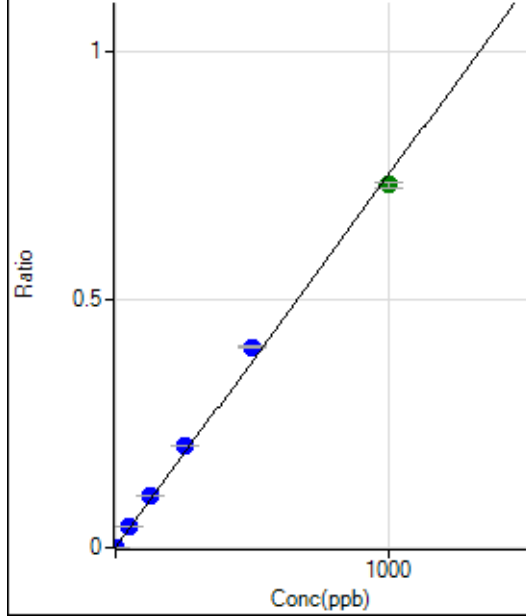


Calibration for 016\CSA.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8013124 MS1.b\
 Analysis File: P8013124 MS1.batch.bin
 DA Date-Time: 2024-01-31 20:44:12
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-01-31 11:24:56
2	006CALS.d	S02	2024-01-31 11:31:47
3	007CALS.d	S03	2024-01-31 11:35:11
4	008CALS.d	S04	2024-01-31 11:38:29
5	009CALS.d	S05	2024-01-31 11:41:36
6	010CALS.d	S06	2024-01-31 11:44:40
7	012CALS.d	S07	2024-01-31 11:51:01
8	013CALS.d	S08	2024-01-31 11:54:03

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	167.48	0.0001	P	14.2
2	☐	1.000	1.017	1791.56	0.0008	P	2.7
3	☐	50.000	55.313	88262.51	0.0416	P	1.7
4	☐	125.000	138.341	213101.72	0.1040	P	0.8
5	☐	250.000	271.972	425683.45	0.2044	P	0.5
6	☐	500.000	538.793	836590.79	0.4048	P	1.7
7	☐	1000.000	973.177	1483796.49	0.7311	A	1.9
8	☐			269.97	0.0001	P	12.4

$$y = 7.5117\text{E-}004 * x + 7.9451\text{E-}005$$

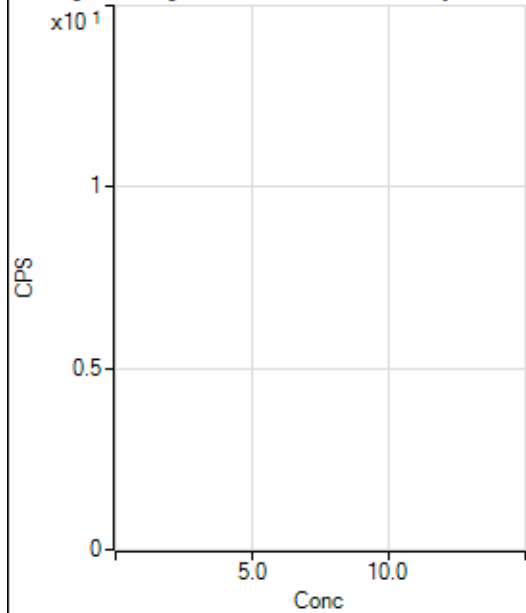
$$R = 0.9985$$

$$DL = 0.045$$

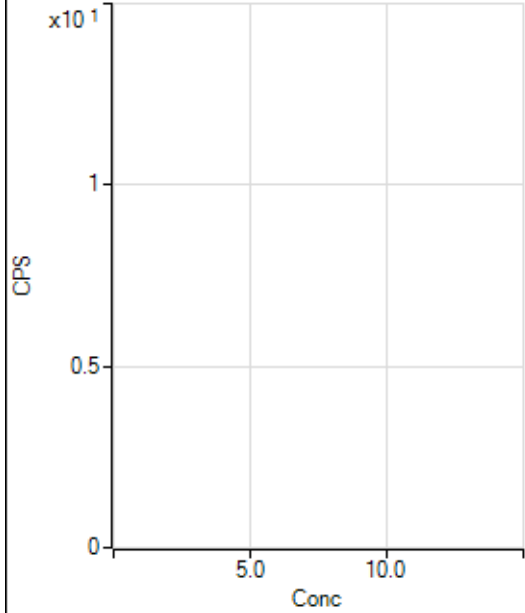
$$BEC = 0.1058$$

Weight: <None>

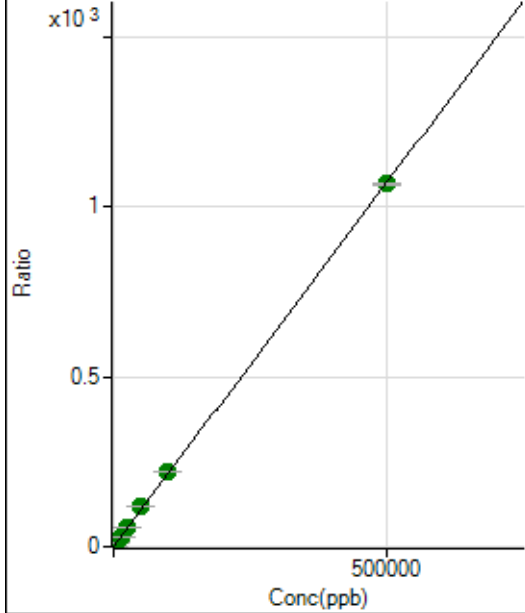
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2083337.12		A	0.3
2	☐			1916692.26		A	2.2
3	☐			2197407.96		A	4.8
4	☐			2185269.38		A	3.4
5	☐			2257839.39		A	3.9
6	☐			2347845.09		A	2.9
7	☐			2574987.36		A	4.0
8	☐			2518605.84		A	5.5

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27198.56		P	2.4
2	☐			25370.80		P	0.7
3	☐			30281.21		P	0.6
4	☐			30343.58		P	1.0
5	☐			31480.39		P	0.8
6	☐			32889.05		P	0.9
7	☐			36457.36		P	1.1
8	☐			39081.89		P	1.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	10247.01	0.1002	P	0.4
2	☐	500.000	498.338	120198.79	1.1675	P	0.2
3	☐	5000.000	5718.484	1258874.30	12.3481	A	2.4
4	☐	12500.000	13777.181	3027815.79	29.6084	A	0.6
5	☐	25000.000	27386.512	6063195.60	58.7570	A	2.1
6	☐	50000.000	55189.844	12139809.54	118.3066	A	1.7
7	☐	100000.00	102637.34	21743787.45	219.9303	A	0.3
8	☐	500000.00	498795.10	100678758.5	1,068.426	A	0.7

$$y = 0.0021 * x + 0.1002$$

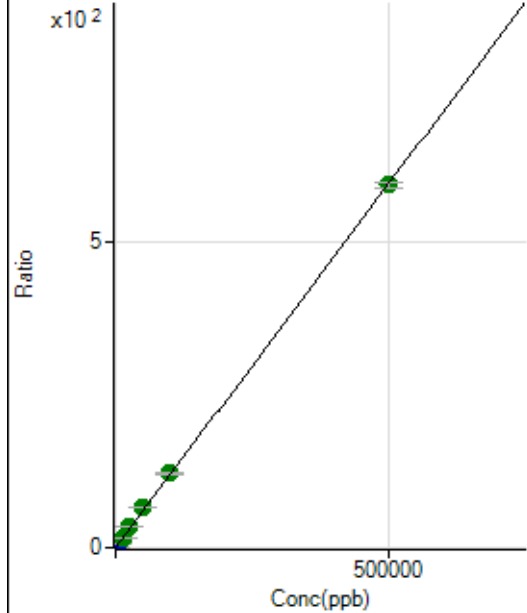
$$R = 0.9999$$

$$DL = 0.5372$$

$$BEC = 46.78$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	143.34	0.0014	P	18.1
2	☐	500.000	509.339	62664.88	0.6087	P	0.9
3	☐	5000.000	5764.062	700875.74	6.8737	P	0.3
4	☐	12500.000	14350.928	1749874.78	17.1116	A	0.7
5	☐	25000.000	28164.731	3465221.86	33.5813	A	2.1
6	☐	50000.000	55753.153	6821334.41	66.4741	A	0.2
7	☐	100000.00	102253.22	12053485.93	121.9147	A	1.1
8	☐	500000.00	498761.87	56035450.83	594.6595	A	1.6

$$y = 0.0012 * x + 0.0014$$

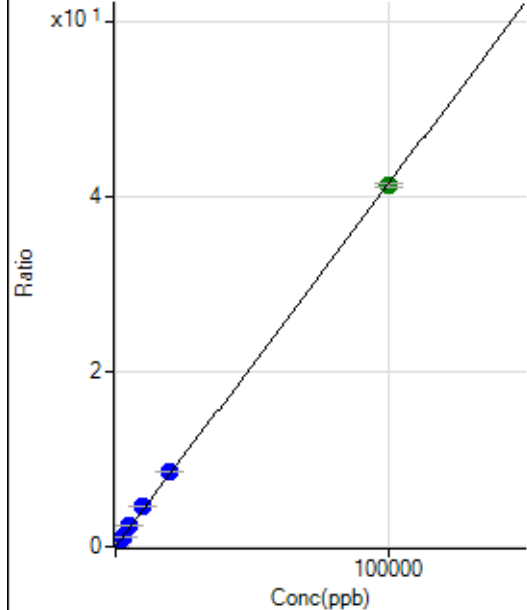
$$R = 0.9999$$

$$DL = 0.6407$$

$$BEC = 1.178$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	85.56	0.0008	P	19.4
2	☐	20.000	19.842	933.37	0.0091	P	1.1
3	☐	1000.000	1145.095	48522.79	0.4759	P	0.6
4	☐	2500.000	2805.509	119106.44	1.1647	P	0.8
5	☐	5000.000	5607.035	240129.21	2.3269	P	0.3
6	☐	10000.000	11108.121	472988.16	4.6091	P	0.7
7	☐	20000.000	20685.440	848510.12	8.5823	P	0.3
8	☐	100000.00	99712.660	3898089.77	41.3670	A	1.5

$$y = 4.1485E-004 * x + 8.3451E-004$$

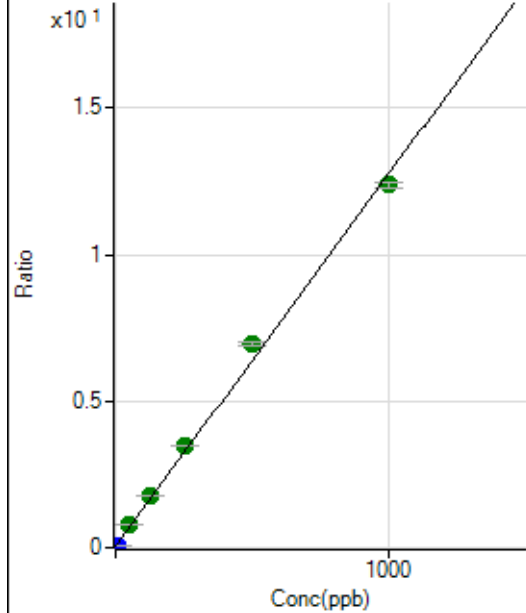
$$R = 0.9999$$

$$DL = 1.173$$

$$BEC = 2.012$$

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	144671.83	0.0463	P	1.9
2	☐	10.000	0.532	164299.90	0.0531	P	3.0
3	☐	50.000	57.662	2433131.01	0.7784	A	2.5
4	☐	125.000	134.876	5601842.07	1.7586	A	1.3
5	☐	250.000	272.009	11028974.70	3.4995	A	0.2
6	☐	500.000	543.203	21756575.51	6.9424	A	2.3
7	☐	1000.000	971.373	37763739.16	12.3781	A	1.8
8	☐			1007316.02	0.3599	A	8.0

$$y = 0.0127 * x + 0.0463$$

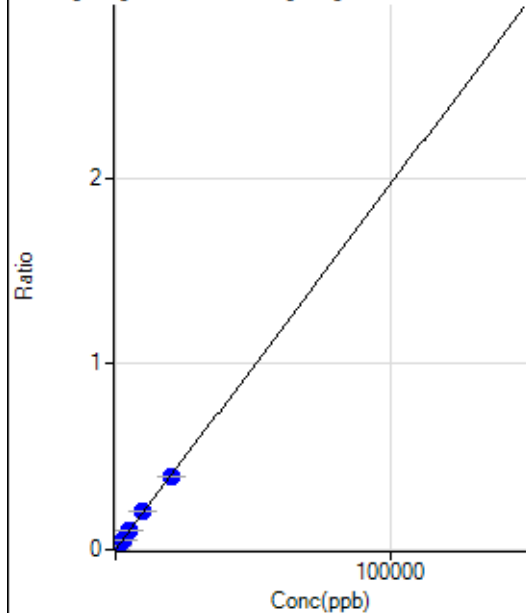
$$R = 0.9981$$

$$DL = 0.2128$$

$$BEC = 3.649$$

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	-20.191	76.67	0.0008	P	10.6
2	☐	0.000	20.191	158.89	0.0015	P	26.9
3	☐	1000.000	1048.358	2214.64	0.0217	P	2.1
4	☐	2500.000	2681.378	5498.88	0.0538	P	1.2
5	☐	5000.000	5265.919	10782.98	0.1045	P	2.6
6	☐	10000.000	10278.188	20817.26	0.2029	P	0.7
7	☐	20000.000	19769.336	38473.12	0.3892	P	0.4
8	☐			93.33	0.0010	P	16.3

$$y = 1.9627E-005 * x + 0.0011$$

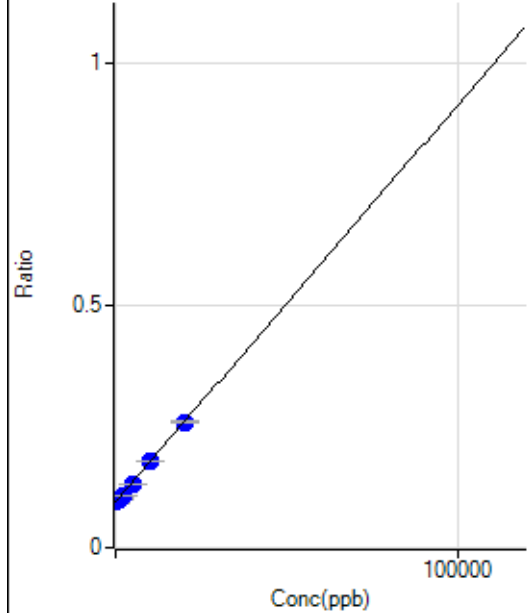
$$R = 0.9997$$

$$DL = 37.85$$

$$BEC = 58.44$$

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	-165.700	291268.27	0.0933	P	1.4
2	☐	0.000	165.700	297133.02	0.0960	P	2.3
3	☐	1000.000	621.950	311706.39	0.0997	P	2.7
4	☐	2500.000	1520.706	341022.16	0.1071	P	1.2
5	☐	5000.000	4519.076	414658.84	0.1316	P	1.0
6	☐	10000.000	10239.293	559041.25	0.1784	P	1.8
7	☐	20000.000	20141.899	791339.98	0.2594	P	0.7
8	☐			244556.30	0.0874	P	2.8

$$y = 8.1797E-006 * x + 0.0946$$

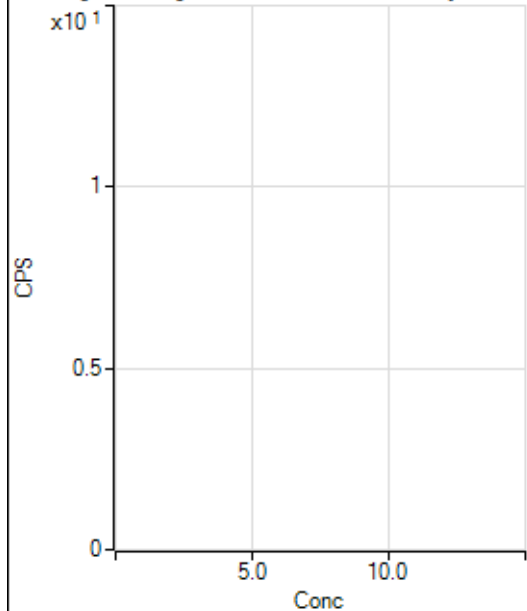
$$R = 0.9986$$

$$DL = 649.7$$

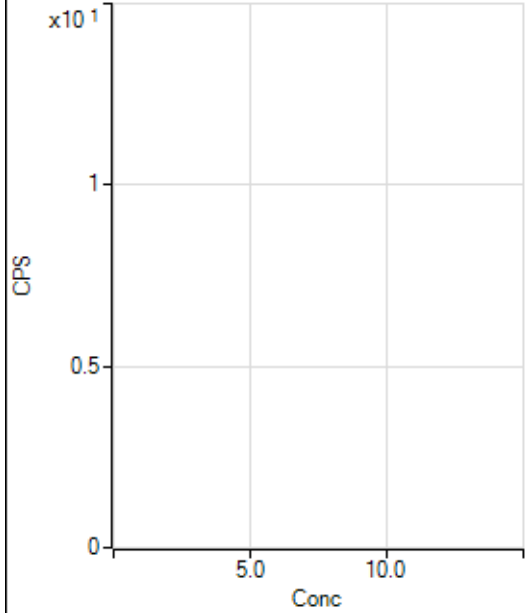
$$BEC = 1.157E+04$$

Weight: <None>

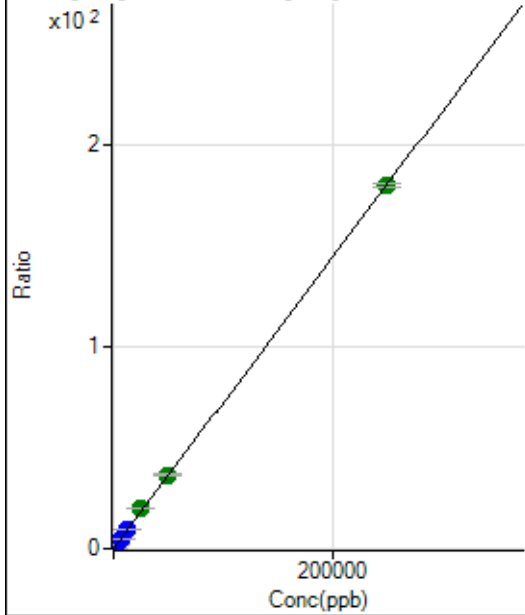
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			49020.35		P	0.2
2	☐			62471.64		P	0.8
3	☐			62996.10		P	1.3
4	☐			62773.08		P	0.8
5	☐			64163.45		P	0.9
6	☐			66352.20		P	1.4
7	☐			129966.09		P	2.6
8	☐			168798.03		P	1.8

