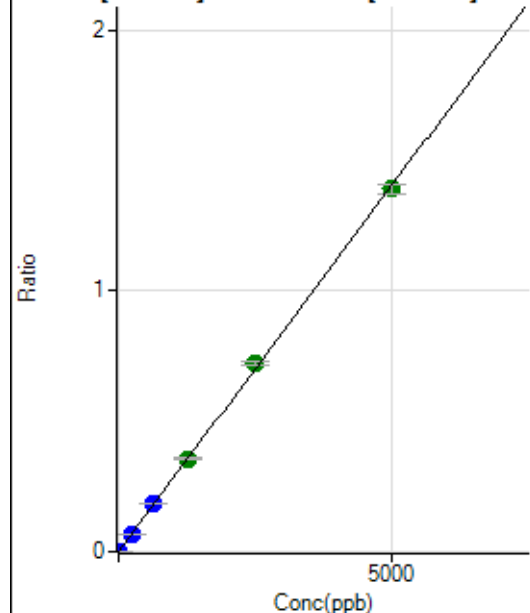
$$R = 0.9999$$

$$DL = 0.06849$$

$$BEC = 0.03741$$

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	66.67	0.0000	P	29.1
2	☐	10.000	8.927	14280.15	0.0025	P	6.1
3	☐	250.000	234.756	391705.21	0.0658	P	6.8
4	☐	625.000	652.369	1026214.32	0.1829	P	1.1
5	☐	1250.000	1269.866	2067207.49	0.3560	A	1.9
6	☐	2500.000	2569.208	4224098.92	0.7203	A	1.5
7	☐	5000.000	4957.773	8271215.81	1.3899	A	2.8
8	☐			7416.46	0.0013	P	11.6

$$y = 2.8036E-004 * x + 1.2461E-005$$

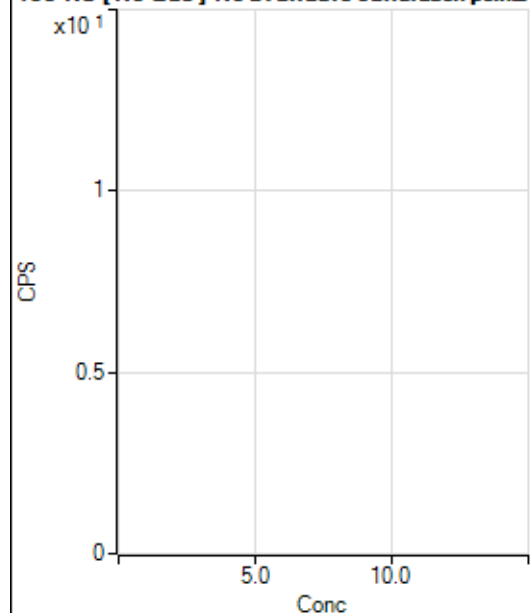
$$R = 0.9998$$

$$DL = 0.03875$$

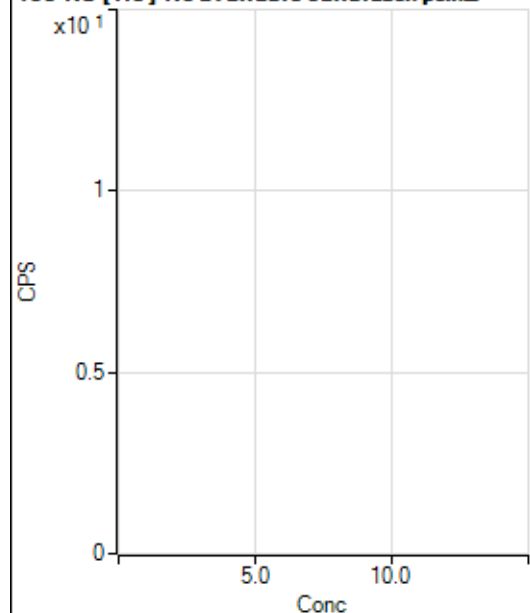
$$BEC = 0.04445$$

Weight: <None>

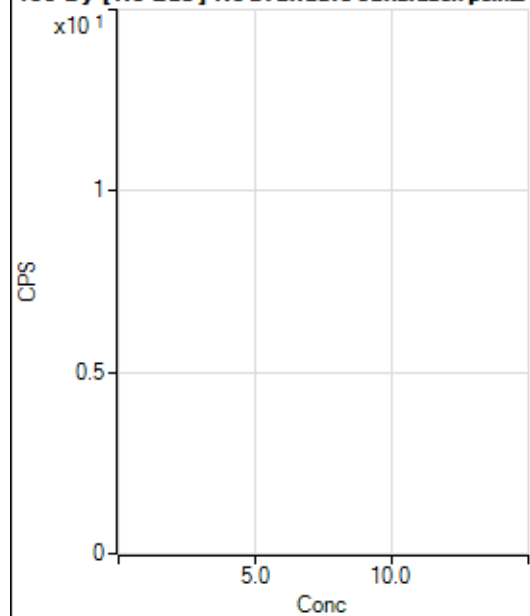
Min Conc: 0

150 Nd [No Gas] No available calibration points

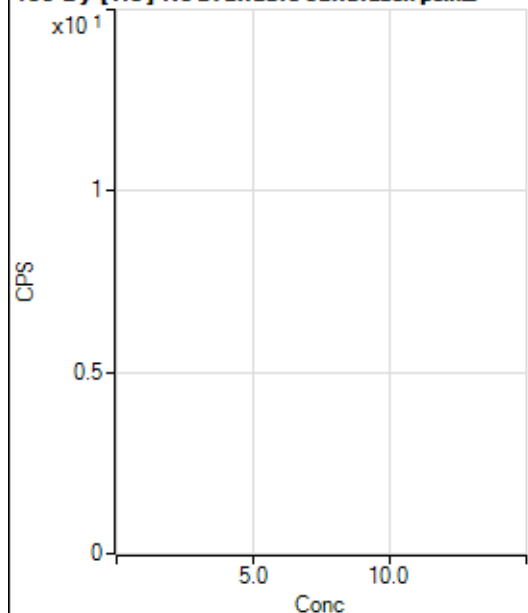
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			8.89		P	86.6
2	☐			2.22		P	173.
3	☐			51.11		P	19.9
4	☐			42.22		P	59.8
5	☐			151.11		P	6.7
6	☐			188.89		P	42.1
7	☐			540.03		P	10.1
8	☐			42.22		P	36.5

