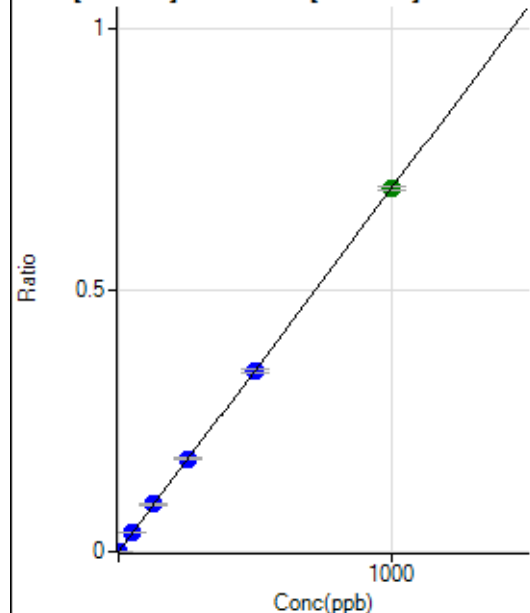


Calibration for 009CAL.S.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8032824-MS.b\
 Analysis File: P8032824-MS.batch.bin
 DA Date-Time: 2024-03-28 10:42:32
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-03-28 10:08:54
2	005CAL.S.d	S02	2024-03-28 10:12:19
3	007CAL.S.d	S03	2024-03-28 10:19:09
4	008CAL.S.d	S04	2024-03-28 10:22:28
5	009CAL.S.d	S05	2024-03-28 10:25:38
6	010CAL.S.d	S06	2024-03-28 10:28:47
7	011CAL.S.d	S07	2024-03-28 10:31:49
8	012CAL.S.d	S08	2024-03-28 10:34:53

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	49.99	0.0000	P	12.1
2	☐	1.000	1.002	1416.98	0.0007	P	4.5
3	☐	50.000	50.775	69578.61	0.0352	P	1.9
4	☐	125.000	129.901	166521.48	0.0901	P	1.5
5	☐	250.000	256.335	317408.16	0.1777	P	2.7
6	☐	500.000	497.871	614049.75	0.3451	P	1.5
7	☐	1000.000	998.829	1180587.52	0.6924	A	1.1
8	☐			1401.04	0.0008	P	129.0

$$y = 6.9316E-004 * x + 2.5599E-005$$

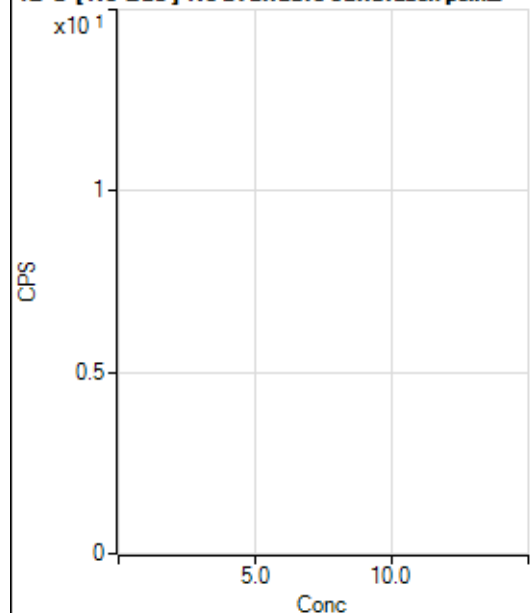
$$R = 1.0000$$

$$DL = 0.01344$$

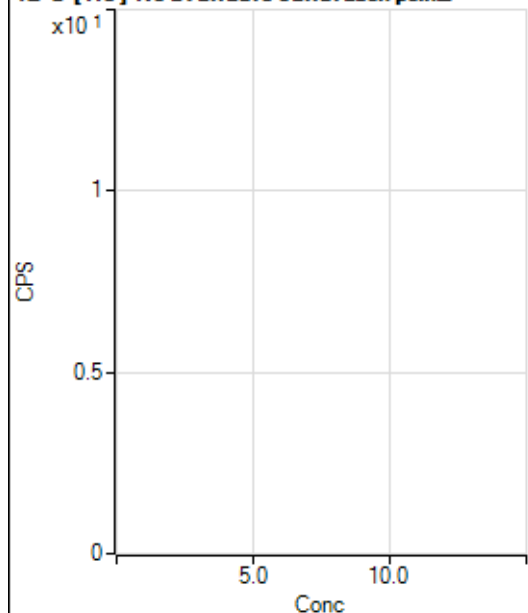
$$BEC = 0.03693$$

Weight: <None>

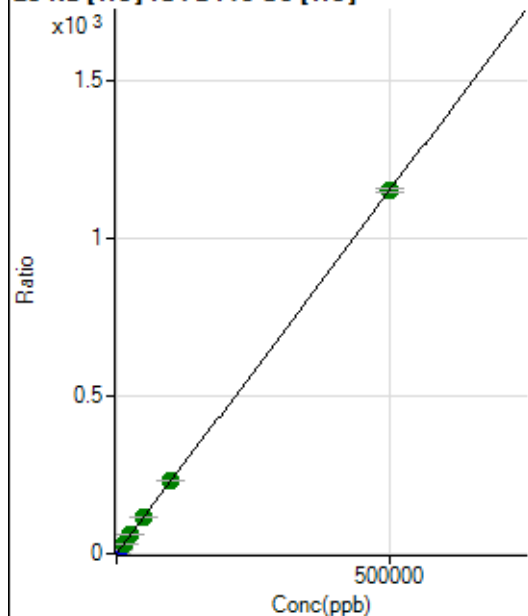
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1293279.43		A	0.7
2	☐			1374282.31		A	1.9
3	☐			1412606.00		A	1.4
4	☐			1418260.97		A	0.7
5	☐			1481852.98		A	1.7
6	☐			1574303.47		A	2.5
7	☐			1893232.75		A	3.9
8	☐			1947637.59		A	5.9

