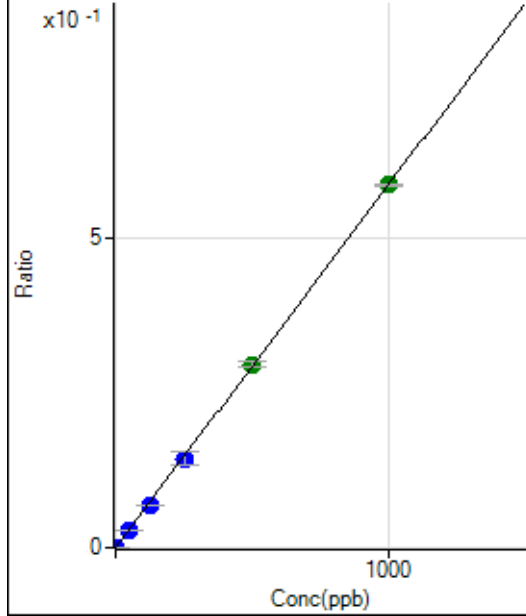


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8071024-MS.b\
Analysis File: P8071024-MS.batch.bin
DA Date-Time: 2024-07-10 12:21:10
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-07-10 10:40:17
2	007CALS.d	S02	2024-07-10 10:50:20
3	008CALS.d	S03	2024-07-10 10:53:43
4	009CALS.d	S04	2024-07-10 10:56:52
5	011CALS.d	S05	2024-07-10 11:07:52
6	012CALS.d	S06	2024-07-10 11:10:54
7	013CALS.d	S07	2024-07-10 11:13:58
8	014CALS.d	S08	2024-07-10 11:17:00

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	98.32	0.0000	P	18.3
2	☐	1.000	0.995	2524.08	0.0006	P	2.1
3	☐	50.000	47.661	118027.73	0.0280	P	2.3
4	☐	125.000	117.558	290756.88	0.0690	P	0.9
5	☐	250.000	245.633	584015.57	0.1441	P	13.8
6	☐	500.000	504.938	1225035.23	0.2961	A	3.6
7	☐	1000.000	999.670	2402344.42	0.5863	A	0.6
8	☐			877.84	0.0002	P	34.5

$$y = 5.8646E-004 * x + 2.3025E-005$$

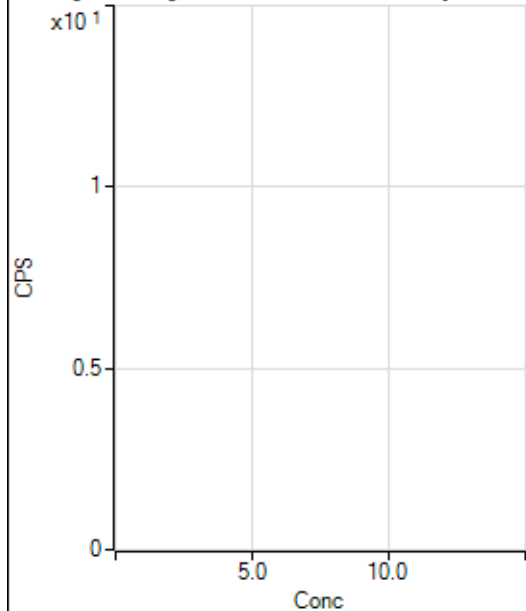
$$R = 0.9999$$

$$DL = 0.02153$$

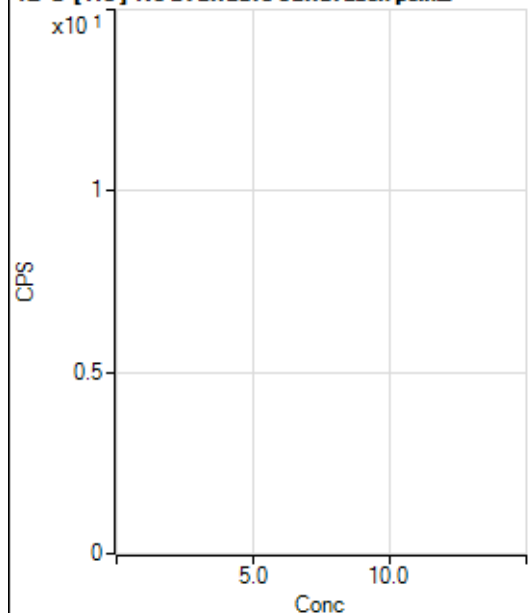
$$BEC = 0.03926$$

Weight: <None>

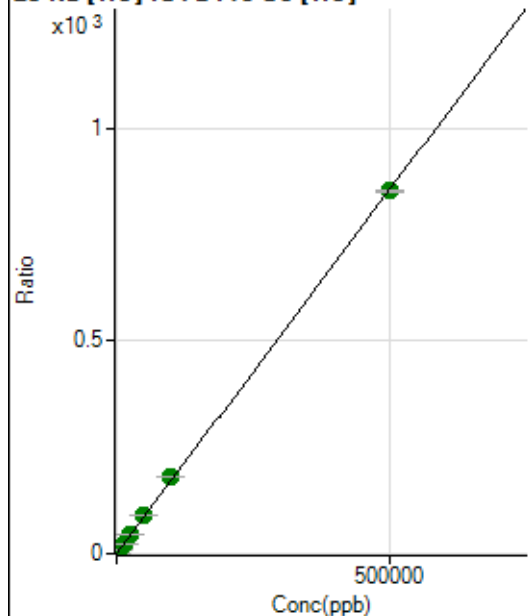
Min Conc: 0

12 C [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3536986.89		A	1.9
2	☐			3516621.96		A	0.2
3	☐			4043908.90		A	1.9
4	☐			4506431.01		A	1.9
5	☐			4118541.08		A	2.0
6	☐			4308615.08		A	3.3
7	☐			5174546.55		A	4.3
8	☐			4557402.64		A	2.1

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36792.65		P	1.5
2	☐			36425.08		P	0.2
3	☐			41900.75		P	1.7
4	☐			47233.35		P	0.3
5	☐			44991.90		P	1.0
6	☐			47764.03		P	0.6
7	☐			60431.39		P	1.5
8	☐			54775.96		P	0.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	14739.74	0.0738	P	2.1
2	☐	500.000	484.069	177296.08	0.9014	P	1.1
3	☐	5000.000	5128.640	1735894.30	8.8421	A	1.3
4	☐	12500.000	13059.603	4384900.59	22.4013	A	1.0
5	☐	25000.000	26257.078	8613173.48	44.9645	A	0.7
6	☐	50000.000	51791.337	17302812.24	88.6194	A	1.0
7	☐	100000.00	105406.58	35184860.59	180.2832	A	0.4
8	☐	500000.00	498661.43	166065124.1	852.6149	A	0.3

$$y = 0.0017 * x + 0.0738$$

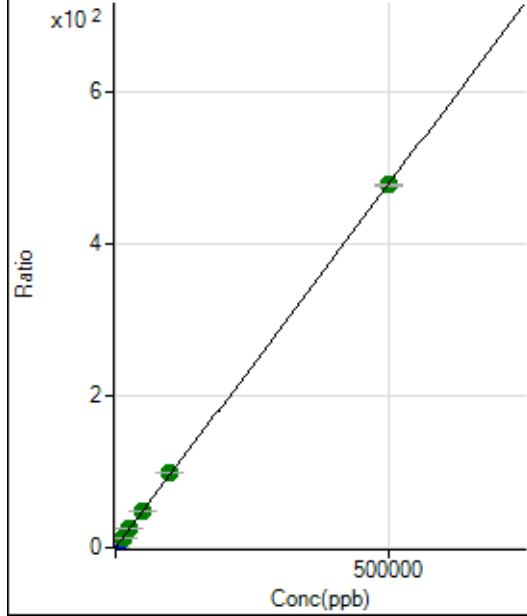
$$R = 0.9999$$

$$DL = 2.716$$

$$BEC = 43.19$$

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	266.67	0.0013	P	3.5
2	☐	500.000	487.005	92000.07	0.4677	P	0.5
3	☐	5000.000	4930.857	927433.07	4.7237	P	0.6
4	☐	12500.000	12837.087	2407260.41	12.2956	A	0.6
5	☐	25000.000	26033.471	4775794.75	24.9339	A	1.1
6	☐	50000.000	51198.340	9573348.61	49.0347	A	0.9
7	☐	100000.00	103384.40	19323020.41	99.0140	A	1.5
8	☐	500000.00	499143.88	93109199.72	478.0381	A	0.5

$$y = 9.5771\text{E-}004 * x + 0.0013$$

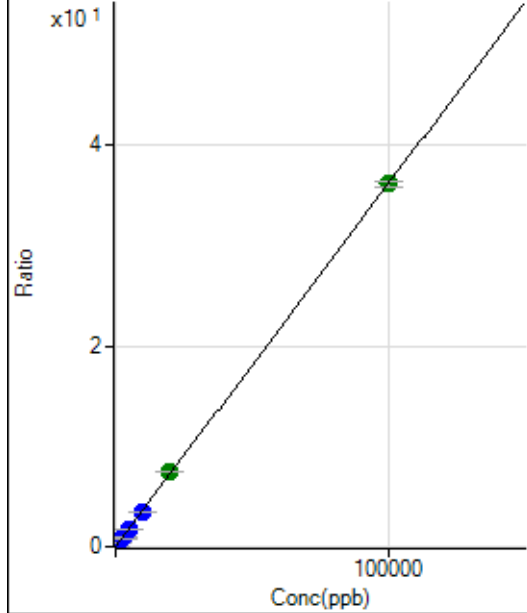
$$R = 1.0000$$

$$DL = 0.1458$$

$$BEC = 1.395$$

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	113.34	0.0006	P	28.8
2	☐	20.000	21.809	1661.48	0.0085	P	17.8
3	☐	1000.000	958.776	68298.25	0.3479	P	0.5
4	☐	2500.000	2385.162	169225.69	0.8645	P	1.0
5	☐	5000.000	4883.526	338905.24	1.7695	P	0.6
6	☐	10000.000	9529.840	674070.12	3.4524	P	0.6
7	☐	20000.000	20713.439	1464361.87	7.5033	A	1.9
8	☐	100000.00	99913.435	7048600.94	36.1907	A	1.4

$$y = 3.6221\text{E-}004 * x + 5.6865\text{E-}004$$

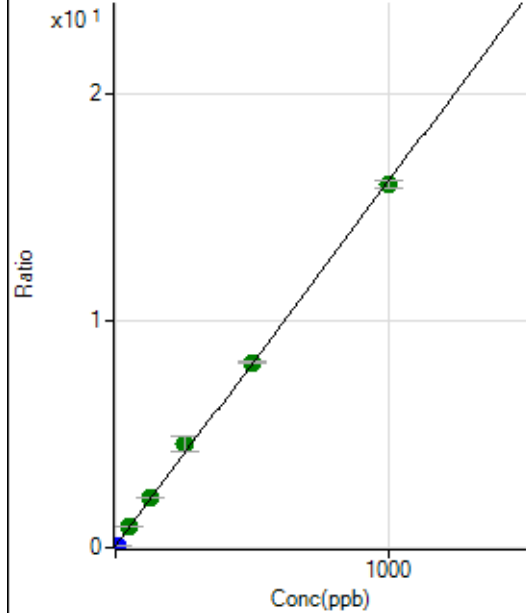
$$R = 1.0000$$

$$DL = 1.354$$

$$BEC = 1.57$$

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	443985.39	0.0800	P	2.2
2	☐	10.000	0.374	467310.38	0.0860	P	1.6
3	☐	50.000	53.900	5121152.21	0.9445	A	1.4
4	☐	125.000	132.002	12006367.88	2.1971	A	1.2
5	☐	250.000	280.386	23755472.70	4.5770	A	15.2
6	☐	500.000	503.100	45088198.77	8.1491	A	0.7
7	☐	1000.000	989.880	87800596.47	15.9565	A	2.0
8	☐			2407281.72	0.4510	A	7.7

$$y = 0.0160 * x + 0.0800$$

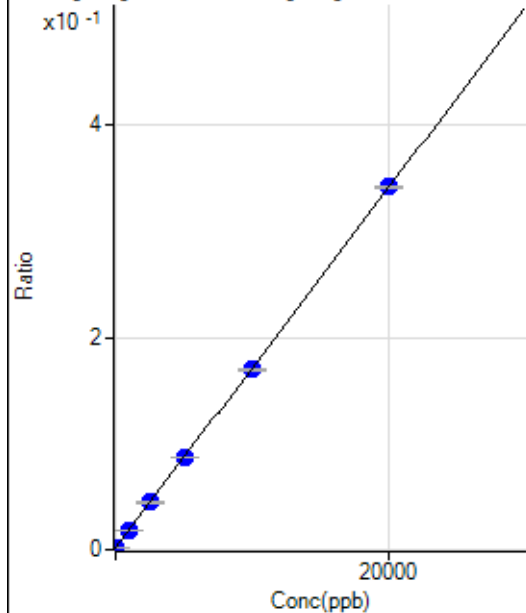
$$R = 0.9993$$

$$DL = 0.3258$$

$$BEC = 4.987$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-17.192	270.00	0.0014	P	18.4
2	☐	0.000	17.192	380.01	0.0019	P	20.4
3	☐	1000.000	983.744	3600.49	0.0183	P	4.4
4	☐	2500.000	2525.166	8713.79	0.0445	P	0.8
5	☐	5000.000	5055.929	16756.45	0.0875	P	0.8
6	☐	10000.000	9899.251	33135.59	0.1697	P	0.6
7	☐	20000.000	20034.059	66702.35	0.3418	P	0.5
8	☐			287.78	0.0015	P	8.0

$$y = 1.6978E-005 * x + 0.0016$$

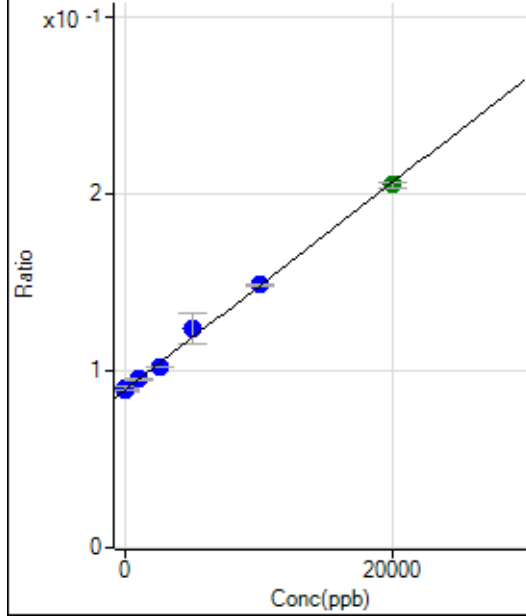
$$R = 1.0000$$

$$DL = 56.88$$

$$BEC = 96.78$$

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	-89.674	494532.89	0.0891	P	1.7
2	☐	0.000	89.674	489868.37	0.0901	P	1.6
3	☐	1000.000	1023.144	518301.35	0.0956	P	1.2
4	☐	2500.000	2152.761	558418.90	0.1022	P	0.6
5	☐	5000.000	5935.189	645746.37	0.1243	P	14.1
6	☐	10000.000	10071.431	821452.18	0.1485	P	1.3
7	☐	20000.000	19772.735	1128990.45	0.2052	A	1.8
8	☐			422572.72	0.0791	P	1.1

$$y = 5.8448\text{E-}006 * x + 0.0896$$

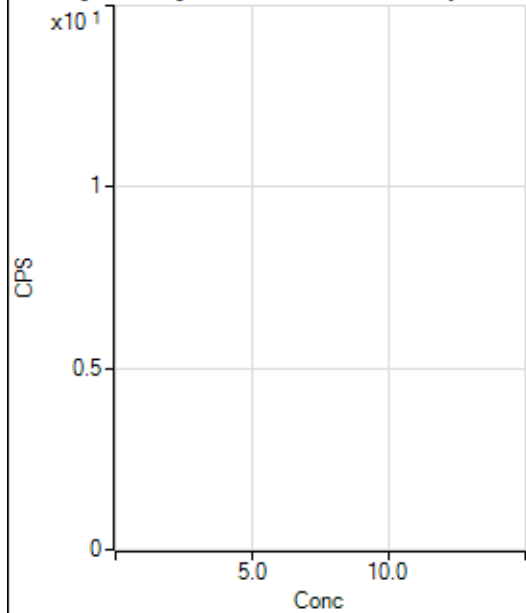
$$R = 0.9984$$

$$DL = 754$$

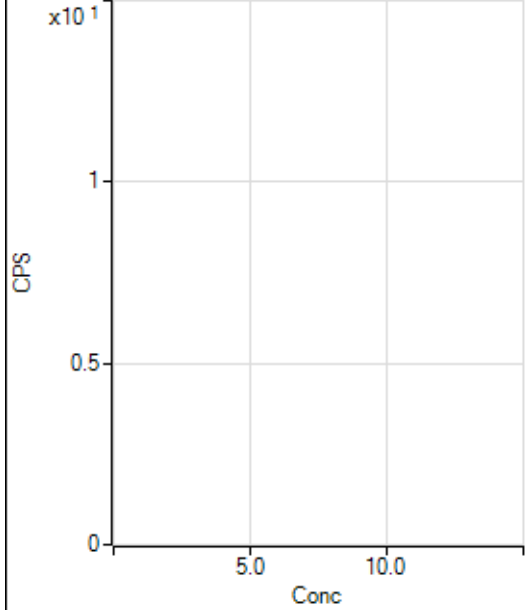
$$BEC = 1.533\text{E}+04$$

Weight: <None>

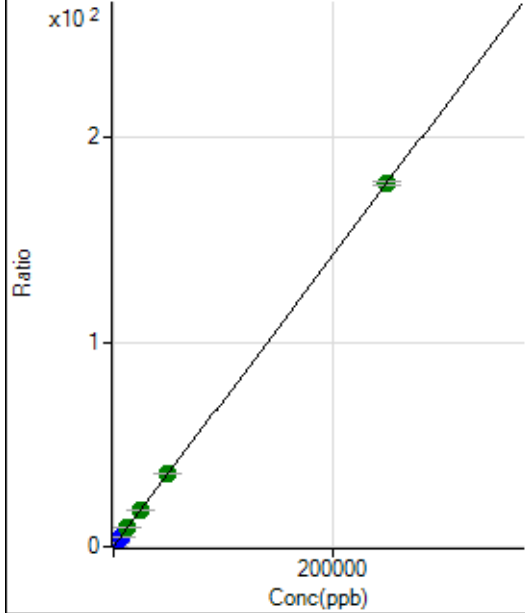
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			619930.65		P	0.7
2	☐			605215.58		P	0.2
3	☐			618566.81		P	0.8
4	☐			609659.08		P	1.1
5	☐			598886.96		P	0.7
6	☐			601857.04		P	0.5
7	☐			593990.48		P	1.0
8	☐			609357.72		P	0.6