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			341.12		P	9.8
2	☐			394.46		P	5.0
3	☐			421.12		P	12.5
4	☐			381.12		P	9.4
5	☐			458.90		P	4.1
6	☐			447.79		P	5.8
7	☐			868.92		P	1.0
8	☐			1186.73		P	5.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6580.45	0.0644	P	2.4
2	☐	500.000	490.203	42983.86	0.4175	P	1.0
3	☐	2500.000	2778.585	210679.34	2.0661	P	1.8
4	☐	6250.000	6789.008	506739.09	4.9553	P	0.7
5	☐	12500.000	13594.137	1017271.41	9.8578	P	0.5
6	☐	25000.000	27523.696	2041424.97	19.8929	A	0.6
7	☐	50000.000	50710.859	3618430.26	36.5973	A	1.0
8	☐	250000.00	249534.51	16945748.36	179.8333	A	1.1

$$y = 7.2042\text{E-}004 * x + 0.0644$$

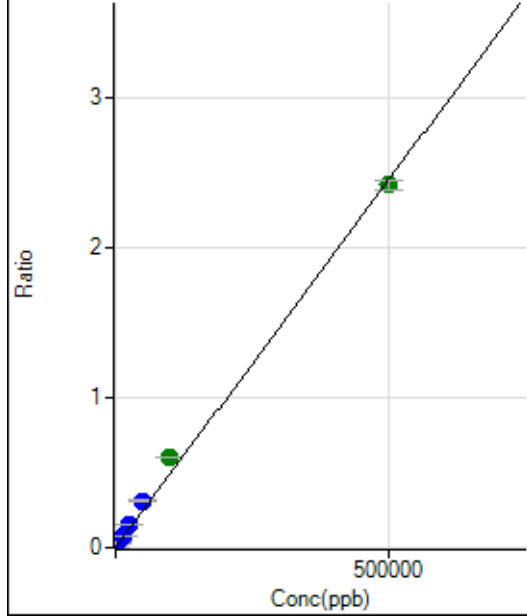
$$R = 0.9999$$

$$DL = 6.514$$

$$BEC = 89.34$$

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	155.56	0.0000	P	7.8
2	☐	500.000	497.945	7706.57	0.0025	P	1.8
3	☐	5000.000	6572.246	100788.94	0.0322	P	2.9
4	☐	12500.000	15651.597	244386.66	0.0767	P	1.4
5	☐	25000.000	32056.493	494996.00	0.1571	P	1.2
6	☐	50000.000	63574.240	976107.14	0.3115	P	2.4
7	☐	100000.00	122939.85	1837456.31	0.6023	A	1.4
8	☐	500000.00	493607.27	6768481.43	2.4180	A	2.7

$$y = 4.8986E-006 * x + 4.9784E-005$$

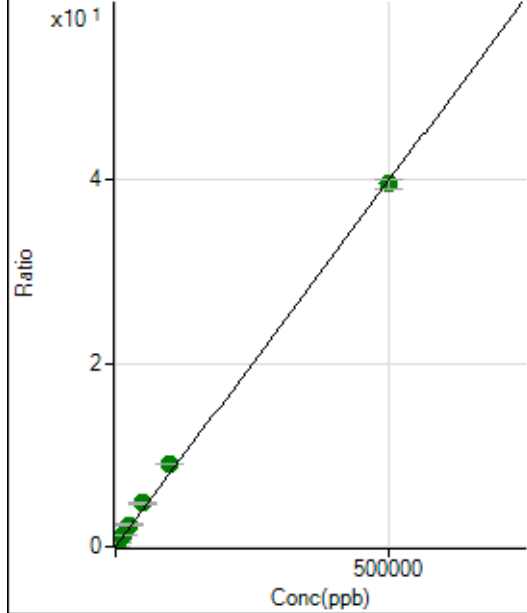
$$R = 0.9987$$

$$DL = 2.374$$

$$BEC = 10.16$$

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	21581.86	0.0069	P	0.7
2	☐	500.000	507.568	146841.00	0.0474	P	2.6
3	☐	5000.000	6260.739	1584739.87	0.5067	A	0.6
4	☐	12500.000	14761.113	3775961.37	1.1854	A	1.0
5	☐	25000.000	30054.731	7583106.62	2.4064	A	1.4
6	☐	50000.000	59265.588	14849624.22	4.7385	A	2.5
7	☐	100000.00	113489.46	27665841.81	9.0675	A	0.6
8	☐	500000.00	496053.66	110870352.7	39.6101	A	2.8

$$y = 7.9836E-005 * x + 0.0069$$

$$R = 0.9995$$

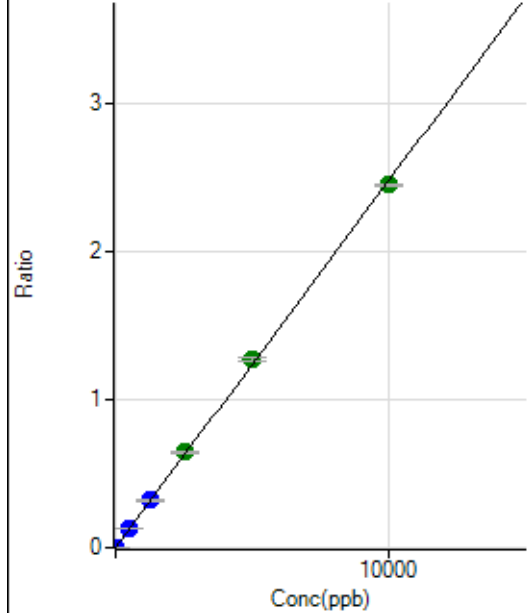
$$DL = 1.707$$

$$BEC = 86.55$$

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	67.78	0.0000	P	16.3
2	☐	5.000	4.888	3821.66	0.0012	P	6.6
3	☐	500.000	539.325	417842.95	0.1337	P	2.1
4	☐	1250.000	1287.511	1016287.21	0.3190	P	1.3
5	☐	2500.000	2613.694	2040804.03	0.6477	A	1.9
6	☐	5000.000	5140.192	3991440.50	1.2737	A	2.6
7	☐	10000.000	9894.825	7480857.11	2.4518	A	0.9
8	☐			1263.40	0.0005	P	4.2

$$y = 2.4779\text{E-}004 * x + 2.1710\text{E-}005$$

$$R = 0.9998$$

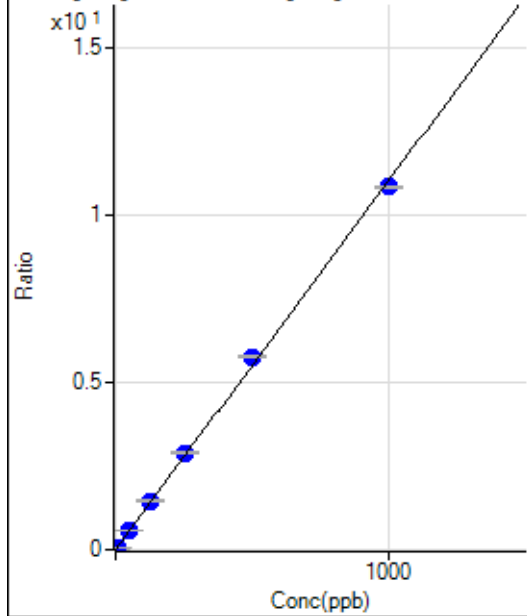
$$DL = 0.04275$$

$$BEC = 0.08762$$

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	68.89	0.0007	P	14.8
2	☐	5.000	4.851	5575.58	0.0542	P	4.8
3	☐	50.000	53.916	60676.85	0.5951	P	1.1
4	☐	125.000	131.851	148730.56	1.4544	P	1.9
5	☐	250.000	263.235	299557.92	2.9029	P	1.2
6	☐	500.000	523.426	592262.11	5.7716	P	0.9
7	☐	1000.000	983.927	1072562.63	10.8488	P	0.3
8	☐			333.34	0.0035	P	5.1

$$y = 0.0110 * x + 6.7360\text{E-}004$$

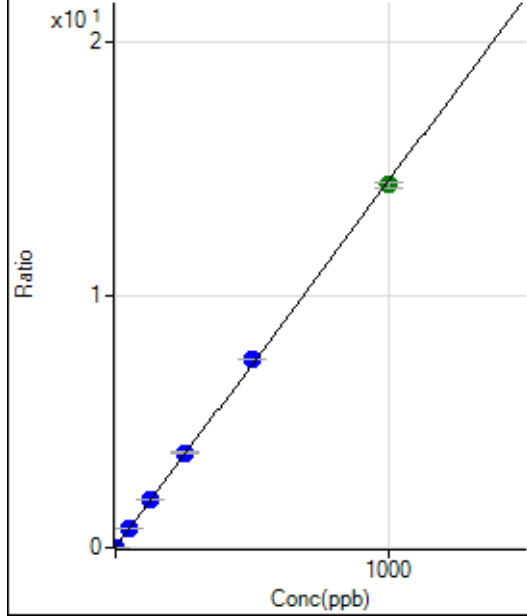
$$R = 0.9995$$

$$DL = 0.02721$$

$$BEC = 0.0611$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	698.91	0.0068	P	7.5
2	☐	2.000	1.909	3552.70	0.0345	P	2.0
3	☐	50.000	52.894	78860.12	0.7734	P	1.0
4	☐	125.000	130.307	193821.14	1.8953	P	0.5
5	☐	250.000	259.014	388076.96	3.7606	P	0.5
6	☐	500.000	514.597	765985.28	7.4647	P	0.3
7	☐	1000.000	989.640	1418563.43	14.3494	A	1.8
8	☐			8555.96	0.0908	P	1.7

$$y = 0.0145 * x + 0.0068$$

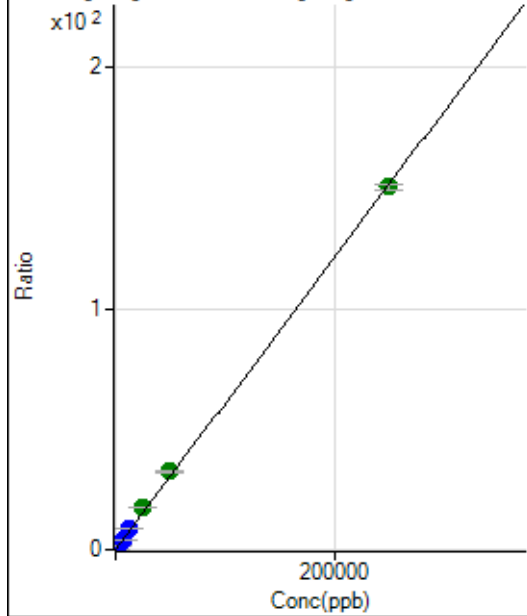
$$R = 0.9998$$

$$DL = 0.1065$$

$$BEC = 0.4717$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	206.67	0.0020	P	11.8
2	☐	50.000	54.843	3620.50	0.0352	P	3.7
3	☐	2500.000	2965.686	182953.87	1.7944	P	1.0
4	☐	6250.000	7163.913	442966.48	4.3317	P	0.3
5	☐	12500.000	14348.568	895087.69	8.6739	P	0.8
6	☐	25000.000	28984.066	1797539.82	17.5191	A	1.8
7	☐	50000.000	53562.039	3200669.68	32.3733	A	2.2
8	☐	250000.00	248769.25	14167833.40	150.3508	A	1.4

$$y = 6.0437E-004 * x + 0.0020$$

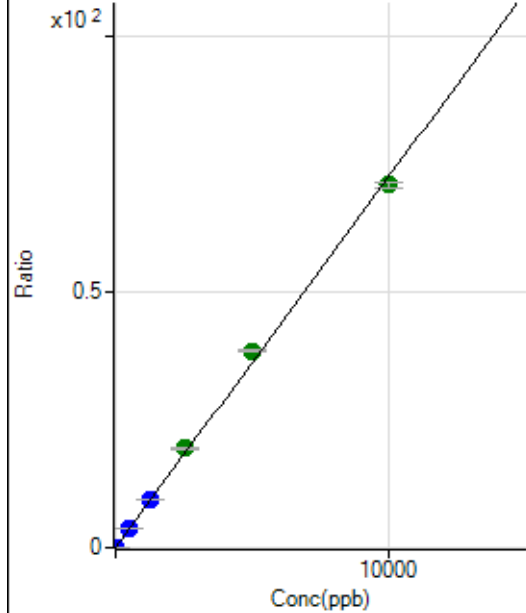
$$R = 0.9998$$

$$DL = 1.183$$

$$BEC = 3.344$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.44	0.0004	P	39.7
2	☐	1.000	0.961	760.03	0.0074	P	2.9
3	☐	500.000	540.750	398867.35	3.9120	P	0.7
4	☐	1250.000	1311.947	970518.52	9.4905	P	0.5
5	☐	2500.000	2683.935	2003475.89	19.4148	A	2.0
6	☐	5000.000	5306.475	3938788.62	38.3851	A	0.7
7	☐	10000.000	9790.998	7002362.81	70.8241	A	1.9
8	☐			5484.44	0.0582	P	4.3

$$y = 0.0072 * x + 4.3292E-004$$

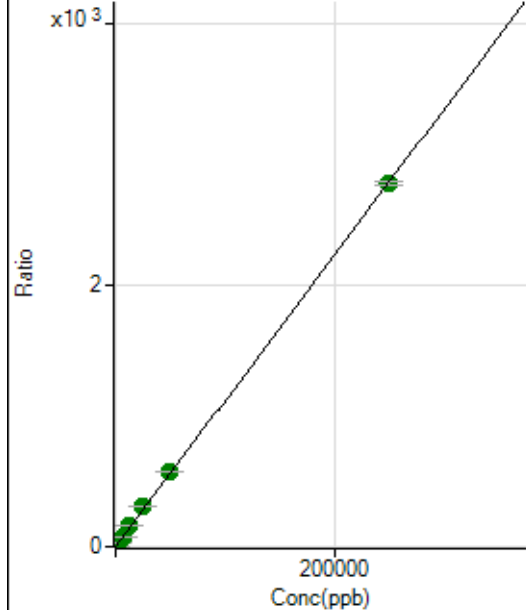
$$R = 0.9991$$

$$DL = 0.07124$$

$$BEC = 0.05985$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1096.72	0.0107	P	6.8
2	☐	50.000	52.078	60779.95	0.5904	P	0.8
3	☐	2500.000	2923.589	3319342.55	32.5527	A	1.1
4	☐	6250.000	6918.728	7876423.08	77.0219	A	1.0
5	☐	12500.000	13974.124	16052510.18	155.5544	A	0.2
6	☐	25000.000	28021.975	32006717.30	311.9187	A	2.0
7	☐	50000.000	51260.507	56412618.05	570.5830	A	0.6
8	☐	250000.00	249351.04	261543289.4	2.775496	A	1.1

