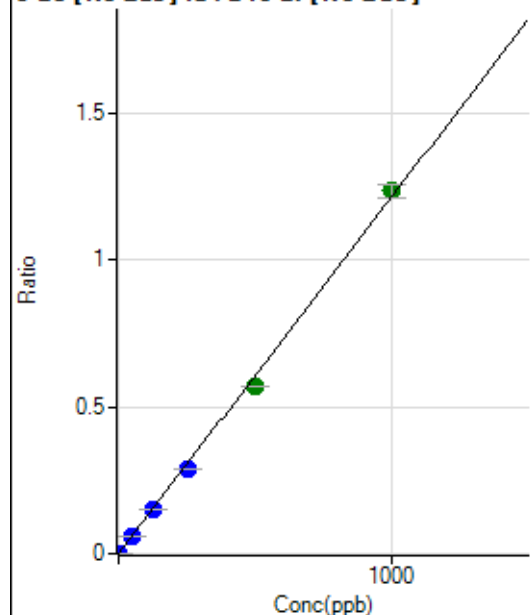


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7030322MS.b\
Analysis File: P7030322MS.batch.bin
DA Date-Time: 2022-03-04 00:33:04
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2022-03-03 12:01:15
2	005CALS.d	S02	2022-03-03 12:07:03
3	006CALS.d	S03	2022-03-03 12:09:59
4	007CALS.d	S04	2022-03-03 12:12:45
5	008CALS.d	S05	2022-03-03 12:15:32
6	009CALS.d	S06	2022-03-03 12:18:16
7	010CALS.d	S07	2022-03-03 12:21:03
8	011CALS.d	S08	2022-03-03 12:23:48

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	131.11	0.0001	P	10.1
2	☐	1.000	0.960	2284.63	0.0012	P	3.3
3	☐	50.000	50.155	111064.41	0.0610	P	3.4
4	☐	125.000	123.114	279952.97	0.1496	P	1.7
5	☐	250.000	237.724	537446.52	0.2889	P	1.2
6	☐	500.000	470.802	1038926.53	0.5720	A	0.2
7	☐	1000.000	1017.896	2096710.23	1.2367	A	3.9
8	☐			756.69	0.0004	P	16.6

$$y = 0.0012 * x + 7.0472E-005$$

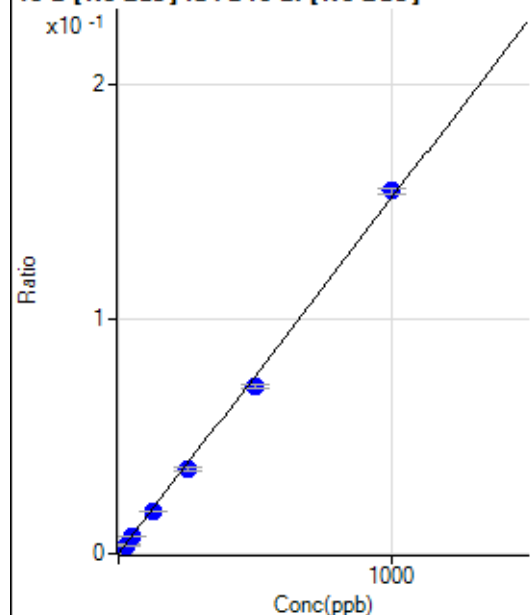
$$R = 0.9993$$

$$DL = 0.01765$$

$$BEC = 0.05801$$

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	147.22	0.0001	P	28.0
2	☐	25.000	23.565	6757.21	0.0037	P	2.6
3	☐	50.000	48.890	13678.56	0.0075	P	3.6
4	☐	125.000	119.860	34191.06	0.0183	P	0.4
5	☐	250.000	235.615	66665.70	0.0358	P	5.0
6	☐	500.000	468.235	129218.30	0.0711	P	2.2
7	☐	1000.000	1020.213	262850.07	0.1549	P	1.4
8	☐			8455.29	0.0049	P	9.3

$$y = 1.5177E-004 * x + 7.9152E-005$$

$$R = 0.9991$$

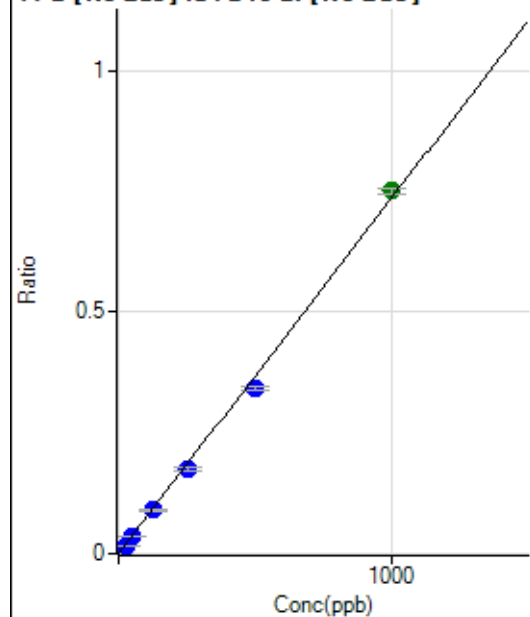
$$DL = 0.4378$$

$$BEC = 0.5215$$

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	672.25	0.0004	P	4.5
2	☐	25.000	22.686	31488.20	0.0170	P	3.3
3	☐	50.000	49.563	67042.58	0.0368	P	1.3
4	☐	125.000	122.897	169830.40	0.0907	P	3.9
5	☐	250.000	237.735	325679.35	0.1751	P	4.5
6	☐	500.000	465.484	621965.38	0.3424	P	1.8
7	☐	1000.000	1020.667	1273811.45	0.7504	A	1.6
8	☐			40453.90	0.0233	P	12.4

$$y = 7.3487E-004 * x + 3.6134E-004$$

$$R = 0.9990$$

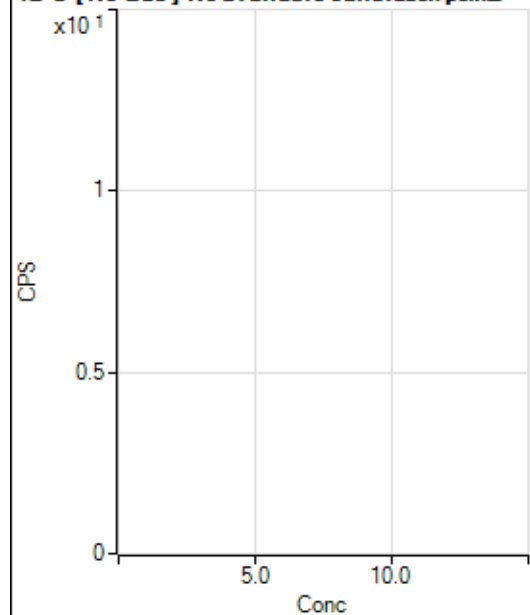
$$DL = 0.0667$$

$$BEC = 0.4917$$

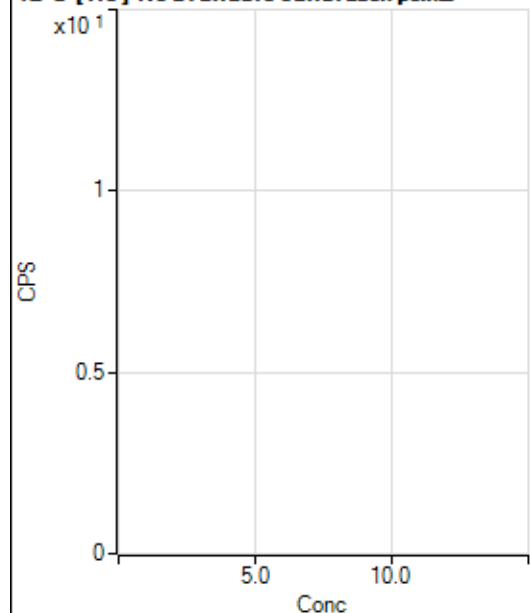
Weight: <None>

Min Conc: 0

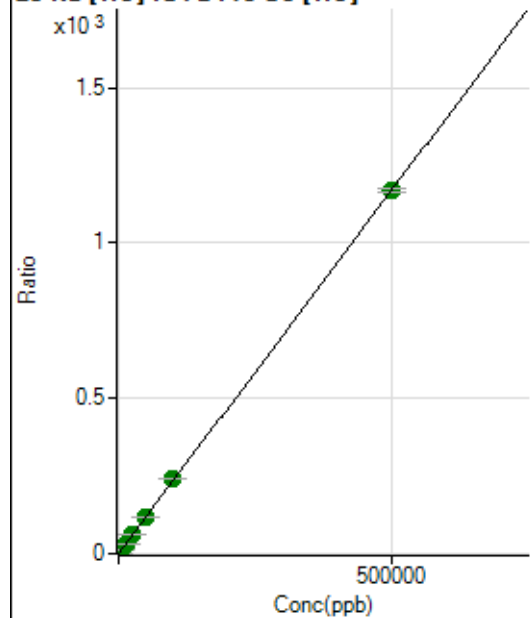
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	26411.69	0.0807	P	1.6
2	☐	500.000	493.018	405134.99	1.2335	P	0.5
3	☐	5000.000	5184.790	4041403.22	12.2044	A	1.5
4	☐	12500.000	13352.097	10242315.62	31.3020	A	0.6
5	☐	25000.000	25504.456	19445630.29	59.7180	A	0.5
6	☐	50000.000	49225.431	37621256.40	115.1850	A	0.2
7	☐	100000.00	102911.18	78583110.09	240.7189	A	0.4
8	☐	500000.00	499446.85	381134349.2	1,167.942	A	1.2

$$y = 0.0023 * x + 0.0807$$

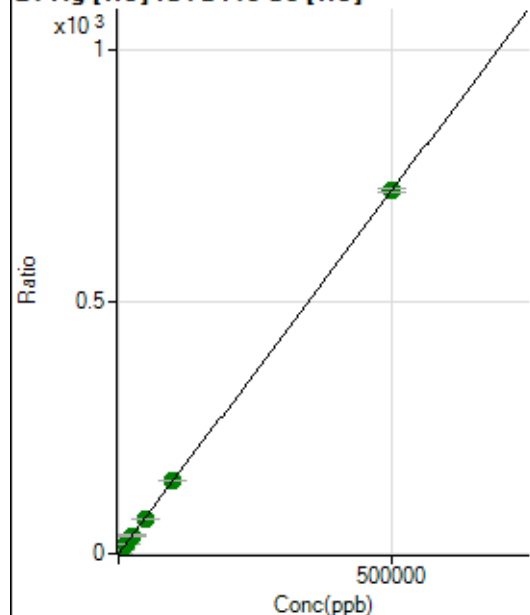
$$R = 1.0000$$

$$DL = 1.637$$

$$BEC = 34.52$$

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	1194.51	0.0037	P	9.2
2	☐	500.000	492.556	233963.41	0.7124	P	0.7
3	☐	5000.000	5145.026	2452709.58	7.4067	A	1.0
4	☐	12500.000	13171.058	6202061.77	18.9551	A	1.2
5	☐	25000.000	25128.441	11774517.51	36.1602	A	0.9
6	☐	50000.000	48395.602	22745213.01	69.6387	A	0.3
7	☐	100000.00	100579.39	47246922.82	144.7244	A	0.5
8	☐	500000.00	500019.92	234790408.9	719.4675	A	1.2

$$y = 0.0014 * x + 0.0037$$

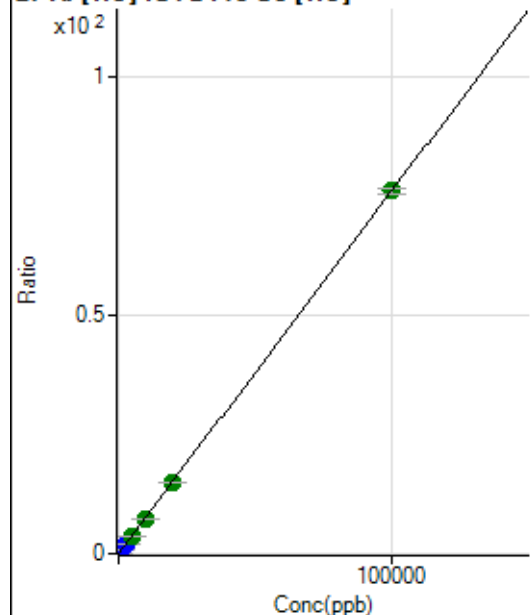
$$R = 1.0000$$

$$DL = 0.7003$$

$$BEC = 2.538$$

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	142.59	0.0004	P	33.5
2	☐	20.000	19.044	4902.71	0.0149	P	5.1
3	☐	1000.000	999.466	252025.96	0.7611	P	0.3
4	☐	2500.000	2559.861	637565.66	1.9485	P	1.0
5	☐	5000.000	4916.426	1218481.12	3.7419	A	0.2
6	☐	10000.000	9485.888	2358000.28	7.2194	A	0.7
7	☐	20000.000	19650.445	4882236.45	14.9549	A	0.7
8	☐	100000.00	100124.01	24865340.14	76.1971	A	1.4

$$y = 7.6102E-004 * x + 4.3445E-004$$

$$R = 1.0000$$

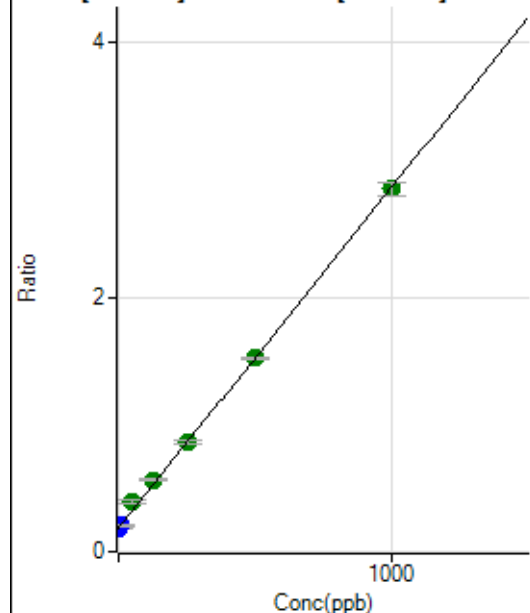
$$DL = 0.5737$$

$$BEC = 0.5709$$

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	701269.51	0.1852	P	0.7
2	☐	10.000	7.474	757124.16	0.2052	P	2.0
3	☐	50.000	75.976	1382959.70	0.3887	A	7.2
4	☐	125.000	141.484	2105968.88	0.5641	A	2.5
5	☐	250.000	253.055	3192183.17	0.8629	A	2.6
6	☐	500.000	500.316	5591353.73	1.5250	A	1.0
7	☐	1000.000	995.744	9996328.70	2.8517	A	4.0
8	☐			1100927.87	0.3034	M	9.7

$$y = 0.0027 * x + 0.1852$$

$$R = 0.9996$$

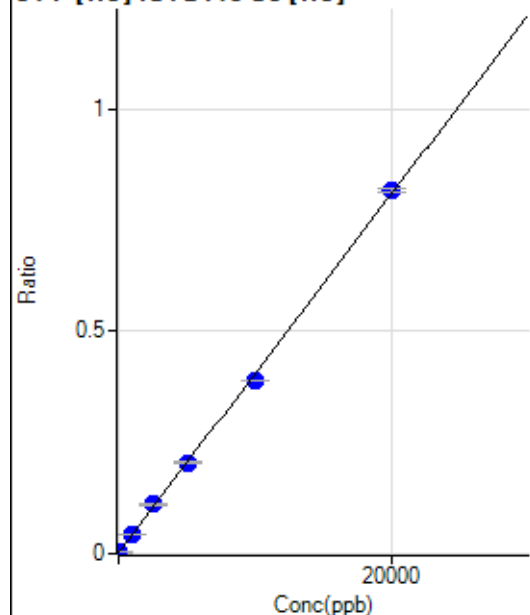
$$DL = 1.424$$

$$BEC = 69.17$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-12.732	566.70	0.0017	P	5.0
2	☐	0.000	12.732	905.61	0.0028	P	7.5
3	☐	1000.000	1017.714	14320.93	0.0432	P	2.0
4	☐	2500.000	2681.174	36076.34	0.1103	P	2.0
5	☐	5000.000	5027.731	66681.80	0.2048	P	1.9
6	☐	10000.000	9589.936	126920.61	0.3886	P	0.6
7	☐	20000.000	20174.567	266057.48	0.8150	P	1.0
8	☐			758.38	0.0023	P	15.0