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4628.57		P	3.5
2	☐			4416.28		P	2.8
3	☐			4514.08		P	1.5
4	☐			4478.51		P	1.5
5	☐			4178.42		P	4.1
6	☐			4458.51		P	0.6
7	☐			4482.96		P	2.4
8	☐			4706.37		P	1.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22228.30	0.1113	P	1.2
2	☐	500.000	482.573	89179.95	0.4534	P	0.2
3	☐	2500.000	2342.114	347772.85	1.7714	P	0.6
4	☐	6250.000	5898.708	840220.50	4.2924	P	1.4
5	☐	12500.000	12868.859	1768361.16	9.2328	A	0.7
6	☐	25000.000	25384.074	3534580.29	18.1036	A	0.7
7	☐	50000.000	50249.481	6972678.72	35.7282	A	0.9
8	☐	250000.00	249903.64	34523043.38	177.2433	A	1.0

$$y = 7.0880\text{E-}004 * x + 0.1113$$

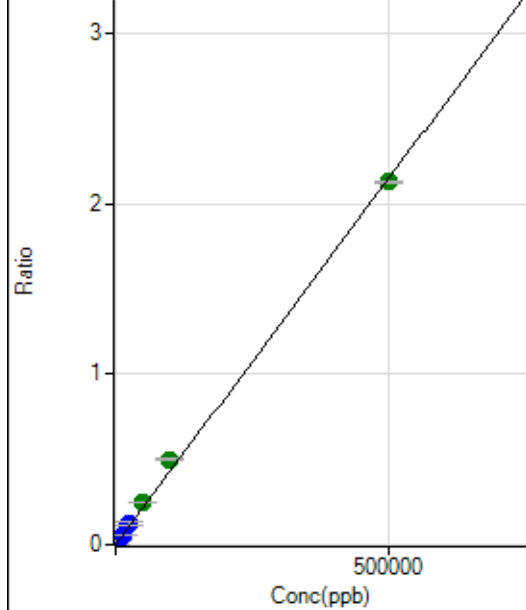
$$R = 1.0000$$

$$DL = 5.807$$

$$BEC = 157.1$$

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	471.13	0.0001	P	4.9
2	☐	500.000	486.151	11821.60	0.0022	P	1.9
3	☐	5000.000	5509.754	128936.70	0.0238	P	0.4
4	☐	12500.000	13343.370	313971.57	0.0575	P	1.5
5	☐	25000.000	28400.508	634110.96	0.1222	P	15.2
6	☐	50000.000	57652.771	1371860.26	0.2480	A	2.1
7	☐	100000.00	116432.56	2755516.31	0.5007	A	1.5
8	☐	500000.00	495752.01	11381991.92	2.1315	A	0.2

$$y = 4.2994\text{E-}006 * x + 8.4913\text{E-}005$$

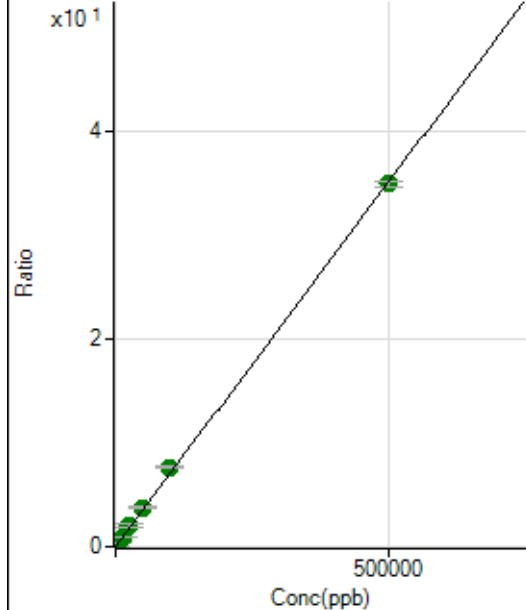
$$R = 0.9993$$

$$DL = 2.894$$

$$BEC = 19.75$$

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	16550.73	0.0030	P	1.8
2	☐	500.000	475.802	197854.86	0.0364	P	1.6
3	☐	5000.000	5485.993	2105885.96	0.3883	A	0.8
4	☐	12500.000	13429.158	5171035.76	0.9463	A	0.4
5	☐	25000.000	28788.731	10510525.61	2.0252	A	15.2
6	☐	50000.000	53681.893	20878727.33	3.7737	A	1.9
7	☐	100000.00	109354.34	42283968.54	7.6842	A	1.9
8	☐	500000.00	497543.44	186641906.1	34.9513	A	1.7

$$y = 7.0242\text{E-}005 * x + 0.0030$$

$$R = 0.9998$$

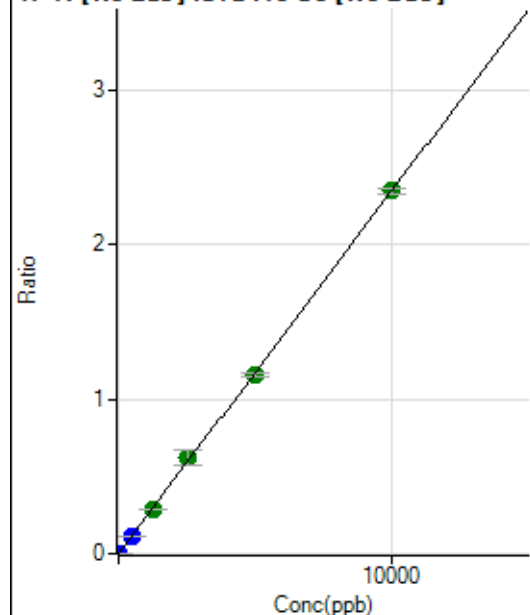
$$DL = 2.247$$

$$BEC = 42.44$$

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	182.22	0.0000	P	18.6
2	☐	5.000	4.222	5561.13	0.0010	P	4.1
3	☐	500.000	475.179	604755.45	0.1115	P	0.3
4	☐	1250.000	1233.975	1582172.04	0.2895	A	1.2
5	☐	2500.000	2652.060	3227657.80	0.6222	A	15.8
6	☐	5000.000	4914.627	6379266.23	1.1531	A	2.1
7	☐	10000.000	10007.916	12922208.56	2.3480	A	1.6
8	☐			3601.78	0.0007	P	59.6

$$y = 2.3461\text{E-}004 * x + 3.2732\text{E-}005$$

$$R = 0.9998$$

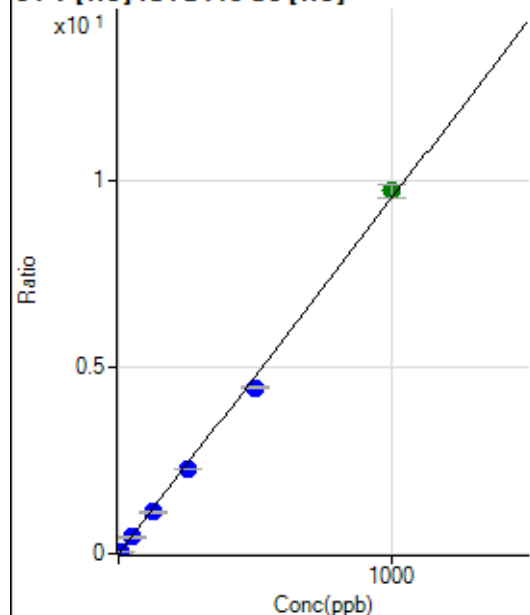
$$DL = 0.07795$$

$$BEC = 0.1395$$

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	38.89	0.0002	P	27.6
2	☐	5.000	4.917	9268.64	0.0471	P	2.4
3	☐	50.000	46.119	86468.09	0.4404	P	1.6
4	☐	125.000	116.354	217440.32	1.1109	P	1.3
5	☐	250.000	237.362	434026.51	2.2660	P	0.3
6	☐	500.000	466.589	869640.83	4.4541	P	0.8
7	☐	1000.000	1021.140	1902644.95	9.7477	A	3.5
8	☐			1065.61	0.0055	P	27.8

$$y = 0.0095 * x + 1.9477\text{E-}004$$

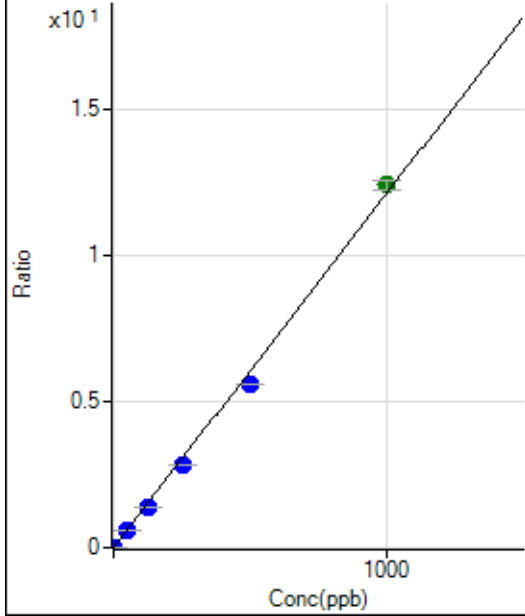
$$R = 0.9991$$

$$DL = 0.01688$$

$$BEC = 0.0204$$

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	861.15	0.0043	P	6.1
2	☐	2.000	1.864	5274.36	0.0268	P	1.7
3	☐	50.000	46.185	110350.78	0.5621	P	0.2
4	☐	125.000	114.896	272436.62	1.3919	P	1.2
5	☐	250.000	232.844	539375.51	2.8163	P	1.2
6	☐	500.000	461.026	1087920.41	5.5720	P	0.5
7	☐	1000.000	1025.230	2417160.07	12.3857	A	2.6
8	☐			19482.24	0.1000	P	2.9

$$y = 0.0121 * x + 0.0043$$

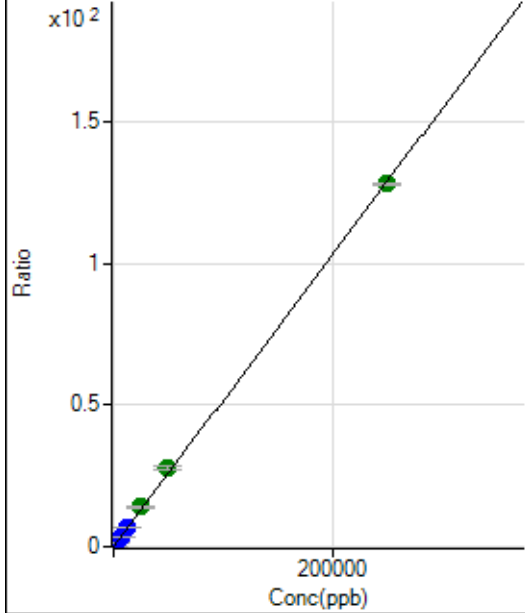
$$R = 0.9987$$

$$DL = 0.06555$$

$$BEC = 0.357$$

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	475.59	0.0024	P	37.5
2	☐	50.000	51.580	5682.30	0.0289	P	2.2
3	☐	2500.000	2537.300	256501.96	1.3064	P	1.2
4	☐	6250.000	6310.057	635232.30	3.2454	P	1.4
5	☐	12500.000	12778.131	1258371.19	6.5697	P	0.1
6	☐	25000.000	27107.389	2720357.18	13.9342	A	1.8
7	☐	50000.000	53921.545	5409764.02	27.7153	A	3.2
8	☐	250000.00	248989.17	24924542.13	127.9703	A	0.8

$$y = 5.1395E-004 * x + 0.0024$$

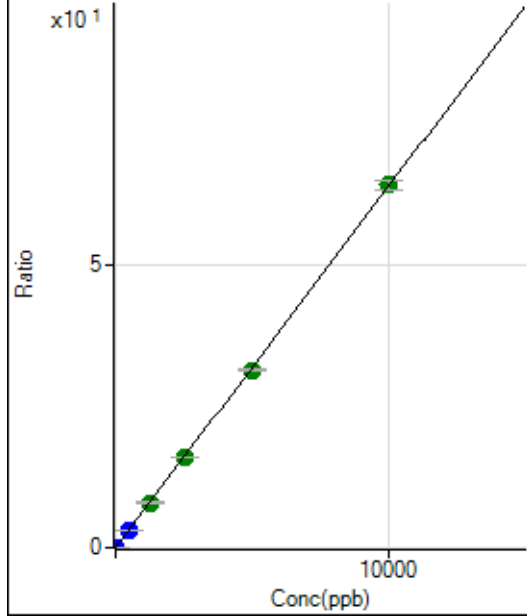
$$R = 0.9998$$

$$DL = 5.227$$

$$BEC = 4.644$$

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	107.78	0.0005	P	25.9
2	☐	1.000	0.963	1314.52	0.0067	P	8.3
3	☐	500.000	461.022	578062.39	2.9441	P	1.5
4	☐	1250.000	1238.457	1547481.73	7.9079	A	2.7
5	☐	2500.000	2503.707	3061862.66	15.9863	A	0.7
6	☐	5000.000	4917.815	6130845.40	31.4000	A	0.4
7	☐	10000.000	10043.558	12515571.62	64.1270	A	2.8
8	☐			8806.32	0.0452	P	23.5

$$y = 0.0064 * x + 5.3987E-004$$

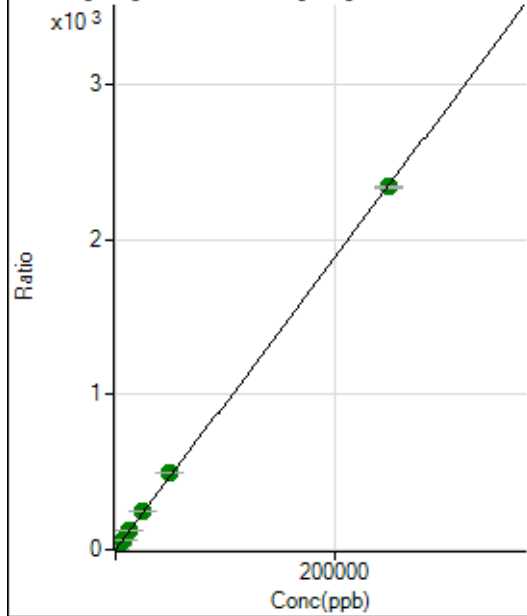
$$R = 0.9999$$

$$DL = 0.06564$$

$$BEC = 0.08456$$

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	5130.08	0.0257	P	17.9
2	☐	50.000	50.117	97703.11	0.4967	P	0.7
3	☐	2500.000	2607.769	4817115.80	24.5308	A	1.8
4	☐	6250.000	6531.801	12017544.82	61.4049	A	3.2
5	☐	12500.000	13297.144	23933309.36	124.9786	A	2.3
6	☐	25000.000	26201.124	48079919.28	246.2370	A	1.2
7	☐	50000.000	53175.149	97525934.10	499.7113	A	0.8
8	☐	250000.00	249196.87	456093037.6	2.341722	A	0.6