$$y = 0.0111 * x + 0.0107$$

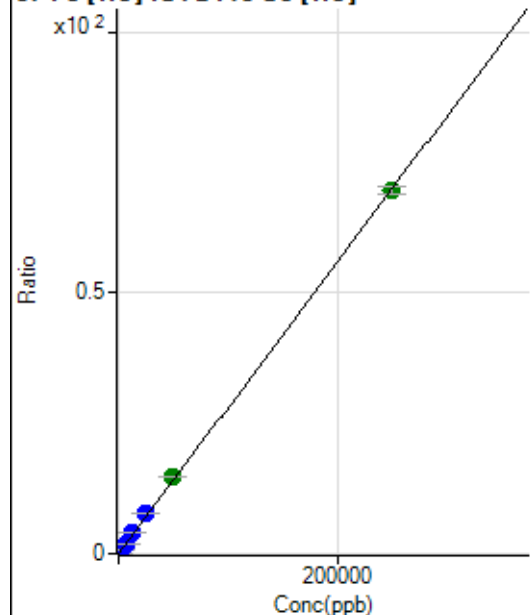
$$R = 0.9999$$

$$DL = 0.1964$$

$$BEC = 0.9625$$

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	63.33	0.0006	P	7.2
2	☐	50.000	51.562	1546.77	0.0150	P	2.0
3	☐	2500.000	2875.786	81973.83	0.8040	P	1.3
4	☐	6250.000	6913.749	197568.13	1.9320	P	0.6
5	☐	12500.000	13964.028	402611.44	3.9015	P	0.9
6	☐	25000.000	27691.188	793845.22	7.7362	P	0.6
7	☐	50000.000	52654.641	1454331.54	14.7098	A	0.4
8	☐	250000.00	249106.40	6557717.54	69.5891	A	2.2

$$y = 2.7935E-004 * x + 6.1980E-004$$

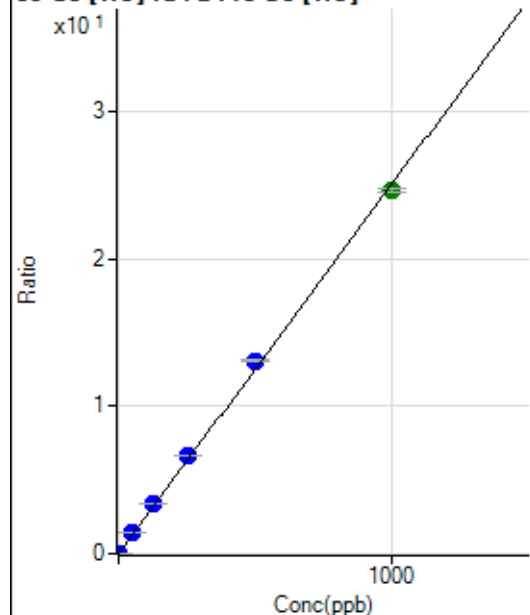
$$R = 0.9999$$

$$DL = 0.4783$$

$$BEC = 2.219$$

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	192.23	0.0019	P	8.5
2	☐	1.000	0.983	2728.07	0.0265	P	2.3
3	☐	50.000	55.013	140741.56	1.3804	P	1.0
4	☐	125.000	133.813	343074.78	3.3549	P	0.5
5	☐	250.000	266.345	688894.22	6.6758	P	0.8
6	☐	500.000	523.319	1345803.49	13.1148	P	0.7
7	☐	1000.000	982.902	2434993.99	24.6307	A	1.1
8	☐			6006.88	0.0637	P	2.2

$$y = 0.0251 * x + 0.0019$$

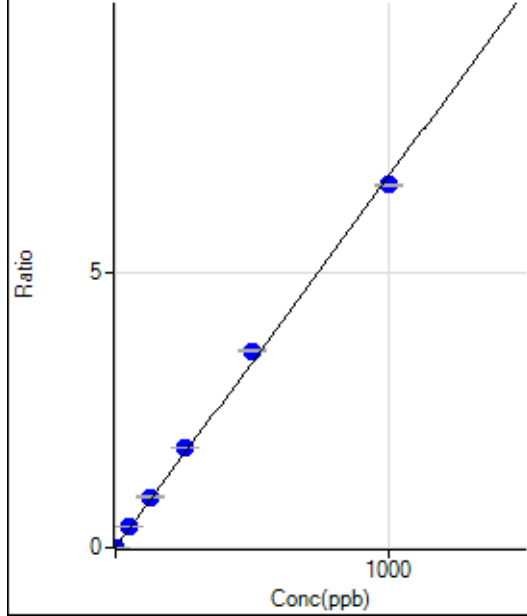
$$R = 0.9994$$

$$DL = 0.01901$$

$$BEC = 0.07492$$

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	95.56	0.0009	P	8.1
2	☐	1.000	0.961	762.25	0.0074	P	8.8
3	☐	50.000	57.823	39820.11	0.3905	P	0.4
4	☐	125.000	137.083	94548.26	0.9246	P	0.5
5	☐	250.000	271.098	188591.43	1.8275	P	0.6
6	☐	500.000	530.366	366792.91	3.5744	P	0.6
7	☐	1000.000	977.641	651329.41	6.5881	P	0.3
8	☐			3687.18	0.0391	P	6.1

$$y = 0.0067 * x + 9.3332E-004$$

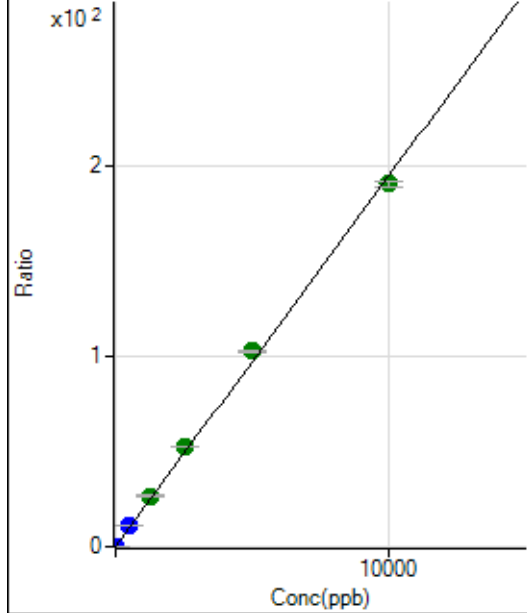
$$R = 0.9990$$

$$DL = 0.0336$$

$$BEC = 0.1385$$

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	587.80	0.0057	P	5.8
2	☐	2.000	1.892	4375.16	0.0425	P	4.8
3	☐	500.000	557.161	1104097.36	10.8288	P	0.9
4	☐	1250.000	1374.104	2730206.21	26.6982	A	1.6
5	☐	2500.000	2689.189	5391315.54	52.2441	A	0.4
6	☐	5000.000	5277.784	10521412.62	102.5284	A	0.6
7	☐	10000.000	9795.440	18813840.55	190.2853	A	1.2
8	☐			8749.44	0.0928	P	3.2

$$y = 0.0194 * x + 0.0057$$

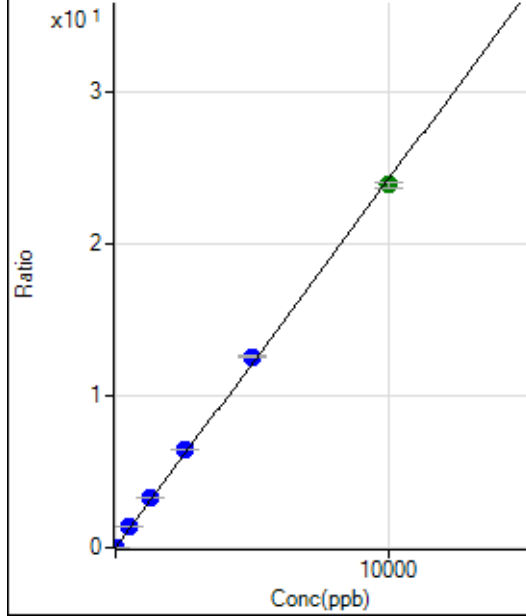
$$R = 0.9992$$

$$DL = 0.05118$$

$$BEC = 0.2956$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	143.34	0.0014	P	4.1
2	☐	2.000	4.945	1377.86	0.0134	P	4.4
3	☐	500.000	562.903	139224.75	1.3655	P	1.4
4	☐	1250.000	1335.536	331111.05	3.2379	P	0.6
5	☐	2500.000	2670.154	667882.49	6.4721	P	0.6
6	☐	5000.000	5185.946	1289701.44	12.5687	P	1.0
7	☐	10000.000	9850.651	2360307.72	23.8729	A	1.9
8	☐			4192.88	0.0445	P	0.5

$$y = 0.0024 * x + 0.0014$$

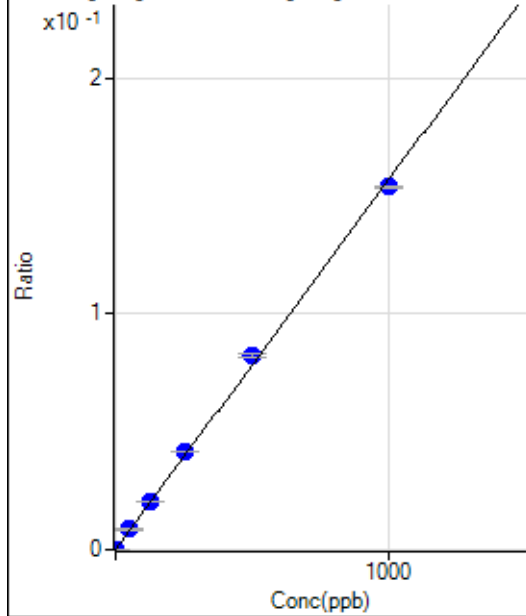
$$R = 0.9996$$

$$DL = 0.0708$$

$$BEC = 0.5784$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5.56	0.0000	P	35.3
2	☐	1.000	1.036	136.67	0.0002	P	32.1
3	☐	50.000	55.525	6955.12	0.0087	P	4.6
4	☐	125.000	129.297	16337.36	0.0203	P	0.7
5	☐	250.000	267.177	33544.35	0.0419	P	0.3
6	☐	500.000	526.748	65854.16	0.0826	P	1.5
7	☐	1000.000	981.518	117731.85	0.1538	P	0.2
8	☐			55.56	0.0001	P	56.7

$$y = 1.5673E-004 * x + 7.0196E-006$$

$$R = 0.9993$$

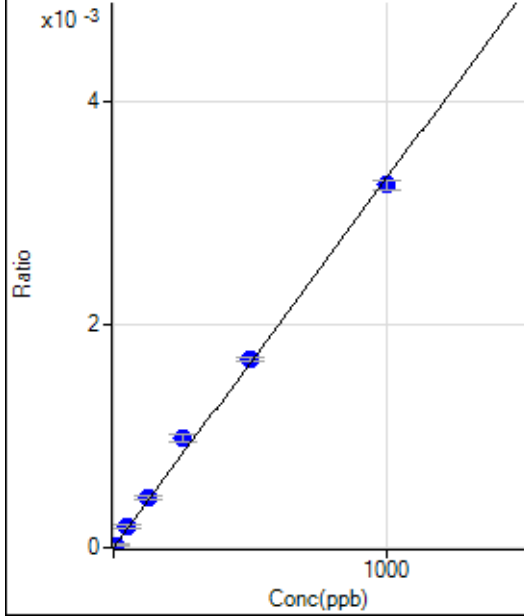
$$DL = 0.04743$$

$$BEC = 0.04479$$

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	5.813	15.55	0.0000	P	86.4
3	☐	50.000	56.209	148.89	0.0002	P	16.6
4	☐	125.000	133.412	356.68	0.0004	P	8.2
5	☐	250.000	297.396	790.03	0.0010	P	7.7
6	☐	500.000	509.438	1347.86	0.0017	P	1.8
7	☐	1000.000	982.066	2492.47	0.0033	P	2.7
8	☐			20.00	0.0000	P	43.1

$$y = 3.3172\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9987$$

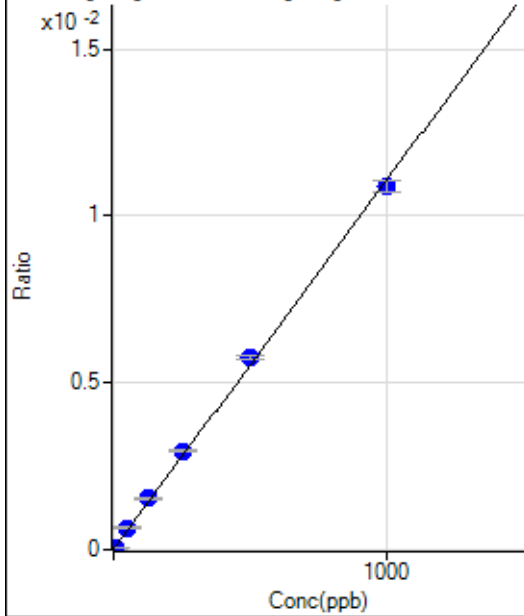
$$DL = 0$$

$$BEC = 0$$

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	8.89	0.0000	P	57.5
2	☐	5.000	4.345	47.78	0.0001	P	3.9
3	☐	50.000	57.912	520.01	0.0007	P	7.5
4	☐	125.000	138.356	1241.18	0.0015	P	3.3
5	☐	250.000	267.381	2375.78	0.0030	P	2.2
6	☐	500.000	522.394	4613.03	0.0058	P	2.0
7	☐	1000.000	982.396	8314.74	0.0109	P	3.1
8	☐			52.22	0.0001	P	24.9

$$y = 1.1051\text{E-}005 * x + 1.1231\text{E-}005$$

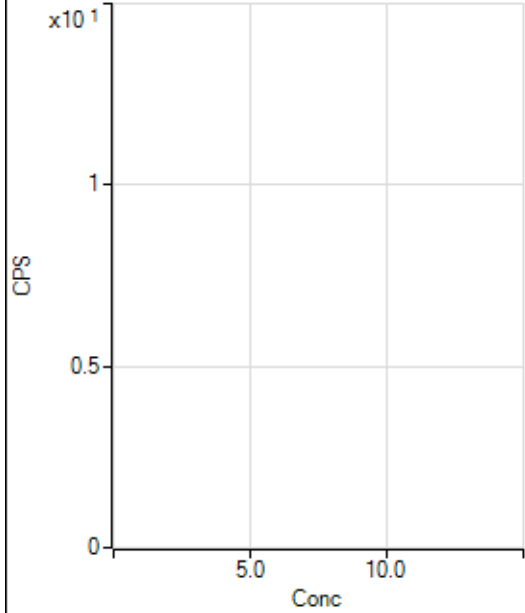
$$R = 0.9994$$

$$DL = 1.752$$

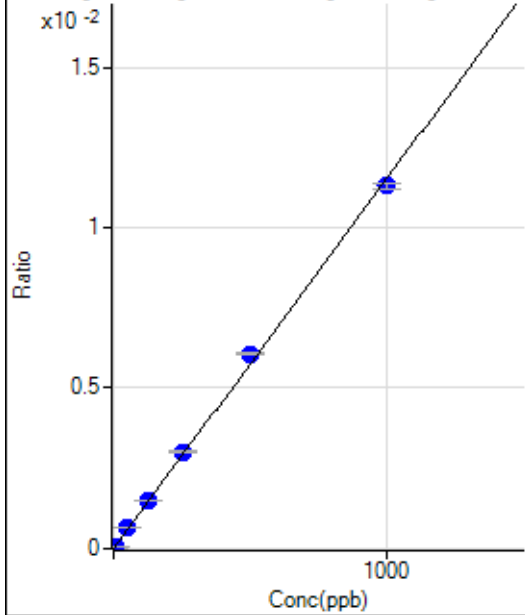
$$BEC = 1.016$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2062.39		P	2.0
2	☐			1903.48		P	7.1
3	☐			1880.15		P	5.9
4	☐			1857.92		P	4.7
5	☐			1842.36		P	9.3
6	☐			1940.16		P	1.3
7	☐			1957.93		P	3.8
8	☐			3890.58		P	10.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-43.34	0.0000	P	-15.
2	☐	5.000	6.013	511.13	0.0001	P	15.8
3	☐	50.000	55.994	5125.50	0.0006	P	2.9
4	☐	125.000	131.499	12311.23	0.0015	P	1.0
5	☐	250.000	262.254	24924.81	0.0030	P	1.7
6	☐	500.000	528.081	49273.49	0.0061	P	1.7
7	☐	1000.000	981.779	89081.96	0.0113	P	1.8
8	☐			437.79	0.0001	P	16.8