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15947.63		P	0.8
2	☐			16804.16		P	1.2
3	☐			17183.45		P	1.7
4	☐			17748.58		P	2.6
5	☐			19020.16		P	0.9
6	☐			21347.77		P	1.5
7	☐			27363.30		P	1.5
8	☐			31295.63		P	1.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7943.36	0.0921	P	2.4
2	☐	500.000	456.806	98990.82	1.1436	P	0.4
3	☐	5000.000	5093.176	967087.02	11.8155	P	1.1
4	☐	12500.000	12808.703	2354660.71	29.5750	A	0.7
5	☐	25000.000	25402.380	4442294.86	58.5630	A	1.2
6	☐	50000.000	50548.624	8811721.26	116.4443	A	0.7
7	☐	100000.00	101076.73	17576903.90	232.7494	A	1.2
8	☐	500000.00	499701.06	94322896.37	1,150.298	A	1.0

$$y = 0.0023 * x + 0.0921$$

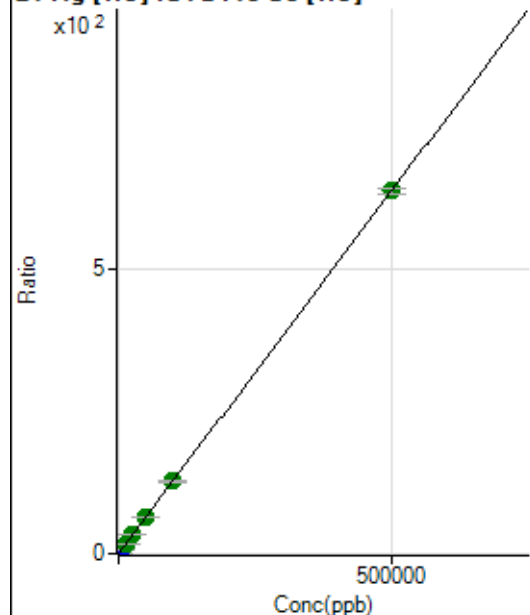
$$R = 1.0000$$

$$DL = 2.93$$

$$BEC = 40.01$$

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	111.11	0.0013	P	1.5
2	☐	500.000	464.423	51268.71	0.5923	P	0.7
3	☐	5000.000	5099.153	531200.41	6.4900	P	0.9
4	☐	12500.000	12908.007	1307860.68	16.4268	A	1.4
5	☐	25000.000	25299.282	2442379.81	32.1947	A	0.8
6	☐	50000.000	50666.297	4878599.75	64.4744	A	1.6
7	☐	100000.00	99456.273	9557770.55	126.5598	A	1.2
8	☐	500000.00	500015.99	52173431.44	636.2738	A	1.5

$$y = 0.0013 * x + 0.0013$$

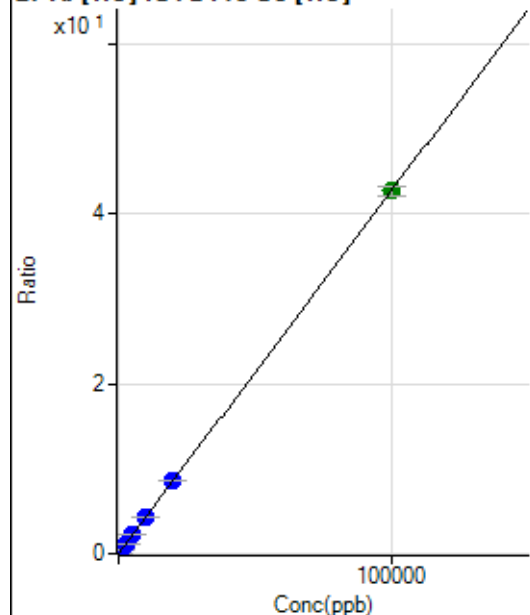
$$R = 1.0000$$

$$DL = 0.04537$$

$$BEC = 1.012$$

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	32.22	0.0004	P	47.1
2	☐	20.000	17.480	677.80	0.0078	P	8.9
3	☐	1000.000	1025.942	35854.18	0.4380	P	1.1
4	☐	2500.000	2532.309	86029.31	1.0806	P	1.9
5	☐	5000.000	5091.360	164774.11	2.1722	P	0.9
6	☐	10000.000	10151.966	327703.20	4.3309	P	1.2
7	☐	20000.000	20067.478	646475.10	8.5605	P	1.6
8	☐	100000.00	99965.673	3496451.03	42.6425	A	2.8

$$y = 4.2657E-004 * x + 3.7283E-004$$

$$R = 1.0000$$

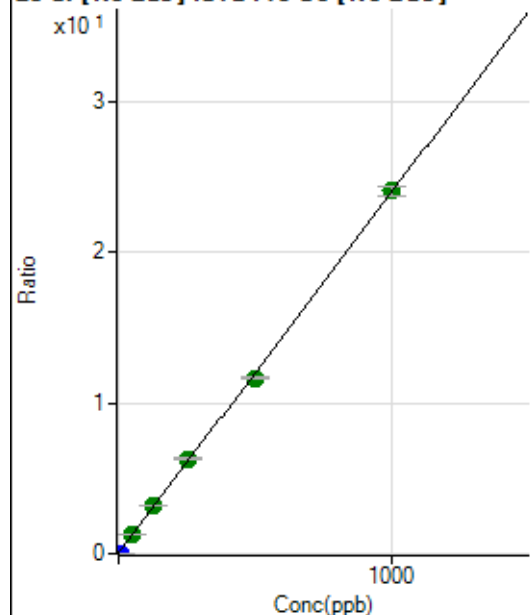
$$DL = 1.235$$

$$BEC = 0.874$$

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	146254.83	0.0515	P	4.3
2	☐	10.000	0.217	162744.50	0.0567	P	0.6
3	☐	50.000	51.300	3675537.41	1.2788	A	2.1
4	☐	125.000	131.571	8652487.16	3.1993	A	1.7
5	☐	250.000	260.789	16420432.53	6.2907	A	2.2
6	☐	500.000	485.091	31113812.59	11.6571	A	1.9
7	☐	1000.000	1003.969	61896230.19	24.0709	A	2.7
8	☐			1011122.41	0.4059	M	7.2