$$y = 4.0287E-005 * x + 0.0022$$

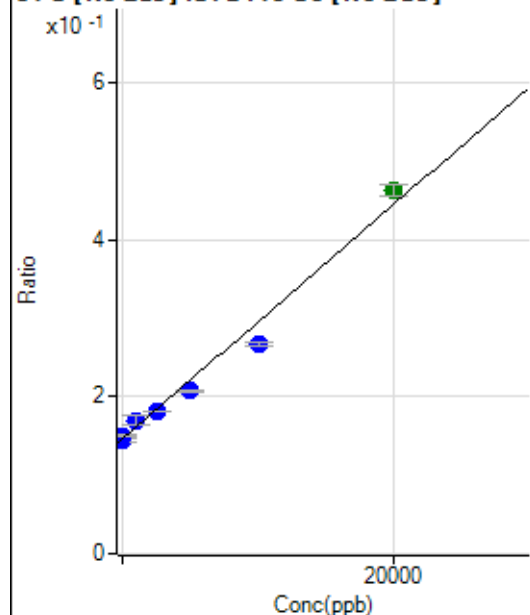
$$R = 0.9996$$

$$DL = 10.98$$

$$BEC = 55.73$$

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	-176.584	547919.79	0.1448	P	2.5
2	☐	0.000	176.584	553538.43	0.1500	P	1.9
3	☐	1000.000	1541.062	606230.69	0.1704	P	6.9
4	☐	2500.000	2279.994	677132.72	0.1814	P	1.0
5	☐	5000.000	4077.837	770034.98	0.2081	P	1.5
6	☐	10000.000	8085.186	981758.64	0.2678	P	1.6
7	☐	20000.000	21188.395	1622863.34	0.4629	A	3.2
8	☐			469037.40	0.1295	P	0.9

$$y = 1.4887\text{E-}005 * x + 0.1474$$

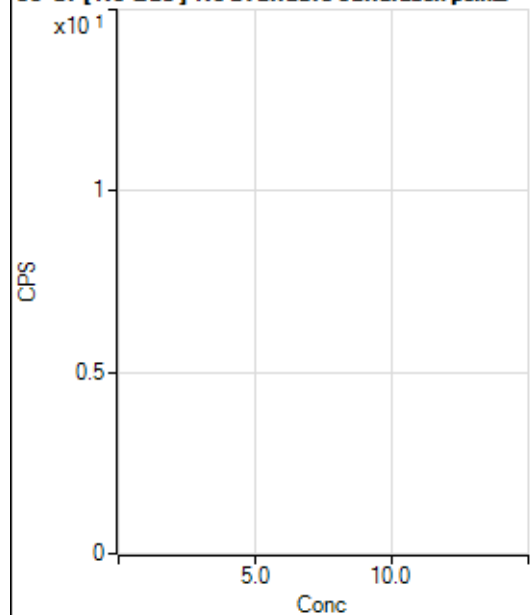
R = 0.9913

DL = 656.5

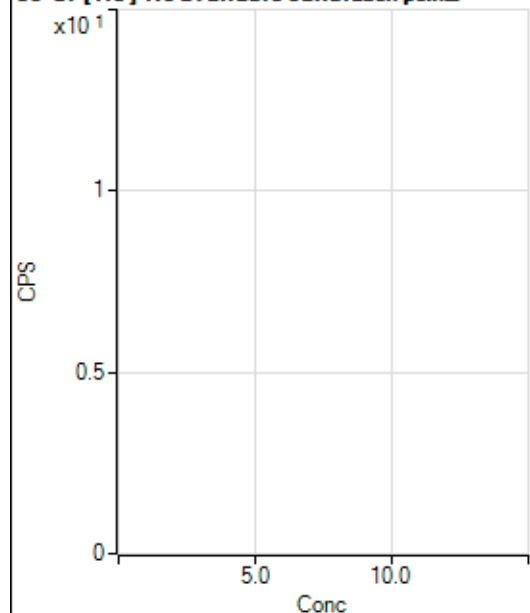
BEC = 9902

Weight: <None>

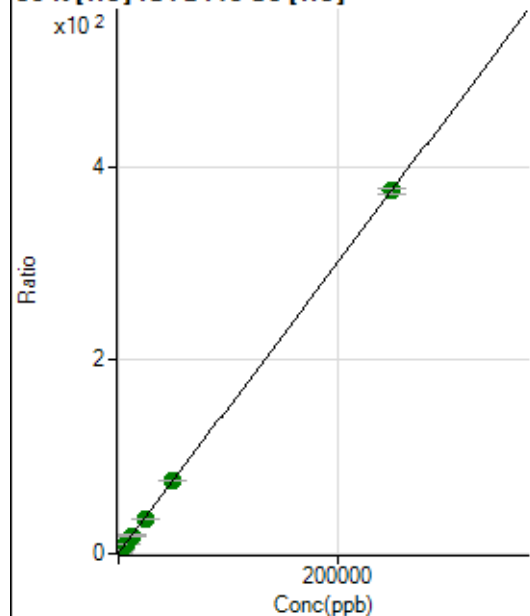
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	115279.08	0.3523	P	1.4
2	☐	500.000	510.669	366835.23	1.1169	P	0.8
3	☐	2500.000	2538.565	1375460.22	4.1535	A	0.6
4	☐	6250.000	6491.263	3295746.93	10.0721	A	0.2
5	☐	12500.000	12360.478	6141299.05	18.8605	A	1.2
6	☐	25000.000	23951.817	11829013.80	36.2171	A	0.6
7	☐	50000.000	50606.698	24852748.47	76.1295	A	0.3
8	☐	250000.00	249984.01	122268806.9	374.6721	A	1.7

$$y = 0.0015 * x + 0.3523$$

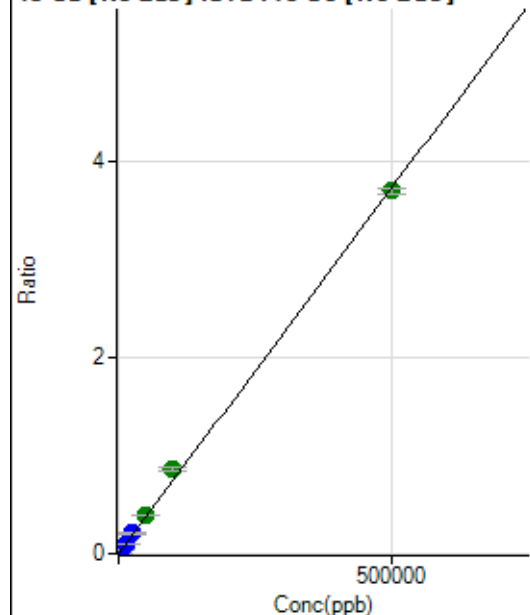
$$R = 1.0000$$

$$DL = 9.577$$

$$BEC = 235.3$$

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	211.12	0.0001	P	32.5
2	☐	500.000	504.488	14045.72	0.0038	P	1.1
3	☐	5000.000	6014.881	159392.48	0.0448	P	6.4
4	☐	12500.000	14271.847	396400.85	0.1062	P	2.0
5	☐	25000.000	27940.865	768719.78	0.2078	P	3.1
6	☐	50000.000	52992.029	1444903.37	0.3941	A	0.7
7	☐	100000.00	115470.99	3010030.04	0.8586	A	3.9
8	☐	500000.00	496405.10	13371047.52	3.6911	A	1.6

$$y = 7.4355\text{E-}006 * x + 5.5673\text{E-}005$$

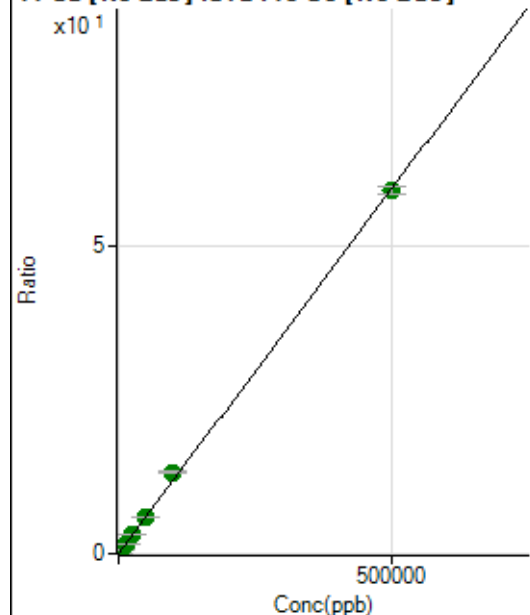
$$R = 0.9995$$

$$DL = 7.295$$

$$BEC = 7.487$$

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	11504.76	0.0030	P	1.0
2	☐	500.000	514.840	235806.50	0.0639	P	0.8
3	☐	5000.000	5632.117	2381345.52	0.6689	A	6.1
4	☐	12500.000	13108.627	5798067.32	1.5529	A	1.5
5	☐	25000.000	25840.391	11313452.08	3.0582	A	2.7
6	☐	50000.000	50691.226	21987279.66	5.9964	A	0.4
7	☐	100000.00	111796.78	46349682.98	13.2211	A	3.6
8	☐	500000.00	497507.94	213081486.7	58.8248	A	2.0

$$y = 1.1823\text{E-}004 * x + 0.0030$$

$$R = 0.9997$$

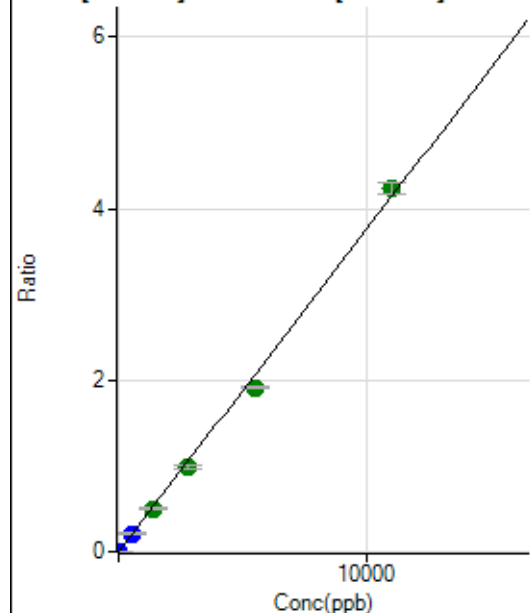
$$DL = 0.7702$$

$$BEC = 25.7$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94.45	0.0000	P	20.2
2	☐	5.000	4.594	6468.21	0.0018	P	3.2
3	☐	550.000	556.902	746070.99	0.2096	P	6.0
4	☐	1375.000	1336.664	1877955.23	0.5030	A	1.2
5	☐	2750.000	2615.947	3641085.24	0.9843	A	3.2
6	☐	5500.000	5089.667	7021815.17	1.9151	A	0.5
7	☐	11000.000	11243.127	14832621.51	4.2304	A	3.2
8	☐			2419.69	0.0007	P	6.6

$$y = 3.7627E-004 * x + 2.4887E-005$$

$$R = 0.9989$$

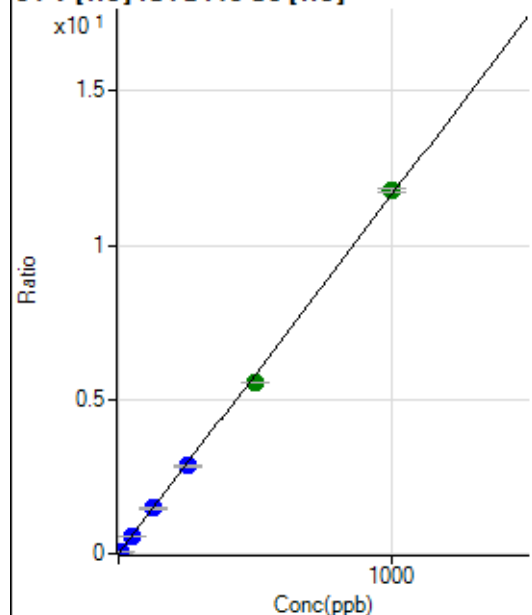
$$DL = 0.04012$$

$$BEC = 0.06614$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.34	0.0000	P	43.3
2	☐	5.000	4.752	18153.21	0.0553	P	0.7
3	☐	50.000	49.377	190079.05	0.5740	P	0.8
4	☐	125.000	126.604	481535.80	1.4717	P	1.1
5	☐	250.000	244.528	925534.23	2.8424	P	0.8
6	☐	500.000	478.543	1816849.00	5.5626	A	0.5
7	☐	1000.000	1011.929	3839917.93	11.7626	A	1.1
8	☐			715.58	0.0022	P	8.9

$$y = 0.0116 * x + 4.0749E-005$$

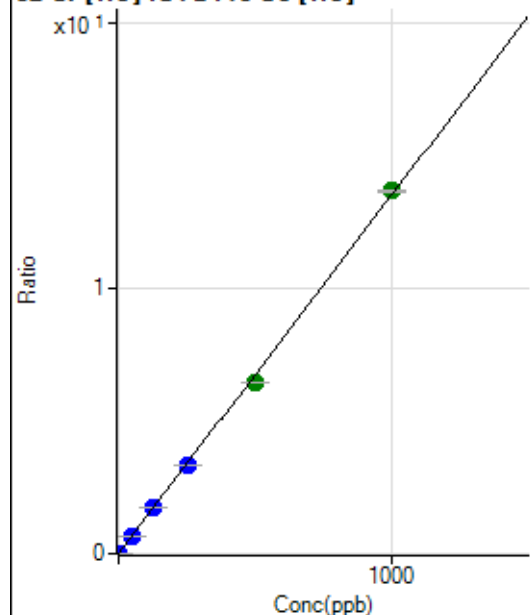
$$R = 0.9996$$

$$DL = 0.004553$$

$$BEC = 0.003506$$

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	891.14	0.0027	P	0.4
2	☐	2.000	1.881	9231.77	0.0281	P	2.8
3	☐	50.000	50.617	227141.21	0.6859	P	0.4
4	☐	125.000	128.613	568889.27	1.7386	P	0.9
5	☐	250.000	245.716	1080776.26	3.3192	P	1.1
6	☐	500.000	476.711	2102445.87	6.4370	A	0.4
7	☐	1000.000	1012.233	4461113.96	13.6651	A	0.5
8	☐			16732.71	0.0513	P	2.2

$$y = 0.0135 * x + 0.0027$$

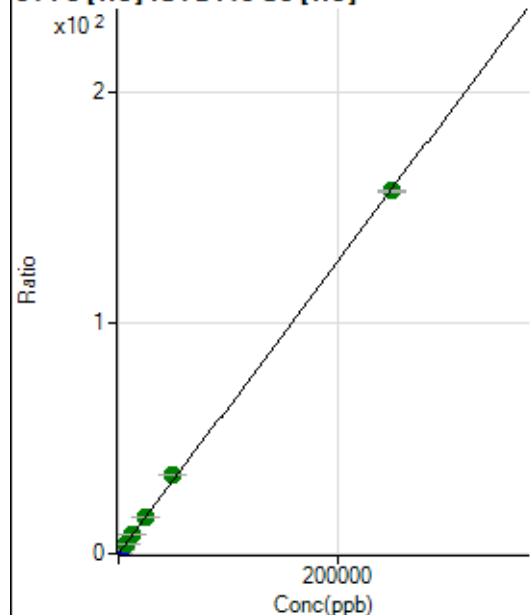
$$R = 0.9996$$

$$DL = 0.002471$$

$$BEC = 0.2017$$

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	1878.72	0.0057	P	10.2
2	☐	50.000	53.226	12938.82	0.0394	P	4.8
3	☐	2500.000	2773.486	582698.68	1.7596	P	0.8
4	☐	6250.000	6850.807	1419480.31	4.3380	A	0.8
5	☐	12500.000	13197.797	2719431.52	8.3516	A	0.6
6	☐	25000.000	25575.633	5284372.62	16.1789	A	0.7
7	☐	50000.000	54153.142	11181118.12	34.2503	A	0.3
8	☐	250000.00	249059.16	51398020.38	157.5021	A	0.4

$$y = 6.3237E-004 * x + 0.0057$$

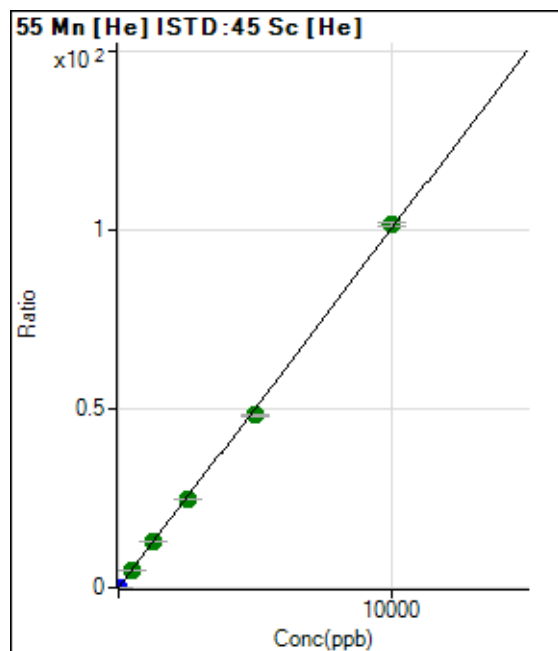
$$R = 0.9999$$

$$DL = 2.783$$

$$BEC = 9.086$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	307.78	0.0009	P	6.8
2	☐	1.000	1.001	3604.91	0.0110	P	2.9
3	☐	500.000	501.429	1664799.73	5.0273	A	0.7
4	☐	1250.000	1273.416	4177066.85	12.7658	A	0.7
5	☐	2500.000	2459.853	8029560.37	24.6587	A	0.4
6	☐	5000.000	4800.083	15715866.43	48.1173	A	0.9
7	☐	10000.000	10106.997	33073493.12	101.3142	A	1.0
8	☐			19666.29	0.0603	P	0.5