$$y = 1.1516E-005 * x - 5.4649E-006$$

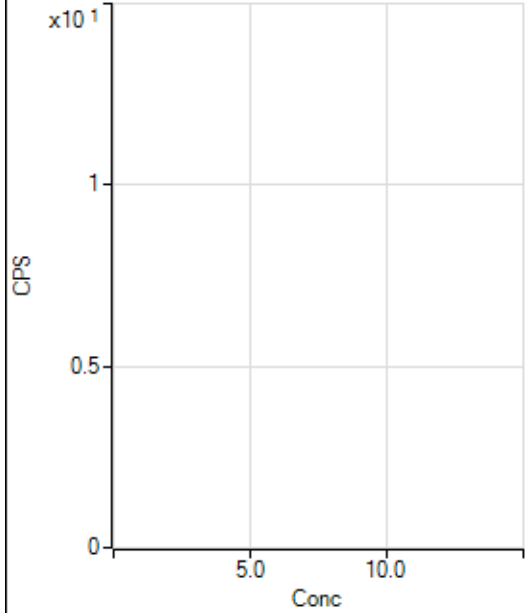
$$R = 0.9993$$

$$DL = 0.2171$$

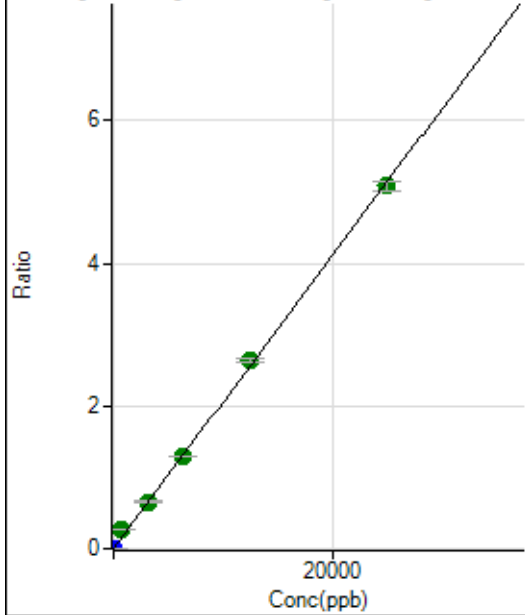
$$BEC = -0.4745$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			184.45		P	5.5
2	☐			146.67		P	18.6
3	☐			163.34		P	13.4
4	☐			184.45		P	13.6
5	☐			166.67		P	17.4
6	☐			154.45		P	3.3
7	☐			160.00		P	33.1
8	☐			154.45		P	8.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	406.68	0.0001	P	5.2
2	☐	1.000	0.918	1920.15	0.0002	P	5.4
3	☐	625.000	1350.964	2221817.97	0.2771	A	1.9
4	☐	3125.000	3191.520	5340673.60	0.6547	A	2.7
5	☐	6250.000	6301.252	10686689.35	1.2925	A	1.5
6	☐	12500.000	12856.814	21385153.29	2.6371	A	1.5
7	☐	25000.000	24782.316	40065017.74	5.0831	A	2.8
8	☐			4874.32	0.0007	P	7.9

$$y = 2.0511E-004 * x + 5.1298E-005$$

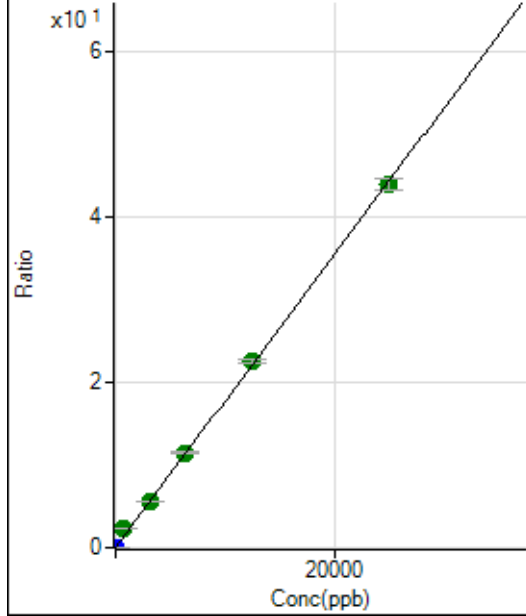
$$R = 0.9995$$

$$DL = 0.03898$$

$$BEC = 0.2501$$

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	772.25	0.0001	P	18.4
2	☐	1.000	0.981	14721.18	0.0018	P	3.4
3	☐	625.000	1328.014	18874190.55	2.3543	A	2.0
4	☐	3125.000	3162.922	45744865.99	5.6072	A	1.2
5	☐	6250.000	6455.603	94615634.15	11.4443	A	2.0
6	☐	12500.000	12773.720	183636377.2	22.6447	A	1.8
7	☐	25000.000	24789.424	346369383.7	43.9456	A	3.3
8	☐			40201.41	0.0056	P	10.2

$$y = 0.0018 * x + 9.7318E-005$$

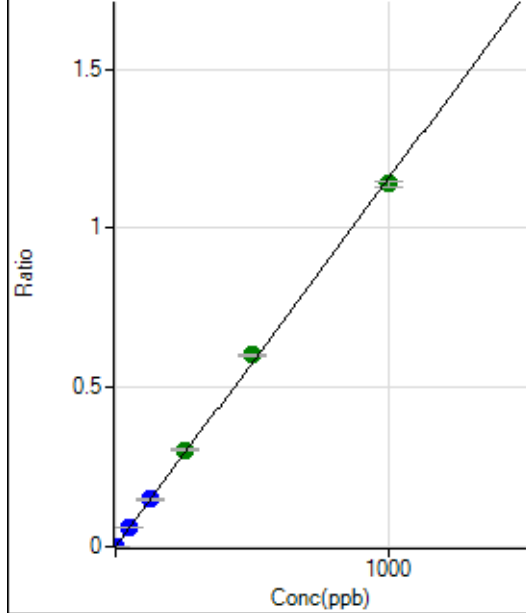
$$R = 0.9996$$

$$DL = 0.03034$$

$$BEC = 0.0549$$

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	277.79	0.0000	P	4.0
2	☐	1.000	0.918	8788.39	0.0011	P	4.1
3	☐	50.000	53.043	491899.50	0.0614	P	0.3
4	☐	125.000	128.804	1215007.80	0.1489	P	1.3
5	☐	250.000	262.914	2513177.20	0.3040	A	1.4
6	☐	500.000	520.671	4881318.61	0.6019	A	1.2
7	☐	1000.000	985.809	8983393.20	1.1396	A	1.3
8	☐			3656.08	0.0005	P	4.9

$$y = 0.0012 * x + 3.5038E-005$$

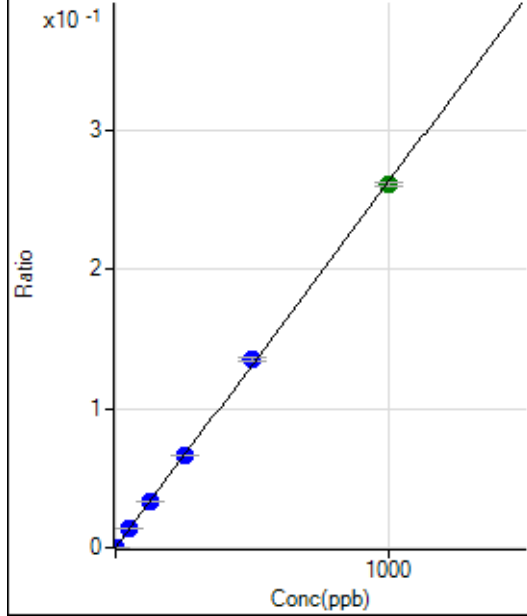
$$R = 0.9996$$

$$DL = 0.003629$$

$$BEC = 0.03031$$

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	55.56	0.0000	P	30.4
2	☐	1.000	0.903	1955.71	0.0002	P	1.2
3	☐	50.000	51.771	108937.25	0.0136	P	1.7
4	☐	125.000	126.407	270599.92	0.0332	P	1.0
5	☐	250.000	251.678	545979.39	0.0660	P	0.5
6	☐	500.000	514.587	1094760.75	0.1350	P	1.6
7	☐	1000.000	992.022	2051715.19	0.2603	A	0.9
8	☐			758.92	0.0001	P	7.2

$$y = 2.6234\text{E-}004 * x + 7.0020\text{E-}006$$

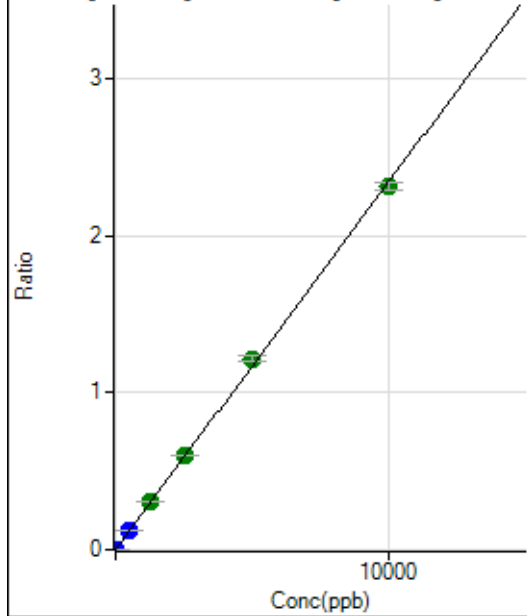
$$R = 0.9998$$

$$DL = 0.02434$$

$$BEC = 0.02669$$

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	187.78	0.0000	P	10.2
2	☐	5.000	5.600	10706.42	0.0013	P	2.2
3	☐	500.000	540.432	1014925.22	0.1266	P	1.1
4	☐	1250.000	1300.859	2485569.79	0.3047	A	2.3
5	☐	2500.000	2560.627	4958646.63	0.5997	A	0.8
6	☐	5000.000	5205.225	9885821.45	1.2191	A	2.2
7	☐	10000.000	9873.851	18228814.73	2.3125	A	2.2
8	☐			4396.32	0.0006	P	5.2

$$y = 2.3420\text{E-}004 * x + 2.3674\text{E-}005$$

$$R = 0.9997$$

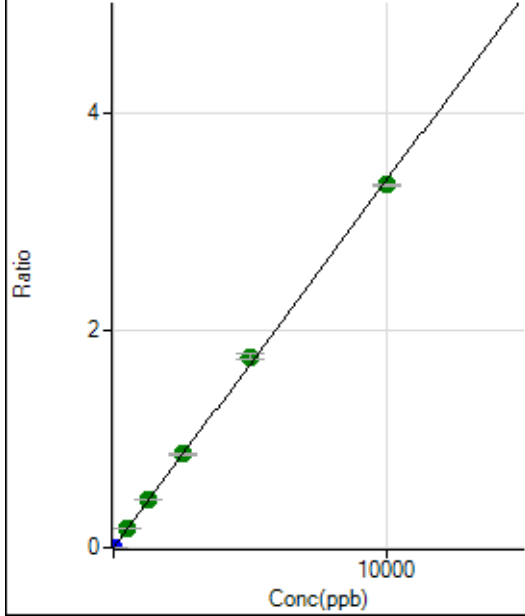
$$DL = 0.03098$$

$$BEC = 0.1011$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	115.56	0.0000	P	22.1
2	☐	5.000	4.709	12873.82	0.0016	P	1.3
3	☐	500.000	535.754	1451145.21	0.1810	A	1.3
4	☐	1250.000	1314.235	3622095.46	0.4440	A	0.9
5	☐	2500.000	2542.656	7102673.85	0.8589	A	0.6
6	☐	5000.000	5203.206	14252874.65	1.7577	A	2.5
7	☐	10000.000	9877.916	26305448.77	3.3369	A	0.7
8	☐			5007.71	0.0007	P	8.6

$$y = 3.3781E-004 * x + 1.4574E-005$$

$$R = 0.9997$$

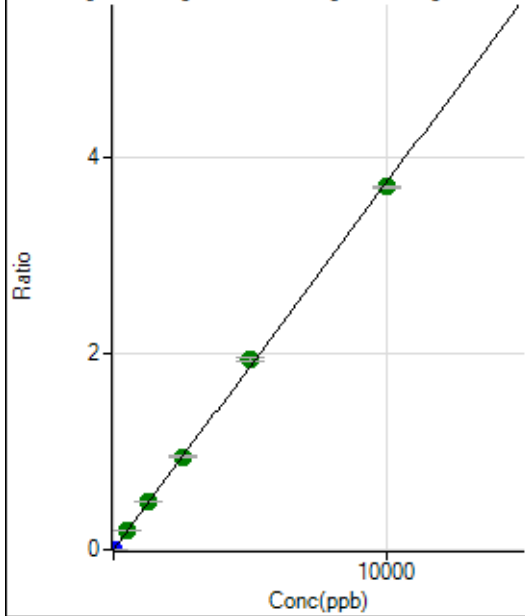
$$DL = 0.02854$$

$$BEC = 0.04314$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	200.00	0.0000	P	17.9
2	☐	5.000	4.785	14527.67	0.0018	P	2.0
3	☐	500.000	533.731	1597777.15	0.1993	A	0.4
4	☐	1250.000	1301.291	3963853.76	0.4858	A	0.8
5	☐	2500.000	2540.981	7844314.26	0.9486	A	1.2
6	☐	5000.000	5191.687	15716378.66	1.9382	A	2.8
7	☐	10000.000	9885.814	29094578.45	3.6907	A	0.8
8	☐			5525.64	0.0008	P	5.5

$$y = 3.7333E-004 * x + 2.5241E-005$$

$$R = 0.9997$$

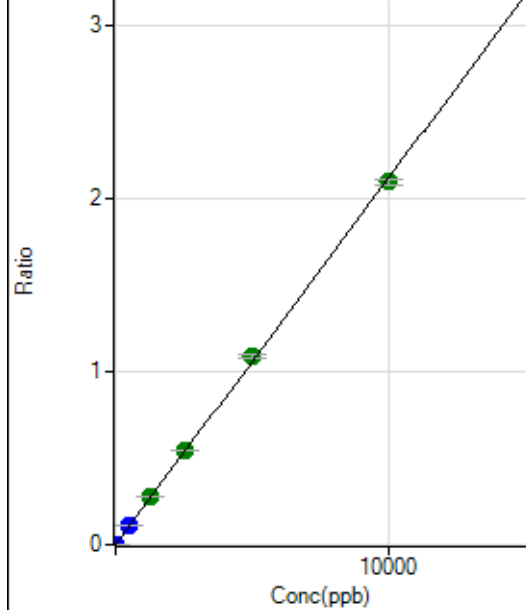
$$DL = 0.03639$$

$$BEC = 0.06761$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	85.55	0.0000	P	13.2
2	☐	5.000	4.782	8209.17	0.0010	P	1.8
3	☐	500.000	536.306	910732.16	0.1136	P	1.1
4	☐	1250.000	1306.078	2256821.39	0.2766	A	1.1
5	☐	2500.000	2586.386	4529342.23	0.5478	A	0.5
6	☐	5000.000	5142.347	8831850.01	1.0891	A	2.3
7	☐	10000.000	9898.405	16524717.39	2.0964	A	1.9
8	☐			3082.62	0.0004	P	9.7

$$y = 2.1179\text{E-}004 * x + 1.0797\text{E-}005$$

$$R = 0.9998$$

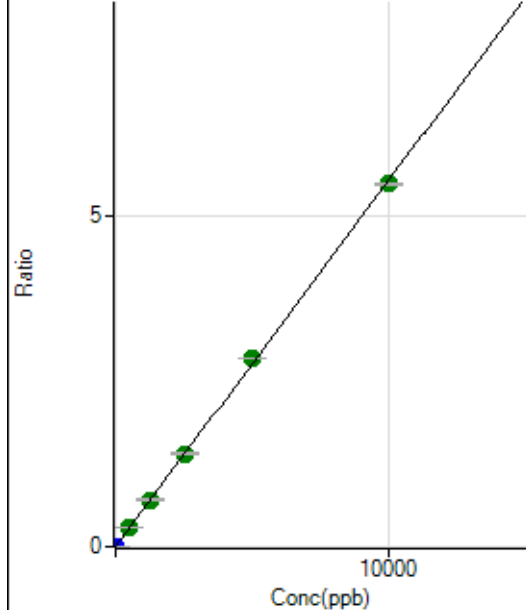
$$DL = 0.0202$$

$$BEC = 0.05098$$

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	226.67	0.0000	P	11.3
2	☐	5.000	4.649	20799.03	0.0026	P	3.2
3	☐	500.000	527.990	2336288.37	0.2914	A	0.9
4	☐	1250.000	1282.794	5775921.30	0.7079	A	0.9
5	☐	2500.000	2530.887	11548335.24	1.3967	A	1.7
6	☐	5000.000	5152.050	23058673.54	2.8432	A	0.5
7	☐	10000.000	9910.755	43116234.08	5.4694	A	0.8
8	☐			7621.22	0.0011	P	6.4