$$y = 0.0094 * x + 0.0257$$

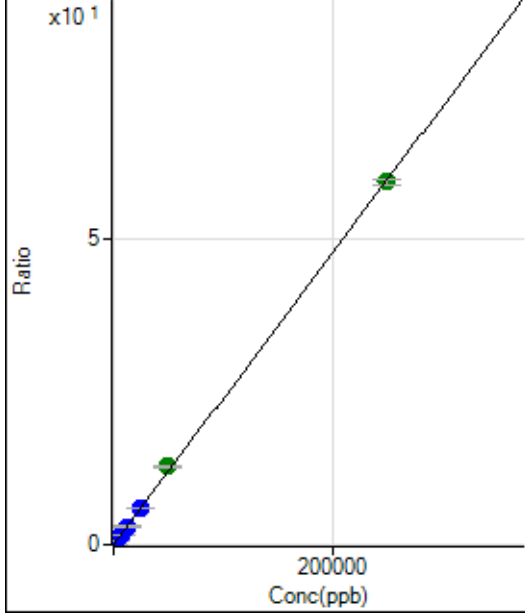
$$R = 0.9999$$

$$DL = 1.472$$

$$BEC = 2.736$$

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	303.34	0.0015	P	6.4
2	☐	50.000	51.698	2713.63	0.0138	P	3.7
3	☐	2500.000	2461.297	114991.44	0.5857	P	0.9
4	☐	6250.000	6148.819	285961.97	1.4608	P	1.0
5	☐	12500.000	12518.284	569311.47	2.9725	P	1.2
6	☐	25000.000	24697.149	1144743.52	5.8629	P	0.6
7	☐	50000.000	53989.739	2501036.19	12.8149	A	2.0
8	☐	250000.00	249234.33	11521591.50	59.1523	A	1.6

$$y = 2.3733\text{E-}004 * x + 0.0015$$

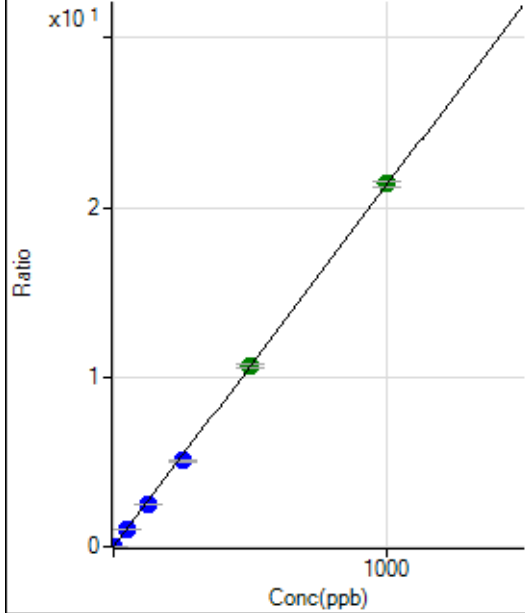
$$R = 0.9998$$

$$DL = 1.235$$

$$BEC = 6.401$$

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	92.22	0.0005	P	11.2
2	☐	1.000	1.042	4455.19	0.0226	P	4.3
3	☐	50.000	46.890	196191.80	0.9993	P	0.6
4	☐	125.000	116.454	485630.07	2.4811	P	1.3
5	☐	250.000	237.044	967208.62	5.0498	P	0.6
6	☐	500.000	500.669	2082223.01	10.6654	A	1.4
7	☐	1000.000	1004.128	4174190.49	21.3898	A	1.7
8	☐			10170.40	0.0522	P	5.8

$$y = 0.0213 * x + 4.6216\text{E-}004$$

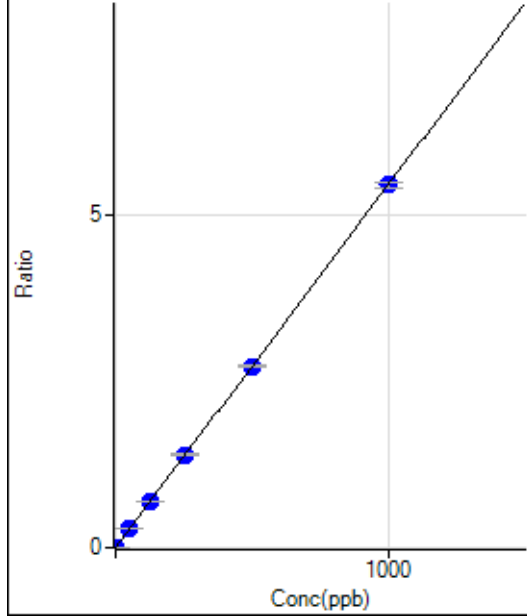
$$R = 0.9999$$

$$DL = 0.007277$$

$$BEC = 0.0217$$

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	232.23	0.0012	P	18.8
2	☐	1.000	1.103	1411.20	0.0072	P	8.4
3	☐	50.000	50.908	54780.49	0.2790	P	0.9
4	☐	125.000	126.452	135308.75	0.6913	P	1.4
5	☐	250.000	256.242	268088.11	1.3997	P	0.4
6	☐	500.000	498.603	531551.79	2.7224	P	0.7
7	☐	1000.000	998.911	1064170.84	5.4530	P	1.3
8	☐			8179.09	0.0420	P	1.4

$$y = 0.0055 * x + 0.0012$$

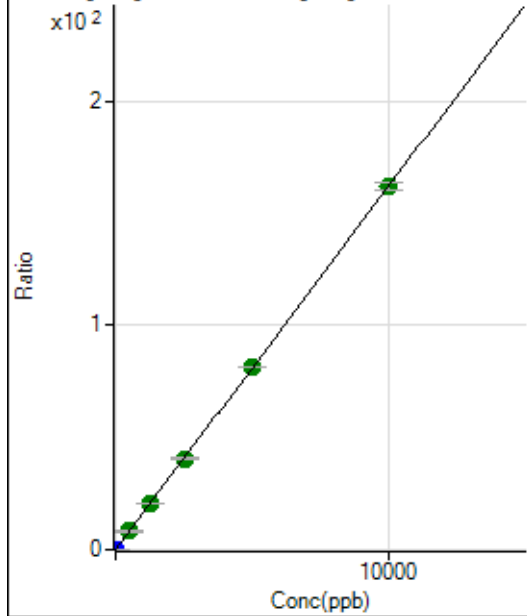
$$R = 1.0000$$

$$DL = 0.12$$

$$BEC = 0.213$$

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	2422.46	0.0121	P	4.2
2	☐	2.000	1.990	8724.99	0.0444	P	2.4
3	☐	500.000	503.864	1604368.48	8.1715	A	2.6
4	☐	1250.000	1251.886	3970613.52	20.2847	A	0.9
5	☐	2500.000	2496.765	7745543.36	40.4439	A	1.6
6	☐	5000.000	5029.816	15905858.93	81.4632	A	0.9
7	☐	10000.000	9985.472	31560385.92	161.7134	A	2.0
8	☐			12779.18	0.0655	P	38.3

$$y = 0.0162 * x + 0.0121$$

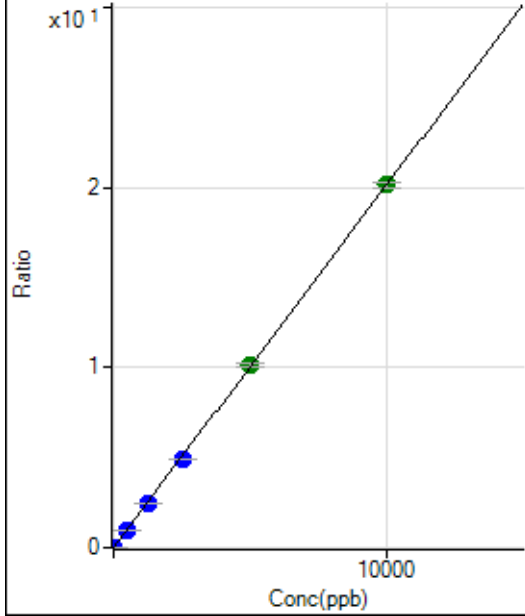
$$R = 1.0000$$

$$DL = 0.09518$$

$$BEC = 0.7491$$

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	311.12	0.0016	P	22.7
2	☐	2.000	4.678	2159.08	0.0110	P	4.9
3	☐	500.000	479.383	189945.83	0.9675	P	0.9
4	☐	1250.000	1200.235	473707.60	2.4200	P	1.0
5	☐	2500.000	2422.342	935198.36	4.8825	P	0.2
6	☐	5000.000	5038.973	1982699.31	10.1549	A	1.3
7	☐	10000.000	10007.179	3935621.89	20.1656	A	1.3
8	☐			2009.07	0.0103	P	27.0

$$y = 0.0020 * x + 0.0016$$

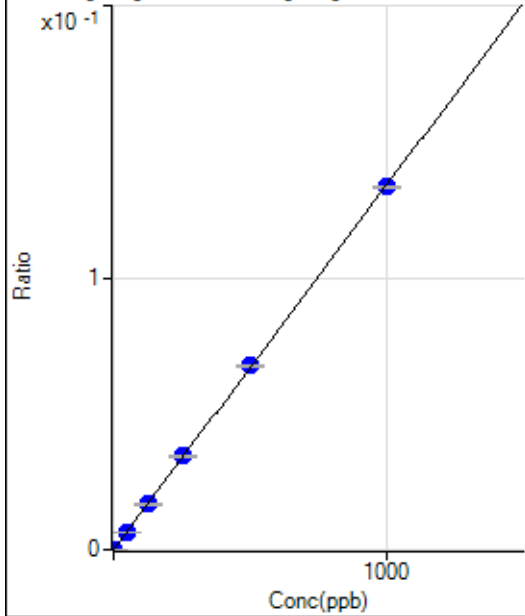
$$R = 0.9999$$

$$DL = 0.525$$

$$BEC = 0.7723$$

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	91.1
2	☐	1.000	0.984	216.67	0.0001	P	6.5
3	☐	50.000	49.796	10602.97	0.0067	P	1.2
4	☐	125.000	124.737	26311.34	0.0167	P	1.4
5	☐	250.000	256.372	52870.91	0.0344	P	1.5
6	☐	500.000	505.621	106477.43	0.0678	P	1.0
7	☐	1000.000	995.640	216287.95	0.1335	P	0.7
8	☐			186.67	0.0001	P	29.2

$$y = 1.3409E-004 * x + 3.4427E-006$$

$$R = 1.0000$$

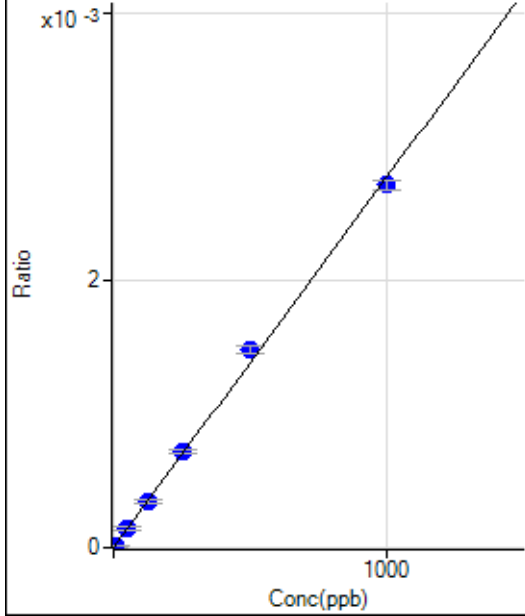
$$DL = 0.07016$$

$$BEC = 0.02567$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	4.996	23.33	0.0000	P	41.6
3	☐	50.000	50.677	224.45	0.0001	P	20.4
4	☐	125.000	123.721	540.02	0.0003	P	7.6
5	☐	250.000	260.770	1111.16	0.0007	P	4.7
6	☐	500.000	534.743	2325.77	0.0015	P	3.3
7	☐	1000.000	980.062	4396.29	0.0027	P	2.8
8	☐			1.11	0.0000	P	173.2

$$y = 2.7686\text{E-}006 * x + 6.9765\text{E-}007$$

$$R = 0.9990$$

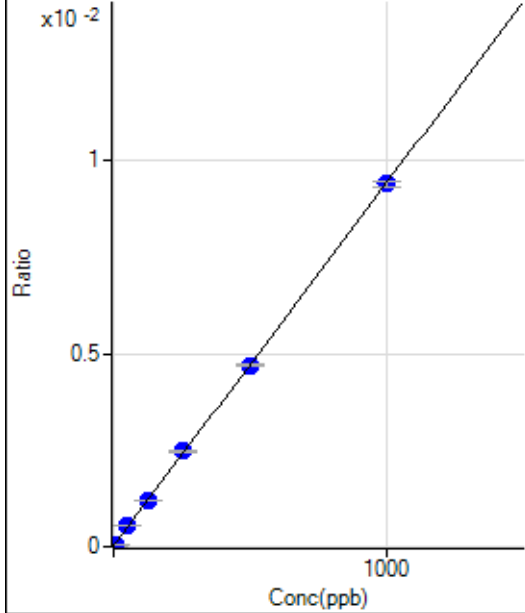
$$DL = 1.309$$

$$BEC = 0.252$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	33.33	0.0000	P	54.3
2	☐	5.000	4.433	100.00	0.0001	P	18.5
3	☐	50.000	55.764	864.48	0.0005	P	6.5
4	☐	125.000	126.670	1902.37	0.0012	P	1.4
5	☐	250.000	260.396	3790.55	0.0025	P	2.6
6	☐	500.000	498.379	7379.79	0.0047	P	1.0
7	☐	1000.000	997.717	15206.10	0.0094	P	1.4
8	☐			27.78	0.0000	P	30.6

$$y = 9.3872\text{E-}006 * x + 2.0740\text{E-}005$$

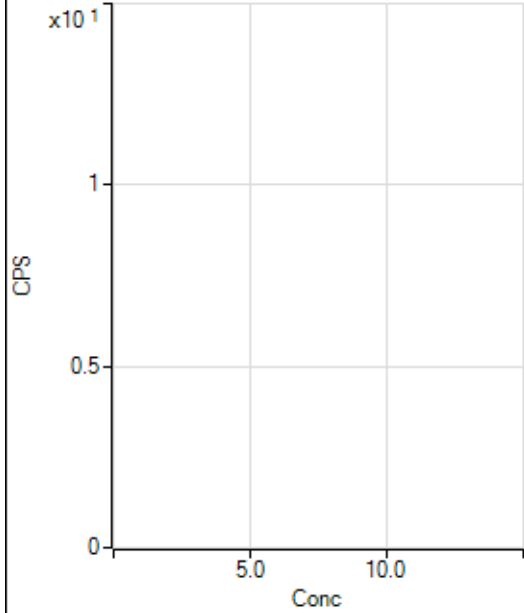
$$R = 0.9999$$

$$DL = 3.602$$

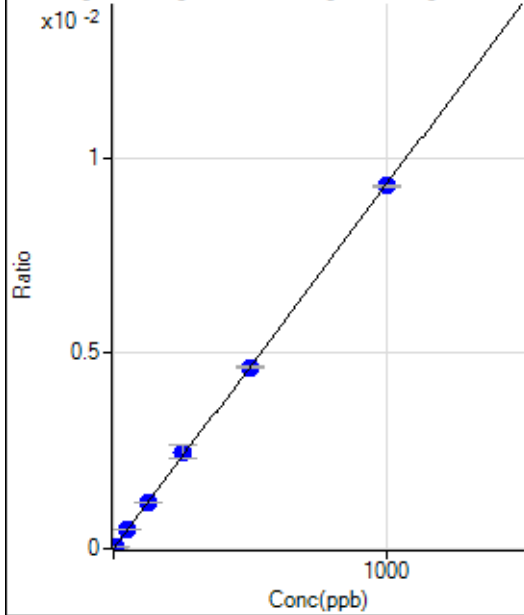
$$BEC = 2.209$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4697.51		P	1.2
2	☐			4804.21		P	2.8
3	☐			4424.08		P	3.0
4	☐			4277.36		P	3.3
5	☐			4314.04		P	3.1
6	☐			4370.73		P	4.3
7	☐			4446.31		P	3.7
8	☐			4450.76		P	4.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-58.89	0.0000	P	-129.
2	☐	5.000	6.083	672.26	0.0001	P	3.0
3	☐	50.000	50.828	5999.26	0.0005	P	1.7
4	☐	125.000	128.409	15353.31	0.0012	P	0.8
5	☐	250.000	265.909	30291.22	0.0025	P	13.1
6	☐	500.000	498.619	60446.29	0.0047	P	1.0
7	☐	1000.000	996.241	120663.43	0.0093	P	0.7
8	☐			32.23	0.0000	P	220.4