$$y = 0.0239 * x + 0.0515$$

$$R = 0.9997$$

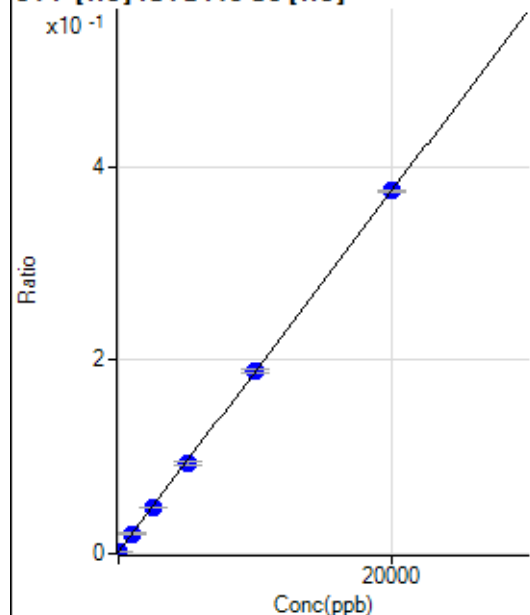
$$DL = 0.2782$$

$$BEC = 2.153$$

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	-20.486	118.89	0.0014	P	7.4
2	☐	0.000	20.486	185.56	0.0021	P	12.4
3	☐	1000.000	1007.339	1682.34	0.0206	P	3.5
4	☐	2500.000	2486.224	3832.76	0.0481	P	0.6
5	☐	5000.000	4882.591	7042.88	0.0928	P	3.9
6	☐	10000.000	10044.739	14311.58	0.1891	P	1.6
7	☐	20000.000	20008.338	28321.07	0.3750	P	0.8
8	☐			148.89	0.0018	P	10.8

$$y = 1.8654E-005 * x + 0.0018$$

$$R = 1.0000$$

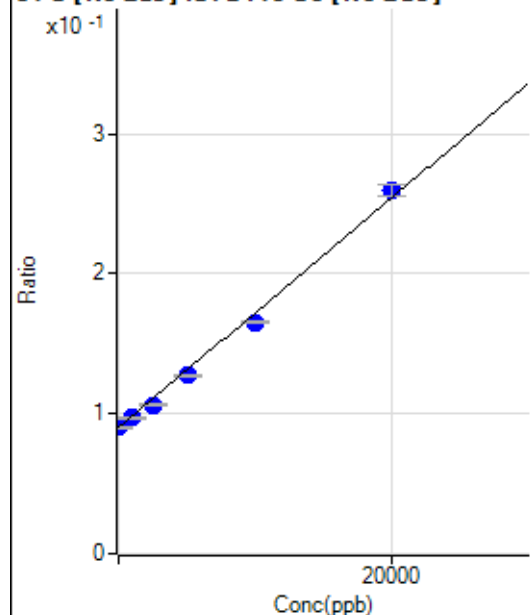
$$DL = 29.6$$

$$BEC = 94.39$$

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	20.639	256936.01	0.0905	P	4.0
2	☐	0.000	-20.639	258734.80	0.0901	P	1.0
3	☐	1000.000	864.594	280014.67	0.0974	P	1.3
4	☐	2500.000	1918.554	286804.69	0.1060	P	1.7
5	☐	5000.000	4536.503	332865.05	0.1275	P	1.4
6	☐	10000.000	9170.603	441756.02	0.1655	P	0.9
7	☐	20000.000	20610.024	666733.89	0.2593	P	3.2
8	☐			239381.87	0.0961	P	4.7