$$y = 5.5186\text{E-}004 * x + 2.8603\text{E-}005$$

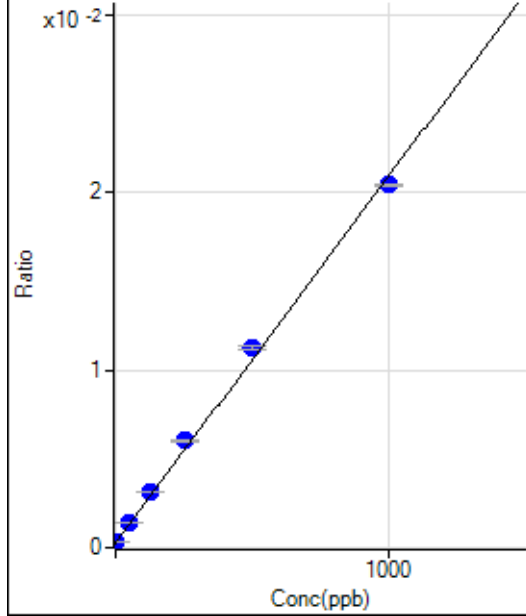
$$R = 0.9998$$

$$DL = 0.01752$$

$$BEC = 0.05183$$

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	2094.63	0.0003	P	9.2
2	☐	1.000	0.845	2255.77	0.0003	P	2.3
3	☐	50.000	55.061	10267.24	0.0014	P	2.8
4	☐	125.000	138.145	22318.21	0.0032	P	2.6
5	☐	250.000	276.771	42621.33	0.0060	P	2.3
6	☐	500.000	530.029	81581.96	0.0112	P	1.7
7	☐	1000.000	976.397	146431.74	0.0204	P	0.6
8	☐			1989.06	0.0003	P	0.6

$$y = 2.0611\text{E-}005 * x + 3.0545\text{E-}004$$

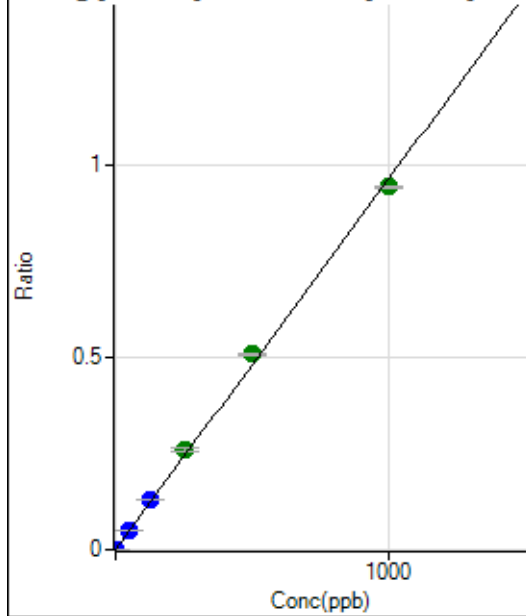
$$R = 0.9989$$

$$DL = 4.082$$

$$BEC = 14.82$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.33	0.0000	P	14.7
2	☐	1.000	0.964	6557.17	0.0009	P	2.3
3	☐	50.000	54.287	372969.10	0.0523	P	0.5
4	☐	125.000	133.837	913217.17	0.1290	P	1.0
5	☐	250.000	270.496	1848272.94	0.2607	A	3.7
6	☐	500.000	528.436	3699447.10	0.5092	A	0.6
7	☐	1000.000	979.339	6764161.43	0.9437	A	0.8
8	☐			877.82	0.0001	P	0.8

$$y = 9.6360\text{E-}004 * x + 9.2440\text{E-}006$$

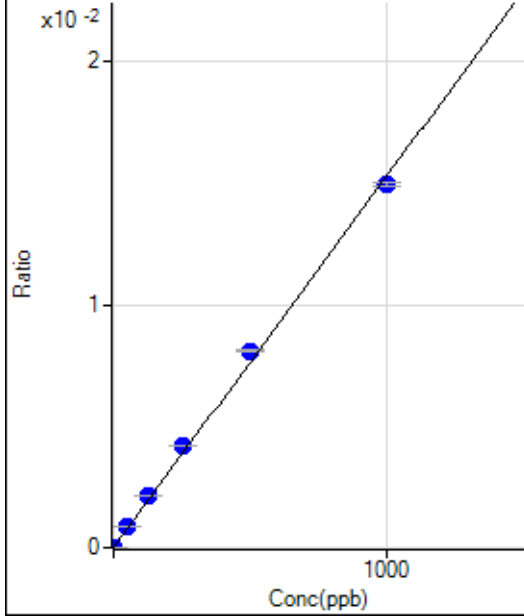
$$R = 0.9991$$

$$DL = 0.004218$$

$$BEC = 0.009593$$

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	13.33	0.0000	P	25.1
2	☐	1.000	0.926	112.22	0.0000	P	15.5
3	☐	50.000	55.712	6078.06	0.0009	P	3.2
4	☐	125.000	138.502	14987.15	0.0021	P	1.8
5	☐	250.000	274.355	29726.60	0.0042	P	1.5
6	☐	500.000	529.137	58713.53	0.0081	P	1.0
7	☐	1000.000	977.370	106986.10	0.0149	P	1.2
8	☐			122.22	0.0000	P	9.2

$$y = 1.5270\text{E-}005 * x + 1.9455\text{E-}006$$

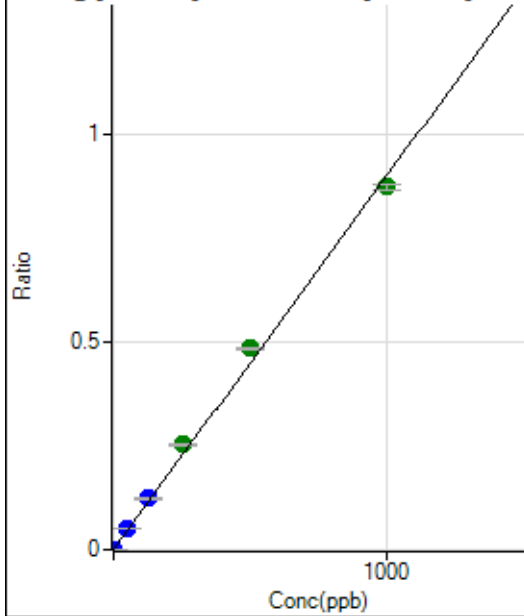
$$R = 0.9990$$

$$DL = 0.09606$$

$$BEC = 0.1274$$

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	22.22	0.0000	P	30.6
2	☐	1.000	1.031	6492.71	0.0009	P	0.7
3	☐	50.000	56.219	360148.35	0.0505	P	0.6
4	☐	125.000	136.626	869227.85	0.1228	P	1.8
5	☐	250.000	281.510	1793946.69	0.2530	A	2.3
6	☐	500.000	538.100	3512819.15	0.4835	A	0.9
7	☐	1000.000	971.308	6255894.63	0.8728	A	1.4
8	☐			794.48	0.0001	P	8.5

$$y = 8.9860\text{E-}004 * x + 3.2382\text{E-}006$$

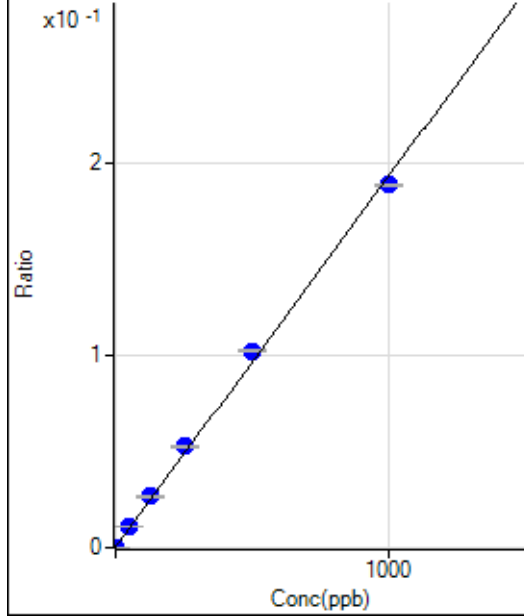
$$R = 0.9983$$

$$DL = 0.003311$$

$$BEC = 0.003604$$

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	1514.68	0.0002	P	10.0
2	☐	1.000	1.032	2932.80	0.0004	P	2.1
3	☐	50.000	55.605	77994.92	0.0109	P	2.0
4	☐	125.000	136.332	187641.49	0.0265	P	2.3
5	☐	250.000	273.197	375113.29	0.0529	P	1.9
6	☐	500.000	530.353	744416.36	0.1025	P	0.8
7	☐	1000.000	977.328	1352155.53	0.1886	P	0.7
8	☐			2127.93	0.0003	P	2.2

$$y = 1.9280\text{E-}004 * x + 2.2088\text{E-}004$$

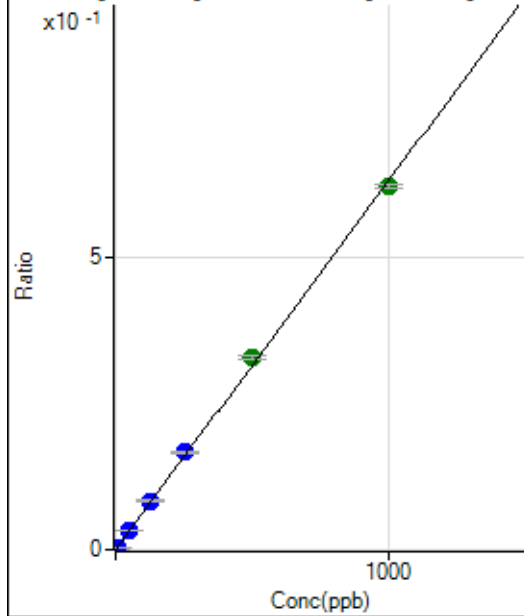
$$R = 0.9990$$

$$DL = 0.3446$$

$$BEC = 1.146$$

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	594.46	0.0001	P	5.4
2	☐	5.000	4.939	22332.74	0.0032	P	2.7
3	☐	50.000	53.653	241471.44	0.0339	P	1.5
4	☐	125.000	132.180	589924.80	0.0833	P	1.9
5	☐	250.000	265.067	1184384.61	0.1670	P	2.3
6	☐	500.000	522.346	2390315.68	0.3290	A	1.4
7	☐	1000.000	983.980	4442110.04	0.6197	A	1.1
8	☐			3911.71	0.0006	P	3.0

$$y = 6.2975\text{E-}004 * x + 8.6677\text{E-}005$$

$$R = 0.9995$$

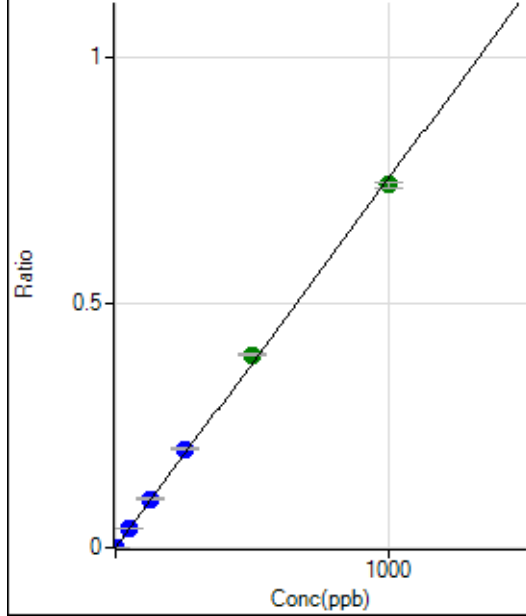
$$DL = 0.02231$$

$$BEC = 0.1376$$

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	246.67	0.0000	P	18.5
2	☐	2.000	1.990	10717.61	0.0015	P	4.5
3	☐	50.000	54.065	290443.56	0.0407	P	1.1
4	☐	125.000	132.160	704743.01	0.0995	P	2.0
5	☐	250.000	267.178	1426907.10	0.2012	P	2.1
6	☐	500.000	522.710	2859297.70	0.3936	A	1.1
7	☐	1000.000	983.252	5306615.09	0.7404	A	1.6
8	☐			5265.52	0.0008	P	7.9

$$y = 7.5294\text{E-}004 * x + 3.5968\text{E-}005$$

$$R = 0.9994$$

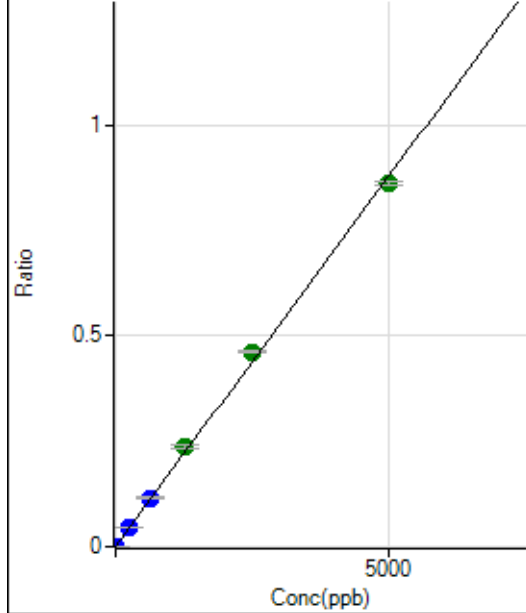
$$DL = 0.02651$$

$$BEC = 0.04777$$

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	135.56	0.0000	P	19.0
2	☐	10.000	9.726	12061.01	0.0017	P	0.8
3	☐	250.000	268.052	335469.00	0.0471	P	0.3
4	☐	625.000	660.428	820707.85	0.1159	P	1.4
5	☐	1250.000	1351.857	1682666.50	0.2373	A	2.7
6	☐	2500.000	2635.744	3360298.98	0.4626	A	1.8
7	☐	5000.000	4901.333	6165121.51	0.8601	A	1.0
8	☐			3467.15	0.0005	P	2.7

$$y = 1.7549\text{E-}004 * x + 1.9780\text{E-}005$$

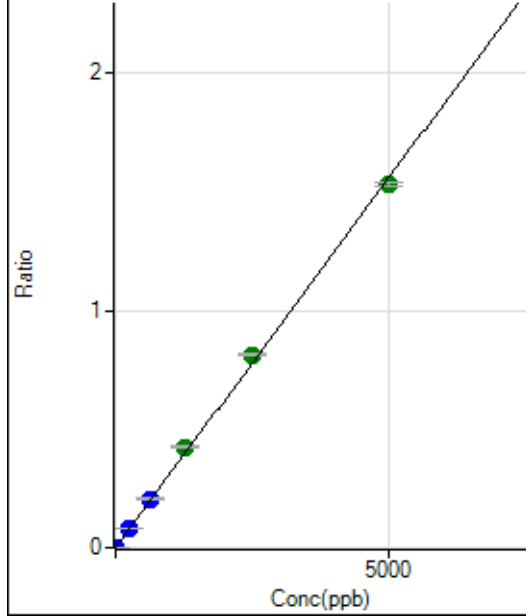
$$R = 0.9992$$

$$DL = 0.06418$$

$$BEC = 0.1127$$

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	207.78	0.0000	P	2.7
2	☐	10.000	9.667	21230.09	0.0030	P	1.2
3	☐	250.000	269.658	598525.51	0.0840	P	0.9
4	☐	625.000	660.987	1456621.49	0.2058	P	2.4
5	☐	1250.000	1355.358	2991925.13	0.4219	A	2.1
6	☐	2500.000	2614.158	5910644.29	0.8137	A	1.6
7	☐	5000.000	4911.101	10956803.45	1.5286	A	1.2
8	☐			6141.47	0.0009	P	0.4