$$y = 9.3350E-006 * x - 4.5541E-006$$

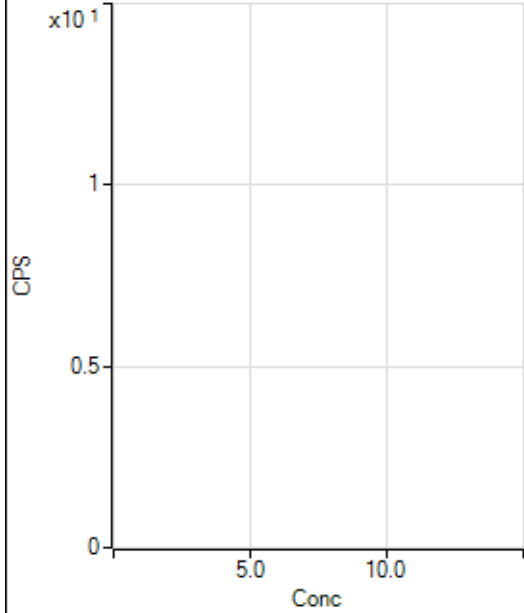
$$R = 0.9999$$

$$DL = 1.901$$

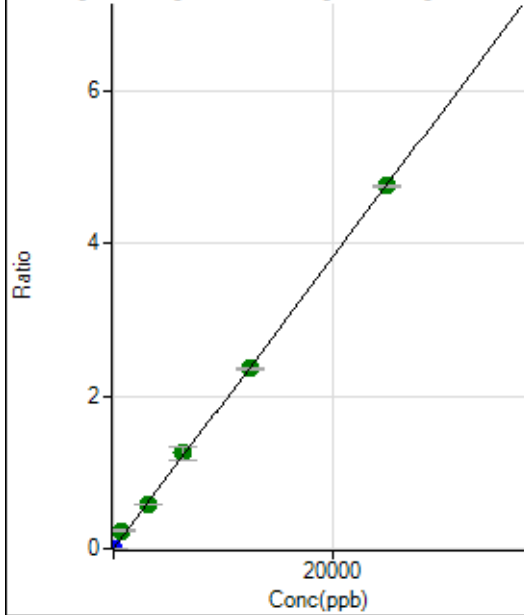
$$BEC = -0.4878$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			325.56		P	15.9
2	☐			280.01		P	19.2
3	☐			335.56		P	4.1
4	☐			306.67		P	4.3
5	☐			300.01		P	11.8
6	☐			280.01		P	9.4
7	☐			321.12		P	13.1
8	☐			285.56		P	12.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	621.13	0.0000	P	6.2
2	☐	1.000	0.881	2788.09	0.0002	P	5.2
3	☐	625.000	1252.134	3049302.56	0.2388	A	1.2
4	☐	3125.000	3068.605	7523358.29	0.5851	A	0.4
5	☐	6250.000	6592.494	15357225.47	1.2570	A	14.1
6	☐	12500.000	12377.710	30681058.71	2.3600	A	0.3
7	☐	25000.000	24966.892	61787013.52	4.7603	A	0.4
8	☐			19536.50	0.0015	P	50.3

$$y = 1.9066E-004 * x + 4.8548E-005$$

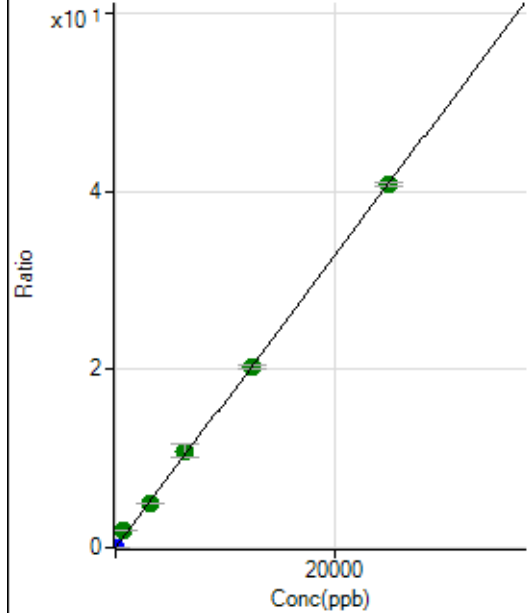
$$R = 0.9996$$

$$DL = 0.04742$$

$$BEC = 0.2546$$

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	1228.96	0.0001	P	8.8
2	☐	1.000	0.964	21510.02	0.0017	P	1.0
3	☐	625.000	1236.201	25783612.39	2.0195	A	0.9
4	☐	3125.000	3070.799	64483356.26	5.0165	A	1.8
5	☐	6250.000	6657.863	132907555.8	10.8762	A	13.7
6	☐	12500.000	12427.206	263925991.6	20.3009	A	1.7
7	☐	25000.000	24925.926	528485147.6	40.7185	A	0.9
8	☐			168165.20	0.0132	P	49.9

$$y = 0.0016 * x + 9.6147E-005$$

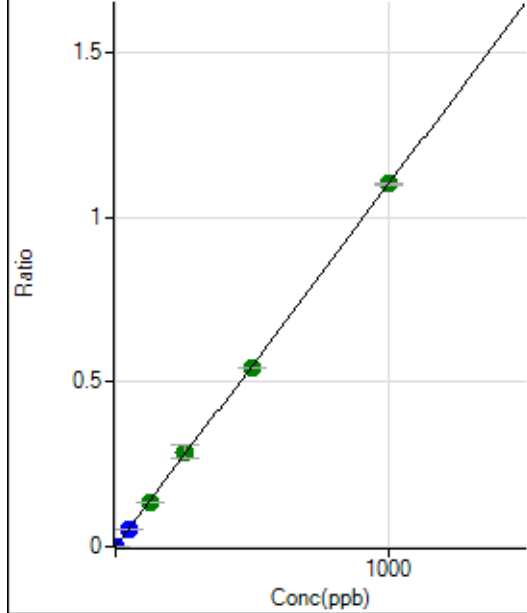
$$R = 0.9996$$

$$DL = 0.01561$$

$$BEC = 0.05886$$

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	671.14	0.0001	P	4.2
2	☐	1.000	0.871	12999.50	0.0010	P	0.2
3	☐	50.000	46.927	659065.33	0.0516	P	1.6
4	☐	125.000	123.422	1744542.72	0.1357	A	1.8
5	☐	250.000	260.799	3499937.59	0.2867	A	14.6
6	☐	500.000	493.237	7047196.56	0.5421	A	0.9
7	☐	1000.000	1001.033	14280302.01	1.1001	A	0.5
8	☐			9421.25	0.0007	P	23.8

$$y = 0.0011 * x + 5.2463E-005$$

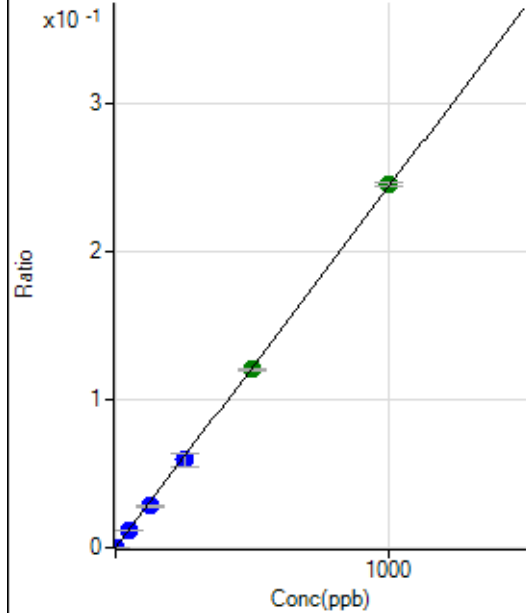
$$R = 0.9999$$

$$DL = 0.005975$$

$$BEC = 0.04774$$

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	110.00	0.0000	P	4.3
2	☐	1.000	0.842	2751.41	0.0002	P	0.6
3	☐	50.000	46.488	144744.02	0.0113	P	2.6
4	☐	125.000	114.678	359390.91	0.0280	P	1.8
5	☐	250.000	243.237	723486.59	0.0593	P	15.2
6	☐	500.000	493.509	1563887.62	0.1203	A	1.6
7	☐	1000.000	1006.402	3183263.15	0.2453	A	1.1
8	☐			2060.19	0.0002	P	27.5

$$y = 2.4371\text{E-}004 * x + 8.6050\text{E-}006$$

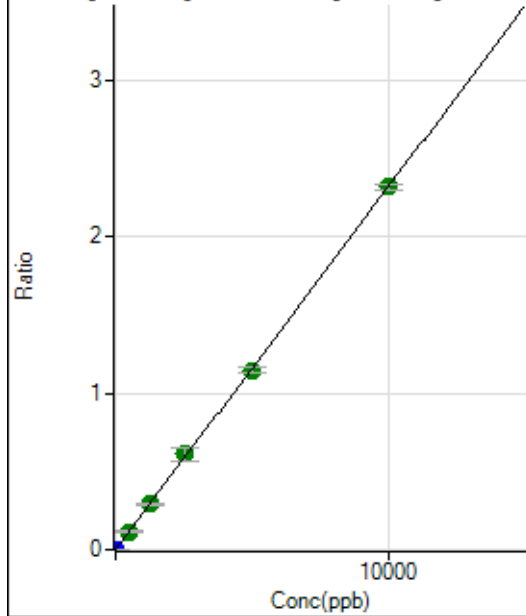
$$R = 0.9999$$

$$DL = 0.004522$$

$$BEC = 0.03531$$

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	180.00	0.0000	P	5.6
2	☐	5.000	4.903	14841.35	0.0012	P	0.8
3	☐	500.000	503.000	1491800.32	0.1169	A	3.6
4	☐	1250.000	1255.881	3749695.43	0.2918	A	2.5
5	☐	2500.000	2630.460	7460009.12	0.6111	A	14.7
6	☐	5000.000	4947.827	14941714.78	1.1494	A	2.6
7	☐	10000.000	9992.586	30134747.05	2.3213	A	1.5
8	☐			13696.69	0.0011	P	35.2

$$y = 2.3230\text{E-}004 * x + 1.4072\text{E-}005$$

$$R = 0.9999$$

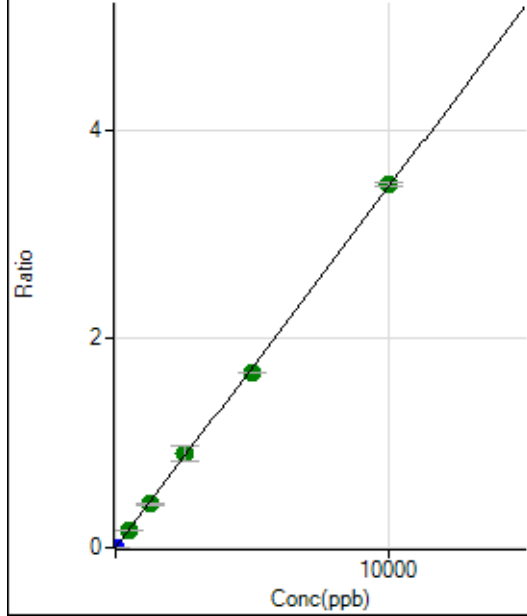
$$DL = 0.01026$$

$$BEC = 0.06058$$

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	67.78	0.0000	P	6.9
2	☐	5.000	4.140	18492.38	0.0014	P	1.3
3	☐	500.000	497.672	2196379.43	0.1721	A	2.2
4	☐	1250.000	1219.460	5417359.99	0.4216	A	3.4
5	☐	2500.000	2604.566	10991701.22	0.9004	A	14.9
6	☐	5000.000	4850.964	21802532.18	1.6770	A	0.7
7	☐	10000.000	10052.311	45105890.44	3.4752	A	1.1
8	☐			18058.07	0.0014	P	37.7

$$y = 3.4571\text{E-}004 * x + 5.3030\text{E-}006$$

$$R = 0.9998$$

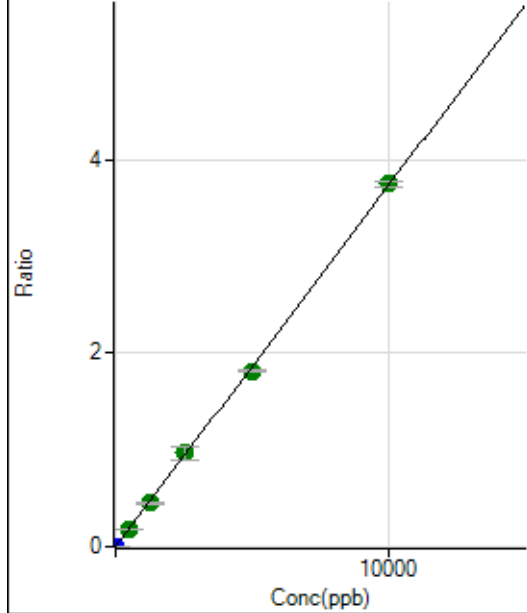
$$DL = 0.003171$$

$$BEC = 0.01534$$

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	118.89	0.0000	P	23.7
2	☐	5.000	4.229	20448.52	0.0016	P	1.1
3	☐	500.000	495.180	2361389.06	0.1849	A	0.8
4	☐	1250.000	1215.944	5835755.61	0.4541	A	3.0
5	☐	2500.000	2586.006	11800996.08	0.9658	A	13.7
6	☐	5000.000	4866.249	23624226.32	1.8173	A	1.3
7	☐	10000.000	10049.872	48708887.05	3.7532	A	1.3
8	☐			20718.90	0.0016	P	35.5

$$y = 3.7345\text{E-}004 * x + 9.2927\text{E-}006$$

$$R = 0.9998$$

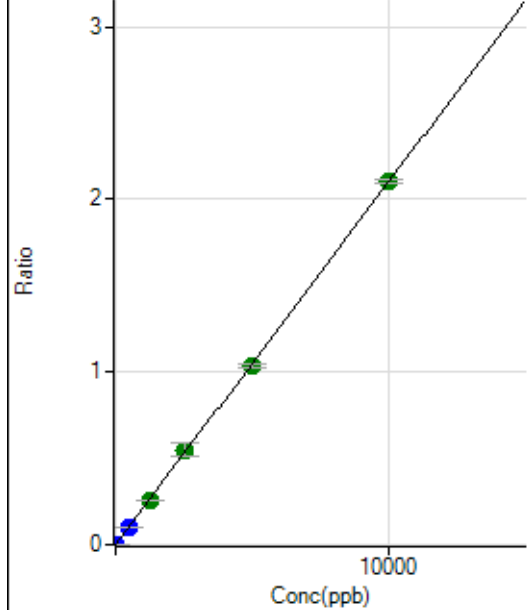
$$DL = 0.0177$$

$$BEC = 0.02488$$

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	42.22	0.0000	P	32.2
2	☐	5.000	4.180	11346.95	0.0009	P	1.9
3	☐	500.000	469.705	1259853.32	0.0987	P	1.9
4	☐	1250.000	1229.830	3321380.72	0.2584	A	1.7
5	☐	2500.000	2610.676	6704616.43	0.5485	A	13.3
6	☐	5000.000	4941.604	13494257.85	1.0382	A	2.2
7	☐	10000.000	10005.566	27284487.10	2.1021	A	0.9
8	☐			11275.39	0.0009	P	36.3

$$y = 2.1009\text{E-}004 * x + 3.2975\text{E-}006$$

$$R = 0.9999$$

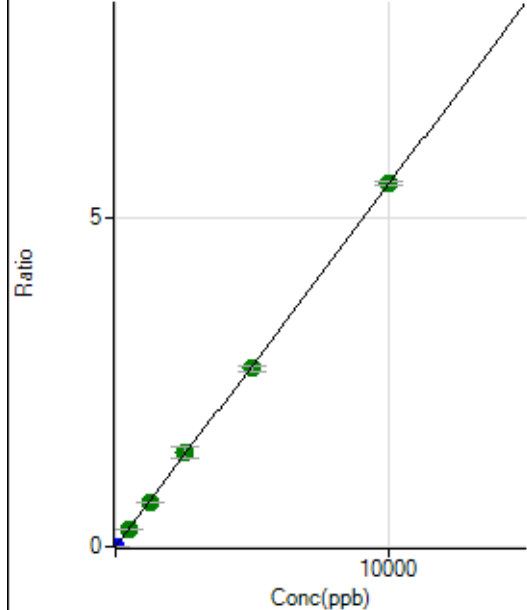
$$DL = 0.01518$$

$$BEC = 0.0157$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	84.44	0.0000	P	28.7
2	☐	5.000	4.106	29229.73	0.0023	P	0.9
3	☐	500.000	497.794	3504317.03	0.2745	A	1.9
4	☐	1250.000	1223.848	8673803.27	0.6749	A	3.1
5	☐	2500.000	2608.464	17586896.41	1.4384	A	13.2
6	☐	5000.000	4921.175	35272695.31	2.7137	A	2.9
7	☐	10000.000	10015.676	71681685.60	5.5230	A	1.0
8	☐			29093.41	0.0023	P	39.0