150 Nd [He] No available calibration points

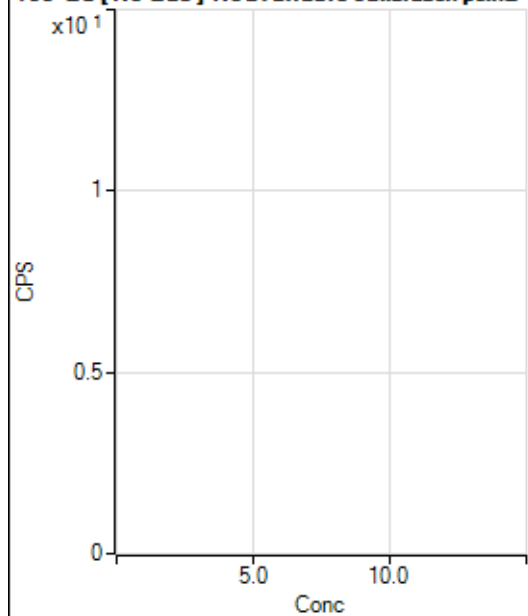
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.
3	☐			6.67		P	50.0
4	☐			4.44		P	43.4
5	☐			6.67		P	86.6
6	☐			21.11		P	24.1
7	☐			55.56		P	15.1
8	☐			8.89		P	78.1

156 Dy [No Gas] No available calibration points

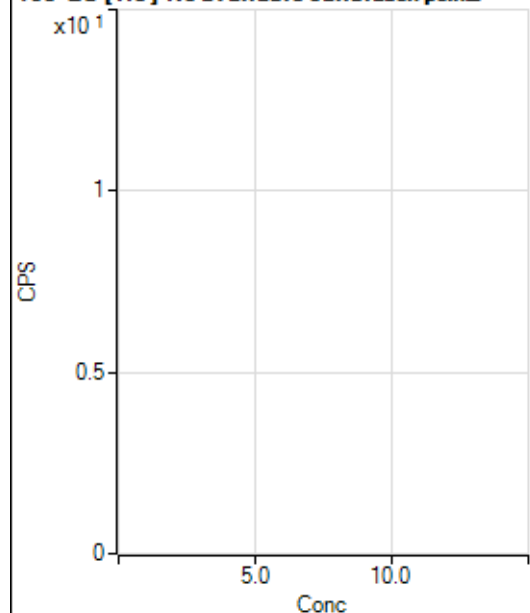
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			58.33		P	62.3
2	☐			61.11		P	43.8
3	☐			66.67		P	12.5
4	☐			91.67		P	15.7
5	☐			125.00		P	29.1
6	☐			175.01		P	8.2
7	☐			344.46		P	2.8
8	☐			863.94		P	4.9

156 Dy [He] No available calibration points

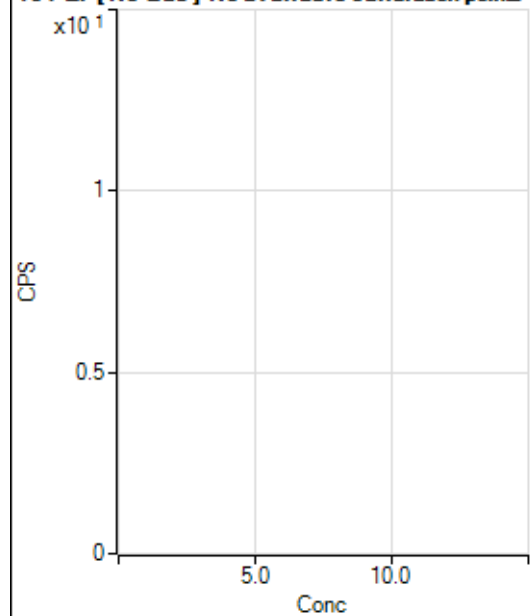
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			8.89		P	43.3
3	☐			7.78		P	65.5
4	☐			22.22		P	52.7
5	☐			34.44		P	29.6
6	☐			78.89		P	30.0
7	☐			138.89		P	9.7
8	☐			398.90		P	15.0

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

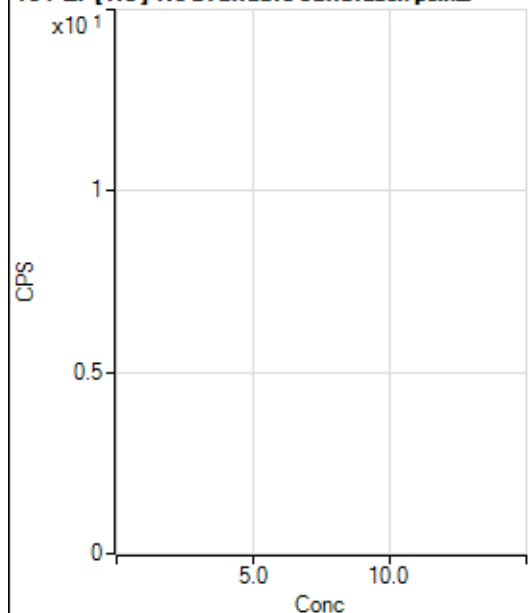
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.45		P	28.7
2	☐			55.56		P	62.4
3	☐			44.44		P	96.2
4	☐			63.89		P	19.9
5	☐			111.11		P	11.5
6	☐			138.89		P	9.2
7	☐			247.23		P	5.1
8	☐			927.83		P	12.5

160 Gd [He] No available calibration points

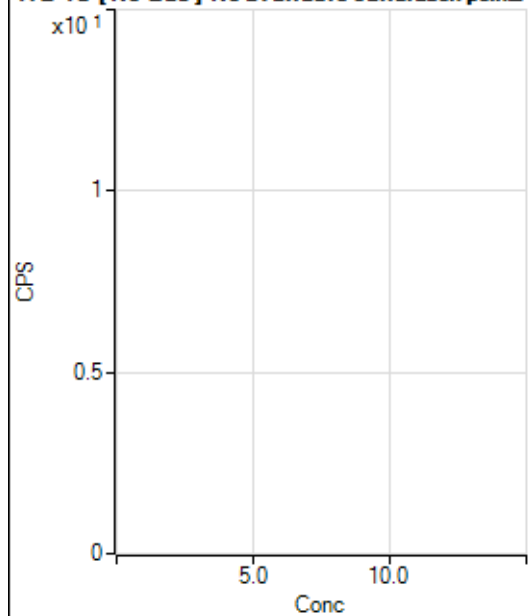
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			105.56		P	21.5
2	☐			90.00		P	23.1
3	☐			98.89		P	12.8
4	☐			103.33		P	25.6
5	☐			113.33		P	5.1
6	☐			154.45		P	5.4
7	☐			193.34		P	9.6
8	☐			536.68		P	8.1