$$y = 3.1125E-004 * x + 3.0307E-005$$

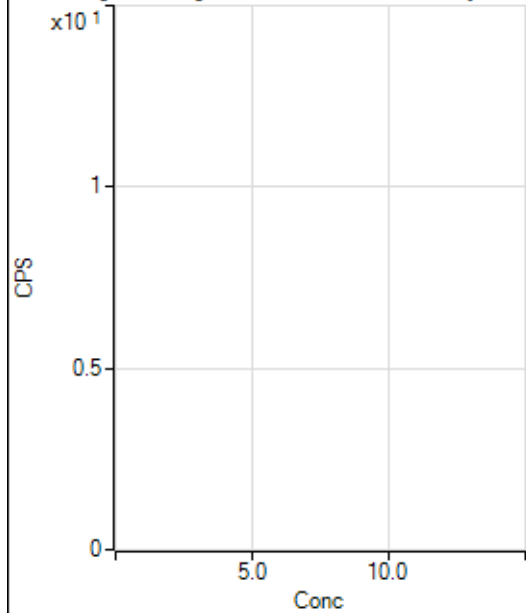
$$R = 0.9993$$

$$DL = 0.007793$$

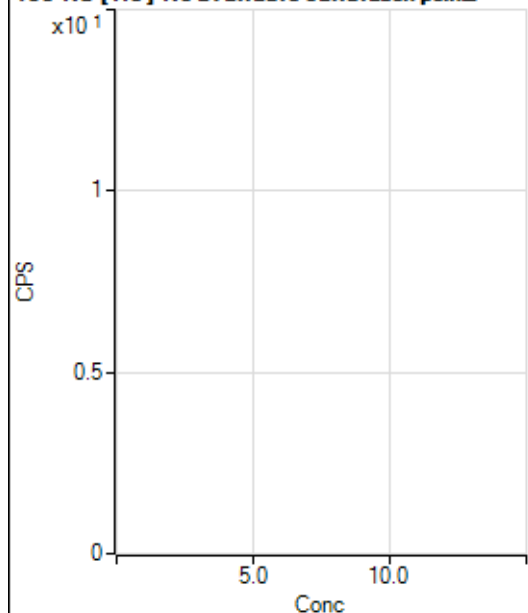
$$BEC = 0.09737$$

Weight: <None>

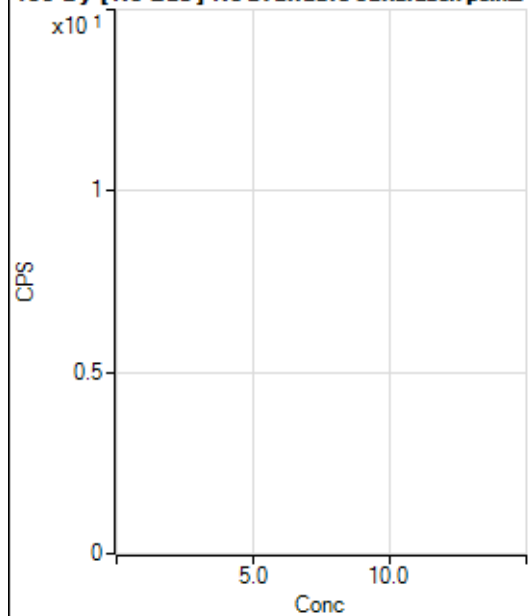
Min Conc: 0

150 Nd [No Gas] No available calibration points

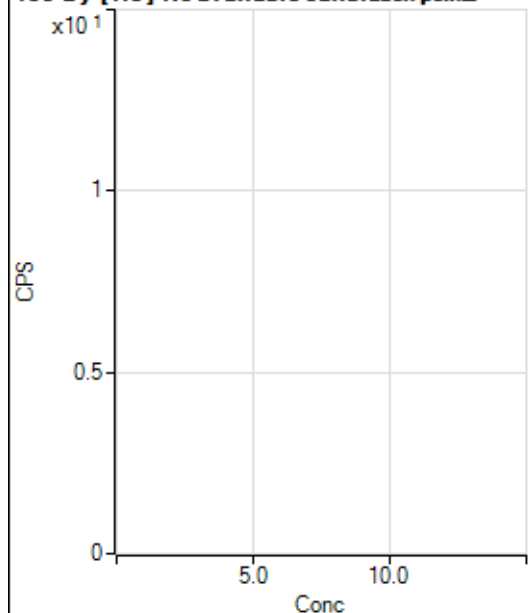
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	57.7
2	☐			7.78		P	49.5
3	☐			42.22		P	9.1
4	☐			84.45		P	8.2
5	☐			145.56		P	14.7
6	☐			271.12		P	9.1
7	☐			486.68		P	13.1
8	☐			205.56		P	10.5

150 Nd [He] No available calibration points

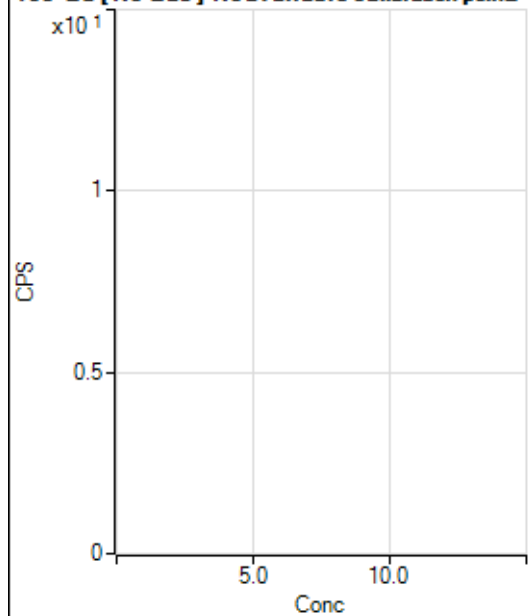
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			5.56		P	34.7
4	☐			12.22		P	15.7
5	☐			16.67		P	69.3
6	☐			47.78		P	4.0
7	☐			84.45		P	12.7
8	☐			62.22		P	11.1

156 Dy [No Gas] No available calibration points

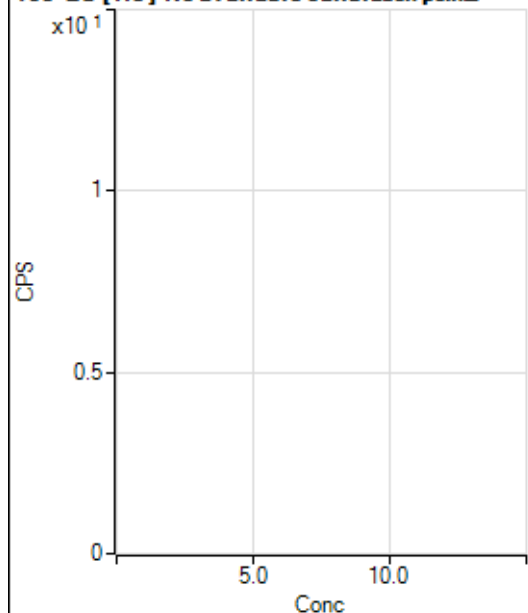
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.34		P	43.3
2	☐			13.33		P	25.0
3	☐			63.34		P	9.1
4	☐			67.78		P	11.4
5	☐			131.11		P	14.0
6	☐			251.11		P	18.1
7	☐			450.01		P	3.2
8	☐			1184.51		P	7.3

156 Dy [He] No available calibration points

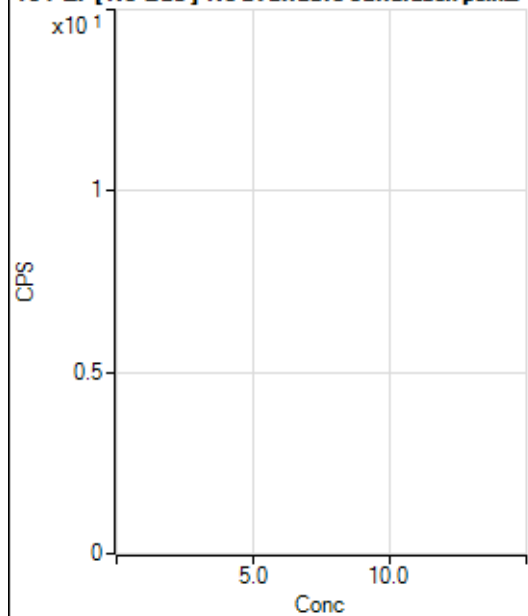
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			3.33		P	100.
3	☐			26.67		P	54.5
4	☐			31.11		P	34.4
5	☐			73.34		P	7.9
6	☐			116.67		P	15.9
7	☐			188.89		P	3.7
8	☐			510.02		P	9.6

160 Gd [No Gas] Noavailable calibration poin_

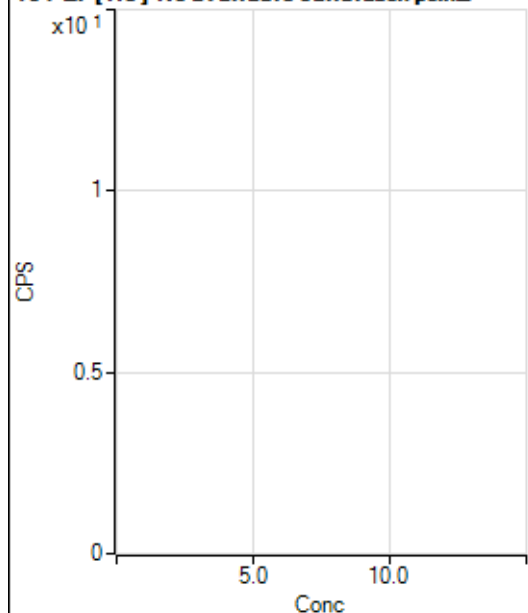
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			40.00		P	30.0
2	☐			44.45		P	37.7
3	☐			71.11		P	22.2
4	☐			108.89		P	12.4
5	☐			148.89		P	27.4
6	☐			242.23		P	13.4
7	☐			428.90		P	6.3
8	☐			1271.19		P	5.3

160 Gd [He] No available calibration points

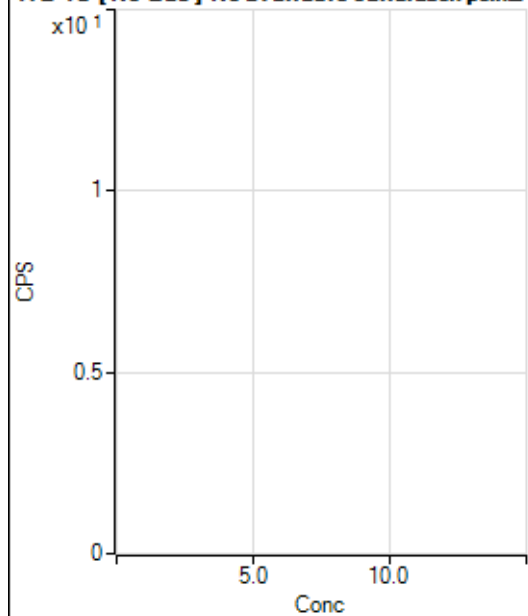
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			82.22		P	4.7
2	☐			108.89		P	33.9
3	☐			102.22		P	18.0
4	☐			118.89		P	11.3
5	☐			126.67		P	11.5
6	☐			178.89		P	13.7
7	☐			247.78		P	11.4
8	☐			681.14		P	4.0

164 Er [No Gas] No available calibration points

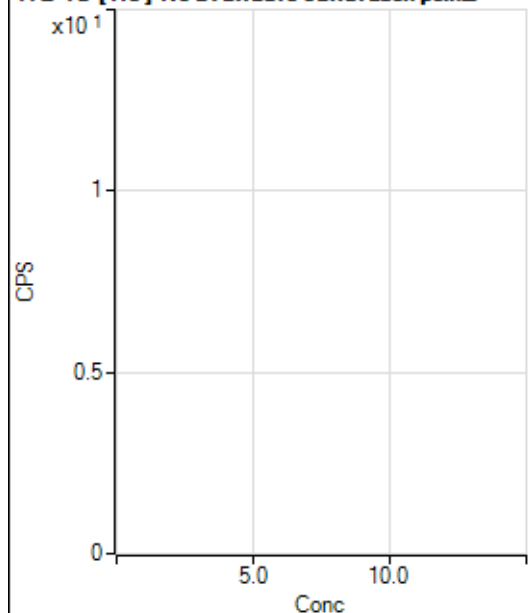
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			48.89		P	10.4
2	☐			63.33		P	24.1
3	☐			80.00		P	7.2
4	☐			76.67		P	37.9
5	☐			91.11		P	20.2
6	☐			146.67		P	9.9
7	☐			248.90		P	7.6
8	☐			223.34		P	1.5

164 Er [He] No available calibration points

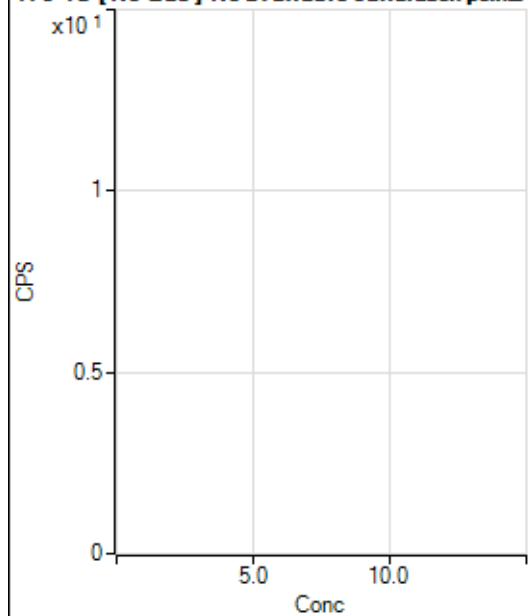
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			21.11		P	18.2
2	☐			18.89		P	27.0
3	☐			24.44		P	41.7
4	☐			12.22		P	15.7
5	☐			46.67		P	12.4
6	☐			48.89		P	23.9
7	☐			86.67		P	26.6
8	☐			86.67		P	10.2

172 Yb [No Gas] No available calibration points

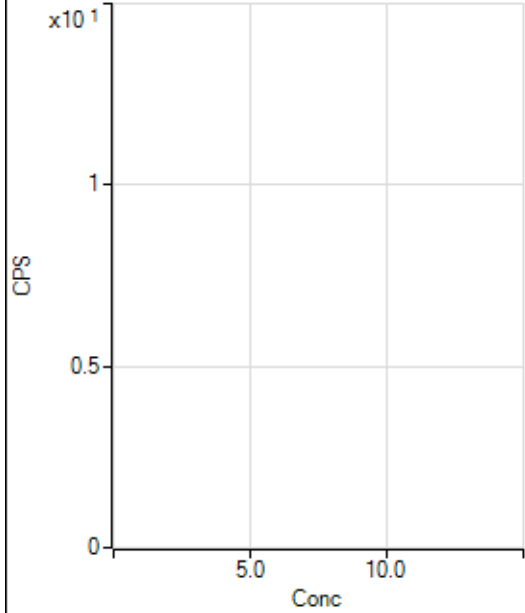
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.11		P	18.7
2	☐			54.45		P	35.9
3	☐			46.67		P	21.4
4	☐			61.11		P	35.5
5	☐			81.11		P	10.3
6	☐			96.67		P	12.4
7	☐			151.11		P	22.3
8	☐			163.34		P	14.7

172 Yb [He] No available calibration points

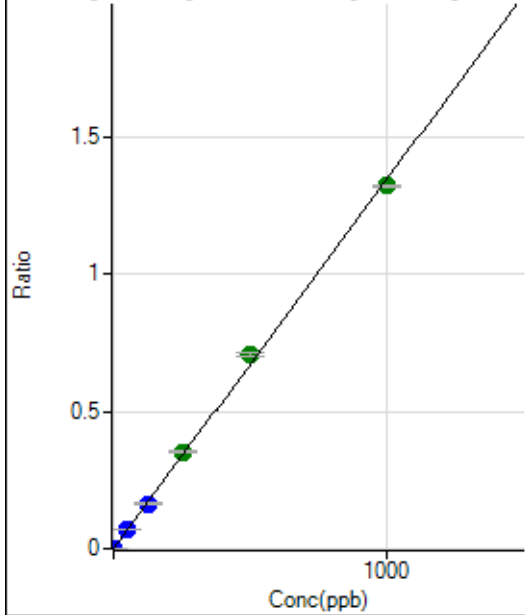
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14.44		P	13.4
2	☐			21.11		P	39.7
3	☐			22.22		P	31.2
4	☐			17.78		P	65.8
5	☐			45.55		P	15.2
6	☐			43.33		P	13.3
7	☐			54.45		P	24.7
8	☐			75.56		P	6.7

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			744.47		P	9.4
2	☐			732.25		P	4.9
3	☐			2147.97		P	1.6
4	☐			4077.34		P	3.3
5	☐			7472.20		P	2.2
6	☐			14591.50		P	2.1
7	☐			26711.56		P	1.7
8	☐			772.25		P	3.7