$$y = 0.0100 * x + 9.4036E-004$$

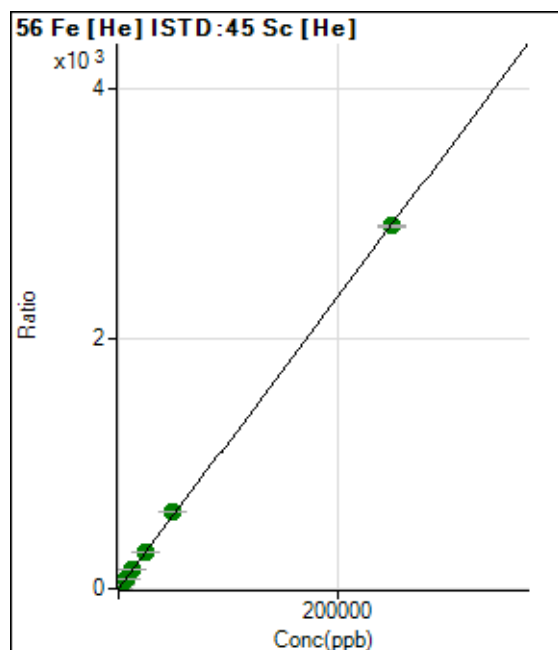
$$R = 0.9997$$

$$DL = 0.01925$$

$$BEC = 0.09381$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15721.33	0.0480	P	2.8
2	☐	50.000	51.267	211542.31	0.6441	P	0.9
3	☐	2500.000	2629.748	10140988.77	30.6229	A	0.3
4	☐	6250.000	6712.259	25550254.74	78.0882	A	1.2
5	☐	12500.000	12985.073	49174636.75	151.0192	A	0.7
6	☐	25000.000	25140.759	95485056.76	292.3475	A	1.2
7	☐	50000.000	52860.112	200639797.0	614.6270	A	1.2
8	☐	250000.00	249376.79	946172628.5	2899.431	A	0.4

$$y = 0.0116 * x + 0.0480$$

$$R = 0.9999$$

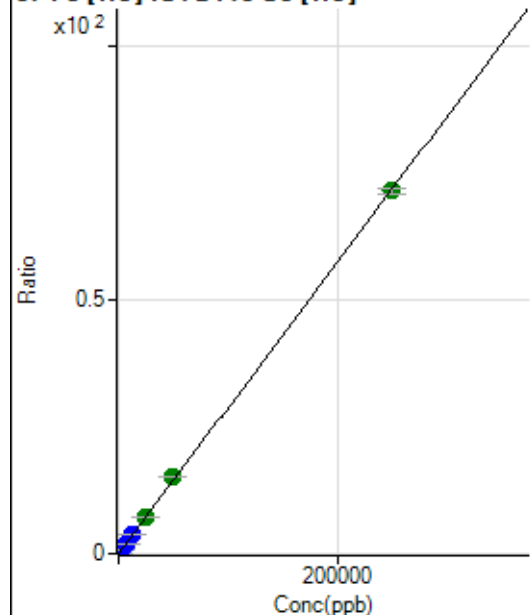
$$DL = 0.3504$$

$$BEC = 4.132$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	729.66	0.0022	P	7.6
2	☐	50.000	52.691	5695.61	0.0173	P	5.2
3	☐	2500.000	2689.453	256226.19	0.7737	P	0.2
4	☐	6250.000	6834.227	642199.38	1.9627	P	1.0
5	☐	12500.000	13239.646	1237360.18	3.8002	P	1.4
6	☐	25000.000	25206.602	2362437.67	7.2330	A	1.2
7	☐	50000.000	52826.312	4947734.60	15.1561	A	0.4
8	☐	250000.00	249360.59	23344559.55	71.5342	A	1.2

$$y = 2.8686E-004 * x + 0.0022$$

R = 0.9999

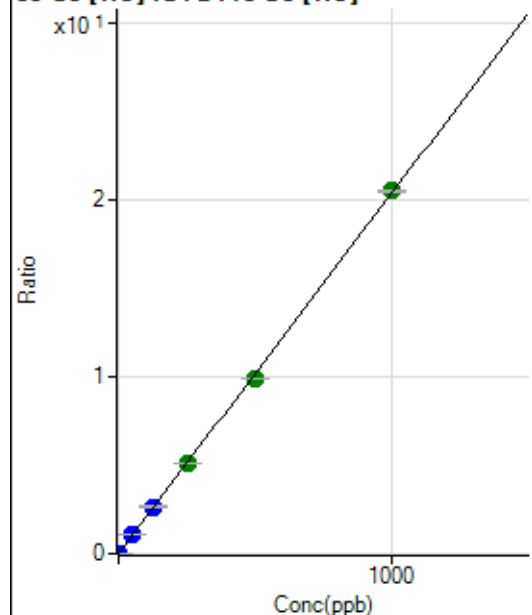
DL = 1.763

BEC = 7.778

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	124.45	0.0004	P	32.1
2	☐	1.000	0.988	6743.80	0.0205	P	1.3
3	☐	50.000	50.860	343655.48	1.0377	P	0.3
4	☐	125.000	130.372	870187.82	2.6595	P	1.3
5	☐	250.000	250.456	1663588.05	5.1088	A	0.4
6	☐	500.000	484.541	3228047.28	9.8833	A	0.5
7	☐	1000.000	1006.901	6704635.04	20.5376	A	0.8
8	☐			17312.29	0.0531	P	1.6

$$y = 0.0204 * x + 3.8142E-004$$

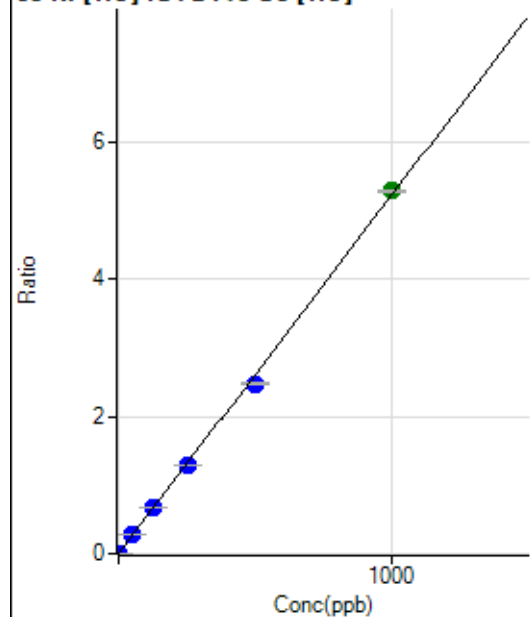
R = 0.9998

DL = 0.01803

BEC = 0.0187

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	244.45	0.0007	P	7.6
2	☐	1.000	1.038	2025.71	0.0062	P	3.9
3	☐	50.000	51.285	88965.15	0.2687	P	0.7
4	☐	125.000	130.559	223402.72	0.6828	P	1.2
5	☐	250.000	247.562	421343.26	1.2940	P	0.5
6	☐	500.000	474.650	810093.33	2.4802	P	0.8
7	☐	1000.000	1012.525	1726955.55	5.2900	A	0.3
8	☐			6976.12	0.0214	P	2.1

$$y = 0.0052 * x + 7.4650E-004$$

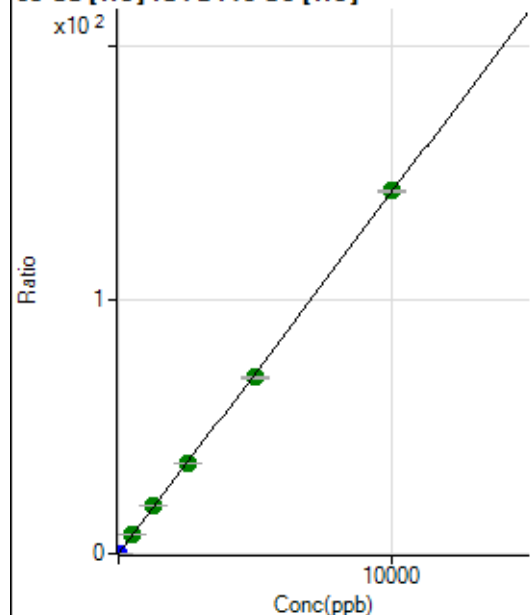
$$R = 0.9995$$

$$DL = 0.03246$$

$$BEC = 0.1429$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1975.71	0.0060	P	3.9
2	☐	2.000	2.016	11403.32	0.0347	P	1.4
3	☐	500.000	530.292	2500801.75	7.5514	A	1.2
4	☐	1250.000	1329.853	6193331.71	18.9282	A	0.9
5	☐	2500.000	2515.369	11656284.27	35.7966	A	0.3
6	☐	5000.000	4877.489	22669274.11	69.4065	A	0.6
7	☐	10000.000	10045.917	46666142.64	142.9467	A	0.2
8	☐			24792.83	0.0760	P	2.4

$$y = 0.0142 * x + 0.0060$$

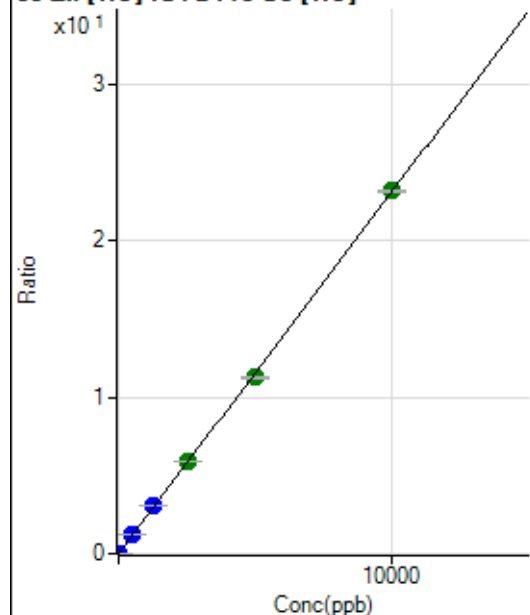
$$R = 0.9998$$

$$DL = 0.04961$$

$$BEC = 0.4243$$

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	435.56	0.0013	P	3.9
2	☐	2.000	2.063	2001.27	0.0061	P	4.4
3	☐	500.000	511.993	391933.64	1.1835	P	0.5
4	☐	1250.000	1311.938	991631.04	3.0306	P	0.9
5	☐	2500.000	2554.460	1920991.50	5.8997	A	1.2
6	☐	5000.000	4883.711	3683634.43	11.2780	A	1.0
7	☐	10000.000	10036.187	7565590.93	23.1752	A	0.5
8	☐			10266.94	0.0315	P	1.3

$$y = 0.0023 * x + 0.0013$$

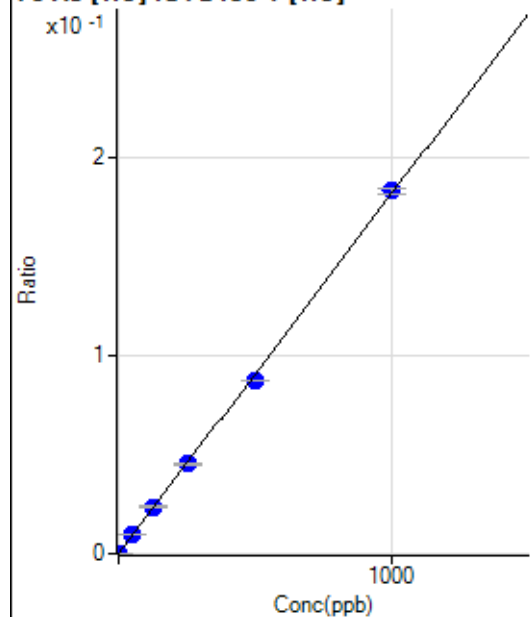
$$R = 0.9999$$

$$DL = 0.06697$$

$$BEC = 0.5765$$

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	7.41	0.0000	P	66.7
2	☐	1.000	0.964	482.73	0.0002	P	3.5
3	☐	50.000	51.370	25146.56	0.0093	P	1.1
4	☐	125.000	130.798	64202.40	0.0237	P	0.8
5	☐	250.000	250.219	122554.75	0.0454	P	1.9
6	☐	500.000	481.358	239150.10	0.0873	P	1.0
7	☐	1000.000	1008.473	500973.23	0.1829	P	1.5
8	☐			245.07	0.0001	P	4.3

$$y = 1.8132E-004 * x + 2.7546E-006$$

$$R = 0.9997$$

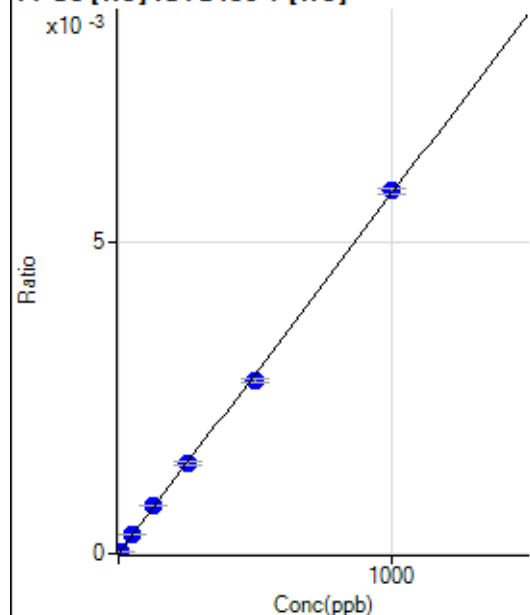
$$DL = 0.03038$$

$$BEC = 0.01519$$

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	0.00	0.0000	P	
2	☐	5.000	5.791	91.11	0.0000	P	9.7
3	☐	50.000	53.105	828.92	0.0003	P	3.8
4	☐	125.000	133.710	2092.39	0.0008	P	2.3
5	☐	250.000	251.174	3922.78	0.0015	P	4.4
6	☐	500.000	480.449	7612.02	0.0028	P	1.5
7	☐	1000.000	1008.234	15972.02	0.0058	P	1.9
8	☐			4.44	0.0000	P	44.5

$$y = 5.7817E-006 * x + 0.0000E+000$$

$$R = 0.9997$$

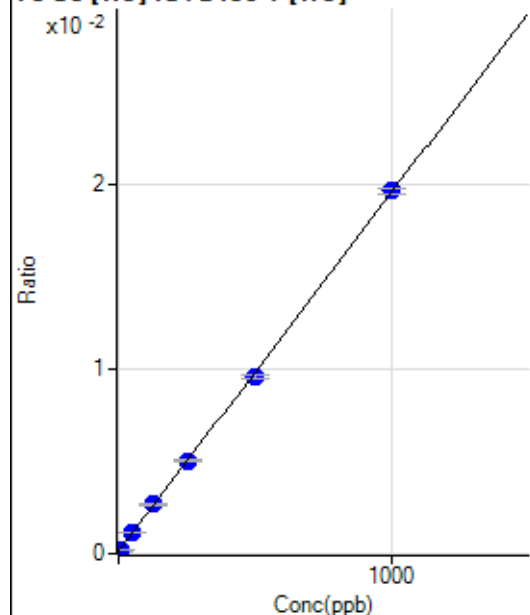
$$DL = 0$$

$$BEC = 0$$

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	354.94	0.0001	P	6.2
2	☐	5.000	5.374	641.99	0.0002	P	1.6
3	☐	50.000	51.882	3081.82	0.0011	P	1.6
4	☐	125.000	130.959	7259.82	0.0027	P	2.4
5	☐	250.000	253.142	13671.77	0.0051	P	1.5
6	☐	500.000	487.789	26387.64	0.0096	P	2.3
7	☐	1000.000	1004.479	53955.39	0.0197	P	1.5
8	☐			395.68	0.0001	P	6.3

$$y = 1.9475E-005 * x + 1.3142E-004$$

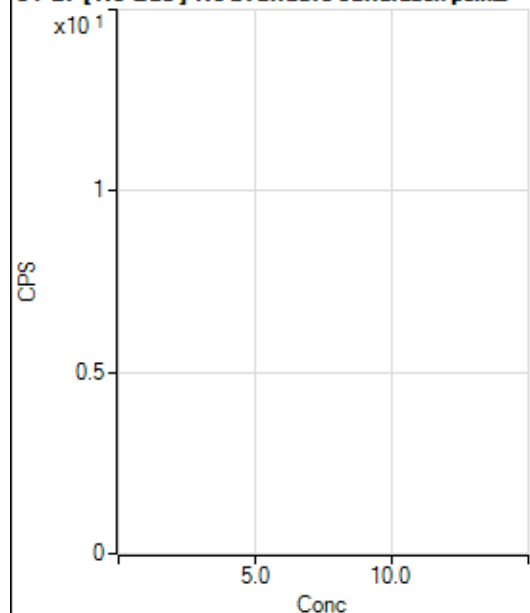
$$R = 0.9999$$

$$DL = 1.257$$

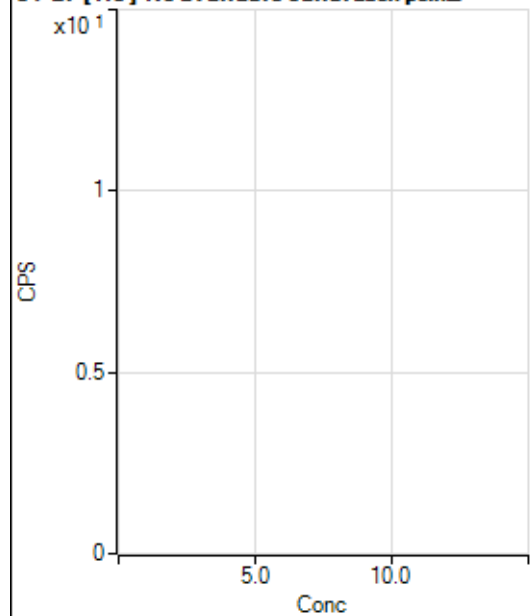
$$BEC = 6.748$$

Weight: <None>

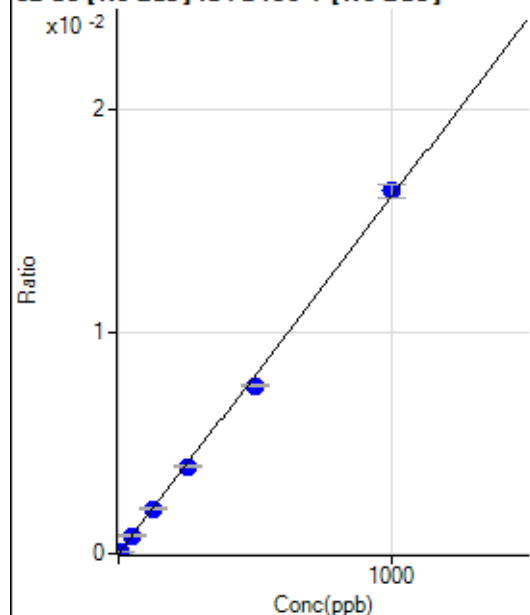
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23513.78		P	0.8
2	☐			23469.35		P	2.2
3	☐			23377.32		P	2.0
4	☐			23171.57		P	0.9
5	☐			22879.35		P	1.5
6	☐			22420.25		P	1.4
7	☐			23393.98		P	1.0
8	☐			24879.90		P	1.8