164 Er [No Gas] No available calibration points

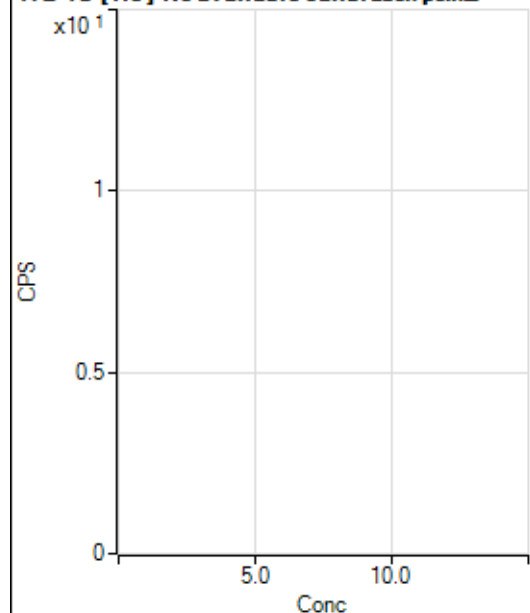
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.00		P	66.7
2	☐			33.33		P	66.1
3	☐			55.56		P	8.7
4	☐			47.22		P	36.7
5	☐			66.67		P	25.0
6	☐			72.22		P	33.3
7	☐			94.45		P	25.5
8	☐			102.78		P	32.8

164 Er [He] No available calibration points

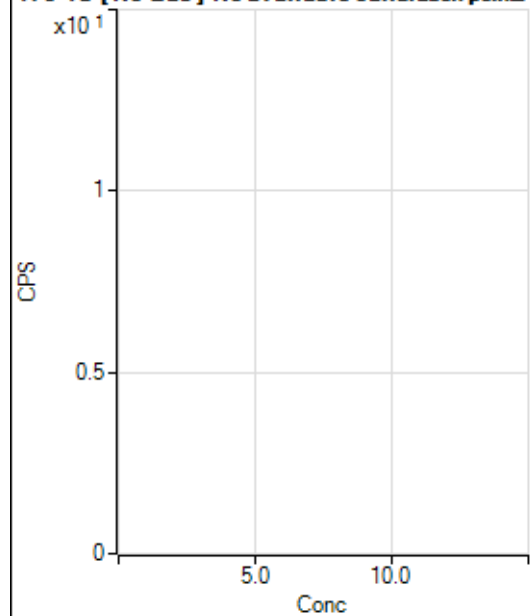
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	75.5
2	☐			8.89		P	86.6
3	☐			15.56		P	32.7
4	☐			14.44		P	35.3
5	☐			20.00		P	28.9
6	☐			25.55		P	41.9
7	☐			48.89		P	49.3
8	☐			25.56		P	19.9

172 Yb [No Gas] No available calibration points

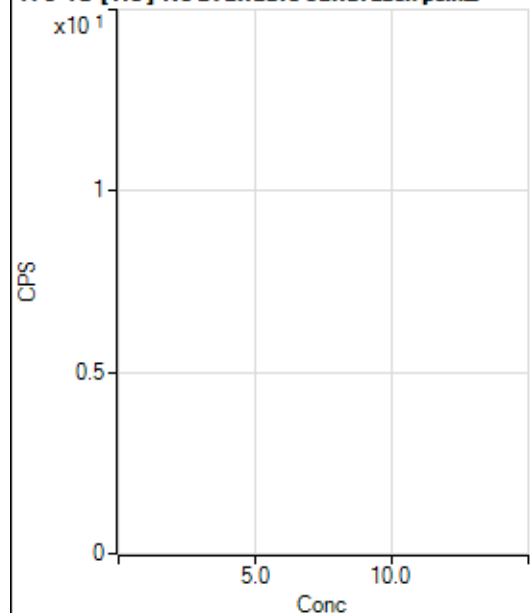
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	57.3
2	☐			38.89		P	32.7
3	☐			72.23		P	13.3
4	☐			47.22		P	66.8
5	☐			58.33		P	37.8
6	☐			66.67		P	12.5
7	☐			141.67		P	20.4
8	☐			369.46		P	20.5

172 Yb [He] No available calibration points

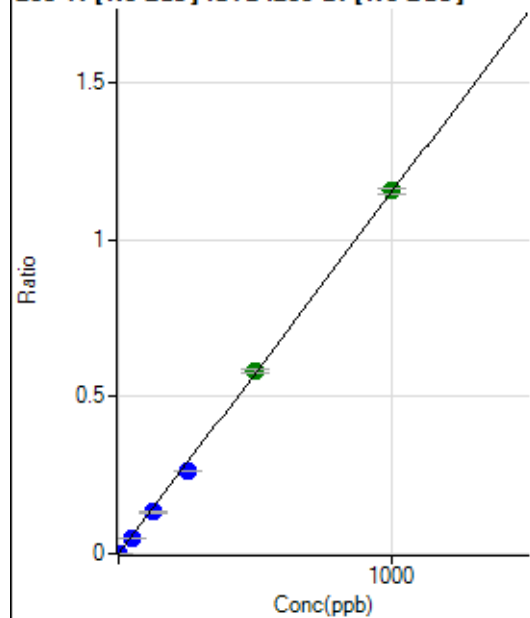
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.93		P	32.7
2	☐			7.41		P	114.
3	☐			9.26		P	69.2
4	☐			25.93		P	32.7
5	☐			29.63		P	47.2
6	☐			38.89		P	28.6
7	☐			68.52		P	33.8
8	☐			162.97		P	32.8

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			788.94		P	12.3
2	☐			972.28		P	10.9
3	☐			1750.17		P	2.5
4	☐			2758.70		P	3.7
5	☐			5101.12		P	4.8
6	☐			9311.89		P	2.7
7	☐			16964.27		P	2.8
8	☐			1122.30		P	11.6

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6546.18		P	3.9
2	☐			6612.87		P	2.4
3	☐			6890.79		P	2.6
4	☐			7787.59		P	3.9
5	☐			8386.16		P	2.1
6	☐			10509.91		P	3.5
7	☐			14276.48		P	1.8
8	☐			6909.33		P	3.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	263.90	0.0001	P	11.2
2	☐	1.000	0.830	3419.99	0.0010	P	4.8
3	☐	50.000	42.919	170464.86	0.0495	P	5.4
4	☐	125.000	115.201	445519.81	0.1326	P	4.1
5	☐	250.000	229.481	889078.59	0.2641	P	0.6
6	☐	500.000	504.295	1918800.33	0.5803	A	1.7
7	☐	1000.000	1004.561	3762459.42	1.1560	A	1.5
8	☐			1922.49	0.0007	P	24.0