$$y = 8.2000E-006 * x + 0.0903$$

$$R = 0.9983$$

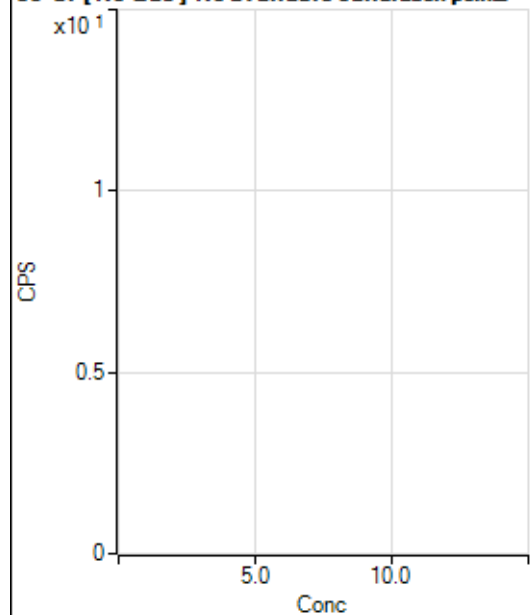
$$DL = 830.6$$

$$BEC = 1.101E+04$$

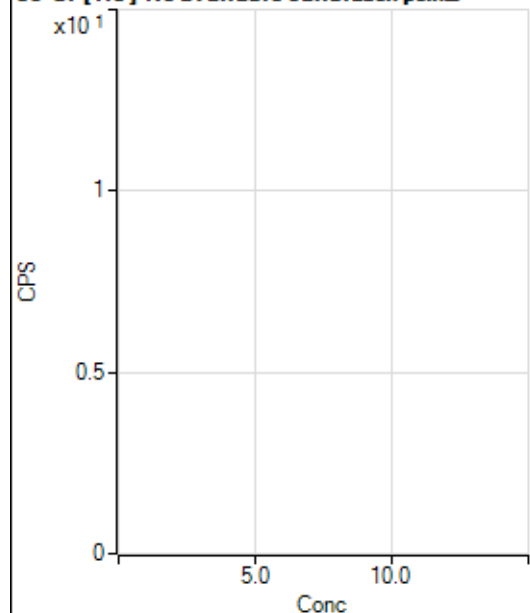
Weight: <None>

Min Conc: 0

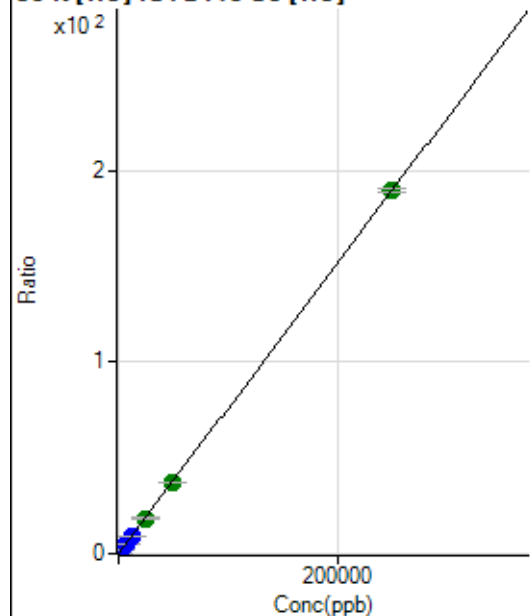
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			81092.03		P	1.0
2	☐			91133.09		P	0.7
3	☐			83994.99		P	0.9
4	☐			84676.70		P	1.9
5	☐			93403.99		P	1.1
6	☐			108806.80		P	1.6
7	☐			117405.39		P	1.7
8	☐			99233.76		P	3.1

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			496.68		P	12.2
2	☐			530.02		P	7.9
3	☐			486.68		P	11.4
4	☐			556.68		P	8.4
5	☐			530.02		P	1.3
6	☐			606.69		P	7.6
7	☐			735.58		P	9.6
8	☐			682.25		P	8.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5375.50	0.0623	P	2.7
2	☐	500.000	441.431	34324.12	0.3965	P	1.0
3	☐	2500.000	2433.572	155903.20	1.9048	P	1.0
4	☐	6250.000	6060.987	370299.87	4.6510	P	0.6
5	☐	12500.000	12162.595	703240.06	9.2705	P	1.1
6	☐	25000.000	24395.590	1402364.88	18.5320	A	0.9
7	☐	50000.000	49110.224	2812806.73	37.2432	A	0.5
8	☐	250000.00	250260.77	15541513.38	189.5321	A	1.2

$$y = 7.5709\text{E-}004 * x + 0.0623$$

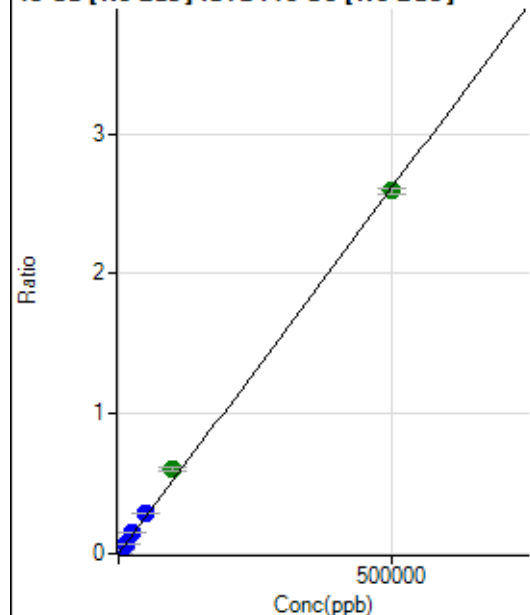
$$R = 1.0000$$

$$DL = 6.683$$

$$BEC = 82.32$$

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	167.78	0.0001	P	35.0
2	☐	500.000	463.962	7127.38	0.0025	P	1.2
3	☐	5000.000	5619.801	84552.13	0.0294	P	1.5
4	☐	12500.000	14177.945	200456.87	0.0741	P	1.6
5	☐	25000.000	28425.447	387756.32	0.1485	P	1.9
6	☐	50000.000	54335.455	757688.44	0.2839	P	1.4
7	☐	100000.00	115097.43	1545753.02	0.6013	A	4.3
8	☐	500000.00	496327.58	6457066.36	2.5928	A	1.3

$$y = 5.2238\text{E-}006 * x + 5.9612\text{E-}005$$

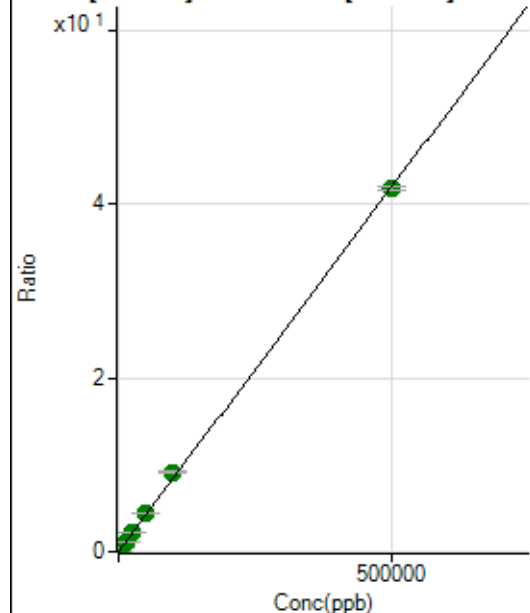
$$R = 0.9995$$

$$DL = 11.98$$

$$BEC = 11.41$$

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	16520.73	0.0058	P	1.8
2	☐	500.000	470.554	129987.77	0.0453	P	2.0
3	☐	5000.000	5458.293	1333316.69	0.4637	A	0.9
4	☐	12500.000	13805.624	3148438.95	1.1641	A	0.8
5	☐	25000.000	27198.058	5971318.66	2.2876	A	2.2
6	☐	50000.000	52880.272	11856772.05	4.4423	A	0.4
7	☐	100000.00	109265.55	23586946.59	9.1728	A	2.5
8	☐	500000.00	497711.76	104003325.1	41.7619	A	0.9