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			80.08		P	57.3
2	☐			86.75		P	37.1
3	☐			130.13		P	20.4
4	☐			70.07		P	14.3
5	☐			76.74		P	7.5
6	☐			83.42		P	18.3
7	☐			93.43		P	32.7
8	☐			83.42		P	56.7

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	71.79	0.0000	P	511.
2	☐	5.000	5.152	873.57	0.0001	P	38.5
3	☐	50.000	50.085	7698.03	0.0008	P	5.2
4	☐	125.000	125.325	19966.26	0.0020	P	2.7
5	☐	250.000	243.675	38605.98	0.0039	P	1.5
6	☐	500.000	470.596	74489.96	0.0076	P	0.4
7	☐	1000.000	1016.238	154796.89	0.0163	P	3.9
8	☐			23.81	0.0000	P	493.

$$y = 1.6070E-005 * x + 7.1919E-006$$

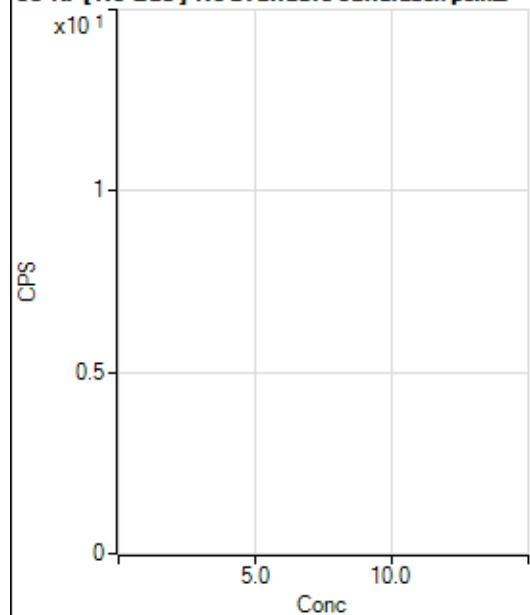
$$R = 0.9993$$

$$DL = 6.873$$

$$BEC = 0.4475$$

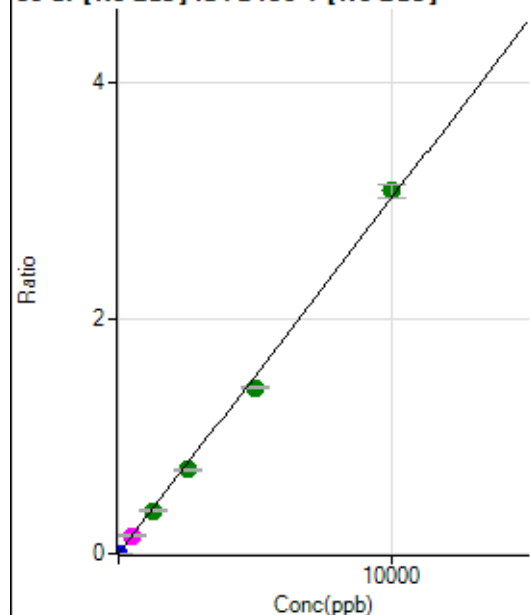
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			14546.13		P	2.7
2	☐			14621.77		P	2.0
3	☐			15187.91		P	0.9
4	☐			14908.72		P	2.2
5	☐			14779.72		P	1.6
6	☐			14816.41		P	2.2
7	☐			14482.76		P	2.8
8	☐			14459.40		P	1.6

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23126.89	0.0024	P	3.4
2	☐	1.000	1.110	26157.13	0.0027	P	2.5
3	☐	500.000	495.360	1438359.47	0.1518	M	5.3
4	☐	1250.000	1207.514	3621267.70	0.3665	A	2.1
5	☐	2500.000	2362.363	7033761.44	0.7148	A	2.3
6	☐	5000.000	4668.926	13879505.00	1.4105	A	0.3
7	☐	10000.000	10205.489	29184476.69	3.0803	A	3.9
8	☐			43748.91	0.0046	P	2.8

$$y = 3.0159\text{E-}004 * x + 0.0024$$

$$R = 0.9991$$

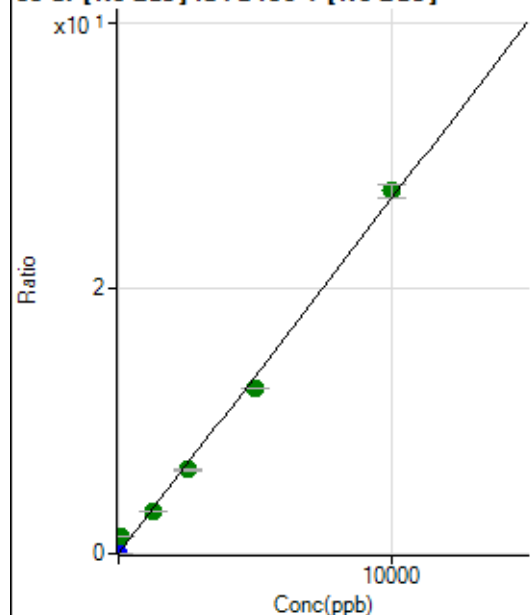
$$DL = 0.8081$$

$$BEC = 7.853$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	722.26	0.0001	P	6.7
2	☐	1.000	0.916	24426.39	0.0025	P	1.6
3	☐	50.000	494.915	12533893.94	1.3230	A	6.1
4	☐	1250.000	1203.634	31790484.05	3.2175	A	1.2
5	☐	2500.000	2364.628	62193515.28	6.3209	A	2.5
6	☐	5000.000	4642.115	122110629.1	12.4089	A	0.3
7	☐	10000.000	10216.357	258774969.6	27.3093	A	3.4
8	☐			186969.63	0.0197	P	2.1

$$y = 0.0027 * x + 7.3933\text{E-}005$$

$$R = 0.9976$$

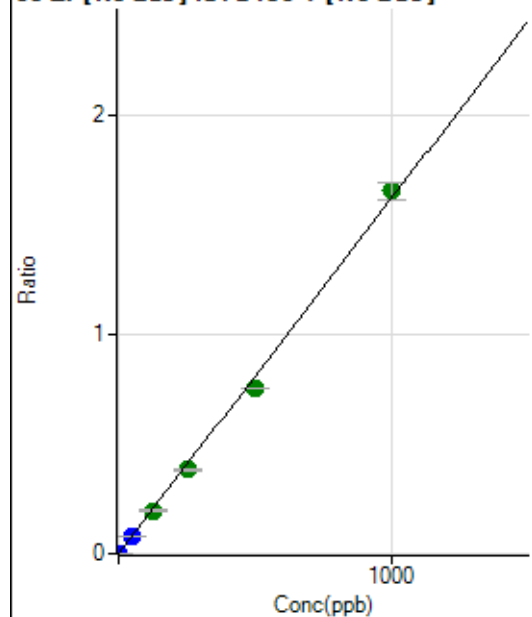
$$DL = 0.005544$$

$$BEC = 0.02766$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	544.47	0.0001	P	3.6
2	☐	1.000	0.900	14671.56	0.0015	P	2.3
3	☐	50.000	49.325	758594.64	0.0801	P	5.9
4	☐	125.000	121.411	1946313.39	0.1970	A	1.5
5	☐	250.000	235.581	3760698.52	0.3822	A	2.3
6	☐	500.000	466.242	7442892.53	0.7564	A	0.1
7	☐	1000.000	1020.966	15688334.38	1.6562	A	4.6
8	☐			8700.03	0.0009	P	7.0

$$y = 0.0016 * x + 5.5759E-005$$

$$R = 0.9990$$

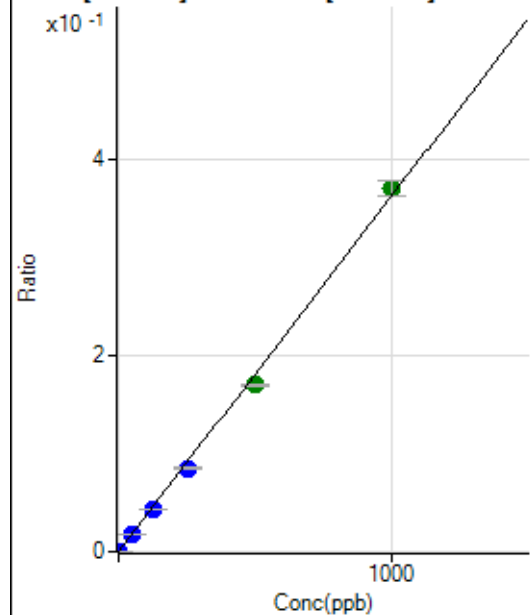
$$DL = 0.003763$$

$$BEC = 0.03437$$

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	113.89	0.0000	P	48.2
2	☐	1.000	0.877	3197.65	0.0003	P	3.6
3	☐	50.000	48.889	168219.86	0.0178	P	7.1
4	☐	125.000	119.444	428573.70	0.0434	P	2.8
5	☐	250.000	234.479	837898.84	0.0852	P	2.2
6	☐	500.000	468.138	1672961.50	0.1700	A	1.0
7	☐	1000.000	1020.561	3510929.98	0.3706	A	4.2
8	☐			1930.73	0.0002	P	10.7

$$y = 3.6312E-004 * x + 1.1701E-005$$

$$R = 0.9991$$

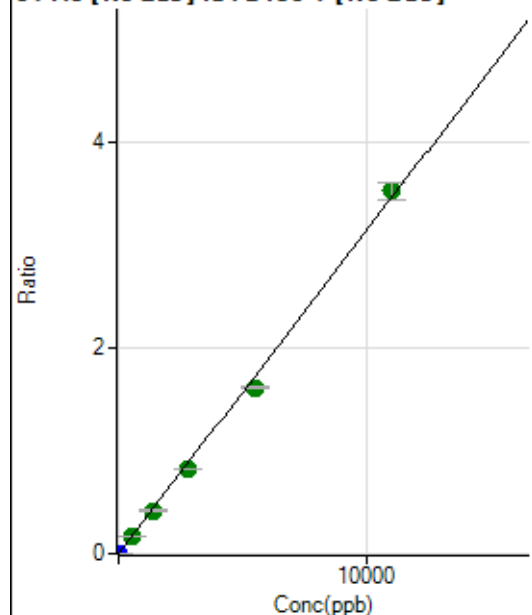
$$DL = 0.04657$$

$$BEC = 0.03222$$

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	241.68	0.0000	P	24.3
2	☐	5.000	5.415	16732.18	0.0017	P	1.5
3	☐	550.000	544.298	1622935.81	0.1713	A	6.0
4	☐	1375.000	1333.650	4146081.34	0.4197	A	2.5
5	☐	2750.000	2620.847	8115512.16	0.8247	A	1.8
6	☐	5500.000	5141.017	15917952.96	1.6177	A	1.1
7	☐	11000.000	11217.233	33437377.48	3.5297	A	4.5
8	☐			11807.87	0.0012	P	9.2

$$y = 3.1467\text{E-}004 * x + 2.4760\text{E-}005$$

$$R = 0.9991$$

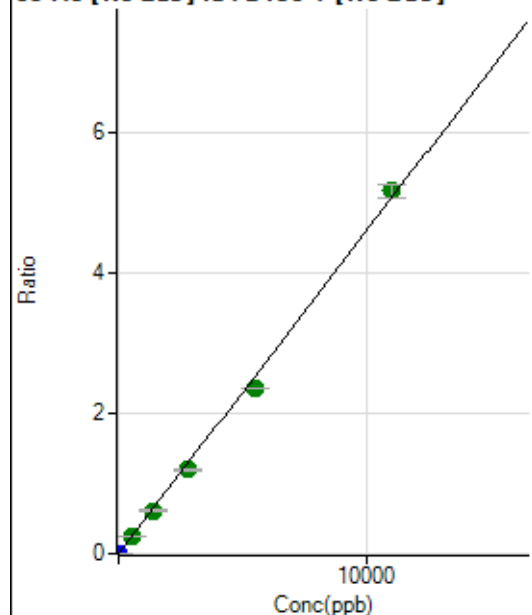
$$DL = 0.05729$$

$$BEC = 0.07869$$

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	83.34	0.0000	P	9.3
2	☐	5.000	4.635	20704.04	0.0021	P	1.0
3	☐	550.000	536.544	2336226.48	0.2466	A	6.4
4	☐	1375.000	1332.810	6051812.29	0.6126	A	3.1
5	☐	2750.000	2596.011	11741367.89	1.1933	A	2.4
6	☐	5500.000	5142.677	23261250.35	2.3639	A	0.0
7	☐	11000.000	11223.106	48881621.93	5.1587	A	3.4
8	☐			14632.68	0.0015	P	10.7

$$y = 4.5965\text{E-}004 * x + 8.5307\text{E-}006$$

$$R = 0.9991$$

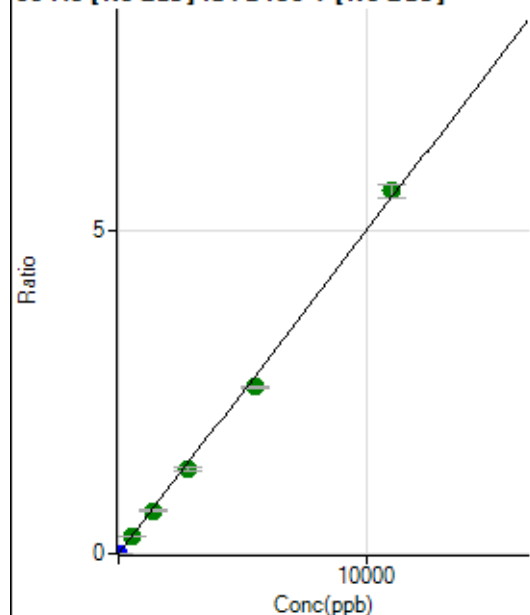
$$DL = 0.005163$$

$$BEC = 0.01856$$

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	147.23	0.0000	P	3.7
2	☐	5.000	4.702	22960.22	0.0024	P	2.3
3	☐	550.000	547.423	2600227.83	0.2745	A	6.1
4	☐	1375.000	1330.050	6586666.16	0.6668	A	3.6
5	☐	2750.000	2618.572	12916766.43	1.3128	A	3.0
6	☐	5500.000	5154.604	25429056.12	2.5843	A	1.1
7	☐	11000.000	11211.303	53252736.61	5.6208	A	3.9
8	☐			24287.43	0.0026	P	7.0