$$y = 5.5143\text{E-}004 * x + 6.6134\text{E-}006$$

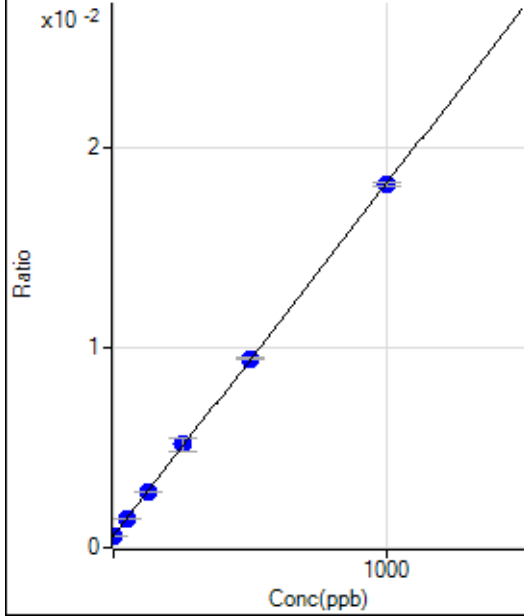
$$R = 0.9999$$

$$DL = 0.01031$$

$$BEC = 0.01199$$

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	6587.19	0.0006	P	1.6
2	☐	1.000	-0.432	6431.57	0.0006	P	2.7
3	☐	50.000	49.597	16190.73	0.0015	P	1.5
4	☐	125.000	123.217	31208.73	0.0028	P	0.1
5	☐	250.000	258.855	55281.34	0.0051	P	12.5
6	☐	500.000	503.411	105552.03	0.0094	P	0.9
7	☐	1000.000	996.325	204854.56	0.0181	P	1.1
8	☐			5641.21	0.0005	P	1.1

$$y = 1.7575\text{E-}005 * x + 5.9798\text{E-}004$$

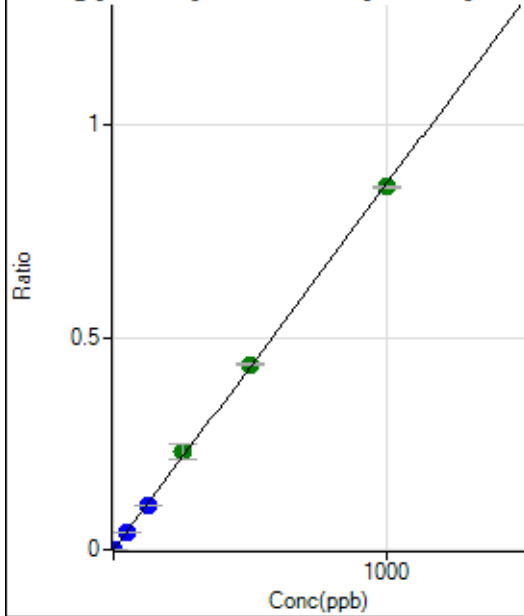
$$R = 0.9999$$

$$DL = 1.638$$

$$BEC = 34.02$$

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	105.56	0.0000	P	29.0
2	☐	1.000	0.982	9326.56	0.0009	P	1.7
3	☐	50.000	49.259	467715.25	0.0425	P	1.0
4	☐	125.000	119.898	1166836.95	0.1033	P	0.7
5	☐	250.000	268.981	2484416.27	0.2318	A	14.8
6	☐	500.000	507.117	4884041.66	0.4370	A	0.7
7	☐	1000.000	992.371	9673434.09	0.8551	A	0.5
8	☐			5665.07	0.0005	P	74.3

$$y = 8.6168\text{E-}004 * x + 9.6007\text{E-}006$$

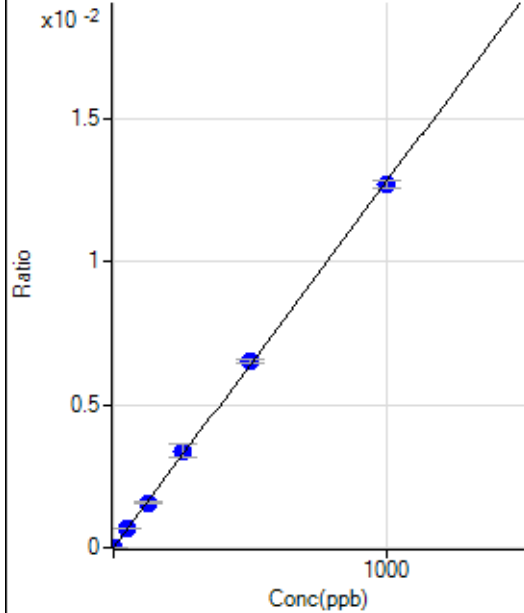
$$R = 0.9997$$

$$DL = 0.009688$$

$$BEC = 0.01114$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	14.45	0.0000	P	47.3
2	☐	1.000	1.069	163.34	0.0000	P	14.3
3	☐	50.000	52.156	7375.37	0.0007	P	0.3
4	☐	125.000	123.337	17856.11	0.0016	P	1.0
5	☐	250.000	265.224	36422.52	0.0034	P	15.1
6	☐	500.000	510.208	73044.51	0.0065	P	1.5
7	☐	1000.000	991.190	143647.90	0.0127	P	2.1
8	☐			164.45	0.0000	P	17.5

$$y = 1.2809\text{E-}005 * x + 1.3039\text{E-}006$$

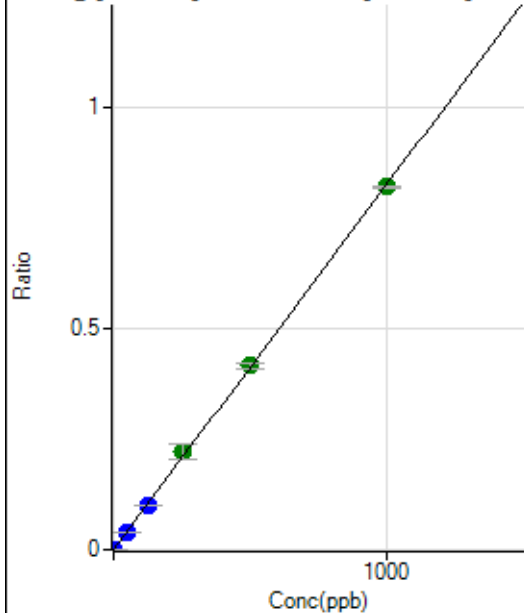
$$R = 0.9998$$

$$DL = 0.1443$$

$$BEC = 0.1018$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	54.44	0.0000	P	30.6
2	☐	1.000	0.975	8832.91	0.0008	P	3.5
3	☐	50.000	49.536	450931.32	0.0409	P	1.3
4	☐	125.000	119.857	1118385.77	0.0990	P	0.7
5	☐	250.000	268.345	2377613.14	0.2217	A	14.4
6	☐	500.000	504.007	4652991.88	0.4164	A	3.7
7	☐	1000.000	994.077	9291101.11	0.8214	A	0.6
8	☐			3221.19	0.0003	P	69.9

$$y = 8.2625\text{E-}004 * x + 4.9103\text{E-}006$$

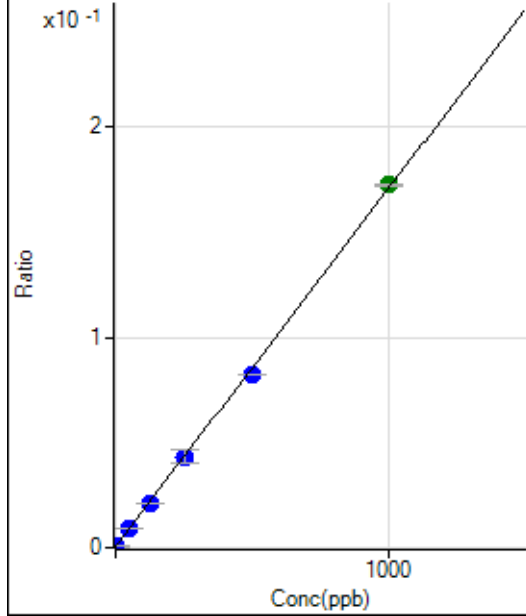
$$R = 0.9998$$

$$DL = 0.00545$$

$$BEC = 0.005943$$

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	4624.25	0.0004	P	1.9
2	☐	1.000	0.874	6194.57	0.0006	P	1.0
3	☐	50.000	49.098	96706.24	0.0088	P	0.5
4	☐	125.000	119.072	233630.31	0.0207	P	0.6
5	☐	250.000	251.359	463323.71	0.0432	P	14.3
6	☐	500.000	480.401	918578.32	0.0822	P	0.4
7	☐	1000.000	1010.246	1950179.98	0.1724	A	0.8
8	☐			4405.97	0.0004	P	5.1

$$y = 1.7022\text{E-}004 * x + 4.1979\text{E-}004$$

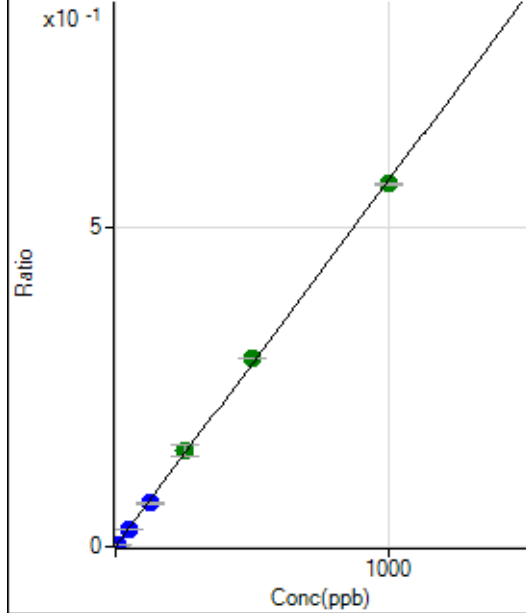
$$R = 0.9997$$

$$DL = 0.1409$$

$$BEC = 2.466$$

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	1306.74	0.0001	P	10.4
2	☐	5.000	4.867	31657.74	0.0029	P	1.6
3	☐	50.000	48.779	309079.85	0.0281	P	0.5
4	☐	125.000	118.060	764861.56	0.0677	P	1.0
5	☐	250.000	263.562	1622138.95	0.1511	A	12.6
6	☐	500.000	513.162	3285837.83	0.2940	A	0.4
7	☐	1000.000	990.958	6421328.10	0.5676	A	0.6
8	☐			5205.54	0.0005	P	24.0

$$y = 5.7268\text{E-}004 * x + 1.1867\text{E-}004$$

$$R = 0.9997$$

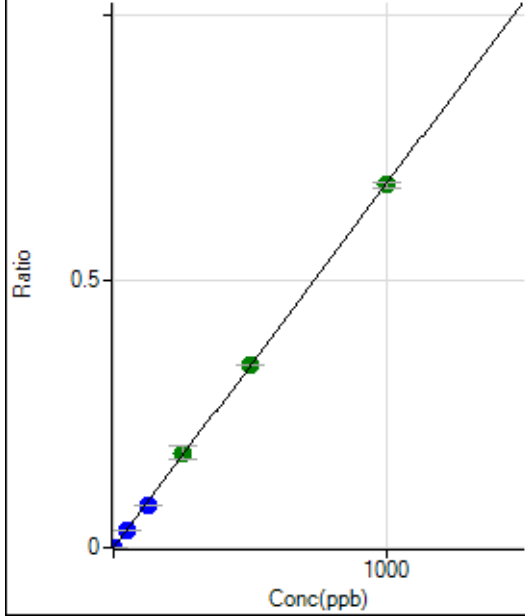
$$DL = 0.06487$$

$$BEC = 0.2072$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	36.67	0.0000	P	28.2
2	☐	2.000	1.968	14666.86	0.0013	P	0.6
3	☐	50.000	48.152	362106.00	0.0329	P	0.9
4	☐	125.000	116.695	899517.30	0.0796	P	0.2
5	☐	250.000	260.671	1908620.08	0.1779	A	13.8
6	☐	500.000	502.880	3835845.84	0.3432	A	0.3
7	☐	1000.000	997.023	7698418.08	0.6805	A	1.8
8	☐			5086.62	0.0005	P	26.2

$$y = 6.8252E-004 * x + 3.3103E-006$$

$$R = 0.9999$$

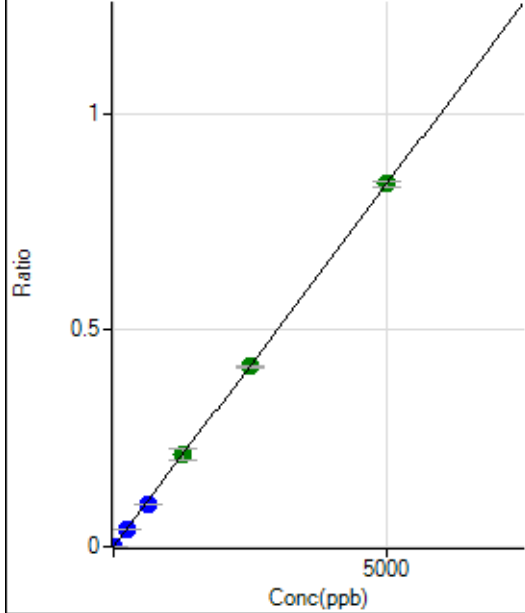
$$DL = 0.004096$$

$$BEC = 0.00485$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	93.33	0.0000	P	12.0
2	☐	10.000	9.637	17647.19	0.0016	P	3.0
3	☐	250.000	238.678	439740.99	0.0399	P	0.7
4	☐	625.000	579.953	1095065.09	0.0970	P	0.8
5	☐	1250.000	1282.212	2301902.19	0.2144	A	12.9
6	☐	2500.000	2481.997	4637135.42	0.4150	A	1.6
7	☐	5000.000	5007.146	9470815.13	0.8372	A	1.5
8	☐			5055.53	0.0005	P	30.7

$$y = 1.6720E-004 * x + 8.4912E-006$$

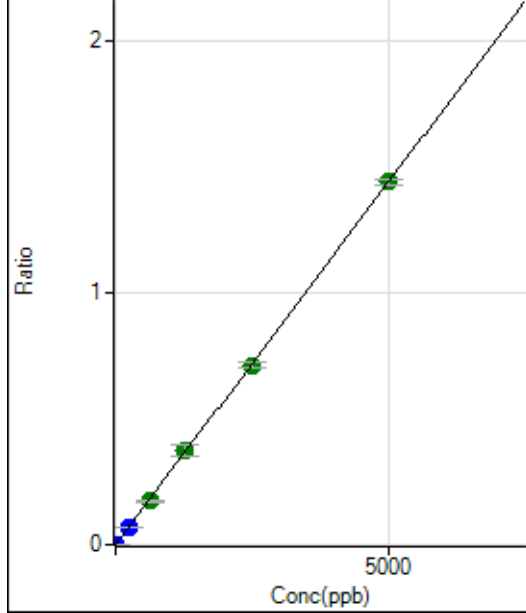
$$R = 0.9999$$

$$DL = 0.01829$$

$$BEC = 0.05079$$

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	108.89	0.0000	P	8.0
2	☐	10.000	9.687	30498.89	0.0028	P	1.1
3	☐	250.000	241.482	766198.83	0.0696	P	1.1
4	☐	625.000	599.542	1950001.05	0.1727	A	1.6
5	☐	1250.000	1297.848	4013526.85	0.3738	A	12.6
6	☐	2500.000	2478.054	7973848.56	0.7136	A	3.0
7	☐	5000.000	5002.620	16297793.37	1.4406	A	1.2
8	☐			8610.86	0.0008	P	30.7