$$y = 8.3896\text{E-}005 * x + 0.0058$$

$$R = 0.9998$$

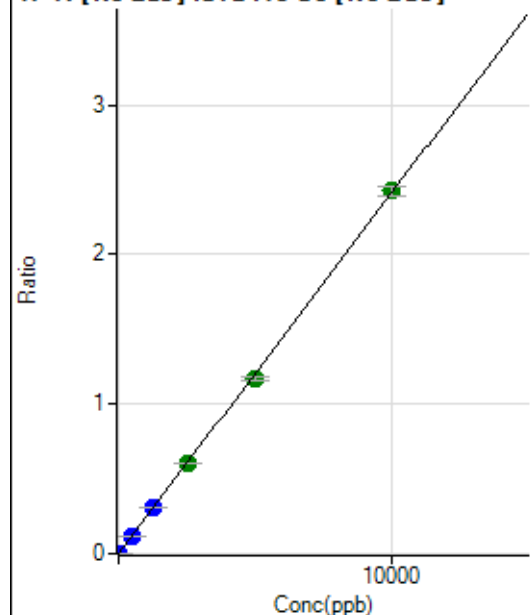
$$DL = 3.639$$

$$BEC = 69.3$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	78.89	0.0000	P	21.0
2	☐	5.000	4.804	3401.55	0.0012	P	3.9
3	☐	500.000	494.968	342909.15	0.1193	P	2.2
4	☐	1250.000	1272.064	829118.46	0.3066	P	1.5
5	☐	2500.000	2513.737	1581489.54	0.6058	A	0.8
6	☐	5000.000	4856.230	3123469.85	1.1703	A	1.6
7	☐	10000.000	10065.945	6237874.97	2.4258	A	2.4
8	☐			8287.02	0.0033	P	129.7

$$y = 2.4099\text{E-}004 * x + 2.7639\text{E-}005$$

$$R = 0.9998$$

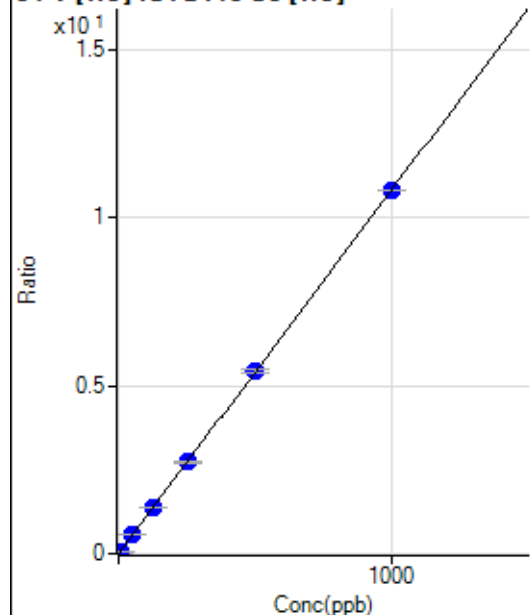
$$DL = 0.0722$$

$$BEC = 0.1147$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5.56	0.0001	P	91.0
2	☐	5.000	4.800	4505.20	0.0520	P	2.4
3	☐	50.000	50.711	44957.09	0.5492	P	1.7
4	☐	125.000	125.677	108363.34	1.3611	P	0.2
5	☐	250.000	251.496	206606.23	2.7236	P	0.5
6	☐	500.000	502.962	412130.20	5.4468	P	1.4
7	☐	1000.000	998.026	816325.13	10.8079	P	0.1
8	☐			368.90	0.0045	P	10.5

$$y = 0.0108 * x + 6.4494\text{E-}005$$

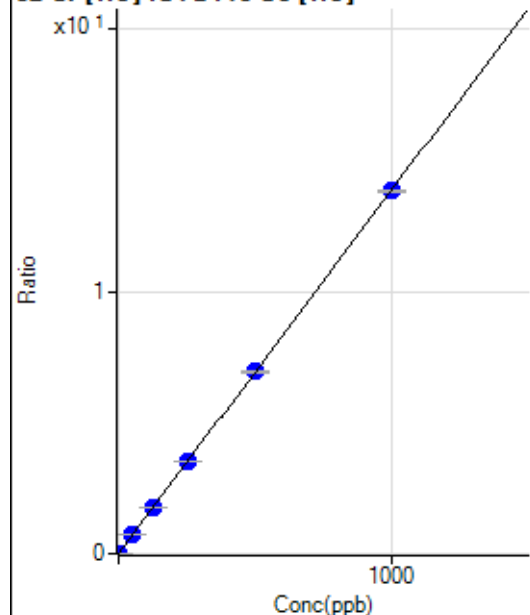
$$R = 1.0000$$

$$DL = 0.01626$$

$$BEC = 0.005956$$

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	617.80	0.0072	P	13.4
2	☐	2.000	1.998	3015.90	0.0348	P	0.8
3	☐	50.000	51.173	58608.40	0.7161	P	1.3
4	☐	125.000	127.396	141081.90	1.7720	P	0.7
5	☐	250.000	254.067	267543.94	3.5268	P	0.7
6	☐	500.000	500.987	525711.93	6.9475	P	0.6
7	☐	1000.000	998.131	1044942.27	13.8346	P	0.2
8	☐			24937.42	0.3041	P	0.7

$$y = 0.0139 * x + 0.0072$$

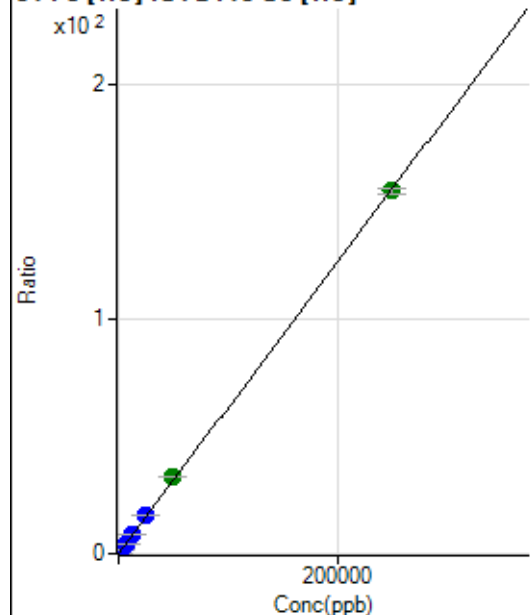
$$R = 1.0000$$

$$DL = 0.208$$

$$BEC = 0.5169$$

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	166.67	0.0019	P	4.3
2	☐	50.000	51.428	2928.11	0.0338	P	1.8
3	☐	2500.000	2670.479	135723.17	1.6581	P	1.2
4	☐	6250.000	6639.816	328002.64	4.1199	P	1.5
5	☐	12500.000	13201.771	621257.64	8.1895	P	0.4
6	☐	25000.000	26366.236	1237436.63	16.3539	P	1.3
7	☐	50000.000	53016.535	2483964.67	32.8821	A	1.5
8	☐	250000.00	249213.53	12673685.09	154.5608	A	1.3