$$y = 5.0135E-004 * x + 1.5080E-005$$

$$R = 0.9992$$

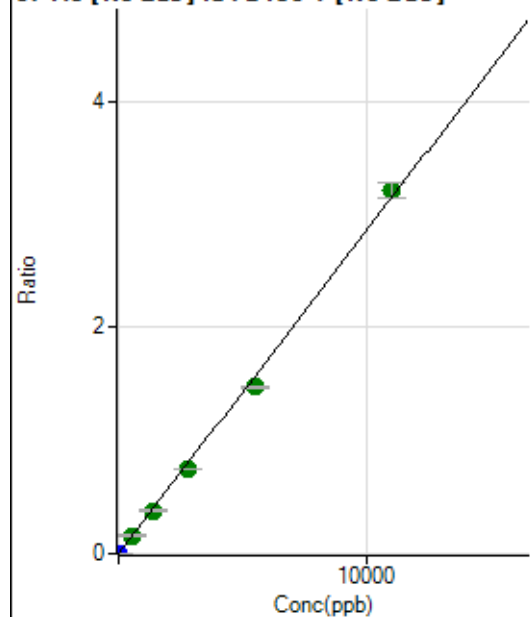
$$DL = 0.003379$$

$$BEC = 0.03008$$

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	38.89	0.0000	P	13.0
2	☐	5.000	4.585	12725.31	0.0013	P	1.9
3	☐	550.000	547.861	1483314.51	0.1566	A	7.2
4	☐	1375.000	1336.084	3773712.76	0.3820	A	2.8
5	☐	2750.000	2610.854	7345982.02	0.7465	A	1.7
6	☐	5500.000	5148.608	14485062.30	1.4721	A	1.1
7	☐	11000.000	11215.454	30379104.50	3.2068	A	4.2
8	☐			8997.43	0.0009	P	6.5

$$y = 2.8592E-004 * x + 3.9854E-006$$

$$R = 0.9992$$

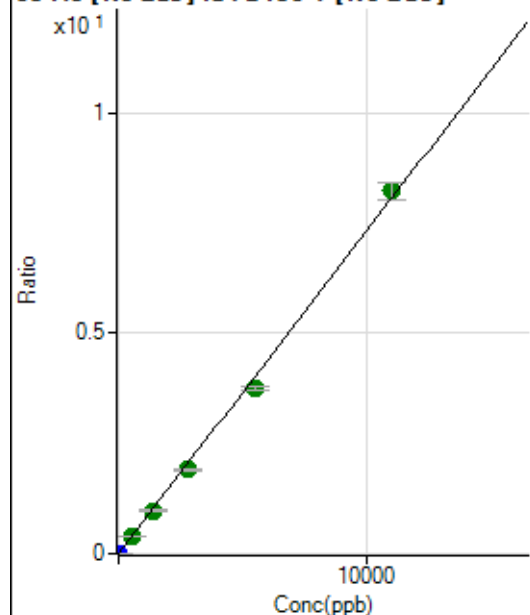
$$DL = 0.005456$$

$$BEC = 0.01394$$

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	133.33	0.0000	P	11.9
2	☐	5.000	4.602	32781.69	0.0034	P	3.4
3	☐	550.000	545.332	3787559.85	0.3998	A	6.3
4	☐	1375.000	1329.597	9630134.50	0.9748	A	2.3
5	☐	2750.000	2604.132	18787311.36	1.9093	A	1.9
6	☐	5500.000	5116.317	36908728.26	3.7511	A	1.4
7	☐	11000.000	11234.218	78022612.16	8.2365	A	4.5
8	☐			23213.49	0.0024	P	11.9

$$y = 7.3316\text{E-}004 * x + 1.3666\text{E-}005$$

$$R = 0.9990$$

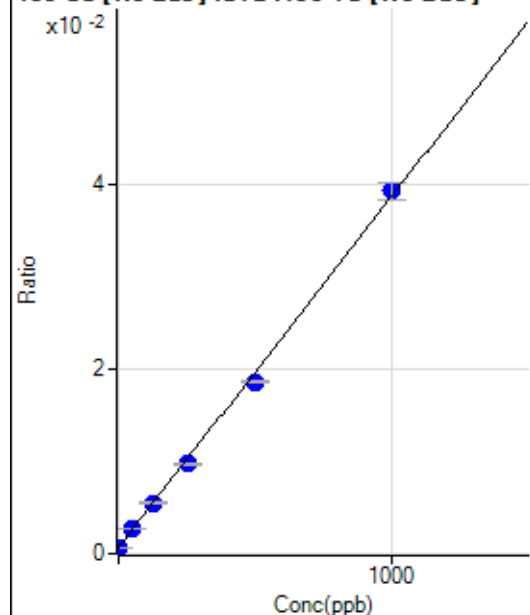
$$DL = 0.006666$$

$$BEC = 0.01864$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4384.06	0.0007	P	5.6
2	☐	1.000	0.501	4466.02	0.0007	P	3.4
3	☐	50.000	53.359	16987.82	0.0027	P	5.5
4	☐	125.000	127.087	36650.38	0.0055	P	0.7
5	☐	250.000	238.760	65749.16	0.0098	P	2.4
6	☐	500.000	471.926	124785.28	0.0187	P	1.5
7	☐	1000.000	1016.419	252252.02	0.0394	P	4.9
8	☐			4504.92	0.0007	P	3.5

$$y = 3.8093\text{E-}005 * x + 6.8720\text{E-}004$$

$$R = 0.9993$$

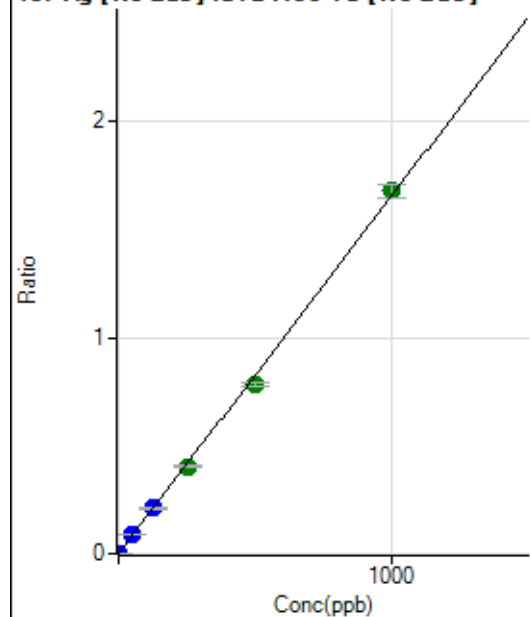
$$DL = 3.03$$

$$BEC = 18.04$$

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	59.72	0.0000	P	18.4
2	☐	1.000	0.955	10038.32	0.0016	P	5.4
3	☐	50.000	53.073	547942.48	0.0877	P	5.8
4	☐	125.000	127.162	1393678.59	0.2102	P	1.9
5	☐	250.000	244.076	2711253.71	0.4035	A	3.6
6	☐	500.000	472.810	5225316.65	0.7815	A	1.5
7	☐	1000.000	1014.652	10740954.58	1.6772	A	3.5
8	☐			3995.04	0.0006	P	4.4

$$y = 0.0017 * x + 9.3635E-006$$

$$R = 0.9994$$

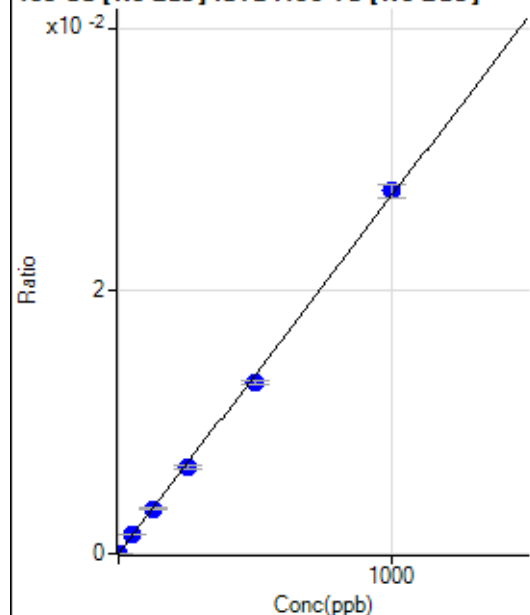
$$DL = 0.003125$$

$$BEC = 0.005665$$

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	69.45	0.0000	P	26.4
2	☐	1.000	0.883	220.84	0.0000	P	11.1
3	☐	50.000	52.510	9004.27	0.0014	P	5.1
4	☐	125.000	125.168	22677.56	0.0034	P	1.5
5	☐	250.000	241.532	44293.83	0.0066	P	2.3
6	☐	500.000	476.389	86825.61	0.0130	P	2.1
7	☐	1000.000	1013.776	176912.48	0.0276	P	3.6
8	☐			137.50	0.0000	P	11.7

$$y = 2.7240E-005 * x + 1.0845E-005$$

$$R = 0.9995$$

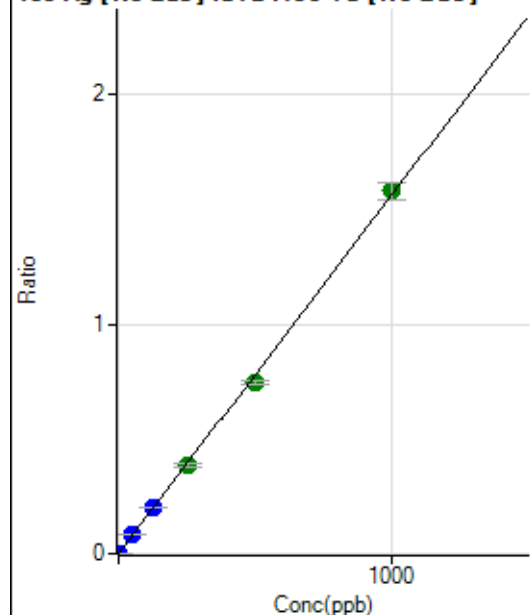
$$DL = 0.315$$

$$BEC = 0.3981$$

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	20.83	0.0000	P	1.9
2	☐	1.000	0.928	9178.01	0.0015	P	5.5
3	☐	50.000	53.391	520093.07	0.0833	P	5.6
4	☐	125.000	127.728	1320699.00	0.1992	P	1.0
5	☐	250.000	247.110	2590278.66	0.3854	A	2.6
6	☐	500.000	475.265	4955362.61	0.7412	A	2.2
7	☐	1000.000	1012.580	10110009.25	1.5792	A	4.7
8	☐			3743.58	0.0006	P	2.4

$$y = 0.0016 * x + 3.2638E-006$$

$$R = 0.9995$$

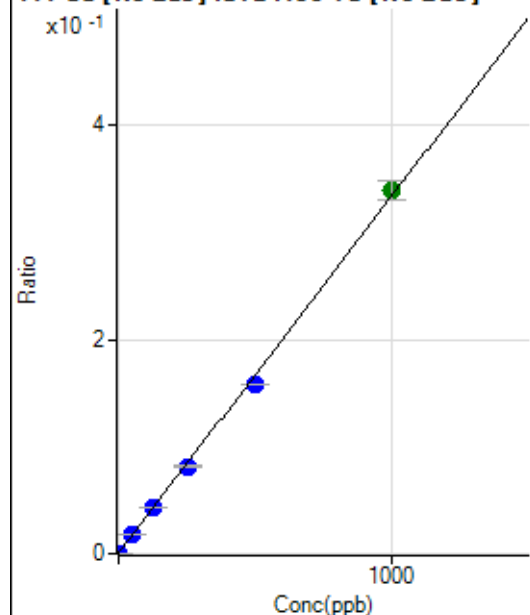
$$DL = 0.0001207$$

$$BEC = 0.002093$$

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	3036.89	0.0005	P	5.6
2	☐	1.000	0.980	5075.98	0.0008	P	2.8
3	☐	50.000	52.707	112684.71	0.0180	P	5.7
4	☐	125.000	126.824	283410.05	0.0427	P	1.1
5	☐	250.000	243.167	547894.53	0.0815	P	2.9
6	☐	500.000	472.072	1055254.81	0.1578	P	0.3
7	☐	1000.000	1015.309	2169049.14	0.3389	A	5.3
8	☐			3711.38	0.0006	P	1.5

$$y = 3.3330E-004 * x + 4.7604E-004$$

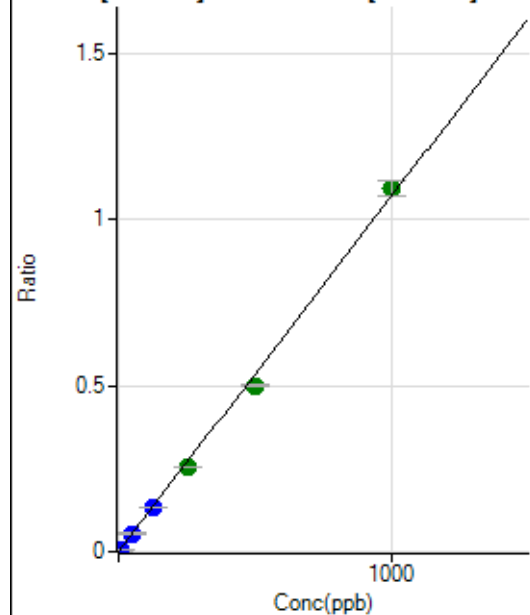
$$R = 0.9994$$

$$DL = 0.2404$$

$$BEC = 1.428$$

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	3425.49	0.0005	P	6.7
2	☐	5.000	4.662	34979.14	0.0055	P	0.5
3	☐	50.000	50.392	340529.97	0.0545	P	5.5
4	☐	125.000	122.548	873929.78	0.1318	P	1.4
5	☐	250.000	237.592	1714384.43	0.2551	A	2.1
6	☐	500.000	466.180	3342646.21	0.4999	A	1.0
7	☐	1000.000	1020.300	7001427.33	1.0935	A	4.3
8	☐			4895.42	0.0008	P	6.0

$$y = 0.0011 * x + 5.3677E-004$$

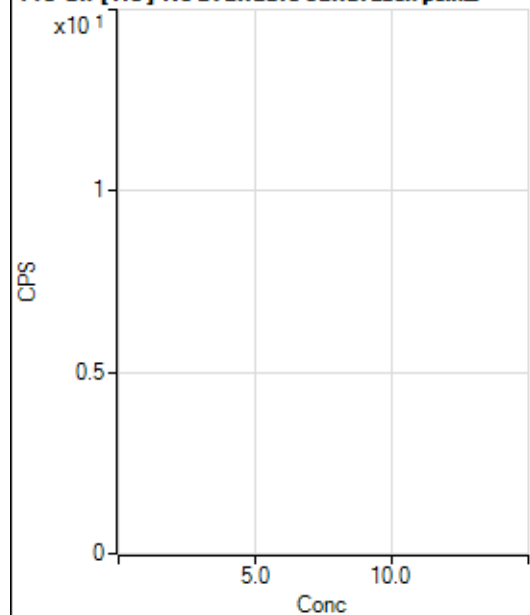
$$R = 0.9991$$

$$DL = 0.1013$$

$$BEC = 0.5011$$

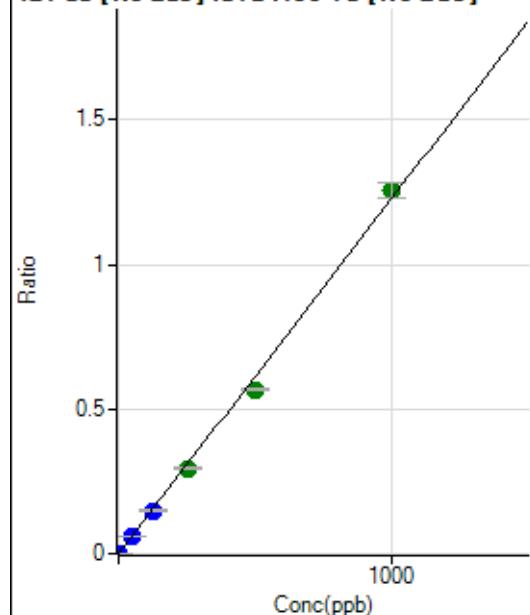
Weight: <None>

Min Conc: 0

118 Sn [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1601.74		P	8.3
2	☐			16472.92		P	1.5
3	☐			156792.05		P	0.7
4	☐			406773.68		P	1.2
5	☐			777646.42		P	0.5
6	☐			1536279.73		M	0.8
7	☐			3283643.84		A	1.3
8	☐			2072.29		P	6.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	40.28	0.0000	P	24.7
2	☐	2.000	1.844	14340.65	0.0023	P	1.4
3	☐	50.000	49.976	382925.99	0.0613	P	5.6
4	☐	125.000	121.666	989491.35	0.1492	P	1.1
5	☐	250.000	239.545	1974849.98	0.2938	A	2.8
6	☐	500.000	461.869	3787911.50	0.5666	A	1.2
7	☐	1000.000	1022.098	8027737.51	1.2537	A	4.1
8	☐			5709.54	0.0009	P	2.3