$$y = 0.0012 * x + 8.2018E-005$$

$$R = 0.9997$$

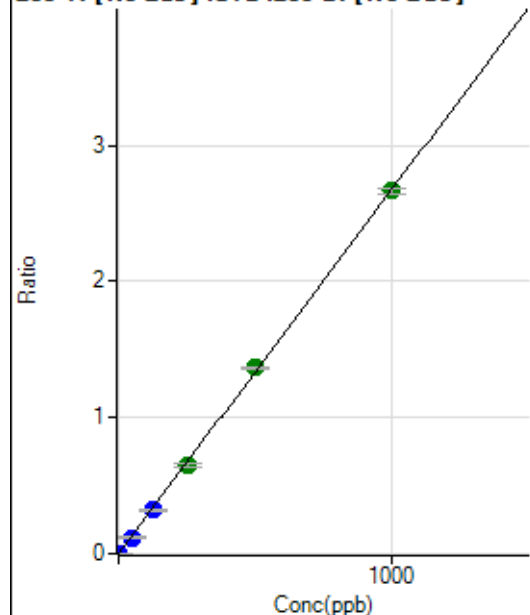
$$DL = 0.02398$$

$$BEC = 0.07128$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	658.37	0.0002	P	2.2
2	☐	1.000	0.881	8433.57	0.0026	P	2.0
3	☐	50.000	44.833	413644.58	0.1200	P	4.3
4	☐	125.000	119.073	1069141.32	0.3183	P	4.6
5	☐	250.000	243.049	2186449.79	0.6496	A	2.9
6	☐	500.000	510.469	4510179.66	1.3641	A	1.3
7	☐	1000.000	997.503	8674166.68	2.6653	A	1.7
8	☐			4920.93	0.0017	P	17.2

$$y = 0.0027 * x + 2.0423E-004$$

$$R = 0.9999$$

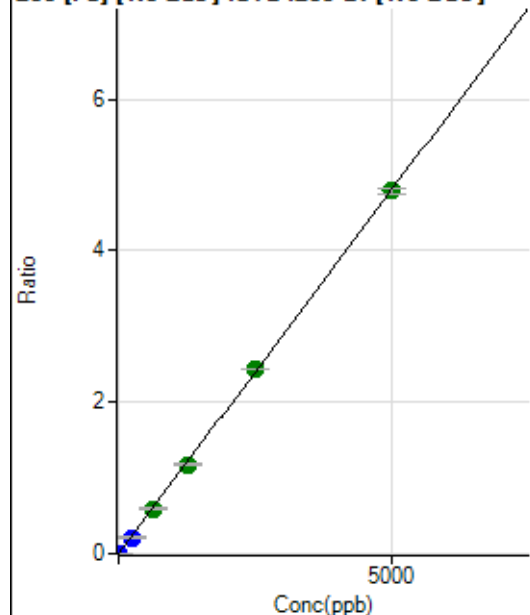
$$DL = 0.004978$$

$$BEC = 0.07644$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	470.39	0.0001	P	8.0
2	☐	1.000	0.890	3296.77	0.0010	P	3.1
3	☐	250.000	220.206	728763.83	0.2115	P	5.3
4	☐	625.000	617.669	1990917.68	0.5929	A	5.7
5	☐	1250.000	1226.896	3963449.66	1.1776	A	1.9
6	☐	2500.000	2536.846	8050943.58	2.4347	A	0.4
7	☐	5000.000	4989.759	15585950.93	4.7887	A	1.4
8	☐			8205.87	0.0028	P	24.0

$$y = 9.5968E-004 * x + 1.4626E-004$$

$$R = 0.9999$$

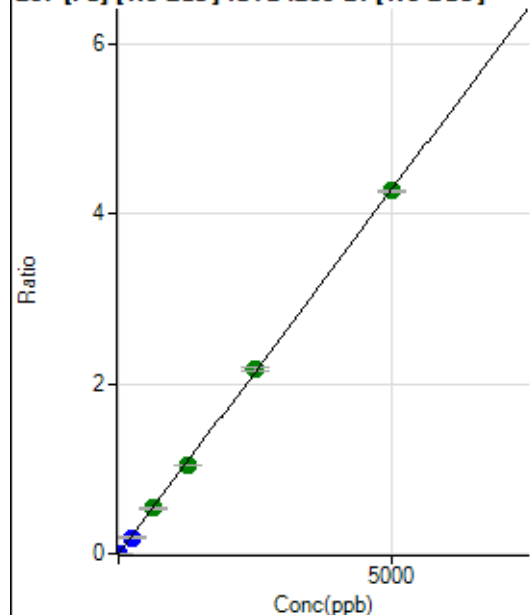
$$DL = 0.03667$$

$$BEC = 0.1524$$

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	427.79	0.0001	P	27.8
2	☐	1.000	0.800	2704.04	0.0008	P	4.9
3	☐	250.000	220.012	649821.52	0.1885	P	5.0
4	☐	625.000	624.008	1794927.02	0.5345	A	4.9
5	☐	1250.000	1215.175	3503052.57	1.0407	A	0.6
6	☐	2500.000	2548.363	7215580.37	2.1824	A	2.0
7	☐	5000.000	4986.148	13897733.76	4.2699	A	0.6
8	☐			7075.26	0.0024	P	22.6

$$y = 8.5633\text{E-}004 * x + 1.3498\text{E-}004$$

$$R = 0.9999$$

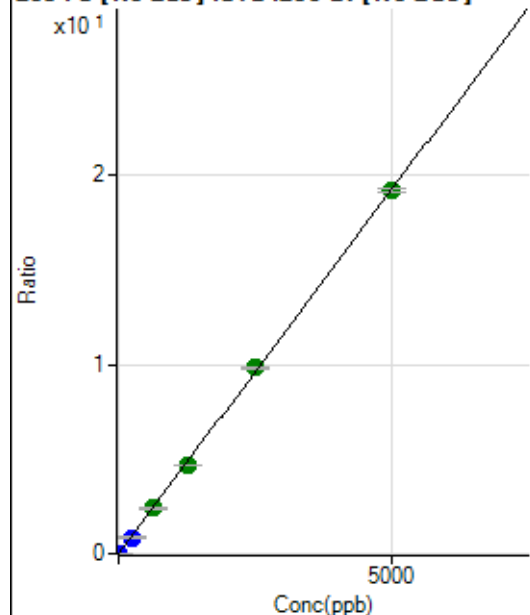
$$DL = 0.1313$$

$$BEC = 0.1576$$

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	1846.38	0.0006	P	8.3
2	☐	1.000	0.848	12648.94	0.0038	P	3.2
3	☐	250.000	219.856	2916905.64	0.8465	P	5.4
4	☐	625.000	625.874	8089735.95	2.4086	A	4.3
5	☐	1250.000	1214.971	15736241.12	4.6751	A	0.5
6	☐	2500.000	2551.811	32464775.95	9.8186	A	0.9
7	☐	5000.000	4984.250	62421323.85	19.1774	A	1.0
8	☐			32689.38	0.0112	P	22.8