$$y = 6.2019E-004 * x + 0.0019$$

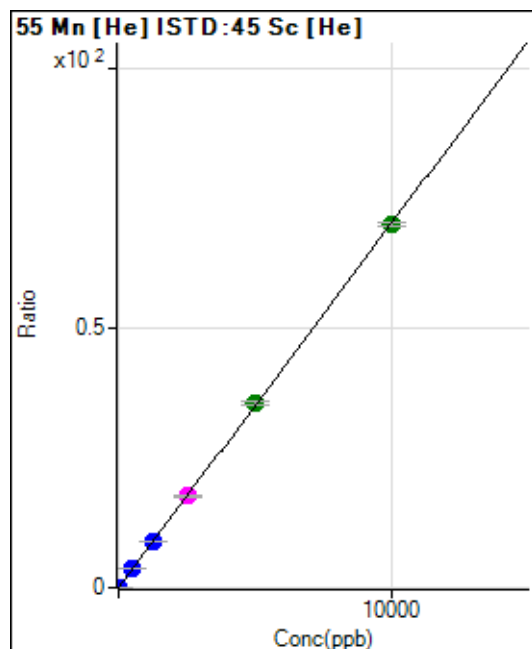
$$R = 0.9999$$

$$DL = 0.4051$$

$$BEC = 3.116$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	54.44	0.0006	P	9.2
2	☐	1.000	0.935	623.35	0.0072	P	5.3
3	☐	500.000	505.253	290473.74	3.5487	P	0.5
4	☐	1250.000	1259.741	704352.42	8.8470	P	1.5
5	☐	2500.000	2517.775	1341245.62	17.6815	M	1.0
6	☐	5000.000	5075.960	2697174.66	35.6460	A	1.5
7	☐	10000.000	9956.096	5281319.75	69.9163	A	1.0
8	☐			4680.82	0.0571	P	5.2

$$y = 0.0070 * x + 6.3119E-004$$

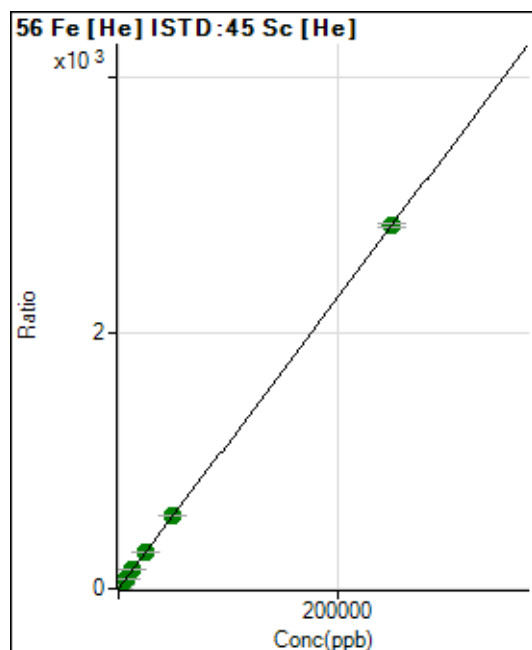
$$R = 1.0000$$

$$DL = 0.02488$$

$$BEC = 0.08988$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1462.32	0.0170	P	1.0
2	☐	50.000	48.243	48852.22	0.5644	P	1.5
3	☐	2500.000	2620.267	2435055.83	29.7496	A	0.6
4	☐	6250.000	6443.030	5822136.93	73.1273	A	0.9
5	☐	12500.000	12934.460	11134553.86	146.7868	A	1.1
6	☐	25000.000	25280.687	21708681.34	286.8818	A	0.3
7	☐	50000.000	49973.134	42829211.86	567.0717	A	0.4
8	☐	250000.00	249949.55	232566936.5	2,836.242	A	0.9

$$y = 0.0113 * x + 0.0170$$

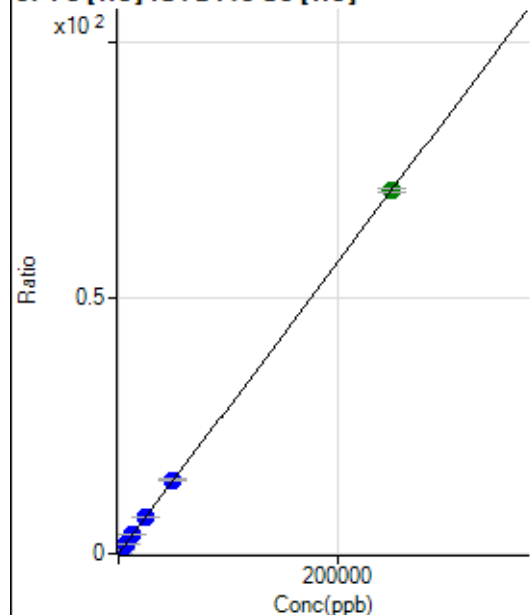
$$R = 1.0000$$

$$DL = 0.04597$$

$$BEC = 1.494$$

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	80.00	0.0009	P	16.0
2	☐	50.000	49.328	1292.29	0.0149	P	0.4
3	☐	2500.000	2635.489	61301.33	0.7489	P	0.7
4	☐	6250.000	6465.021	146156.83	1.8358	P	1.9
5	☐	12500.000	13011.136	280192.89	3.6937	P	0.9
6	☐	25000.000	25662.454	551190.01	7.2844	P	1.1
7	☐	50000.000	50945.269	1092147.48	14.4602	P	0.5
8	☐	250000.00	249712.41	5811519.29	70.8741	A	1.1