$$y = 0.0012 * x + 6.2970E-006$$

$$R = 0.9989$$

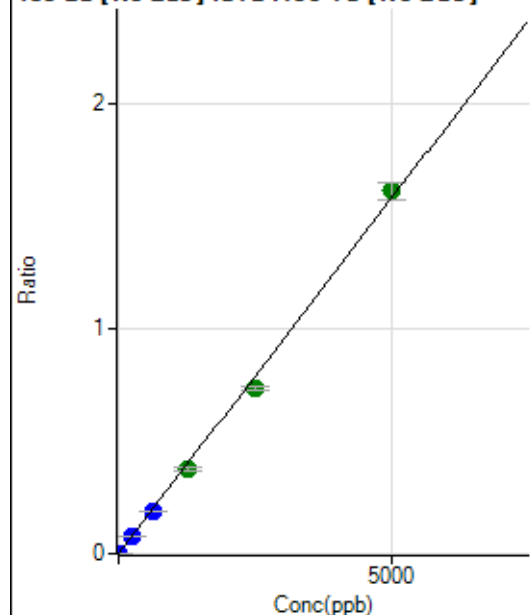
$$DL = 0.003803$$

$$BEC = 0.005134$$

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	16.67	0.0000	P	99.0
2	☐	10.000	9.112	18248.23	0.0029	P	1.0
3	☐	250.000	247.743	489459.33	0.0784	P	6.2
4	☐	625.000	602.081	1263073.58	0.1905	P	1.8
5	☐	1250.000	1192.041	2534470.93	0.3772	A	4.0
6	☐	2500.000	2328.426	4925807.49	0.7367	A	1.4
7	☐	5000.000	5103.256	10336380.87	1.6147	A	5.0
8	☐			4403.57	0.0007	P	5.4

$$y = 3.1641E-004 * x + 2.5799E-006$$

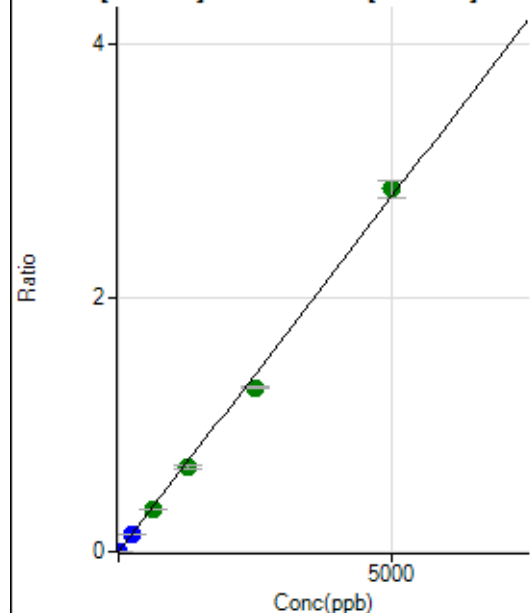
$$R = 0.9991$$

$$DL = 0.02422$$

$$BEC = 0.008154$$

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	36.11	0.0000	P	54.0
2	☐	10.000	9.214	32579.56	0.0052	P	1.8
3	☐	250.000	247.146	861434.71	0.1380	P	7.1
4	☐	625.000	604.377	2237664.65	0.3375	A	1.0
5	☐	1250.000	1184.892	4446594.20	0.6617	A	3.9
6	☐	2500.000	2314.111	8641058.18	1.2923	A	1.4
7	☐	5000.000	5111.944	18275346.59	2.8548	A	4.8
8	☐			8169.20	0.0013	P	7.4

$$y = 5.5846E-004 * x + 5.6710E-006$$

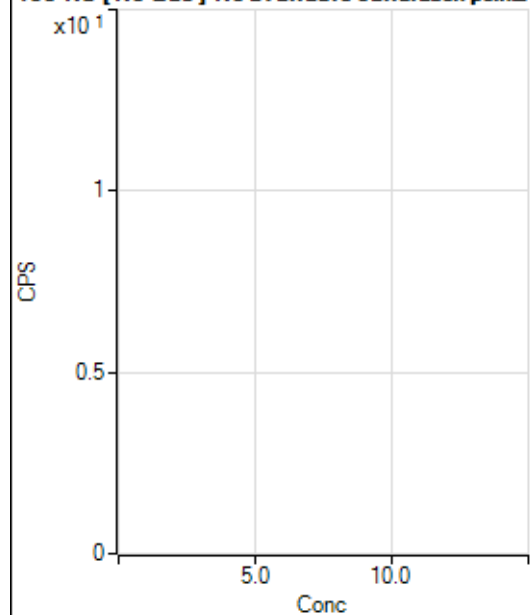
$$R = 0.9989$$

$$DL = 0.01646$$

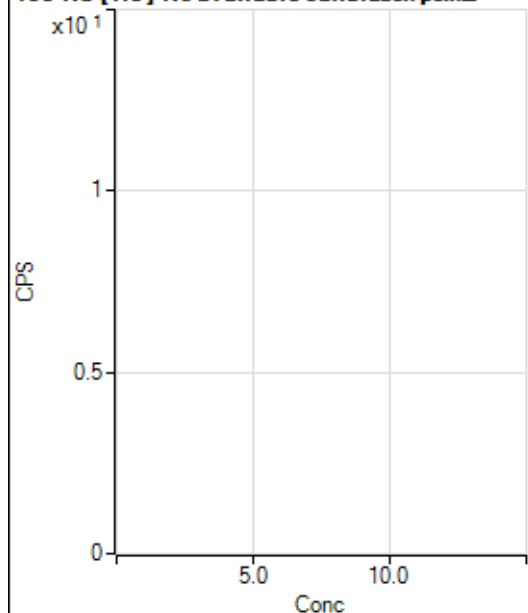
$$BEC = 0.01015$$

Weight: <None>

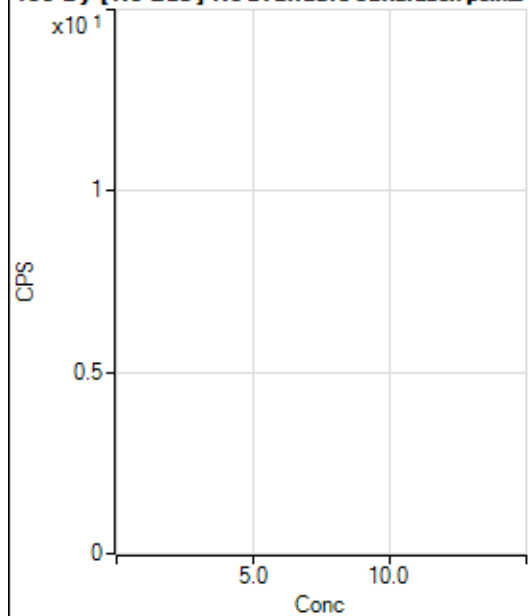
Min Conc: 0

150 Nd [No Gas] No available calibration points

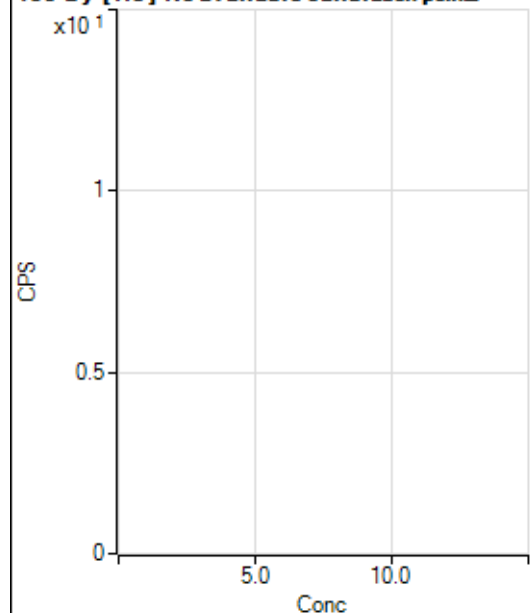
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	173.
3	☐			71.11		P	39.0
4	☐			164.45		P	14.2
5	☐			277.79		P	33.6
6	☐			506.69		P	4.7
7	☐			1148.96		P	10.5
8	☐			75.56		P	31.0

150 Nd [He] No available calibration points

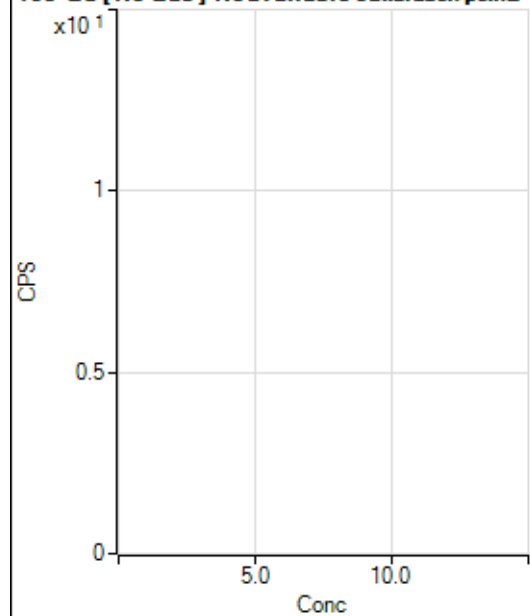
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.
3	☐			13.33		P	43.3
4	☐			28.89		P	26.6
5	☐			57.78		P	14.5
6	☐			106.67		P	23.6
7	☐			227.78		P	13.2
8	☐			53.33		P	31.2

156 Dy [No Gas] No available calibration points

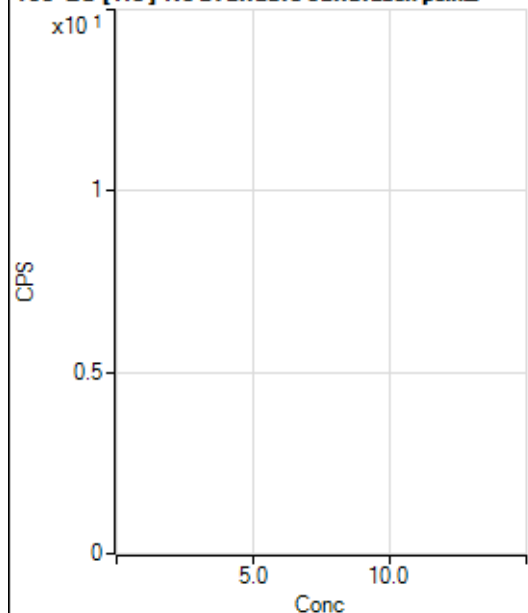
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			8.33		P	0.0
3	☐			27.78		P	34.6
4	☐			47.22		P	44.4
5	☐			141.67		P	21.2
6	☐			283.34		P	7.8
7	☐			544.47		P	5.8
8	☐			1614.03		P	13.5

156 Dy [He] No available calibration points

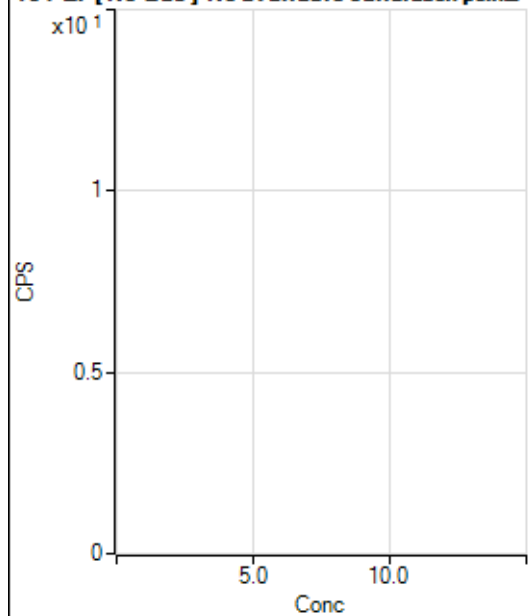
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			6.67		P	100.
3	☐			35.55		P	10.8
4	☐			53.33		P	33.1
5	☐			157.78		P	10.6
6	☐			268.89		P	12.4
7	☐			523.35		P	4.0
8	☐			1334.52		P	3.4

160 Gd [No Gas] Noavailable calibration poin_

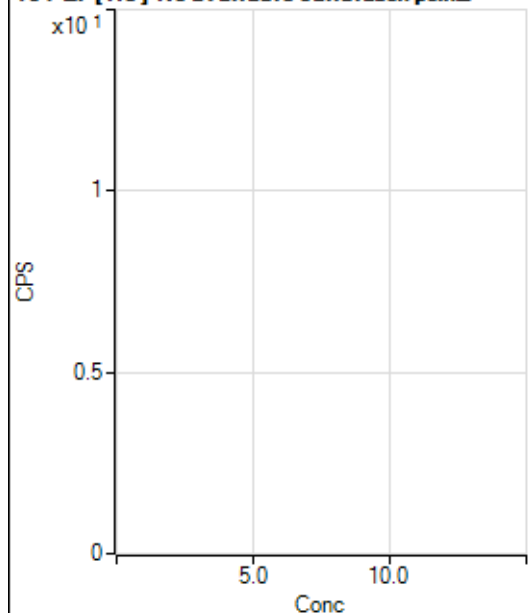
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	25.0
2	☐			72.22		P	48.0
3	☐			86.12		P	53.3
4	☐			102.78		P	16.9
5	☐			116.67		P	32.7
6	☐			180.56		P	9.6
7	☐			369.46		P	15.8
8	☐			1383.43		P	8.8

160 Gd [He] No available calibration points

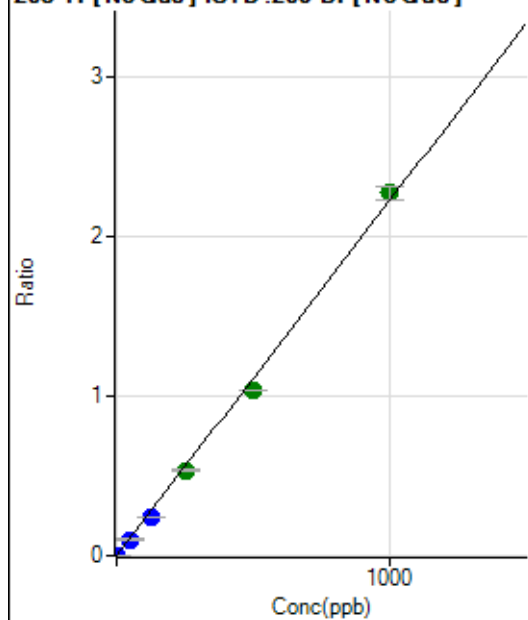
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			157.78		P	8.0
2	☐			157.78		P	9.5
3	☐			184.45		P	19.3
4	☐			196.67		P	17.9
5	☐			223.34		P	18.2
6	☐			304.45		P	6.2
7	☐			378.90		P	7.7
8	☐			1377.86		P	2.7

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			58.33		P	14.3
2	☐			30.56		P	41.7
3	☐			44.45		P	65.8
4	☐			61.11		P	7.9
5	☐			83.34		P	0.0
6	☐			119.45		P	21.3
7	☐			163.89		P	10.6
8	☐			244.45		P	34.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	19.8
2	☐			21.11		P	9.1
3	☐			30.00		P	11.1
4	☐			47.78		P	24.5
5	☐			64.45		P	32.9
6	☐			55.56		P	40.0
7	☐			76.67		P	30.4
8	☐			170.00		P	11.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	277.79	0.0001	P	13.9
2	☐	1.000	0.798	6938.11	0.0019	P	2.2
3	☐	50.000	44.947	359754.17	0.1002	P	5.3
4	☐	125.000	108.905	936752.47	0.2426	P	2.2
5	☐	250.000	239.345	2066298.96	0.5331	A	1.7
6	☐	500.000	465.606	4013516.10	1.0369	A	0.4
7	☐	1000.000	1022.125	8176518.15	2.2762	A	3.8
8	☐			2286.38	0.0007	P	14.9

$$y = 0.0022 * x + 7.3913E-005$$

$$R = 0.9990$$

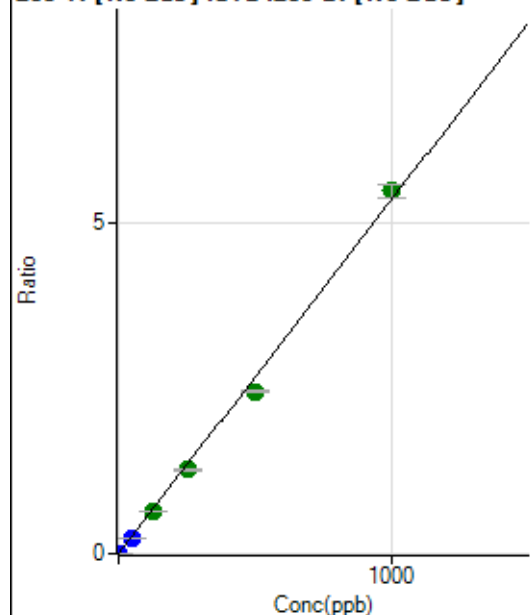
$$DL = 0.01382$$

$$BEC = 0.03319$$

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	561.14	0.0001	P	18.7
2	☐	1.000	0.787	16343.88	0.0044	P	4.8
3	☐	50.000	44.629	858340.87	0.2390	P	5.4
4	☐	125.000	119.071	2461434.17	0.6374	A	1.8
5	☐	250.000	238.104	4939984.75	1.2745	A	2.5
6	☐	500.000	457.478	9477304.38	2.4485	A	1.1
7	☐	1000.000	1025.245	19710863.11	5.4872	A	3.7
8	☐			4934.43	0.0015	P	10.5