$$y = 0.0038 * x + 5.7518\text{E-}004$$

$$R = 0.9999$$

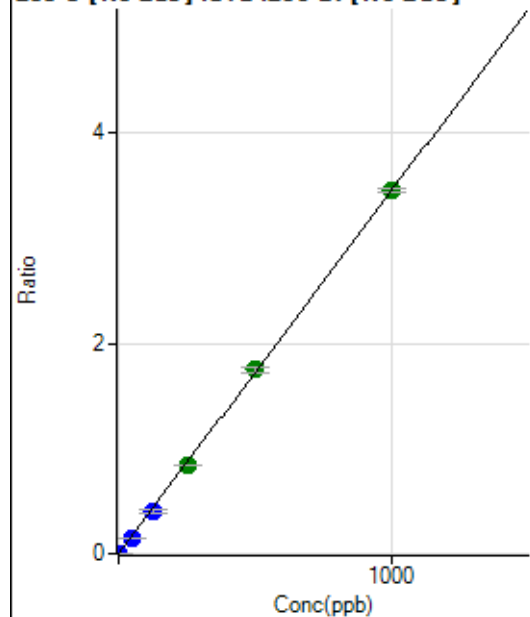
$$DL = 0.03729$$

$$BEC = 0.1495$$

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	61.11	0.0000	P	40.1
2	☐	1.000	0.880	10082.10	0.0031	P	1.7
3	☐	50.000	43.732	520696.99	0.1511	P	4.4
4	☐	125.000	116.661	1352855.99	0.4029	P	5.6
5	☐	250.000	241.546	2807976.76	0.8342	A	0.3
6	☐	500.000	507.489	5794637.37	1.7527	A	2.7
7	☐	1000.000	999.725	11237151.38	3.4527	A	1.2
8	☐			4151.89	0.0014	P	35.0

$$y = 0.0035 * x + 1.8796E-005$$

$$R = 0.9999$$

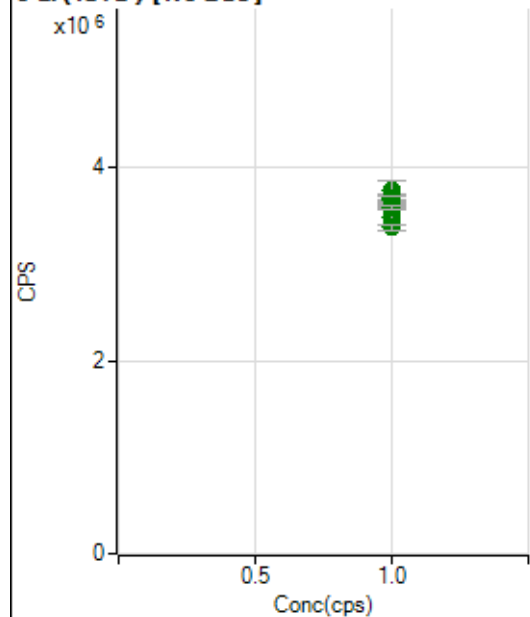
$$DL = 0.006545$$

$$BEC = 0.005442$$

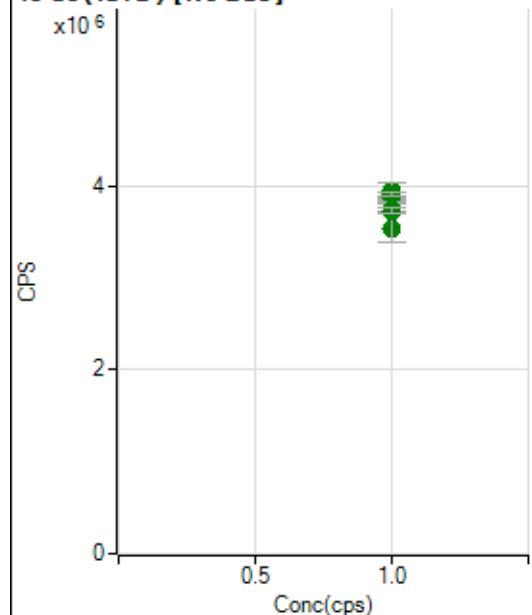
Weight: <None>

Min Conc: 0

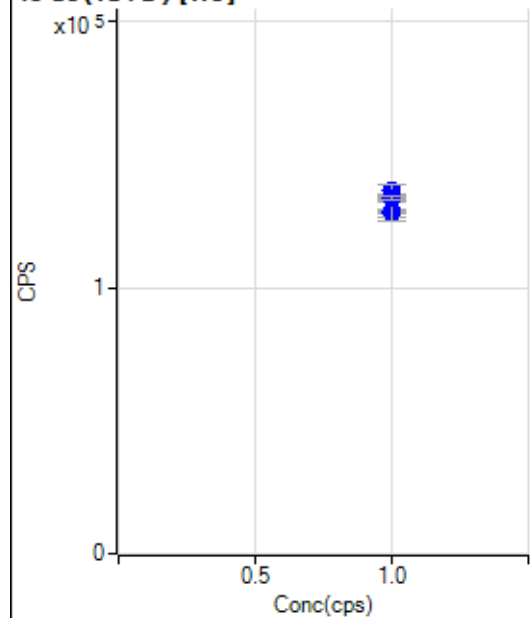
6 Li (ISTD) [No Gas]



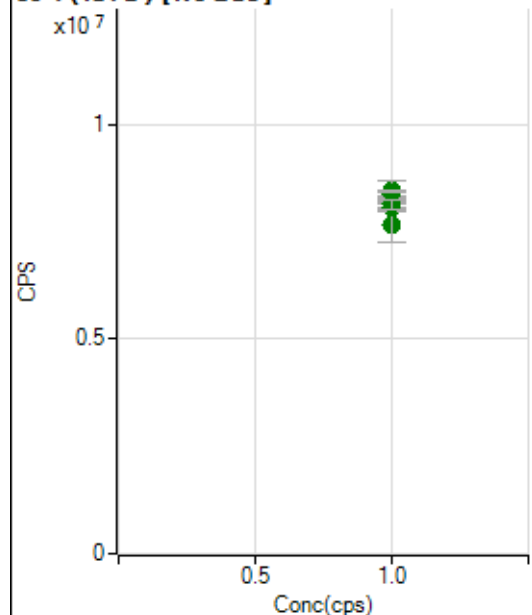
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3490449.69		A	5.2
2	☐	1.000		3641745.21		A	1.4
3	☐	1.000		3760457.14		A	5.3
4	☐	1.000		3677152.89		A	2.3
5	☐	1.000		3685374.47		A	1.7
6	☐	1.000		3603444.03		A	1.4
7	☐	1.000		3587122.60		A	1.1
8	☐	1.000		3379135.17		A	1.7