$$y = 2.8797E-004 * x + 9.8979E-006$$

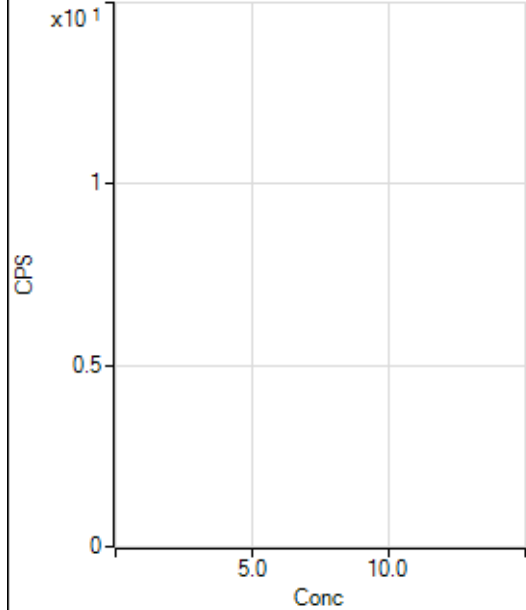
$$R = 0.9999$$

$$DL = 0.008295$$

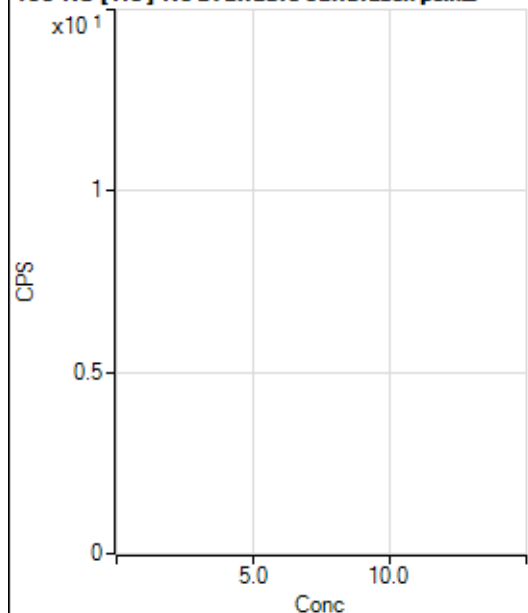
$$BEC = 0.03437$$

Weight: <None>

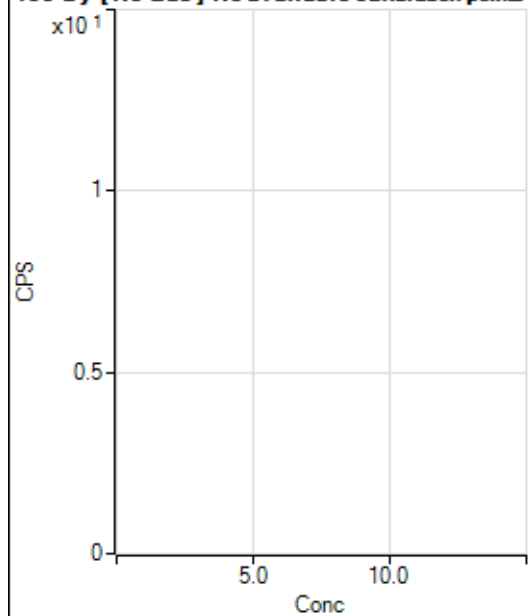
Min Conc: 0

150 Nd [No Gas] No available calibration points

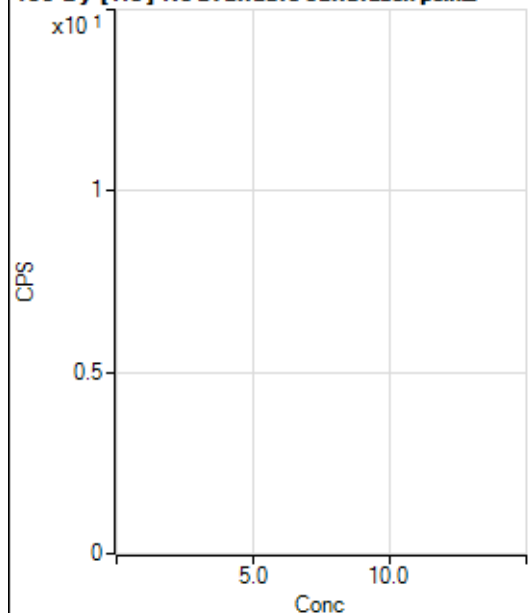
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	65.8
2	☐			14.45		P	48.0
3	☐			66.67		P	5.0
4	☐			137.78		P	9.8
5	☐			248.90		P	9.5
6	☐			552.24		P	3.1
7	☐			1222.29		P	4.4
8	☐			173.34		P	13.3

150 Nd [He] No available calibration points

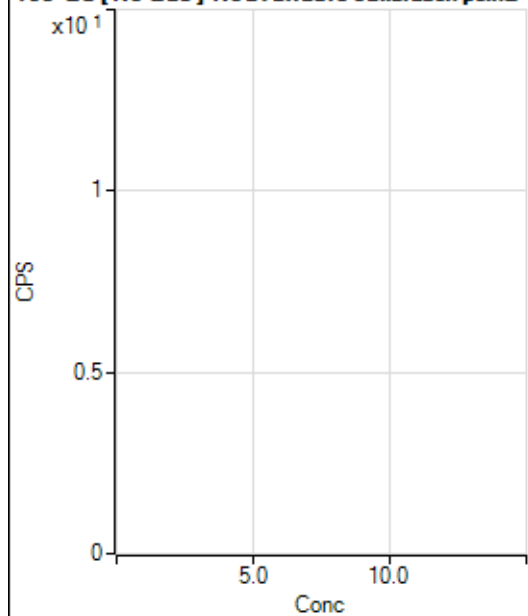
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.1
2	☐			6.67		P	50.0
3	☐			15.55		P	44.6
4	☐			25.56		P	19.9
5	☐			50.00		P	13.3
6	☐			100.00		P	31.8
7	☐			255.56		P	6.2
8	☐			61.11		P	19.2

156 Dy [No Gas] No available calibration points

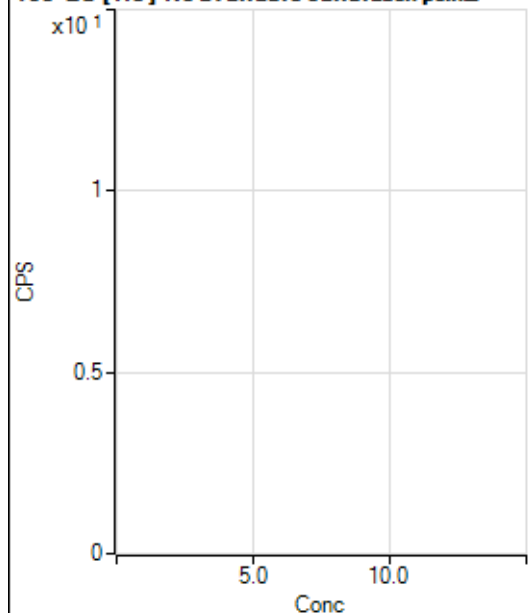
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	45.8
2	☐			22.22		P	45.8
3	☐			40.00		P	22.0
4	☐			83.33		P	20.8
5	☐			112.22		P	14.9
6	☐			243.34		P	17.2
7	☐			598.91		P	6.1
8	☐			312.23		P	6.9

156 Dy [He] No available calibration points

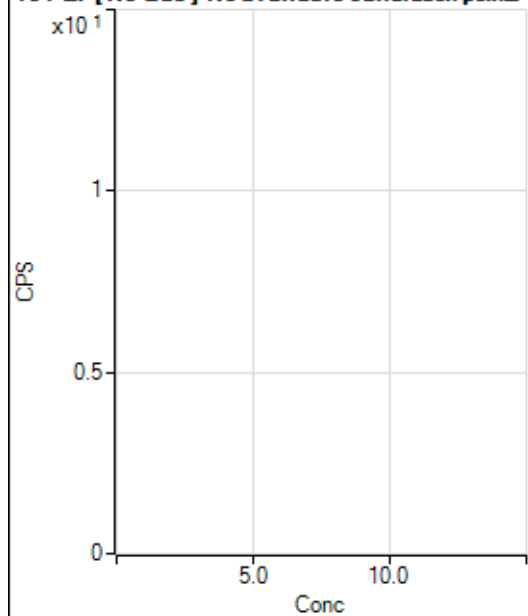
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			4.44		P	43.4
3	☐			8.89		P	57.3
4	☐			37.78		P	5.1
5	☐			76.67		P	11.5
6	☐			160.01		P	19.1
7	☐			394.45		P	4.8
8	☐			135.56		P	3.8

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

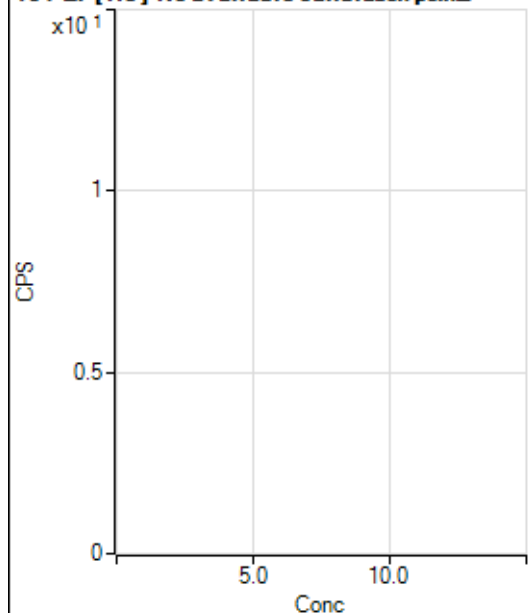
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			217.78		P	11.5
2	☐			218.89		P	9.9
3	☐			230.01		P	19.2
4	☐			236.67		P	1.4
5	☐			282.23		P	10.3
6	☐			342.23		P	4.4
7	☐			603.35		P	12.7
8	☐			424.46		P	14.0

160 Gd [He] No available calibration points

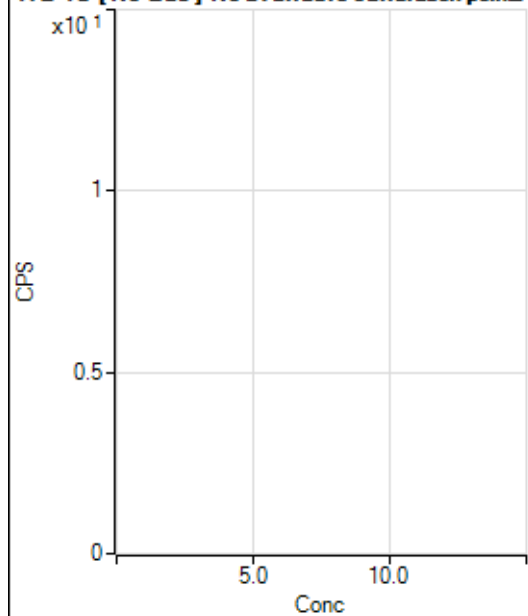
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			244.45		P	1.6
2	☐			272.23		P	14.5
3	☐			292.23		P	10.2
4	☐			272.23		P	7.8
5	☐			303.34		P	2.9
6	☐			321.12		P	3.3
7	☐			516.68		P	4.7
8	☐			406.68		P	1.6

164 Er [No Gas] No available calibration points

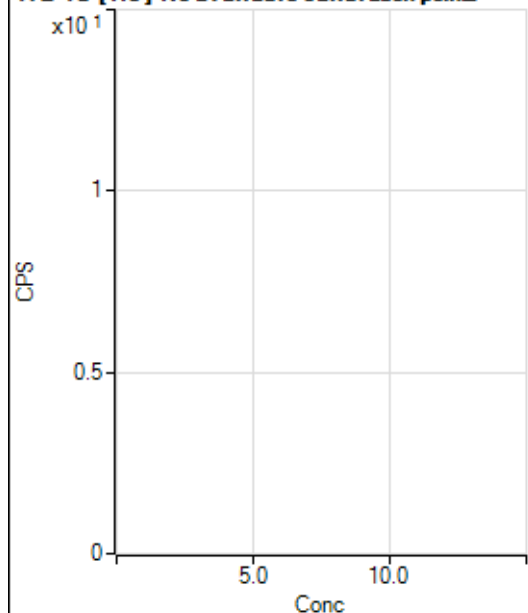
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			87.78		P	13.3
2	☐			94.44		P	23.0
3	☐			84.45		P	19.9
4	☐			116.67		P	10.3
5	☐			153.34		P	2.2
6	☐			234.45		P	22.8
7	☐			511.13		P	2.9
8	☐			344.45		P	22.4

164 Er [He] No available calibration points

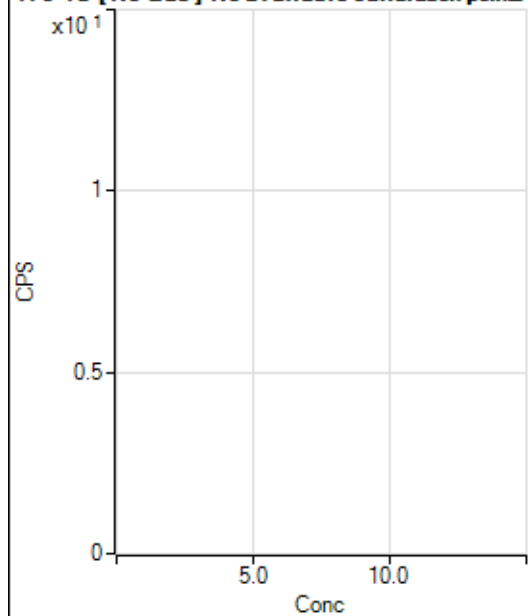
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			32.22		P	46.6
2	☐			42.22		P	36.5
3	☐			41.11		P	54.0
4	☐			43.33		P	13.3
5	☐			70.00		P	28.6
6	☐			107.78		P	33.1
7	☐			202.22		P	10.5
8	☐			137.78		P	8.5

172 Yb [No Gas] No available calibration points

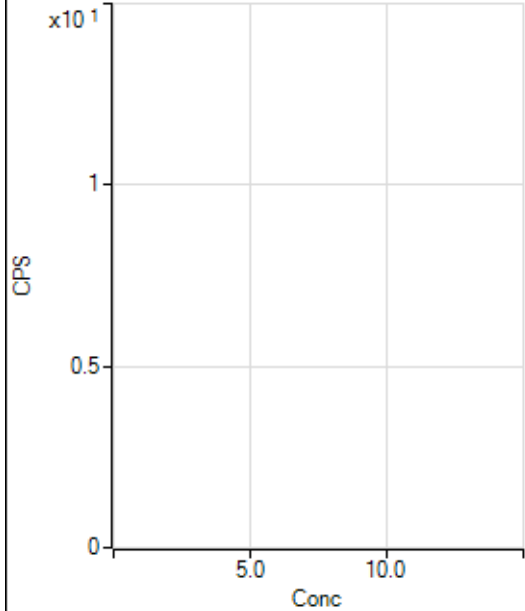
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			58.89		P	14.2
2	☐			68.89		P	37.6
3	☐			78.89		P	2.4
4	☐			96.67		P	10.3
5	☐			97.78		P	32.2
6	☐			185.56		P	4.5
7	☐			235.56		P	5.9
8	☐			433.35		P	8.3

172 Yb [He] No available calibration points

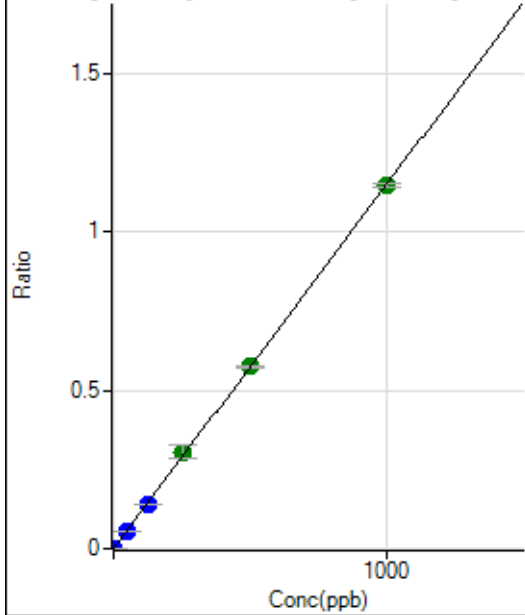
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			45.55		P	29.6
2	☐			34.45		P	11.2
3	☐			43.33		P	27.7
4	☐			60.00		P	28.9
5	☐			58.89		P	17.3
6	☐			85.56		P	17.6
7	☐			137.78		P	9.8
8	☐			231.12		P	6.8

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2892.56		P	2.2
2	☐			2702.53		P	3.6
3	☐			4294.08		P	2.3
4	☐			6583.91		P	0.4
5	☐			10268.52		P	1.3
6	☐			19250.77		P	1.5
7	☐			35980.15		P	2.4
8	☐			2553.61		P	4.9