$$y = 0.0054 * x + 1.4931E-004$$

$$R = 0.9986$$

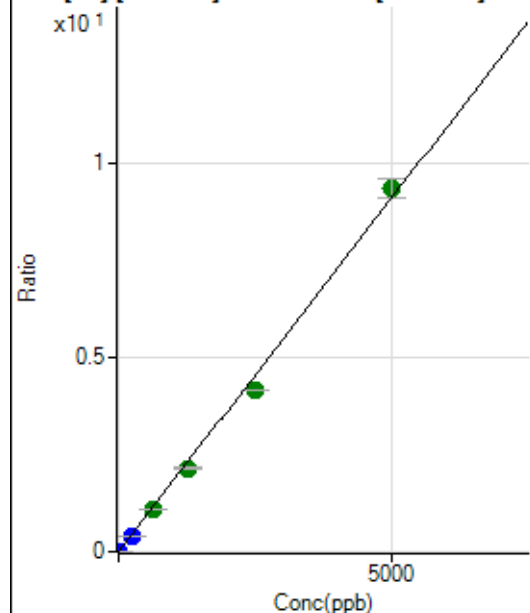
$$DL = 0.01564$$

$$BEC = 0.0279$$

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	116.67	0.0000	P	19.8
2	☐	1.000	0.775	5391.93	0.0014	P	4.0
3	☐	250.000	218.703	1427464.80	0.3973	P	4.4
4	☐	625.000	591.875	4152606.60	1.0752	A	0.5
5	☐	1250.000	1176.654	8285632.48	2.1375	A	2.0
6	☐	2500.000	2285.386	16069465.06	4.1516	A	0.2
7	☐	5000.000	5131.349	33473743.34	9.3216	A	5.2
8	☐			11540.42	0.0035	P	4.5

$$y = 0.0018 * x + 3.1017E-005$$

$$R = 0.9986$$

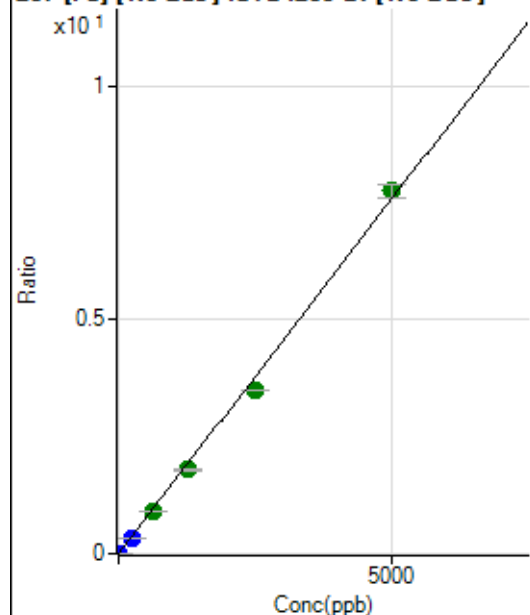
$$DL = 0.01017$$

$$BEC = 0.01707$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	114.82	0.0000	P	31.9
2	☐	1.000	0.776	4523.07	0.0012	P	1.7
3	☐	250.000	218.157	1188371.10	0.3308	P	4.9
4	☐	625.000	597.888	3501399.18	0.9066	A	1.0
5	☐	1250.000	1182.149	6948441.47	1.7926	A	1.7
6	☐	2500.000	2308.898	13551294.86	3.5011	A	0.5
7	☐	5000.000	5117.495	27874036.04	7.7598	A	3.9
8	☐			9355.34	0.0028	P	2.0

$$y = 0.0015 * x + 3.0598E-005$$

$$R = 0.9989$$

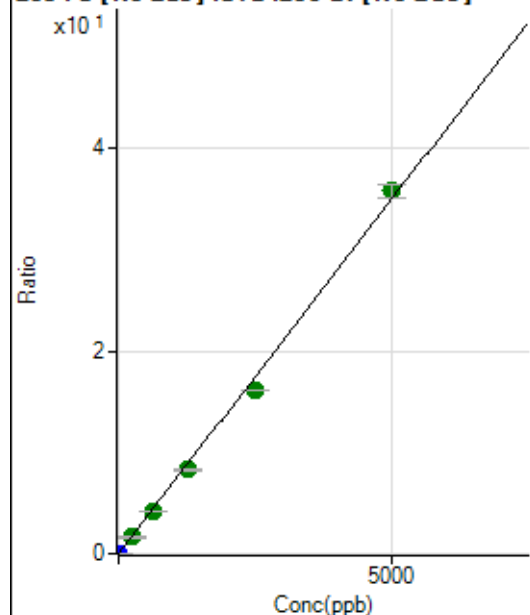
$$DL = 0.01932$$

$$BEC = 0.02018$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	590.76	0.0002	P	7.6
2	☐	1.000	0.779	20986.49	0.0056	P	2.4
3	☐	250.000	233.786	5865981.52	1.6332	A	5.3
4	☐	625.000	596.018	16079081.26	4.1636	A	1.1
5	☐	1250.000	1182.447	32018385.67	8.2601	A	1.9
6	☐	2500.000	2300.909	62213065.51	16.0730	A	0.1
7	☐	5000.000	5120.867	128489991.5	35.7716	A	4.0
8	☐			44025.88	0.0134	P	2.5

$$y = 0.0070 * x + 1.5723E-004$$

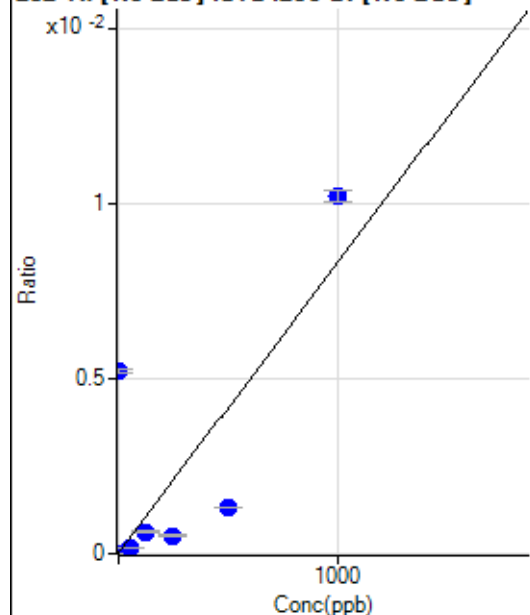
$$R = 0.9988$$

$$DL = 0.0051$$

$$BEC = 0.02251$$

Weight: <None>

Min Conc: 0

232 Th [No Gas] ISTD :209 Bi [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70.37	0.0000	P	8.2
2	☐	1.000	627.386	19594.91	0.0052	P	2.3
3	☐	50.000	16.781	568.54	0.0002	P	3.7
4	☐	125.000	73.159	2418.79	0.0006	P	4.1
5	☐	250.000	60.020	2005.75	0.0005	P	3.3
6	☐	500.000	156.742	5112.21	0.0013	P	1.6
7	☐	1000.000	1226.639	36672.96	0.0102	P	3.3
8	☐			248.16	0.0001	P	13.8

$$y = 8.3065E-006 * x + 1.8720E-005$$

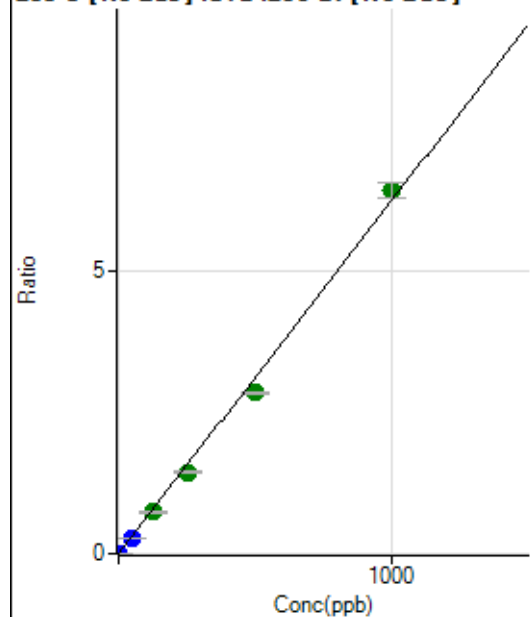
$$R = 0.7314$$

$$DL = 0.5549$$

$$BEC = 2.254$$

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	41.66	0.0000	P	33.7
2	☐	1.000	0.800	18758.73	0.0050	P	1.1
3	☐	50.000	43.633	979055.21	0.2725	P	4.3
4	☐	125.000	117.876	2842465.56	0.7361	A	2.3
5	☐	250.000	231.354	5600046.91	1.4448	A	2.6
6	☐	500.000	455.416	11008026.11	2.8440	A	1.2
7	☐	1000.000	1028.163	23061403.47	6.4208	A	4.4
8	☐			3242.18	0.0010	P	6.3

$$y = 0.0062 * x + 1.1067E-005$$

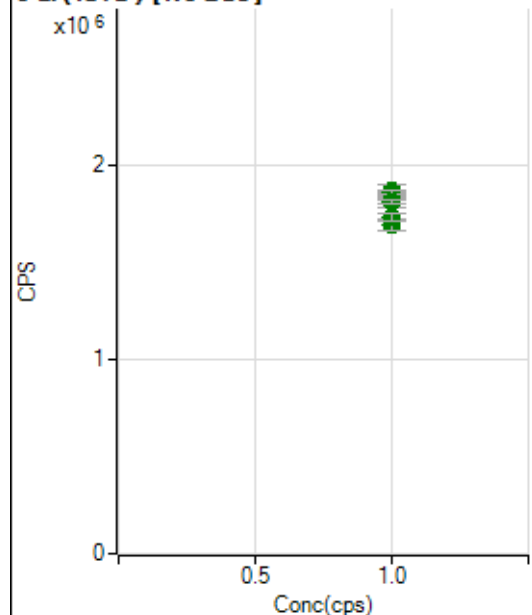
$$R = 0.9984$$

$$DL = 0.00179$$

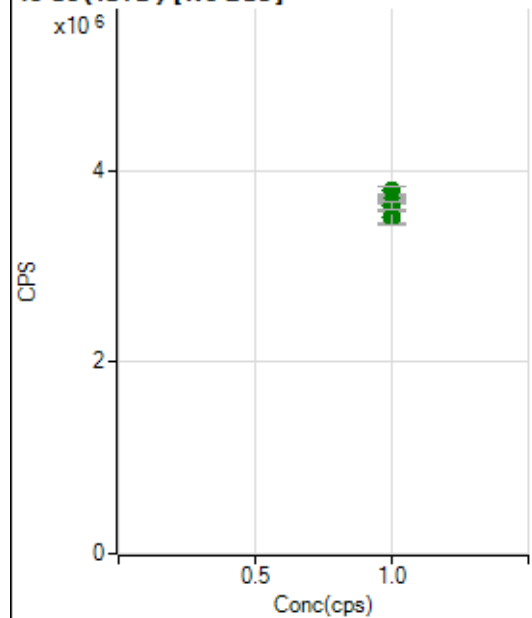
$$BEC = 0.001772$$

Weight: <None>

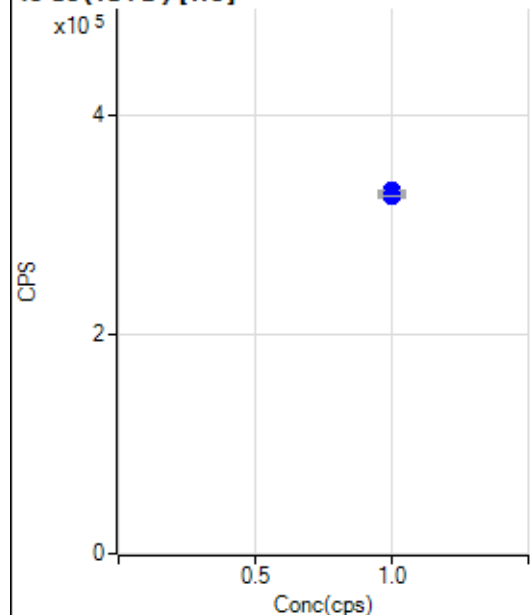
Min Conc: 0

6 Li (ISTD) [No Gas]

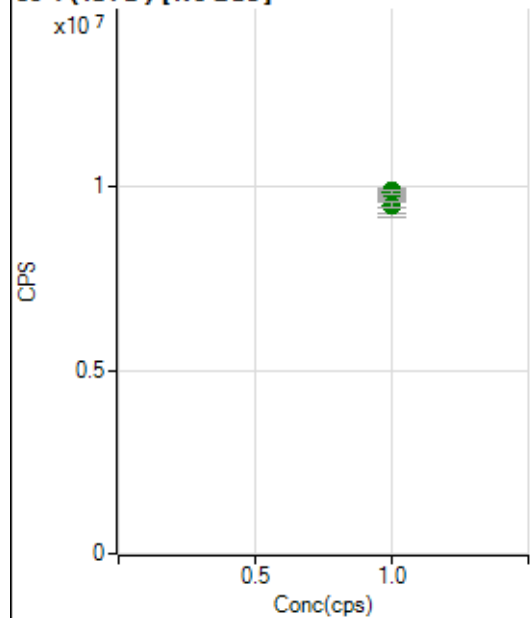
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1860353.91		A	0.4
2	☐	1.000		1848461.40		A	0.9
3	☐	1.000		1822440.67		A	4.3
4	☐	1.000		1871528.62		A	3.1
5	☐	1.000		1860643.22		A	1.0
6	☐	1.000		1816226.55		A	0.8
7	☐	1.000		1696979.75		A	3.5
8	☐	1.000		1735528.69		A	2.3

45 Sc (ISTD) [No Gas]

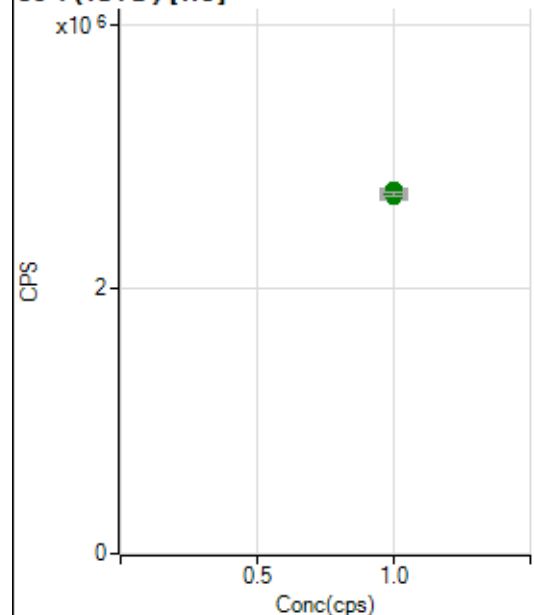
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3785816.65		A	2.2
2	☐	1.000		3690054.32		A	1.9
3	☐	1.000		3569543.28		A	6.7
4	☐	1.000		3734011.54		A	1.1
5	☐	1.000		3700676.96		A	2.0
6	☐	1.000		3666664.95		A	0.9
7	☐	1.000		3509138.28		A	4.0
8	☐	1.000		3623310.26		A	2.3

45 Sc (ISTD) [He]

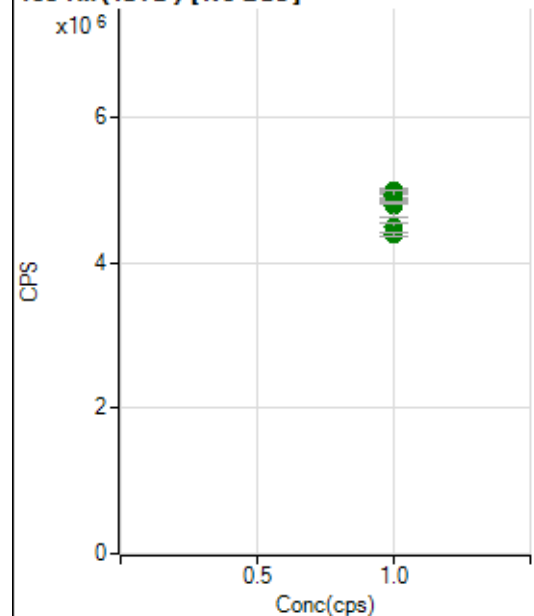
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		327273.31		P	1.4
2	☐	1.000		328438.66		P	0.9
3	☐	1.000		331157.86		P	0.5
4	☐	1.000		327216.53		P	0.8
5	☐	1.000		325627.44		P	0.7
6	☐	1.000		326617.37		P	0.3
7	☐	1.000		326455.87		P	0.6
8	☐	1.000		326333.35		P	0.3