45 Sc (ISTD) [No Gas]

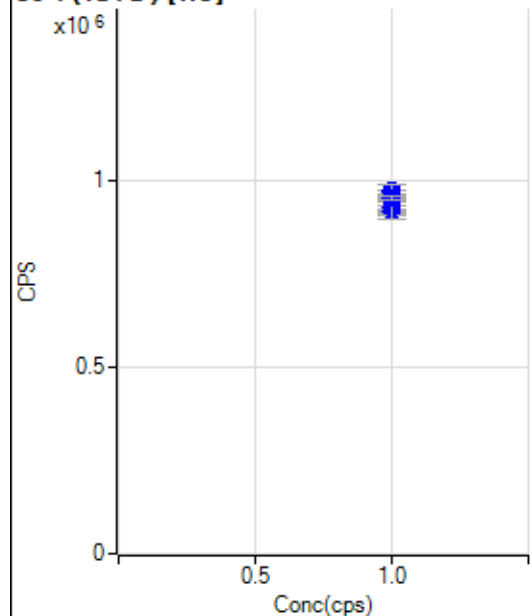
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3539965.78		A	8.3
2	☐	1.000		3827579.04		A	0.6
3	☐	1.000		3940928.07		A	4.1
4	☐	1.000		3763519.91		A	2.7
5	☐	1.000		3832542.69		A	1.1
6	☐	1.000		3857173.59		A	1.8
7	☐	1.000		3897813.41		A	1.1
8	☐	1.000		3724700.01		A	1.9

45 Sc (ISTD) [He]

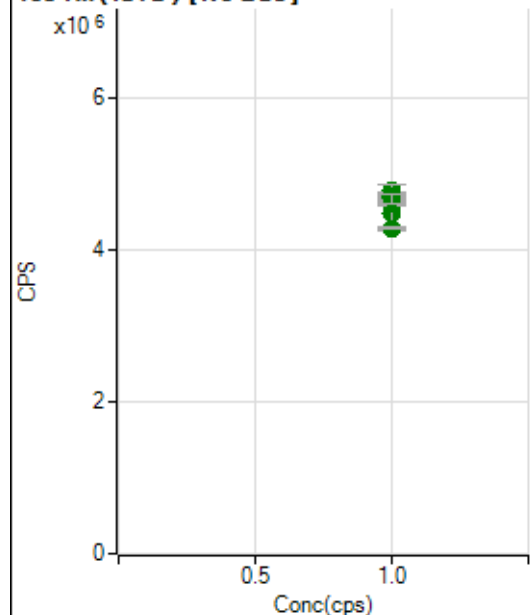
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		128578.73		P	1.1
2	☐	1.000		128859.55		P	0.6
3	☐	1.000		128095.61		P	2.2
4	☐	1.000		134230.41		P	0.2
5	☐	1.000		128740.30		P	5.8
6	☐	1.000		134441.45		P	0.8
7	☐	1.000		136284.77		P	4.0
8	☐	1.000		133790.74		P	1.3

89 Y (ISTD) [No Gas]

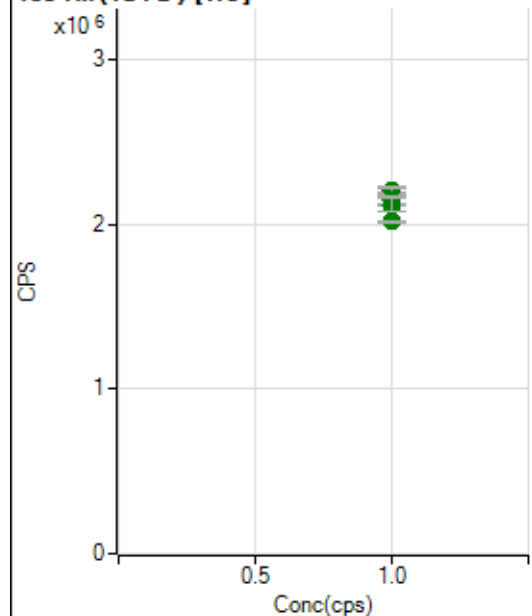
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7652451.13		A	10.7
2	☐	1.000		8078193.21		A	2.4
3	☐	1.000		8458064.39		A	5.4
4	☐	1.000		8282020.99		A	1.1
5	☐	1.000		8247750.92		A	0.9
6	☐	1.000		8378268.90		A	1.9
7	☐	1.000		8444002.23		A	0.8
8	☐	1.000		8142183.07		A	2.4

89 Y (ISTD) [He]

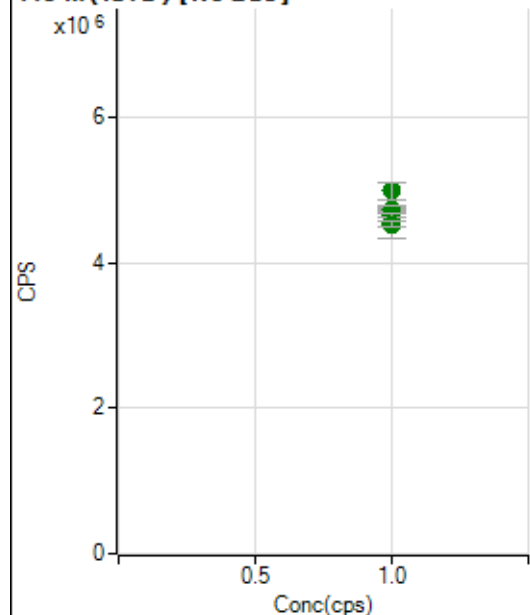
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		916504.51		P	1.1
2	☐	1.000		920955.04		P	0.4
3	☐	1.000		919376.96		P	2.9
4	☐	1.000		946561.25		P	0.5
5	☐	1.000		927218.82		P	5.8
6	☐	1.000		970316.03		P	0.8
7	☐	1.000		973893.48		P	3.1
8	☐	1.000		955730.06		P	0.7

103 Rh (ISTD) [No Gas]

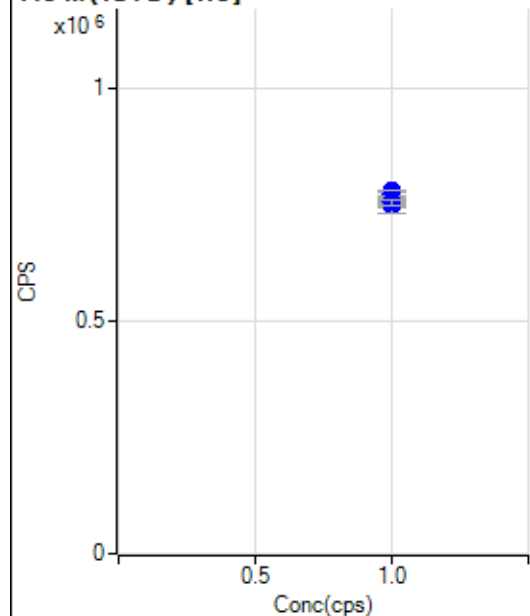
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4472319.85		A	10.4
2	☐	1.000		4614802.62		A	1.6
3	☐	1.000		4772216.12		A	3.1
4	☐	1.000		4691783.48		A	2.2
5	☐	1.000		4693426.67		A	2.4
6	☐	1.000		4704340.81		A	1.5
7	☐	1.000		4666937.22		A	2.5
8	☐	1.000		4286294.58		A	0.8