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7310.99		P	1.7
2	☐			7324.32		P	2.9
3	☐			7924.67		P	1.6
4	☐			8923.10		P	3.0
5	☐			10277.42		P	2.5
6	☐			13115.50		P	0.9
7	☐			17547.35		P	1.0
8	☐			6990.80		P	2.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	360.01	0.0001	P	4.6
2	☐	1.000	0.841	6065.93	0.0012	P	3.3
3	☐	50.000	51.395	341440.41	0.0692	P	2.6
4	☐	125.000	122.093	824011.43	0.1644	P	1.8
5	☐	250.000	261.036	1718873.22	0.3513	A	1.7
6	☐	500.000	527.936	3471741.51	0.7105	A	1.6
7	☐	1000.000	983.567	6392431.16	1.3236	A	0.2
8	☐			2281.34	0.0005	P	2.6

$$y = 0.0013 * x + 7.1208E-005$$

$$R = 0.9993$$

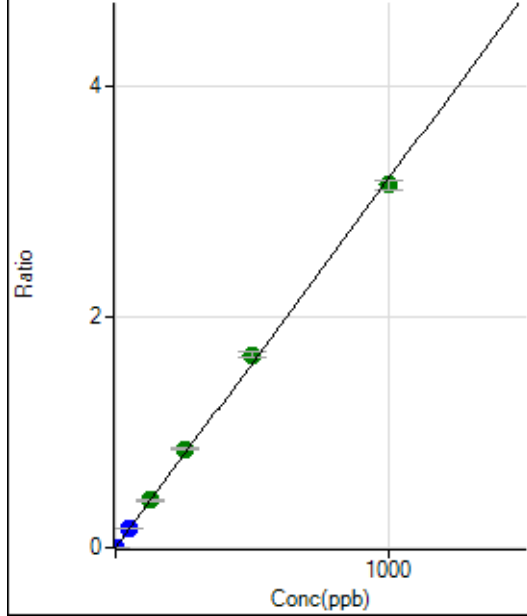
$$DL = 0.007319$$

$$BEC = 0.05292$$

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	845.59	0.0002	P	5.5
2	☐	1.000	0.882	15047.70	0.0030	P	4.4
3	☐	50.000	52.253	823862.11	0.1670	P	2.4
4	☐	125.000	128.005	2050160.47	0.4090	A	2.2
5	☐	250.000	266.876	4171087.30	0.8525	A	1.2
6	☐	500.000	523.543	8171816.89	1.6721	A	2.2
7	☐	1000.000	983.521	15168807.27	3.1411	A	2.5
8	☐			5332.26	0.0013	P	2.6

$$y = 0.0032 * x + 1.6723E-004$$

$$R = 0.9994$$

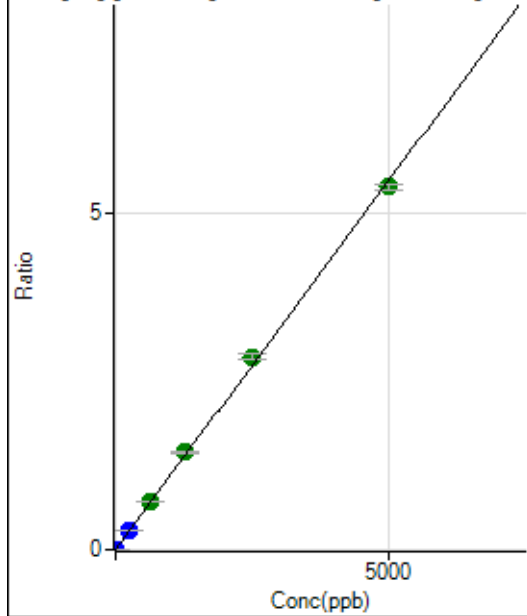
$$DL = 0.008663$$

$$BEC = 0.05237$$

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	728.92	0.0001	P	6.7
2	☐	1.000	0.866	5509.01	0.0011	P	1.1
3	☐	250.000	260.205	1404807.20	0.2848	P	2.2
4	☐	625.000	653.686	3585555.22	0.7153	A	2.6
5	☐	1250.000	1319.404	7063244.76	1.4436	A	1.4
6	☐	2500.000	2618.499	13997029.79	2.8648	A	2.6
7	☐	5000.000	4919.304	25990685.17	5.3819	A	1.5
8	☐			17192.65	0.0040	P	3.0

$$y = 0.0011 * x + 1.4410E-004$$

$$R = 0.9995$$

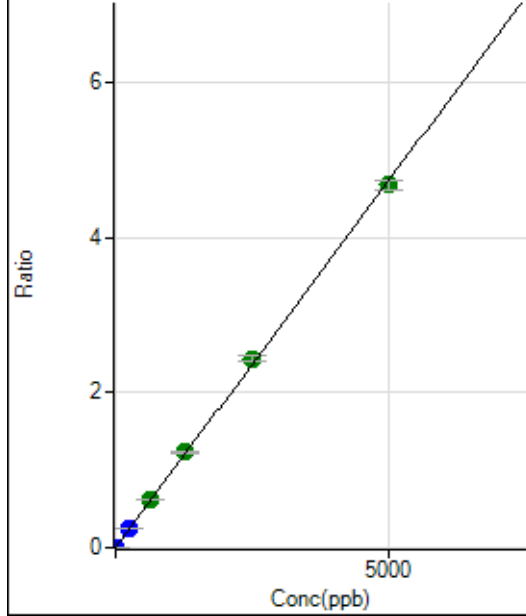
$$DL = 0.0266$$

$$BEC = 0.1317$$

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	661.14	0.0001	P	3.6
2	☐	1.000	0.882	4875.41	0.0010	P	1.7
3	☐	250.000	263.335	1230055.44	0.2494	P	3.1
4	☐	625.000	647.865	3075474.64	0.6134	A	1.6
5	☐	1250.000	1302.254	6031833.87	1.2329	A	2.6
6	☐	2500.000	2575.432	11911717.74	2.4381	A	3.0
7	☐	5000.000	4945.696	22608816.05	4.6818	A	2.9
8	☐			14736.27	0.0035	P	1.9

$$y = 9.4661\text{E-}004 * x + 1.3078\text{E-}004$$

$$R = 0.9998$$

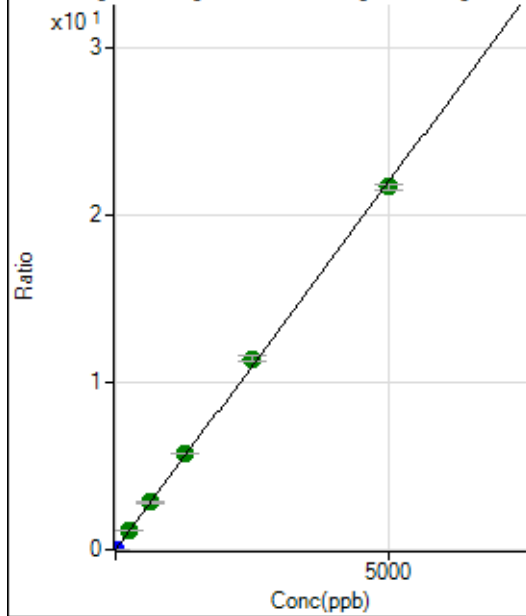
$$DL = 0.01496$$

$$BEC = 0.1382$$

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	3035.74	0.0006	P	2.6
2	☐	1.000	0.867	22280.00	0.0044	P	3.0
3	☐	250.000	267.253	5802725.37	1.1764	A	2.0
4	☐	625.000	642.319	14172027.11	2.8267	A	1.4
5	☐	1250.000	1308.819	28178575.34	5.7591	A	1.4
6	☐	2500.000	2596.867	55832868.20	11.4262	A	2.6
7	☐	5000.000	4933.834	104839718.7	21.7083	A	1.3
8	☐			68058.24	0.0160	P	2.0

$$y = 0.0044 * x + 6.0018\text{E-}004$$

$$R = 0.9996$$

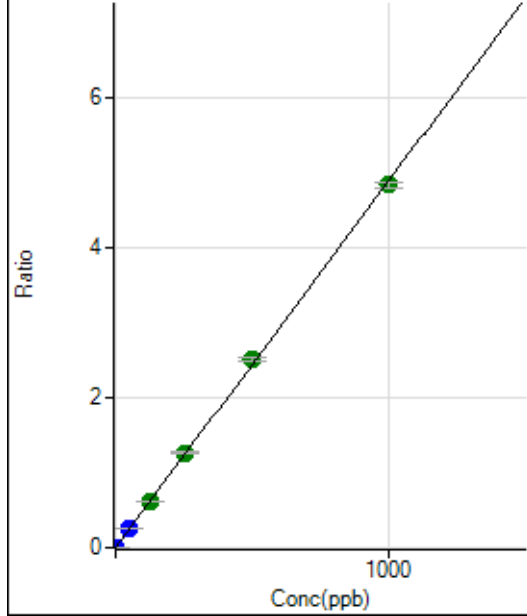
$$DL = 0.01049$$

$$BEC = 0.1364$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1519.00	0.0003	P	6.2
2	☐	1.000	0.824	21804.43	0.0043	P	1.6
3	☐	50.000	50.509	1217668.09	0.2469	P	2.0
4	☐	125.000	125.558	3074518.11	0.6132	A	1.6
5	☐	250.000	259.661	6203254.01	1.2679	A	1.7
6	☐	500.000	514.989	12284643.01	2.5143	A	2.5
7	☐	1000.000	989.995	23344464.65	4.8332	A	1.3
8	☐			3470.52	0.0008	P	3.4

$$y = 0.0049 * x + 3.0029E-004$$

$$R = 0.9998$$

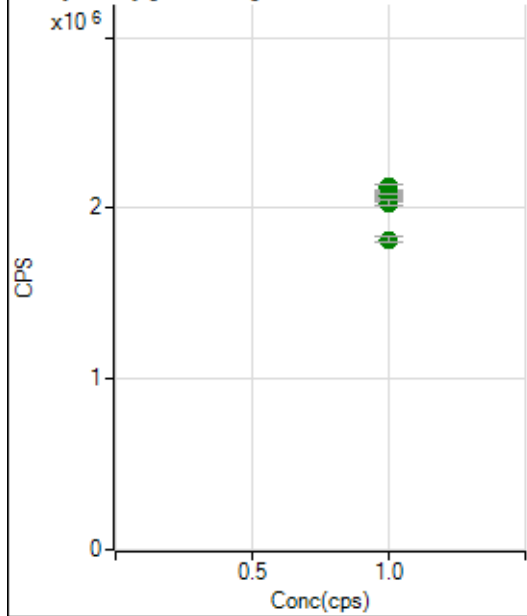
$$DL = 0.01148$$

$$BEC = 0.06151$$

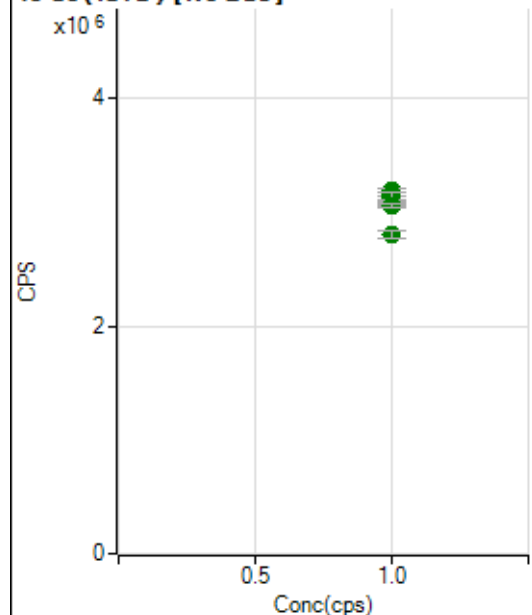
Weight: <None>

Min Conc: 0

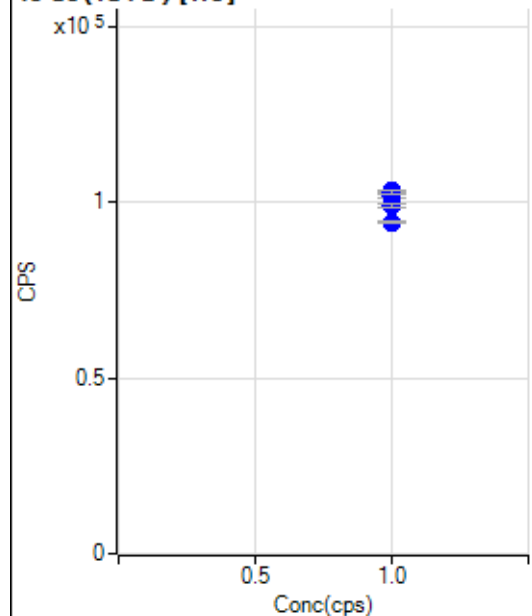
6 Li (ISTD) [No Gas]



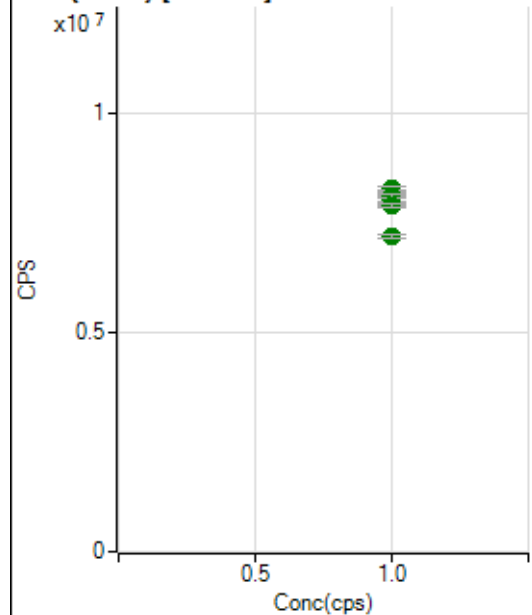
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2107867.40		A	0.0
2	☐	1.000		2125190.37		A	1.7
3	☐	1.000		2120540.56		A	1.4
4	☐	1.000		2049255.72		A	1.2
5	☐	1.000		2082931.46		A	1.3
6	☐	1.000		2067121.28		A	2.0
7	☐	1.000		2029960.79		A	1.6
8	☐	1.000		1818126.85		A	1.4

45 Sc (ISTD) [No Gas]

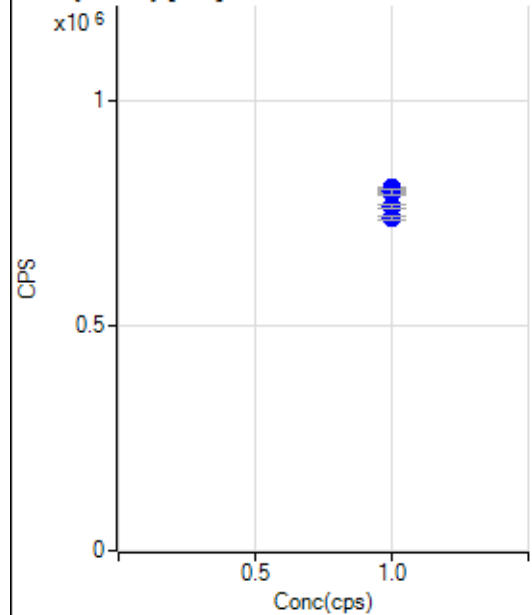
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3123298.56		A	0.9
2	☐	1.000		3097100.48		A	2.5
3	☐	1.000		3127359.26		A	2.7
4	☐	1.000		3185589.26		A	0.9
5	☐	1.000		3151503.67		A	1.2
6	☐	1.000		3134881.90		A	2.1
7	☐	1.000		3051080.61		A	1.0
8	☐	1.000		2800158.71		A	2.2

45 Sc (ISTD) [He]

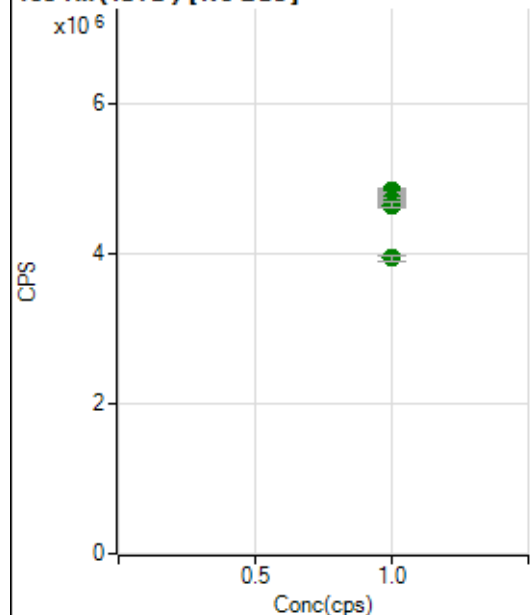
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		102279.49		P	2.0
2	☐	1.000		102950.74		P	0.4
3	☐	1.000		101965.36		P	1.0
4	☐	1.000		102261.90		P	0.2
5	☐	1.000		103196.19		P	0.5
6	☐	1.000		102616.34		P	1.0
7	☐	1.000		98866.13		P	0.9
8	☐	1.000		94231.93		P	0.4