89 Y (ISTD) [No Gas]

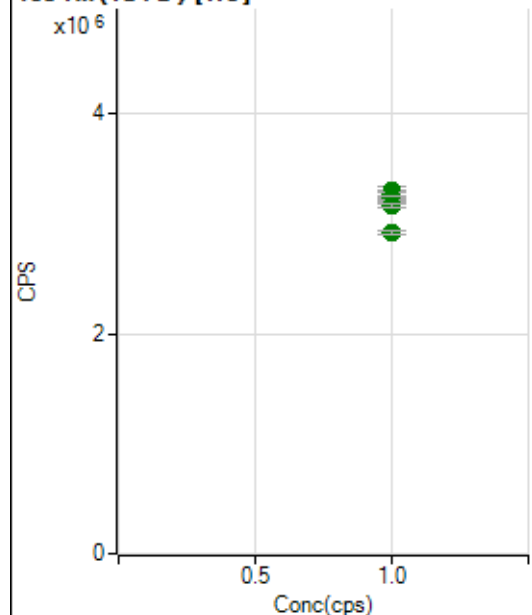
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9764544.65		A	1.1
2	☐	1.000		9678480.97		A	1.2
3	☐	1.000		9499974.09		A	6.8
4	☐	1.000		9881370.20		A	1.7
5	☐	1.000		9842500.82		A	1.9
6	☐	1.000		9840414.16		A	1.0
7	☐	1.000		9484036.11		A	4.0
8	☐	1.000		9499892.56		A	1.3

89 Y (ISTD) [He]

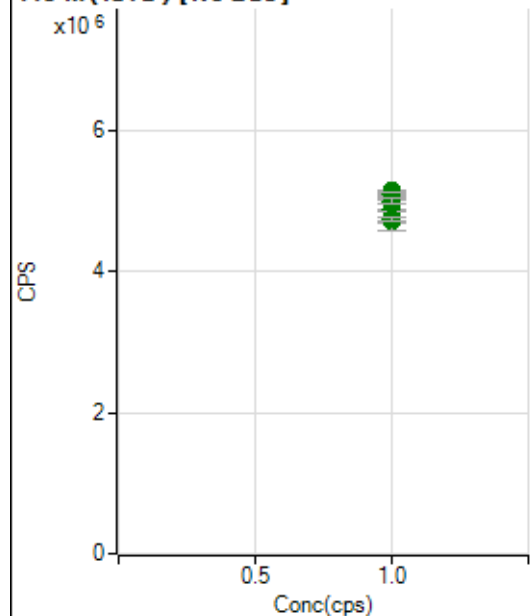
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2699649.16		A	1.1
2	☐	1.000		2719722.37		A	1.0
3	☐	1.000		2699078.64		A	1.2
4	☐	1.000		2706822.08		A	0.6
5	☐	1.000		2701643.48		A	1.8
6	☐	1.000		2740072.73		A	0.9
7	☐	1.000		2739822.77		A	0.7
8	☐	1.000		2709604.27		A	1.0

103 Rh (ISTD) [No Gas]

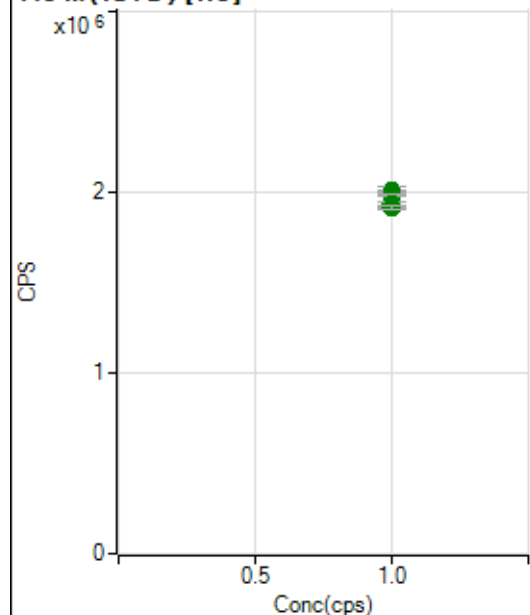
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4986417.60		A	1.2
2	☐	1.000		4926583.29		A	1.3
3	☐	1.000		4786556.63		A	6.8
4	☐	1.000		4993342.05		A	0.8
5	☐	1.000		4945444.16		A	2.7
6	☐	1.000		4824061.98		A	0.4
7	☐	1.000		4489847.29		A	3.0
8	☐	1.000		4387255.84		A	1.1

103 Rh (ISTD) [He]

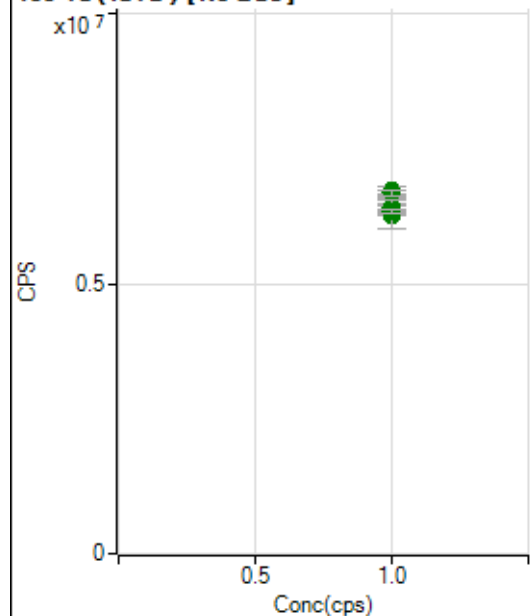
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3294600.02		A	2.3
2	☐	1.000		3277604.81		A	1.4
3	☐	1.000		3300278.81		A	0.7
4	☐	1.000		3268089.57		A	0.8
5	☐	1.000		3216834.74		A	1.1
6	☐	1.000		3243585.06		A	1.1
7	☐	1.000		3166135.58		A	0.6
8	☐	1.000		2922300.96		A	1.1

115 In (ISTD) [No Gas]

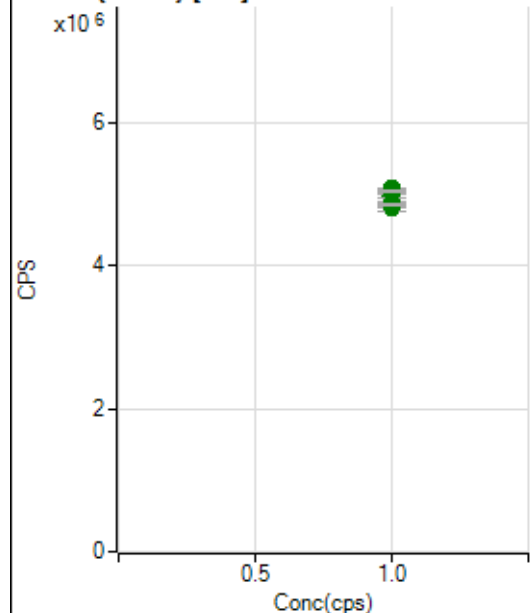
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5059574.59		A	1.5
2	☐	1.000		4976172.66		A	3.5
3	☐	1.000		4866626.51		A	7.8
4	☐	1.000		5142326.27		A	0.2
5	☐	1.000		5086303.72		A	1.5
6	☐	1.000		4994050.74		A	1.8
7	☐	1.000		4707432.71		A	5.6
8	☐	1.000		4747462.24		A	1.1

115 In (ISTD) [He]

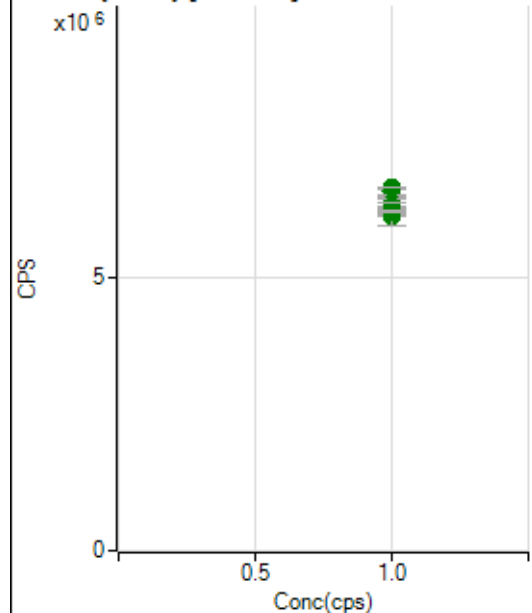
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2010119.27		A	2.0
2	☐	1.000		1993328.19		A	1.6
3	☐	1.000		2007885.71		A	0.2
4	☐	1.000		1999721.34		A	1.0
5	☐	1.000		2003332.49		A	0.3
6	☐	1.000		1988845.32		A	0.8
7	☐	1.000		1933969.97		A	1.1
8	☐	1.000		1921396.98		A	1.2

159 Tb (ISTD) [No Gas]

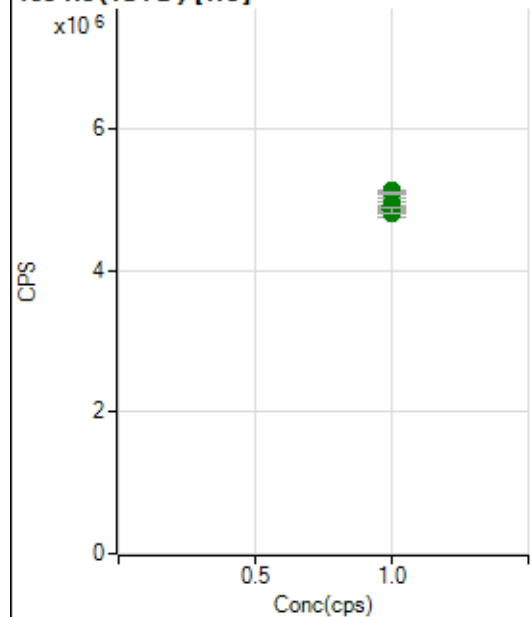
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6383723.03		A	1.9
2	☐	1.000		6324343.73		A	1.0
3	☐	1.000		6263018.31		A	7.4
4	☐	1.000		6629820.60		A	0.8
5	☐	1.000		6723567.96		A	2.2
6	☐	1.000		6686739.97		A	1.5
7	☐	1.000		6410430.18		A	4.3
8	☐	1.000		6346187.82		A	1.2

159 Tb (ISTD) [He]

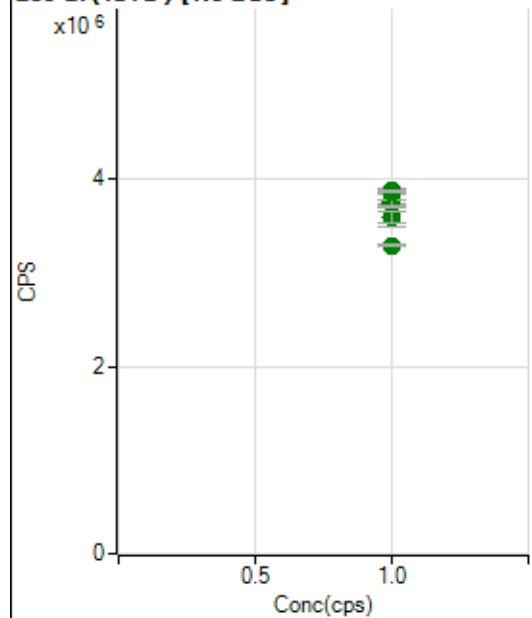
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4816456.91		A	1.9
2	☐	1.000		4832611.35		A	0.4
3	☐	1.000		4881638.12		A	0.3
4	☐	1.000		4974521.69		A	0.8
5	☐	1.000		5041305.24		A	0.6
6	☐	1.000		5073895.90		A	0.6
7	☐	1.000		5042951.38		A	0.4
8	☐	1.000		4865514.93		A	0.6

165 Ho (ISTD) [No Gas]

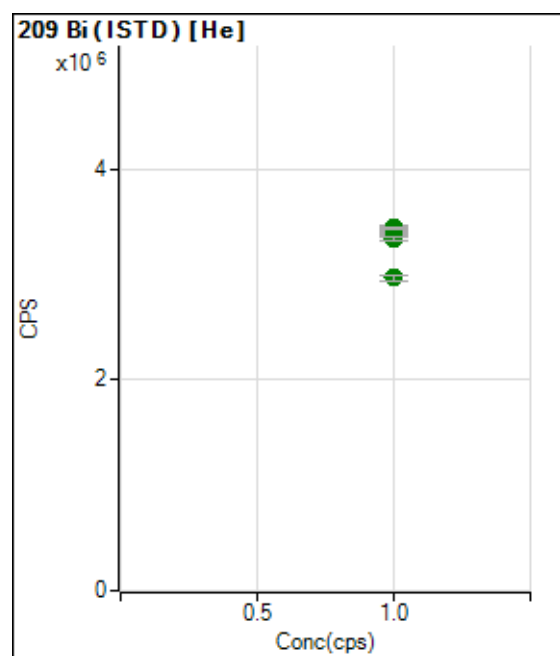
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6297678.03		A	1.4
2	☐	1.000		6177231.57		A	1.2
3	☐	1.000		6105205.26		A	5.8
4	☐	1.000		6454916.01		A	0.6
5	☐	1.000		6557112.75		A	1.6
6	☐	1.000		6627550.39		A	0.1
7	☐	1.000		6234738.38		A	3.9
8	☐	1.000		6196663.17		A	0.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4822773.75		A	2.0
2	☐	1.000		4825925.45		A	0.6
3	☐	1.000		4900182.22		A	0.5
4	☐	1.000		4931610.73		A	1.6
5	☐	1.000		5031716.94		A	0.4
6	☐	1.000		5132096.38		A	0.1
7	☐	1.000		5104200.79		A	0.5
8	☐	1.000		4863009.37		A	1.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3757391.47		A	0.9
2	☐	1.000		3747193.56		A	1.6
3	☐	1.000		3598533.49		A	5.5
4	☐	1.000		3862263.14		A	1.6
5	☐	1.000		3876769.14		A	1.1
6	☐	1.000		3870664.28		A	0.5
7	☐	1.000		3595224.35		A	3.4
8	☐	1.000		3290058.06		A	0.6



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3429567.80		A	2.0
2	☐	1.000		3411447.48		A	0.7
3	☐	1.000		3383614.92		A	0.7
4	☐	1.000		3435325.75		A	0.5
5	☐	1.000		3439217.59		A	1.5
6	☐	1.000		3441340.47		A	0.3
7	☐	1.000		3335310.23		A	1.4
8	☐	1.000		2966549.37		A	1.5

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7030322MS.b
Acq. Date-Time 2022-03-03 11:06:54
Report Comment ---
Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		12367	123669.79			1.549	5.000
24		88735	887348.58			1.404	5.000
25		11832	118317.04			1.588	5.000
26		13471	134705.00			1.504	5.000
59		24772	247723.89			1.463	5.000
113		11852	118519.47			1.793	5.000
115		34447	344470.18			1.681	5.000
206		16952	169517.34			1.876	5.000
207		15079	150790.91			1.947	5.000
208		35213	352127.96			1.552	5.000
220		0	3.40			52.407	

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

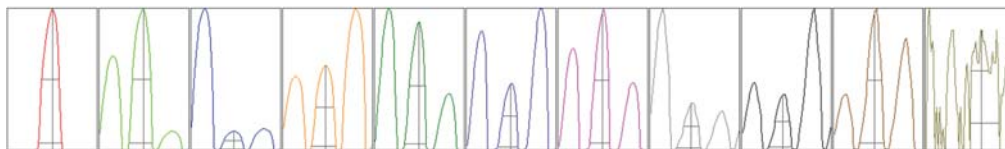
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	12068	12583	12457	12397	12330
24	87068	89966	89174	89660	87807
25	11527	12021	11939	11859	11813
26	13142	13663	13591	13527	13430
59	24199	25099	24991	24931	24642
113	11502	12053	11920	11963	11822
115	33605	35021	34934	34480	34195
206	16516	17286	17044	17174	16739
207	14756	15502	15150	15139	14849
208	34557	35980	35329	35360	34837

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	22891.93	9.05	8.90 - 9.10	
24	152987.58	24.00	23.90 - 24.10	
25	20025.03	24.95	24.90 - 25.10	
26	22930.25	25.95	25.90 - 26.10	
59	49493.59	59.00	58.90 - 59.10	
113	25003.51	113.00	112.90 - 113.10	
115	73044.64	115.00	114.90 - 115.10	
206	34299.65	205.90	205.90 - 206.10	
207	28671.42	206.90	206.90 - 207.10	
208	71674.46	207.90	207.90 - 208.10	
220	0.55	220.40	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.777	0.900	
24	0.62	0.784	0.900	
25	0.61	0.788	0.900	
26	0.62	0.818	0.900	
59	0.52	0.732	0.900	
113	0.48	0.686	0.900	
115	0.48	0.686	0.900	
206	0.51	0.795	0.900	
207	0.50	0.776	0.900	
208	0.49	0.806	0.900	
220	0.58	0.967		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.73 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	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.3 V	Deflect	14.8 V
Extract 2	-165.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-75 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	121	Axis Gain	0.9998	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	0.9 mm
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EM

Discriminator	3.2 mV	Analog HV	2157 V	Pulse HV	1442 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		9186	91864.39			0.697	
89		62960	629604.96			1.557	
205		40841	408413.09			0.675	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	9265	9100	9181	9157	9229
89	64096	62525	61520	63237	63424
205	41126	40388	40895	40962	40835

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.73 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	11.0 V	Deflect	3.6 V
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US EPA Tune Check Report

Extract 2	-170.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-80 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	121	Axis Gain	0.9998	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	0.9 mm
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EM

Discriminator	3.2 mV	Analog HV	2157 V	Pulse HV	1442 V
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