103 Rh (ISTD) [He]

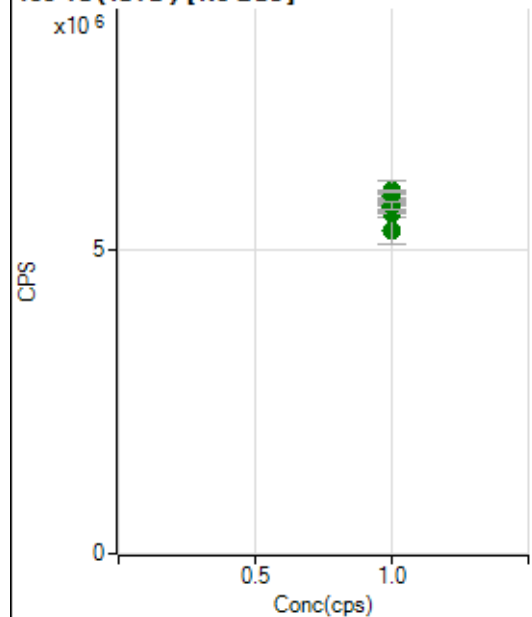
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2130185.61		A	0.1
2	☐	1.000		2153603.47		A	3.9
3	☐	1.000		2123505.02		A	3.4
4	☐	1.000		2206516.38		A	1.3
5	☐	1.000		2157279.95		A	6.7
6	☐	1.000		2154223.49		A	2.1
7	☐	1.000		2120338.77		A	3.9
8	☐	1.000		2021579.12		A	0.6

115 In (ISTD) [No Gas]

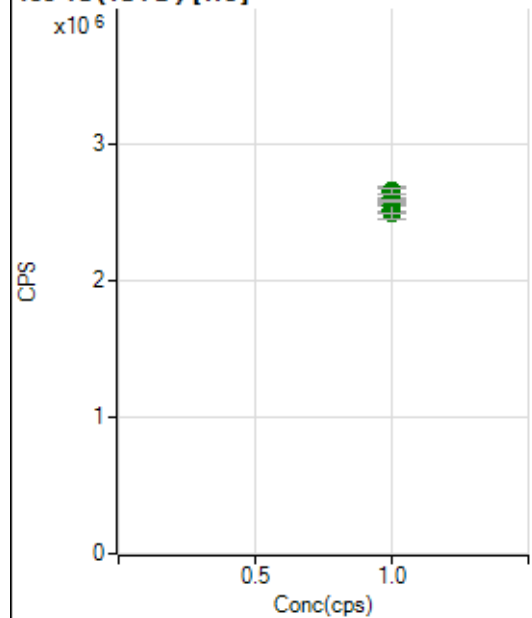
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4542493.39		A	9.2
2	☐	1.000		4677766.48		A	1.6
3	☐	1.000		4993060.13		A	4.6
4	☐	1.000		4725461.47		A	1.0
5	☐	1.000		4728726.62		A	1.5
6	☐	1.000		4732107.71		A	2.5
7	☐	1.000		4656995.98		A	1.1
8	☐	1.000		4538367.77		A	2.0

115 In (ISTD) [He]

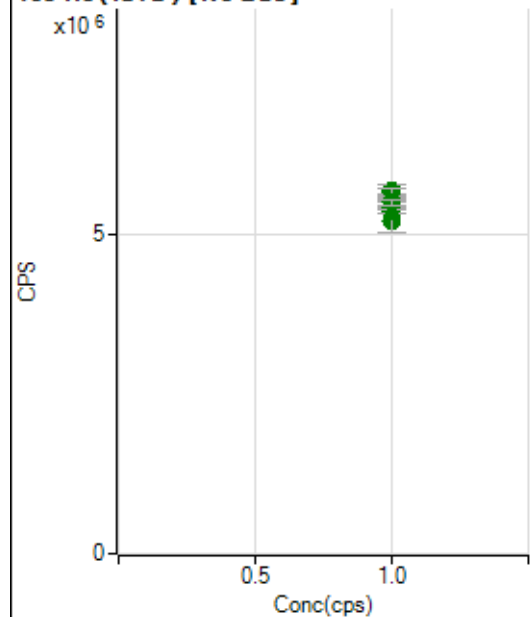
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		750100.20		P	1.3
2	☐	1.000		752920.15		P	0.7
3	☐	1.000		751002.06		P	2.0
4	☐	1.000		778620.56		P	0.7
5	☐	1.000		748187.87		P	4.9
6	☐	1.000		770716.25		P	2.1
7	☐	1.000		760002.02		P	2.5
8	☐	1.000		753175.03		P	1.4

159 Tb (ISTD) [No Gas]

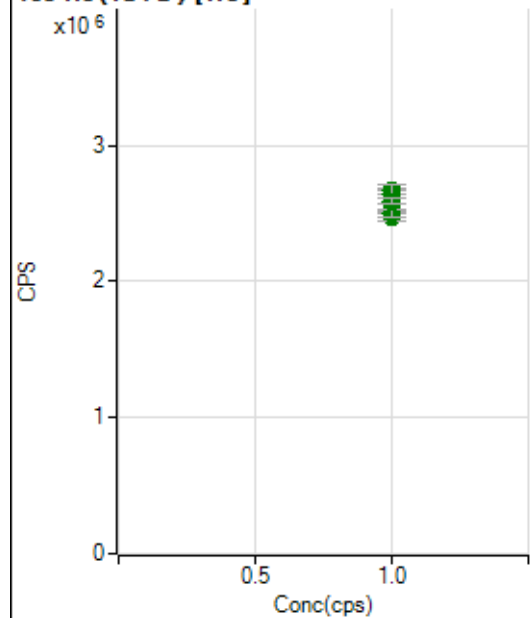
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5318161.76		A	8.1
2	☐	1.000		5680865.61		A	1.4
3	☐	1.000		5964898.59		A	5.5
4	☐	1.000		5610499.50		A	0.3
5	☐	1.000		5807399.91		A	1.5
6	☐	1.000		5864916.16		A	1.1
7	☐	1.000		5951365.74		A	0.6
8	☐	1.000		5711732.97		A	2.4