$$y = 2.8382E-004 * x + 9.2885E-004$$

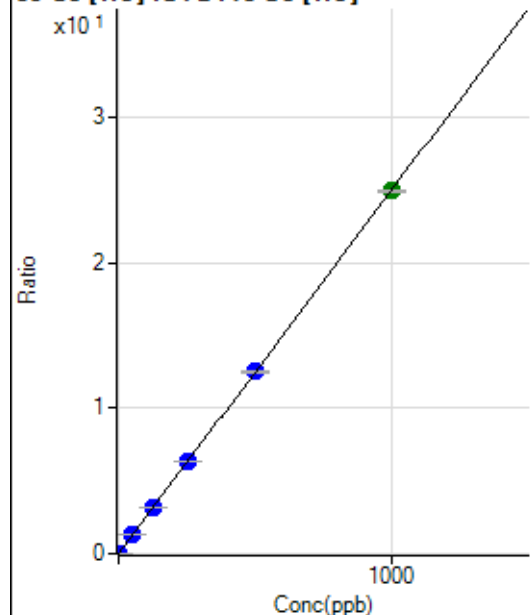
$$R = 1.0000$$

$$DL = 1.57$$

$$BEC = 3.273$$

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	138.89	0.0016	P	40.3
2	☐	1.000	0.973	2244.64	0.0259	P	2.3
3	☐	50.000	51.393	105277.68	1.2862	P	0.3
4	☐	125.000	126.681	252225.70	3.1680	P	0.1
5	☐	250.000	255.054	483704.92	6.3766	P	1.0
6	☐	500.000	500.376	946478.96	12.5083	P	0.9
7	☐	1000.000	998.269	1884564.09	24.9530	A	0.8
8	☐			5283.26	0.0644	P	2.8

$$y = 0.0250 * x + 0.0016$$

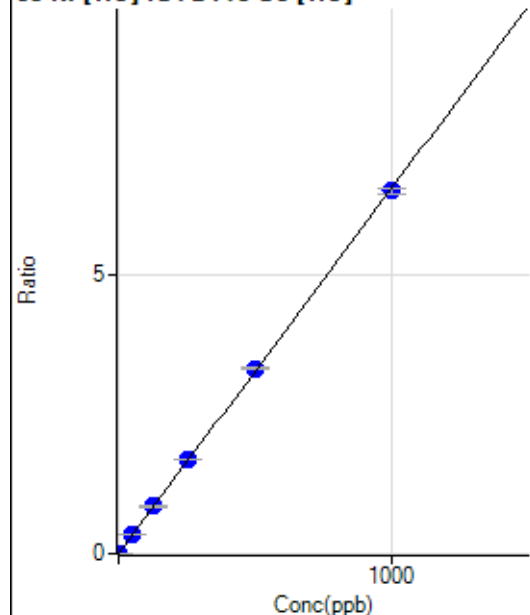
$$R = 1.0000$$

$$DL = 0.07768$$

$$BEC = 0.06424$$

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	74.44	0.0009	P	8.3
2	☐	1.000	0.992	637.80	0.0074	P	9.7
3	☐	50.000	53.051	28555.34	0.3489	P	0.8
4	☐	125.000	130.026	67978.09	0.8538	P	1.8
5	☐	250.000	258.075	128492.93	1.6938	P	0.2
6	☐	500.000	507.043	251745.53	3.3271	P	1.3
7	☐	1000.000	993.679	492470.82	6.5194	P	1.3
8	☐			7950.07	0.0970	P	1.3

$$y = 0.0066 * x + 8.6368E-004$$

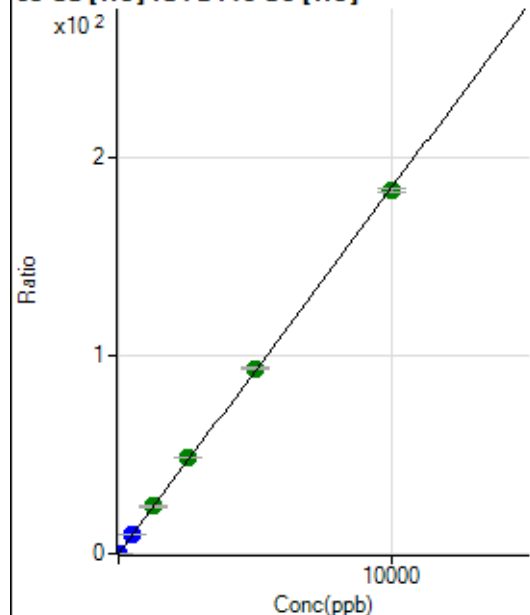
$$R = 0.9999$$

$$DL = 0.03259$$

$$BEC = 0.1317$$

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	802.25	0.0093	P	5.9
2	☐	2.000	1.866	3791.66	0.0438	P	4.7
3	☐	500.000	524.086	794106.92	9.7015	P	0.4
4	☐	1250.000	1293.216	1904805.15	23.9255	A	2.0
5	☐	2500.000	2642.592	3708109.15	48.8802	A	0.5
6	☐	5000.000	5072.921	7099577.46	93.8257	A	1.2
7	☐	10000.000	9921.285	13860377.85	183.4892	A	1.0
8	☐			5127.66	0.0625	P	4.8