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19490.05		P	0.9
2	☐			18659.96		P	3.3
3	☐			19565.73		P	1.3
4	☐			21213.77		P	1.8
5	☐			23076.90		P	0.5
6	☐			27578.89		P	0.5
7	☐			35717.18		P	1.0
8	☐			19498.92		P	2.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	307.78	0.0000	P	9.5
2	☐	1.000	0.939	7993.65	0.0011	P	1.7
3	☐	50.000	48.392	385475.98	0.0557	P	2.0
4	☐	125.000	120.677	970970.07	0.1387	P	2.8
5	☐	250.000	266.208	2028976.69	0.3060	A	12.9
6	☐	500.000	499.716	4003286.61	0.5743	A	1.5
7	☐	1000.000	996.711	8047639.19	1.1454	A	1.2
8	☐			2349.19	0.0004	P	52.2

$$y = 0.0011 * x + 4.3489E-005$$

$$R = 0.9998$$

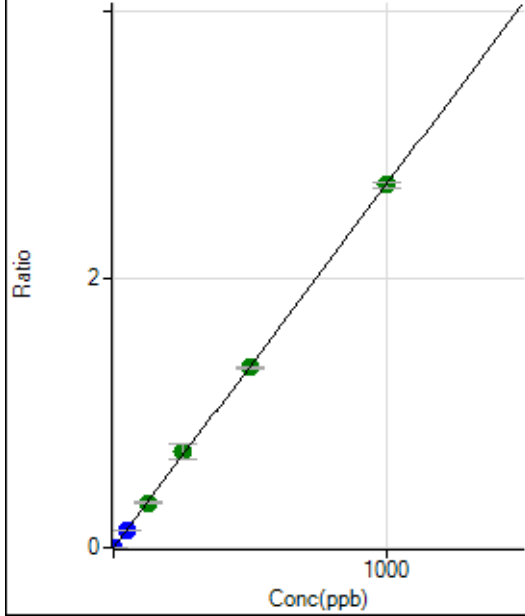
$$DL = 0.01073$$

$$BEC = 0.03784$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	775.59	0.0001	P	3.0
2	☐	1.000	0.948	19036.28	0.0027	P	2.3
3	☐	50.000	49.191	922383.63	0.1332	P	2.6
4	☐	125.000	123.834	2345864.76	0.3351	A	2.8
5	☐	250.000	265.784	4759936.84	0.7191	A	15.0
6	☐	500.000	495.258	9339302.57	1.3398	A	2.0
7	☐	1000.000	998.611	18979589.30	2.7015	A	1.3
8	☐			5657.23	0.0009	P	53.8

$$y = 0.0027 * x + 1.0965E-004$$

$$R = 0.9998$$

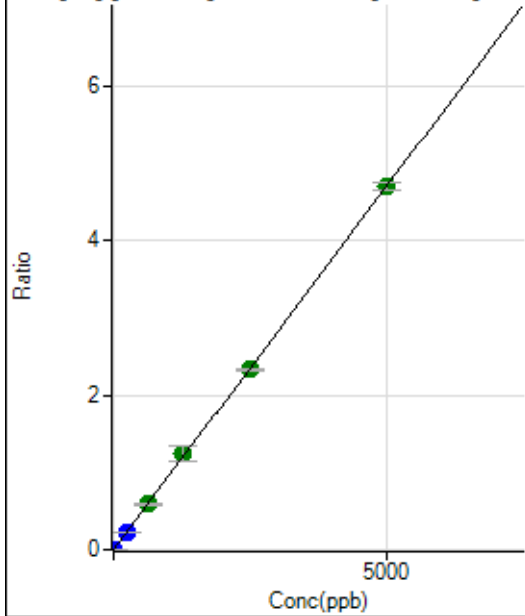
$$DL = 0.003682$$

$$BEC = 0.04053$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	275.56	0.0000	P	7.6
2	☐	1.000	0.927	6479.46	0.0009	P	2.6
3	☐	250.000	241.701	1573036.61	0.2271	P	2.3
4	☐	625.000	623.543	4099033.59	0.5859	A	4.4
5	☐	1250.000	1324.441	8231255.16	1.2444	A	16.0
6	☐	2500.000	2475.564	16213512.26	2.3259	A	0.6
7	☐	5000.000	4994.205	32967381.45	4.6923	A	2.1
8	☐			18044.94	0.0028	P	26.9

$$y = 9.3953E-004 * x + 3.8961E-005$$

$$R = 0.9999$$

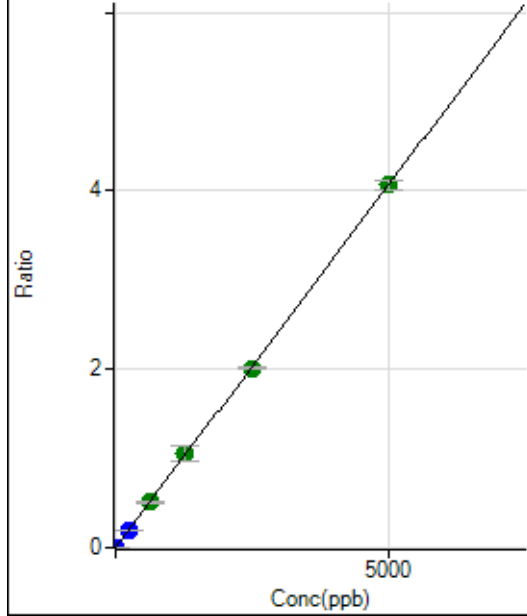
$$DL = 0.009423$$

$$BEC = 0.04147$$

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	271.12	0.0000	P	7.9
2	☐	1.000	0.931	5663.52	0.0008	P	1.5
3	☐	250.000	242.828	1367912.50	0.1975	P	1.6
4	☐	625.000	623.571	3547760.68	0.5070	A	3.9
5	☐	1250.000	1302.307	7009804.48	1.0588	A	15.1
6	☐	2500.000	2472.115	14010726.04	2.0099	A	1.0
7	☐	5000.000	5001.403	28567634.85	4.0663	A	2.4
8	☐			15624.77	0.0024	P	27.6

$$y = 8.1303\text{E-}004 * x + 3.8304\text{E-}005$$

$$R = 0.9999$$

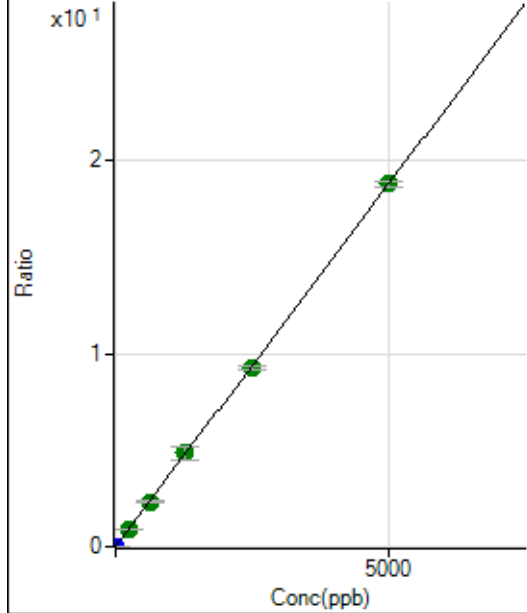
$$DL = 0.01116$$

$$BEC = 0.04711$$

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	1165.59	0.0002	P	4.6
2	☐	1.000	0.922	25858.12	0.0036	P	0.4
3	☐	250.000	245.246	6385560.10	0.9219	A	2.6
4	☐	625.000	617.085	16234536.15	2.3194	A	2.8
5	☐	1250.000	1296.122	32255984.66	4.8715	A	14.7
6	☐	2500.000	2467.399	64639439.73	9.2736	A	1.4
7	☐	5000.000	5005.997	132181331.3	18.8146	A	1.4
8	☐			72334.17	0.0112	P	26.0

$$y = 0.0038 * x + 1.6472\text{E-}004$$

$$R = 0.9999$$

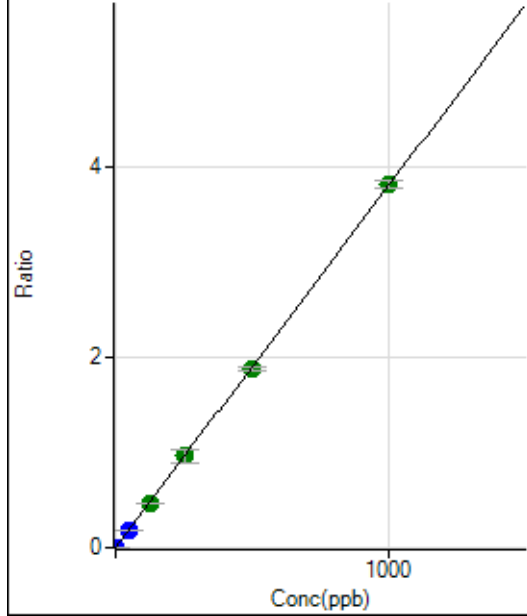
$$DL = 0.006098$$

$$BEC = 0.04383$$

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	32.22	0.0000	P	38.5
2	☐	1.000	0.888	24138.57	0.0034	P	1.8
3	☐	50.000	47.372	1250091.68	0.1805	P	2.6
4	☐	125.000	123.331	3292345.13	0.4699	A	1.0
5	☐	250.000	252.691	6380159.63	0.9628	A	13.8
6	☐	500.000	494.063	13120943.41	1.8824	A	2.3
7	☐	1000.000	1002.636	26837984.05	3.8202	A	2.1
8	☐			5805.48	0.0009	P	71.8

$$y = 0.0038 * x + 4.5470E-006$$

$$R = 1.0000$$

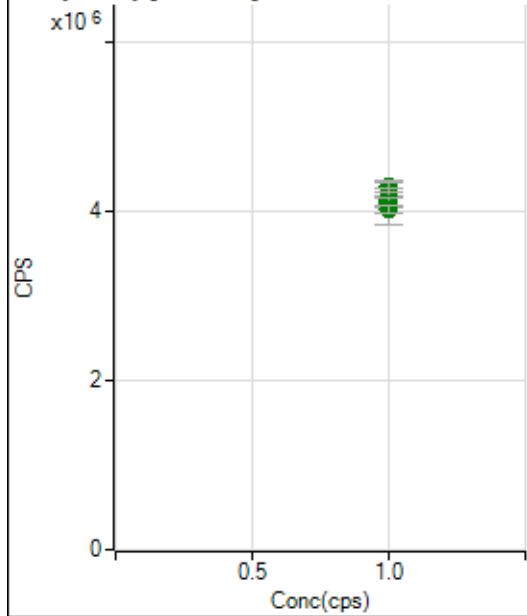
$$DL = 0.00138$$

$$BEC = 0.001193$$

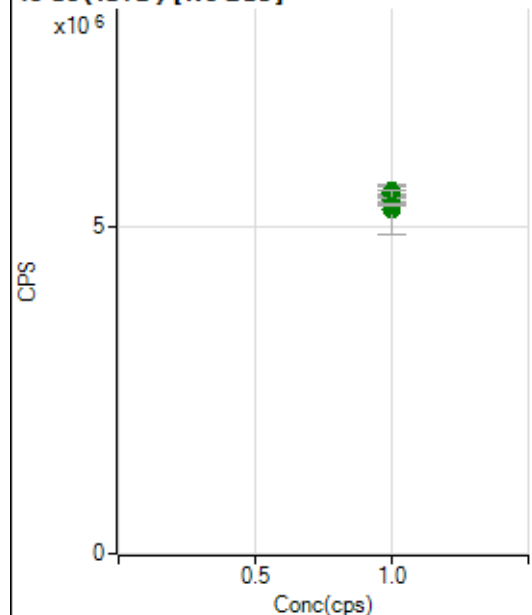
Weight: <None>

Min Conc: 0

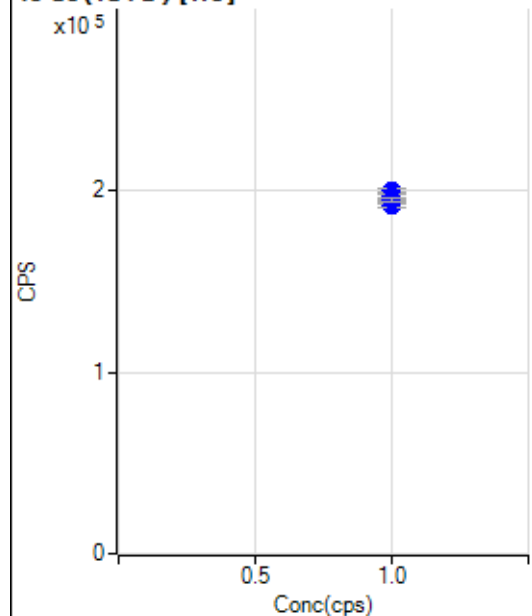
6 Li (ISTD) [No Gas]



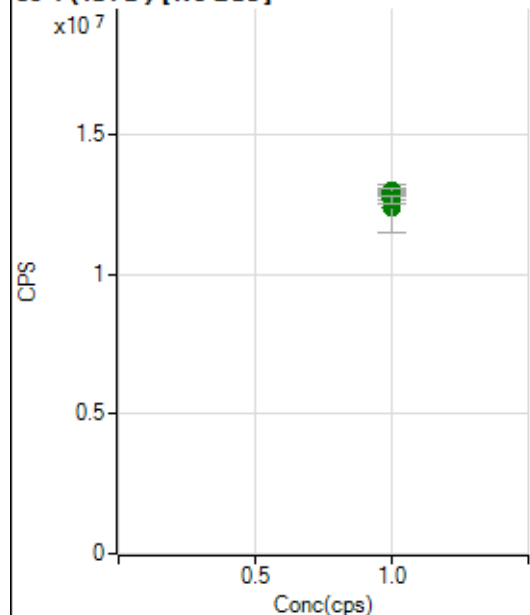
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4283712.20		A	2.7
2	☐	1.000		4162106.82		A	0.4
3	☐	1.000		4220297.68		A	2.6
4	☐	1.000		4216492.94		A	2.3
5	☐	1.000		4101557.96		A	12.8
6	☐	1.000		4140485.18		A	4.1
7	☐	1.000		4097927.25		A	2.3
8	☐	1.000		4025279.01		A	2.3

45 Sc (ISTD) [No Gas]

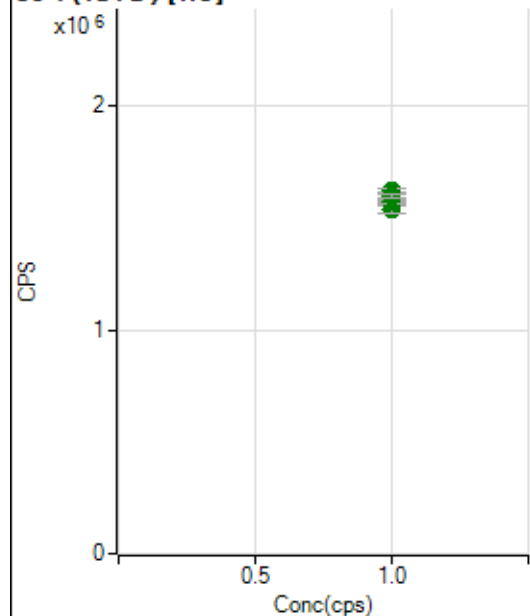
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5553043.81		A	2.6
2	☐	1.000		5436214.29		A	1.8
3	☐	1.000		5423208.78		A	1.9
4	☐	1.000		5464742.07		A	0.5
5	☐	1.000		5265823.43		A	14.3
6	☐	1.000		5533198.74		A	1.2
7	☐	1.000		5504329.29		A	2.6
8	☐	1.000		5339749.05		A	0.9

45 Sc (ISTD) [He]

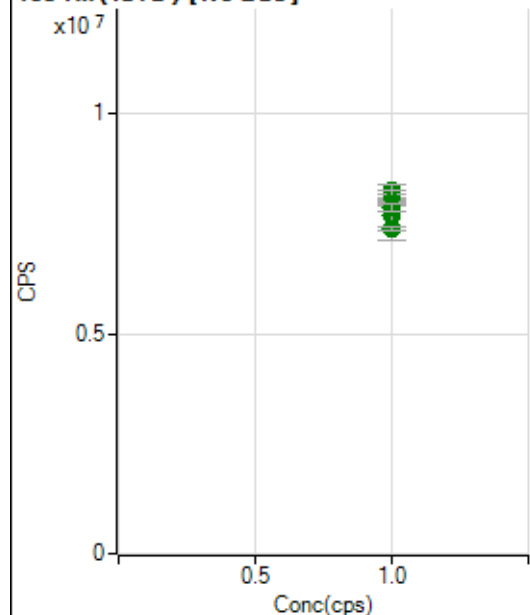
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		199656.76		P	1.0
2	☐	1.000		196702.14		P	2.2
3	☐	1.000		196332.18		P	1.8
4	☐	1.000		195774.29		P	2.5
5	☐	1.000		191543.43		P	1.6
6	☐	1.000		195246.79		P	0.9
7	☐	1.000		195168.92		P	1.1
8	☐	1.000		194768.54		P	0.8

89 Y (ISTD) [No Gas]

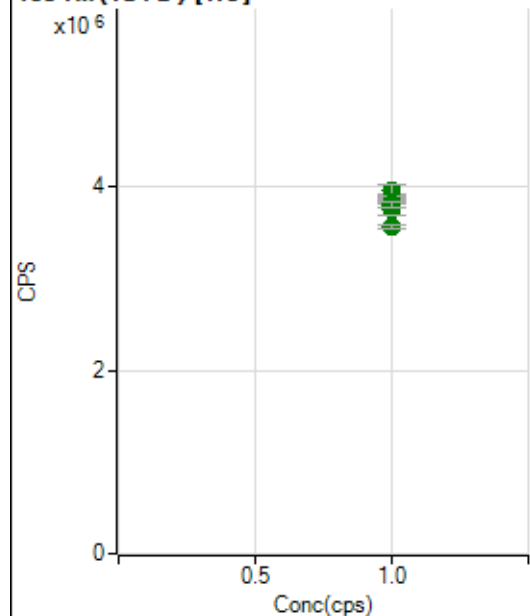
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12788174.25		A	1.3
2	☐	1.000		12871692.45		A	0.5
3	☐	1.000		12768399.39		A	1.7
4	☐	1.000		12858798.00		A	3.1
5	☐	1.000		12370541.00		A	13.4
6	☐	1.000		13000034.11		A	1.1
7	☐	1.000		12979815.22		A	2.0
8	☐	1.000		12668434.81		A	2.0