159 Tb (ISTD) [He]

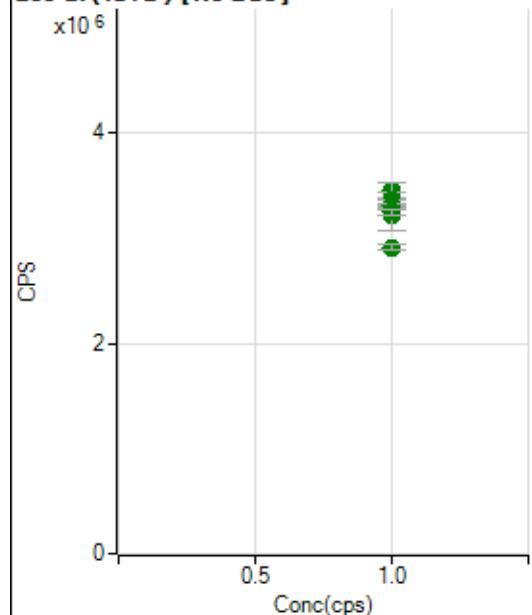
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2519748.44		A	2.7
2	☐	1.000		2497036.96		A	0.4
3	☐	1.000		2510312.12		A	4.4
4	☐	1.000		2578984.21		A	1.8
5	☐	1.000		2542578.40		A	4.1
6	☐	1.000		2605452.76		A	2.5
7	☐	1.000		2642708.26		A	3.5
8	☐	1.000		2656704.88		A	1.3

165 Ho (ISTD) [No Gas]

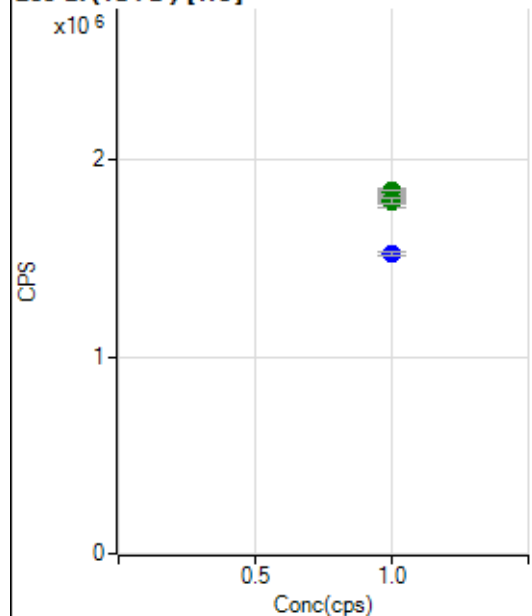
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5210742.87		A	7.6
2	☐	1.000		5348668.48		A	1.6
3	☐	1.000		5668388.54		A	3.5
4	☐	1.000		5410709.67		A	0.8
5	☐	1.000		5534912.67		A	1.4
6	☐	1.000		5612479.21		A	0.5
7	☐	1.000		5646713.45		A	1.8
8	☐	1.000		5484622.48		A	1.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2468761.28		A	2.1
2	☐	1.000		2508973.59		A	0.9
3	☐	1.000		2506890.61		A	2.3
4	☐	1.000		2645343.73		A	2.4
5	☐	1.000		2580459.08		A	4.2
6	☐	1.000		2642474.46		A	1.9
7	☐	1.000		2665194.51		A	4.0
8	☐	1.000		2591394.26		A	1.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3227247.97		A	9.7
2	☐	1.000		3295840.20		A	0.9
3	☐	1.000		3452138.49		A	4.9
4	☐	1.000		3362839.15		A	4.3
5	☐	1.000		3365959.74		A	0.5
6	☐	1.000		3306641.89		A	0.9
7	☐	1.000		3255011.52		A	1.6
8	☐	1.000		2914596.56		A	1.8

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1789620.15		A	0.4
2	☐	1.000		1816855.34		A	1.3
3	☐	1.000		1828843.45		A	2.3
4	☐	1.000		1841260.02		A	0.7
5	☐	1.000		1789994.26		A	3.4
6	☐	1.000		1835006.13		A	1.1
7	☐	1.000		1795499.12		A	1.6
8	☐	1.000		1525082.36		P	1.3

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8122322MS.b

Acq. Date-Time 2022-12-23 15:21:31

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		12964	129639.29			0.481	5.000
24		214463	2144630.74			1.621	5.000
25		28861	288612.78			0.514	5.000
26		33669	336689.48			0.391	5.000
59		49382	493822.01			0.537	5.000
113		4821	48210.35			1.547	5.000
115		56720	567197.13			1.197	5.000
206		11683	116825.30			1.761	5.000
207		10511	105106.69			1.155	5.000
208		24633	246331.08			1.473	5.000
220		1	6.00			19.543	

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

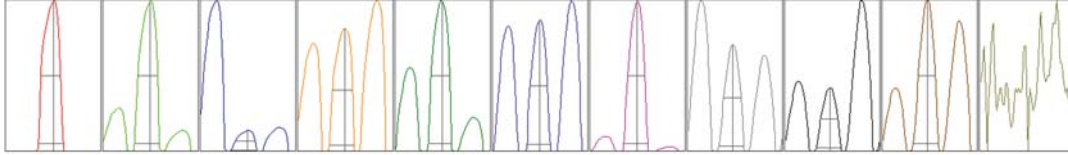
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	12919	12939	13043	13017	12901
24	210279	216352	217455	217120	211108
25	28889	28729	28917	29067	28705
26	33520	33702	33573	33860	33689
59	49373	49303	49637	49612	48986
113	4736	4833	4830	4933	4773
115	55938	56884	57586	57055	56135
206	11458	11748	11968	11731	11507
207	10397	10470	10693	10570	10423
208	24205	24533	25177	24763	24489

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	22703.21	9.05	8.90 - 9.10	
24	361319.27	24.00	23.90 - 24.10	
25	49149.43	25.00	24.90 - 25.10	
26	56006.47	26.00	25.90 - 26.10	
59	89267.47	59.00	58.90 - 59.10	
113	9421.56	113.00	112.90 - 113.10	
115	111598.32	115.00	114.90 - 115.10	
206	22256.35	205.95	205.90 - 206.10	
207	20061.69	206.95	206.90 - 207.10	
208	47667.87	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.782	0.900	
24	0.63	0.786	0.900	
25	0.62	0.787	0.900	
26	0.64	0.787	0.900	
59	0.58	0.740	0.900	
113	0.54	0.730	0.900	
115	0.53	0.765	0.900	
206	0.55	0.784	0.900	
207	0.54	0.782	0.900	
208	0.54	0.803	0.900	
220	0.28			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 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	10.4 V	Deflect	15.4 V
Extract 2	-175.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9990	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.8 mm
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EM

Discriminator	4.5 mV	Analog HV	2300 V	Pulse HV	1635 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		10715	107146.94			1.283	
89		20918	209184.86			1.127	
205		8945	89446.39			1.199	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	10824	10647	10876	10535	10691
89	21300	20757	20723	20828	20983
205	9126	8911	8877	8952	8858

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 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	10.4 V	Deflect	4.0 V
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US EPA Tune Check Report

Extract 2	-175.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9990	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.8 mm
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EM

Discriminator	4.5 mV	Analog HV	2300 V	Pulse HV	1635 V
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