89 Y (ISTD) [No Gas]

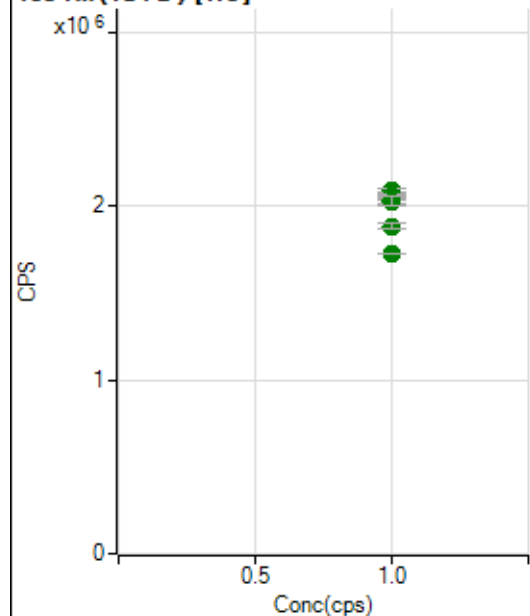
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7928607.52		A	0.7
2	☐	1.000		8020897.24		A	2.4
3	☐	1.000		8017794.32		A	1.1
4	☐	1.000		8158679.39		A	0.7
5	☐	1.000		8268693.42		A	1.2
6	☐	1.000		8110078.42		A	1.2
7	☐	1.000		7883679.88		A	1.2
8	☐	1.000		7179632.39		A	1.1

89 Y (ISTD) [He]

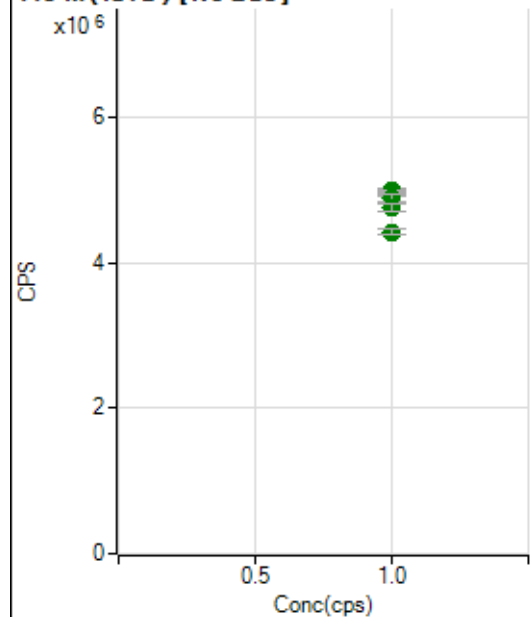
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		793146.46		P	1.0
2	☐	1.000		806391.30		P	0.4
3	☐	1.000		798580.79		P	0.1
4	☐	1.000		805896.44		P	0.2
5	☐	1.000		800907.28		P	0.9
6	☐	1.000		797647.36		P	1.2
7	☐	1.000		765261.83		P	1.1
8	☐	1.000		738739.74		P	1.0

103 Rh (ISTD) [No Gas]

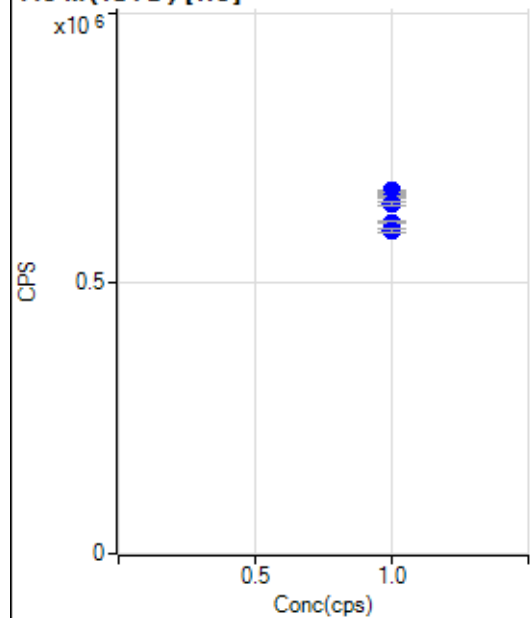
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4833052.22		A	1.4
2	☐	1.000		4804121.91		A	2.1
3	☐	1.000		4698868.47		A	1.1
4	☐	1.000		4802187.05		A	1.0
5	☐	1.000		4719045.62		A	0.3
6	☐	1.000		4698219.65		A	2.1
7	☐	1.000		4646997.85		A	1.8
8	☐	1.000		3938615.77		A	1.9

103 Rh (ISTD) [He]

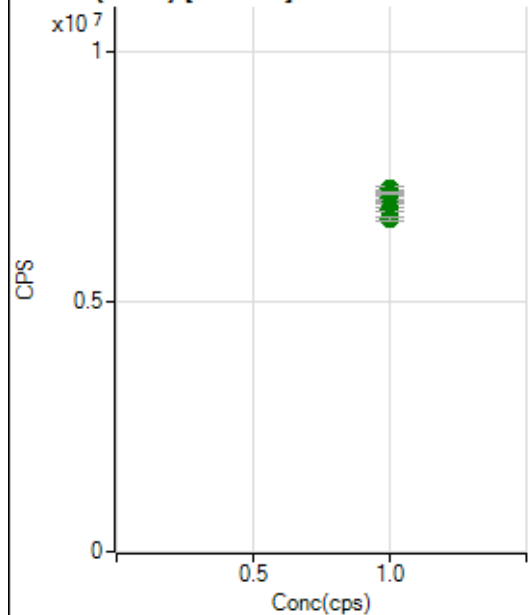
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2046309.85		A	0.9
2	☐	1.000		2062744.45		A	1.1
3	☐	1.000		2088699.73		A	1.1
4	☐	1.000		2059308.77		A	0.5
5	☐	1.000		2041648.44		A	2.6
6	☐	1.000		2026688.34		A	2.8
7	☐	1.000		1885935.18		A	1.5
8	☐	1.000		1727040.29		A	0.4

115 In (ISTD) [No Gas]

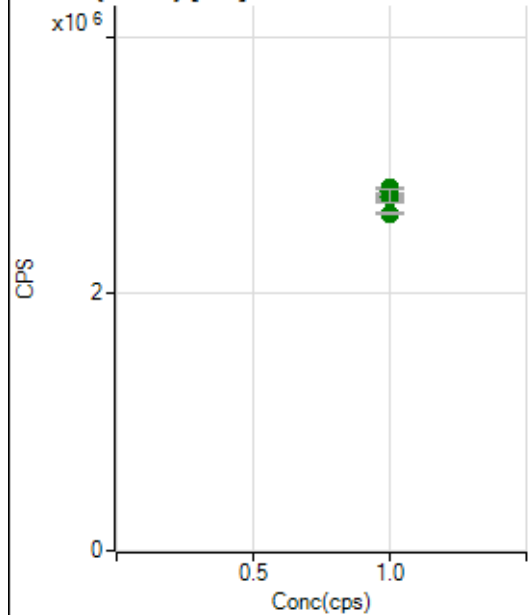
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4981686.45		A	0.2
2	☐	1.000		4935920.41		A	0.4
3	☐	1.000		4962792.54		A	1.2
4	☐	1.000		4966760.92		A	1.8
5	☐	1.000		4978391.33		A	0.9
6	☐	1.000		4872528.33		A	2.2
7	☐	1.000		4745468.50		A	2.1
8	☐	1.000		4411949.09		A	1.8

115 In (ISTD) [He]

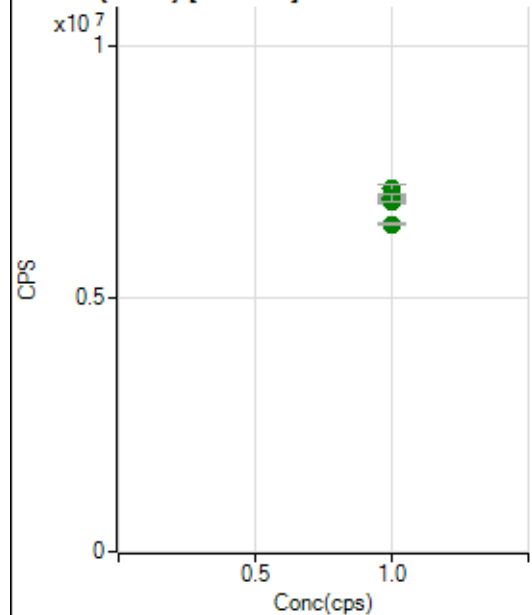
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		659825.18		P	0.8
2	☐	1.000		670742.20		P	0.2
3	☐	1.000		668144.73		P	0.6
4	☐	1.000		666990.76		P	0.3
5	☐	1.000		659462.79		P	0.4
6	☐	1.000		648467.74		P	1.0
7	☐	1.000		613043.70		P	0.8
8	☐	1.000		596486.38		P	0.9

159 Tb (ISTD) [No Gas]

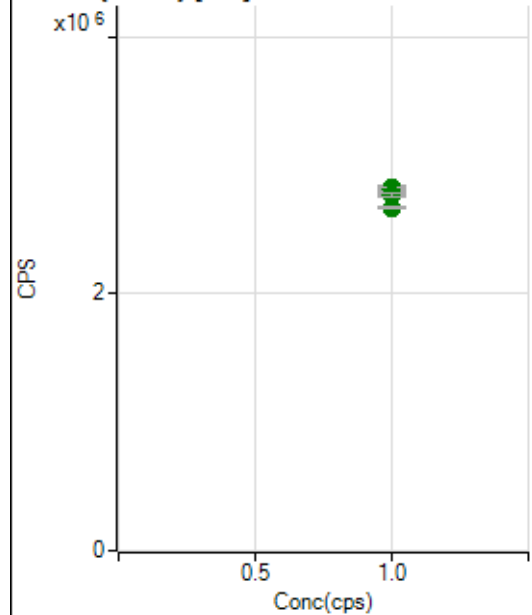
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6856508.23		A	0.9
2	☐	1.000		6985677.95		A	0.9
3	☐	1.000		7128652.39		A	0.3
4	☐	1.000		7081459.62		A	2.0
5	☐	1.000		7093396.84		A	1.7
6	☐	1.000		7264972.25		A	1.2
7	☐	1.000		7167709.75		A	0.5
8	☐	1.000		6654167.96		A	0.8

159 Tb (ISTD) [He]

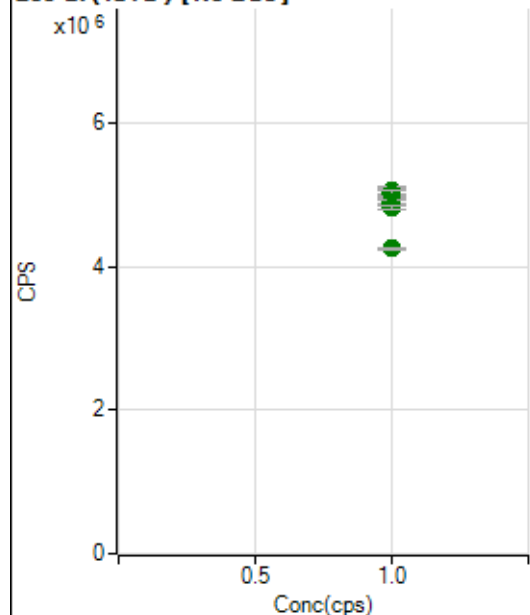
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2748852.53		A	0.6
2	☐	1.000		2763635.41		A	0.5
3	☐	1.000		2822401.87		A	0.6
4	☐	1.000		2785412.01		A	3.4
5	☐	1.000		2750192.27		A	2.0
6	☐	1.000		2794025.38		A	1.0
7	☐	1.000		2757613.36		A	3.6
8	☐	1.000		2625267.95		A	0.9

165 Ho (ISTD) [No Gas]

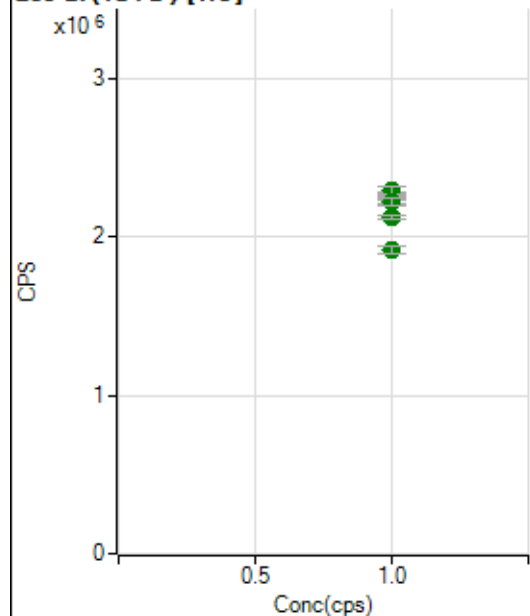
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6953730.38		A	0.3
2	☐	1.000		7009526.56		A	0.9
3	☐	1.000		6919318.51		A	1.1
4	☐	1.000		7001763.92		A	0.8
5	☐	1.000		6955107.88		A	1.1
6	☐	1.000		7162632.46		A	2.5
7	☐	1.000		6978200.18		A	2.0
8	☐	1.000		6458984.77		A	0.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2769922.39		A	1.0
2	☐	1.000		2801712.00		A	2.4
3	☐	1.000		2810633.78		A	1.0
4	☐	1.000		2823329.99		A	1.5
5	☐	1.000		2822252.46		A	1.1
6	☐	1.000		2813404.54		A	1.1
7	☐	1.000		2766240.38		A	0.9
8	☐	1.000		2665939.53		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5056913.85		A	1.3
2	☐	1.000		5047955.93		A	2.9
3	☐	1.000		4933652.56		A	1.9
4	☐	1.000		5014749.65		A	2.2
5	☐	1.000		4893136.59		A	1.1
6	☐	1.000		4887481.66		A	2.0
7	☐	1.000		4829720.76		A	0.9
8	☐	1.000		4250529.35		A	0.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2231005.52		A	2.0
2	☐	1.000		2260042.78		A	1.7
3	☐	1.000		2262500.31		A	0.2
4	☐	1.000		2250449.69		A	0.7
5	☐	1.000		2293450.78		A	1.9
6	☐	1.000		2229922.59		A	2.2
7	☐	1.000		2124168.41		A	1.0
8	☐	1.000		1923020.44		A	2.7

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8013124 MS1.b

Acq. Date-Time 2024-01-31 10:40:19

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		6359	63591.23			0.411	5.000
24		53485	534854.32			0.374	5.000
25		7251	72508.15			0.307	5.000
26		8417	84168.52			0.638	5.000
59		41106	411055.18			0.693	5.000
113		4926	49258.76			1.448	5.000
115		59368	593682.32			1.271	5.000
206		17806	178059.09			1.333	5.000
207		16140	161396.38			1.531	5.000
208		38789	387886.11			1.323	5.000
220		0	1.50			84.984	

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

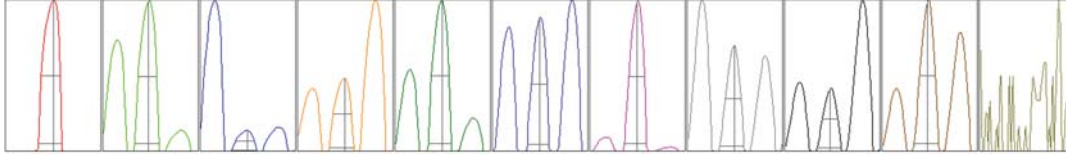
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	6361	6339	6387	6327	6381
24	53575	53228	53321	53692	53611
25	7229	7238	7238	7274	7275
26	8448	8372	8402	8368	8494
59	41114	41386	40916	40735	41376
113	5000	4950	4878	4828	4973
115	59776	59993	58957	58234	59881
206	17625	17887	17569	17783	18165
207	16028	16228	15958	15950	16534
208	38840	38850	38214	38467	39572

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	11258.39	9.05	8.90 - 9.10	
24	96585.94	23.95	23.90 - 24.10	
25	13103.81	25.00	24.90 - 25.10	
26	15204.51	26.00	25.90 - 26.10	
59	78887.59	59.00	58.90 - 59.10	
113	10251.68	113.00	112.90 - 113.10	
115	124914.90	115.00	114.90 - 115.10	
206	36799.13	206.00	205.90 - 206.10	
207	33265.20	206.95	206.90 - 207.10	
208	80054.57	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.739	0.900	
24	0.59	0.778	0.900	
25	0.58	0.782	0.900	
26	0.58	0.780	0.900	
59	0.55	0.734	0.900	
113	0.49	0.684	0.900	
115	0.49	0.704	0.900	
206	0.49	0.764	0.900	
207	0.49	0.765	0.900	
208	0.49	0.779	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.85 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	-6.0 V	Omega Lens	10.8 V	Deflect	14.0 V
Extract 2	-230.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 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	150 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-1.0 mm
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EM

Discriminator	4.4 mV	Analog HV	2306 V	Pulse HV	1662 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		9069	90691.30			0.501	
89		6678	66783.34			0.853	
205		12230	122304.29			0.982	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	9077	9056	9013	9138	9062
89	6771	6640	6632	6695	6654
205	12114	12323	12093	12268	12354

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.85 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	-6.0 V	Omega Lens	10.8 V	Deflect	3.8 V
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US EPA Tune Check Report

Extract 2	-230.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 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	124	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-1.0 mm
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EM

Discriminator	4.4 mV	Analog HV	2306 V	Pulse HV	1662 V
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