89 Y (ISTD) [He]

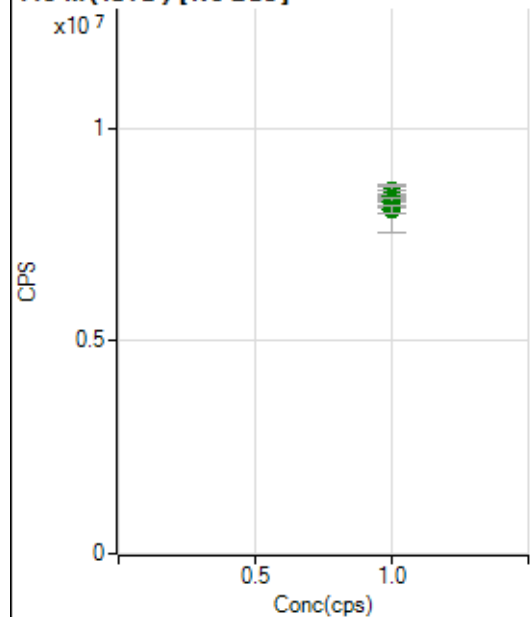
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1596733.33		A	1.9
2	☐	1.000		1600628.12		A	1.7
3	☐	1.000		1587418.45		A	2.4
4	☐	1.000		1572605.55		A	1.2
5	☐	1.000		1538184.06		A	2.5
6	☐	1.000		1570477.69		A	0.9
7	☐	1.000		1620097.29		A	1.3
8	☐	1.000		1595320.44		A	1.0

103 Rh (ISTD) [No Gas]

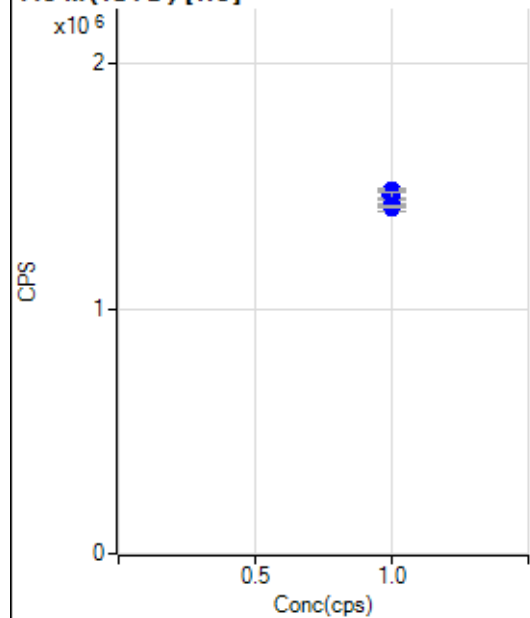
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8248628.00		A	3.7
2	☐	1.000		8097719.81		A	1.8
3	☐	1.000		7997529.46		A	2.5
4	☐	1.000		7996556.20		A	1.3
5	☐	1.000		7692005.58		A	15.3
6	☐	1.000		7951243.21		A	1.4
7	☐	1.000		7860663.56		A	2.2
8	☐	1.000		7402934.06		A	1.1

103 Rh (ISTD) [He]

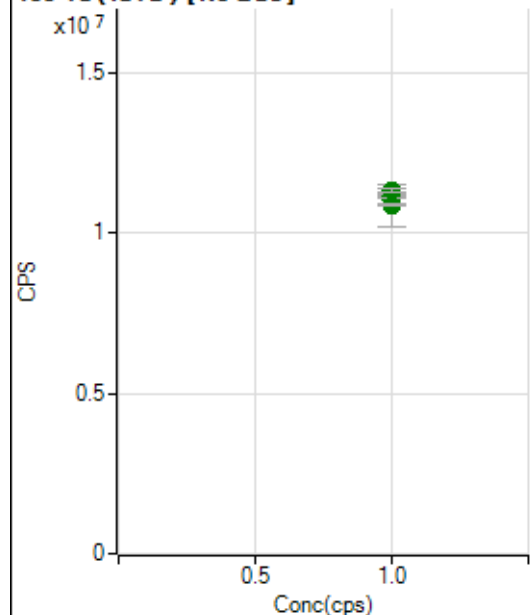
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3896223.59		A	1.1
2	☐	1.000		3959776.26		A	3.8
3	☐	1.000		3845728.00		A	0.6
4	☐	1.000		3834637.03		A	3.1
5	☐	1.000		3752653.90		A	3.1
6	☐	1.000		3804357.20		A	1.6
7	☐	1.000		3815979.04		A	1.6
8	☐	1.000		3566354.04		A	1.2

115 In (ISTD) [No Gas]

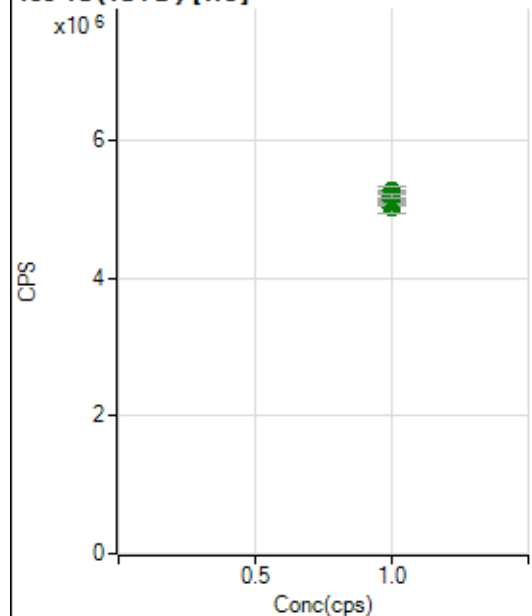
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8525810.17		A	2.6
2	☐	1.000		8356990.52		A	0.5
3	☐	1.000		8375603.87		A	1.9
4	☐	1.000		8390063.13		A	3.2
5	☐	1.000		8121268.62		A	14.0
6	☐	1.000		8355083.40		A	2.2
7	☐	1.000		8256489.79		A	2.8
8	☐	1.000		8071744.14		A	2.2

115 In (ISTD) [He]

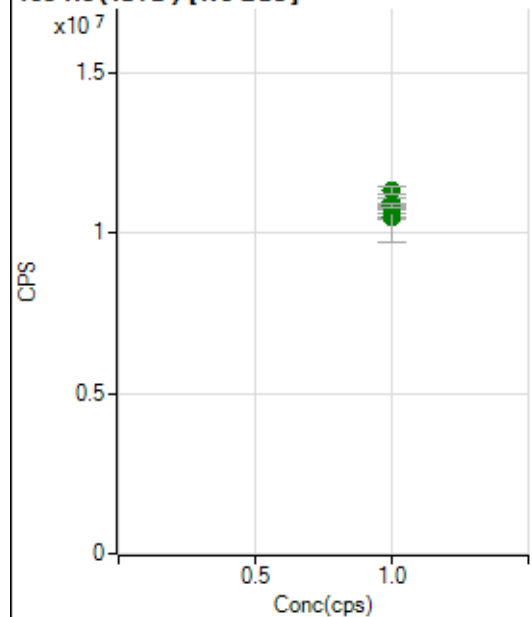
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1480075.70		P	1.1
2	☐	1.000		1466781.95		P	2.0
3	☐	1.000		1464847.82		P	1.9
4	☐	1.000		1459560.86		P	2.3
5	☐	1.000		1411049.38		P	1.6
6	☐	1.000		1423178.44		P	1.1
7	☐	1.000		1422025.00		P	0.8
8	☐	1.000		1417795.09		P	0.6

159 Tb (ISTD) [No Gas]

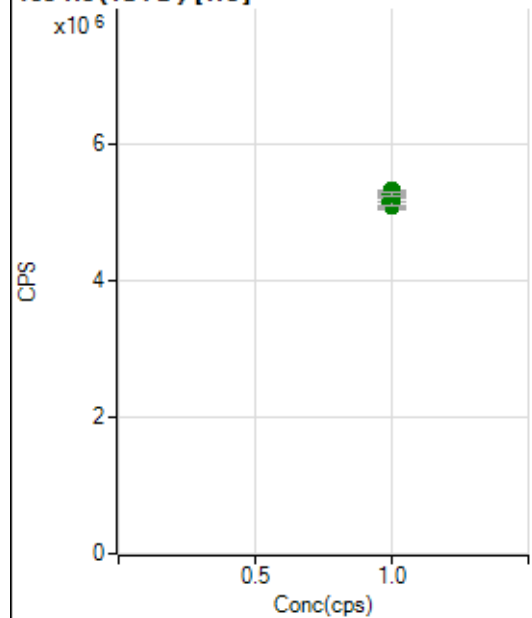
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11014615.39		A	3.3
2	☐	1.000		10894487.75		A	0.6
3	☐	1.000		11018332.34		A	2.3
4	☐	1.000		11293377.89		A	1.9
5	☐	1.000		10853919.28		A	12.7
6	☐	1.000		11176066.92		A	1.6
7	☐	1.000		11312320.11		A	0.9
8	☐	1.000		10877842.06		A	0.9

159 Tb (ISTD) [He]

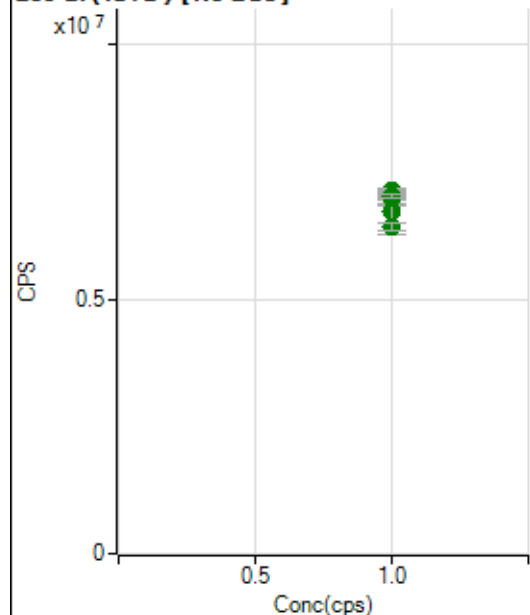
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5037813.81		A	3.7
2	☐	1.000		5098660.62		A	1.4
3	☐	1.000		5183017.60		A	2.2
4	☐	1.000		5228389.65		A	0.5
5	☐	1.000		5150742.08		A	2.7
6	☐	1.000		5226589.19		A	2.3
7	☐	1.000		5269929.40		A	2.1
8	☐	1.000		5188984.96		A	0.8

165 Ho (ISTD) [No Gas]

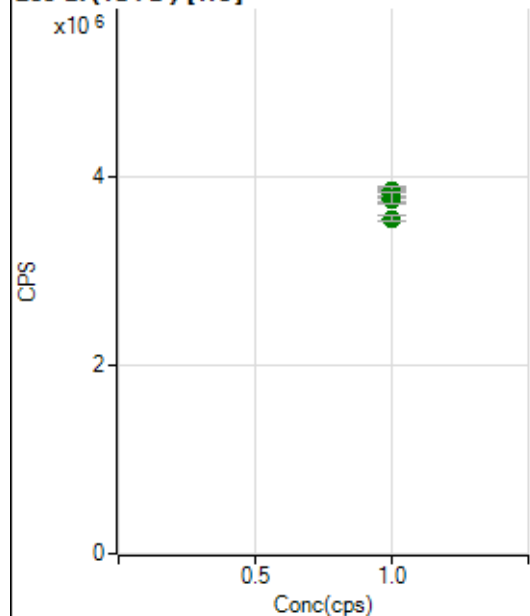
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10851638.17		A	0.5
2	☐	1.000		10641554.70		A	2.6
3	☐	1.000		10594708.94		A	2.4
4	☐	1.000		10779973.59		A	3.0
5	☐	1.000		10473474.43		A	14.0
6	☐	1.000		11001052.27		A	2.0
7	☐	1.000		11319881.50		A	2.1
8	☐	1.000		10857931.64		A	1.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5095596.45		A	2.2
2	☐	1.000		5134312.84		A	2.7
3	☐	1.000		5190189.57		A	1.4
4	☐	1.000		5209997.28		A	1.9
5	☐	1.000		5167173.95		A	2.7
6	☐	1.000		5165690.00		A	2.1
7	☐	1.000		5313130.48		A	0.3
8	☐	1.000		5265769.22		A	0.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7075090.38		A	1.2
2	☐	1.000		7123020.24		A	1.2
3	☐	1.000		6928935.80		A	3.0
4	☐	1.000		7004892.60		A	4.2
5	☐	1.000		6703925.18		A	12.6
6	☐	1.000		6970865.38		A	0.9
7	☐	1.000		7025909.69		A	1.2
8	☐	1.000		6431740.39		A	2.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3814153.45		A	2.8
2	☐	1.000		3817793.52		A	2.1
3	☐	1.000		3811045.67		A	0.9
4	☐	1.000		3843884.87		A	2.4
5	☐	1.000		3741234.49		A	1.8
6	☐	1.000		3766951.26		A	1.6
7	☐	1.000		3773574.32		A	3.0
8	☐	1.000		3554889.60		A	1.5

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8071024-MS.b

Acq. Date-Time 2024-07-10 09:28:43

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		10739	107387.02			0.791	5.000
24		89174	891739.91			3.160	5.000
25		11669	116685.70			3.114	5.000
26		13673	136734.88			3.386	5.000
59		81085	810852.66			0.799	5.000
113		9064	90636.39			1.586	5.000
115		117205	1172054.79			1.322	5.000
206		30901	309013.04			1.161	5.000
207		28025	280248.73			1.215	5.000
208		66277	662769.93			1.207	5.000
220		0	3.30			74.690	

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

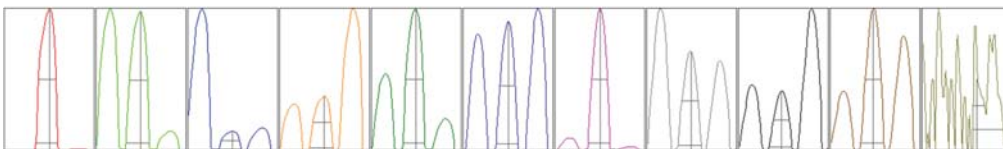
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	10863	10762	10750	10656	10662
24	93166	90087	88752	88476	85389
25	12297	11623	11577	11460	11386
26	14457	13628	13623	13360	13299
59	82223	81000	80684	80796	80724
113	9287	9108	9043	8948	8932
115	119835	116873	115997	117171	116151
206	31203	31369	30576	30683	30675
207	28415	28372	27859	27725	27753
208	67103	67171	65921	65489	65702

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	19813.34	9.05	8.90 - 9.10	
24	154598.07	24.00	23.90 - 24.10	
25	20454.12	25.00	24.90 - 25.10	
26	23863.27	26.00	25.90 - 26.10	
59	148593.64	59.00	58.90 - 59.10	
113	18399.28	113.05	112.90 - 113.10	
115	234360.58	115.05	114.90 - 115.10	
206	59263.67	206.00	205.90 - 206.10	
207	53849.33	206.95	206.90 - 207.10	
208	128553.80	207.95	207.90 - 208.10	
220	0.40	220.35	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.730	0.900	
24	0.61	0.784	0.900	
25	0.61	0.739	0.900	
26	0.60	0.783	0.900	
59	0.57	0.735	0.900	
113	0.50	0.730	0.900	
115	0.52	0.729	0.900	
206	0.53	0.783	0.900	
207	0.53	0.776	0.900	
208	0.53	0.775	0.900	
220	0.38	1.003		

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	12.0 V	Deflect	14.2 V
Extract 2	-240.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-110 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	140 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9994	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-1.0 mm
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EM

Discriminator	3.8 mV	Analog HV	2135 V	Pulse HV	964 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		18118	181183.92			0.537	
89		13619	136189.48			1.216	
205		23082	230823.41			1.123	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	18242	18085	18113	18169	17981
89	13847	13449	13708	13616	13475
205	23435	22912	23098	23203	22765

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	12.0 V	Deflect	3.0 V
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Extract 2	-240.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-110 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	125	Axis Gain	0.9994	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	0.02		
Hardware Settings					
Torch					
Torch H	0.6 mm	Torch V	-1.0 mm		
EM					
Discriminator	3.8 mV	Analog HV	2135 V	Pulse HV	964 V