$$y = 0.0185 * x + 0.0093$$

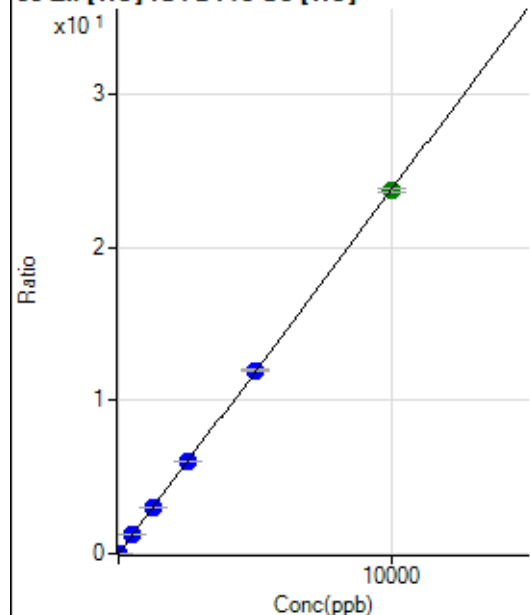
$$R = 0.9998$$

$$DL = 0.08902$$

$$BEC = 0.5027$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	277.79	0.0032	P	0.1
2	☐	2.000	5.296	1367.86	0.0158	P	7.9
3	☐	500.000	518.141	101039.42	1.2344	P	0.6
4	☐	1250.000	1278.909	242199.23	3.0421	P	1.1
5	☐	2500.000	2551.108	460086.53	6.0651	P	0.8
6	☐	5000.000	5026.512	904005.71	11.9471	P	1.1
7	☐	10000.000	9969.446	1789352.33	23.6923	A	1.0
8	☐			1882.37	0.0230	P	4.6

$$y = 0.0024 * x + 0.0032$$

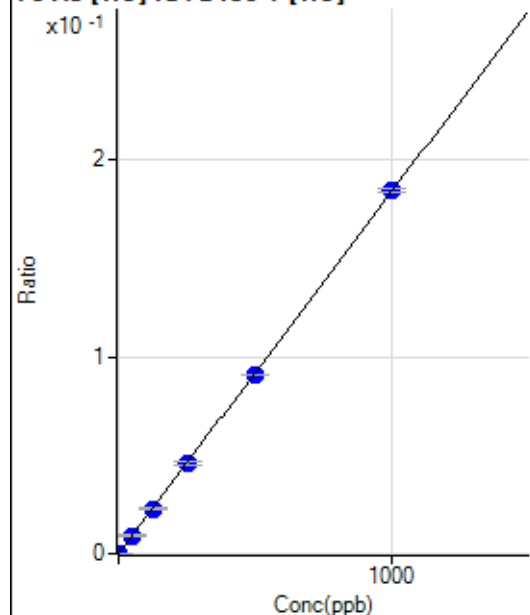
$$R = 1.0000$$

$$DL = 0.005285$$

$$BEC = 1.355$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2.22	0.0000	P	173.2
2	☐	1.000	0.900	94.44	0.0002	P	19.8
3	☐	50.000	49.895	4945.36	0.0092	P	3.5
4	☐	125.000	124.673	11871.78	0.0229	P	2.5
5	☐	250.000	250.033	22747.38	0.0459	P	2.9
6	☐	500.000	493.798	44719.58	0.0906	P	0.8
7	☐	1000.000	1003.139	88748.39	0.1841	P	1.2
8	☐			106.67	0.0002	P	7.3

$$y = 1.8350E-004 * x + 3.9533E-006$$

$$R = 1.0000$$

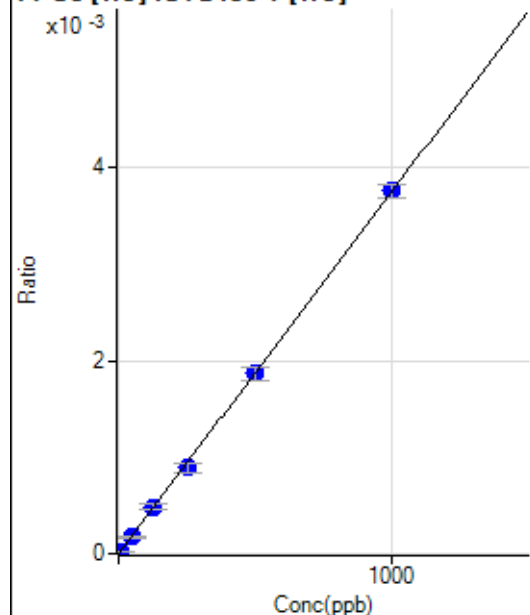
$$DL = 0.1119$$

$$BEC = 0.02154$$

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	6.369	13.33	0.0000	P	24.6
3	☐	50.000	46.644	94.45	0.0002	P	13.5
4	☐	125.000	130.251	253.34	0.0005	P	14.8
5	☐	250.000	237.485	441.12	0.0009	P	10.0
6	☐	500.000	498.482	922.26	0.0019	P	7.0
7	☐	1000.000	1003.392	1814.58	0.0038	P	3.4
8	☐			0.00	0.0000	P	

$$y = 3.7484\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

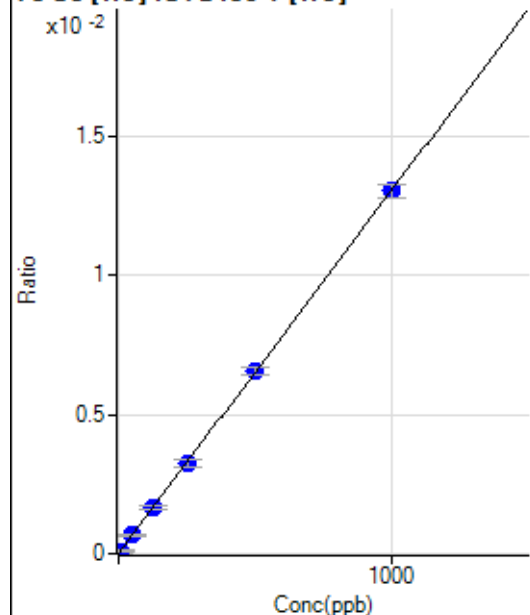
$$DL = 0$$

$$BEC = 0$$

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	4.44	0.0000	P	114.8
2	☐	5.000	6.572	52.22	0.0001	P	24.7
3	☐	50.000	51.479	366.67	0.0007	P	9.7
4	☐	125.000	126.821	862.26	0.0017	P	7.9
5	☐	250.000	247.024	1600.11	0.0032	P	8.9
6	☐	500.000	502.756	3239.29	0.0066	P	5.2
7	☐	1000.000	999.056	6285.91	0.0130	P	3.4
8	☐			11.11	0.0000	P	17.8

$$y = 1.3042\text{E-}005 * x + 7.9264\text{E-}006$$

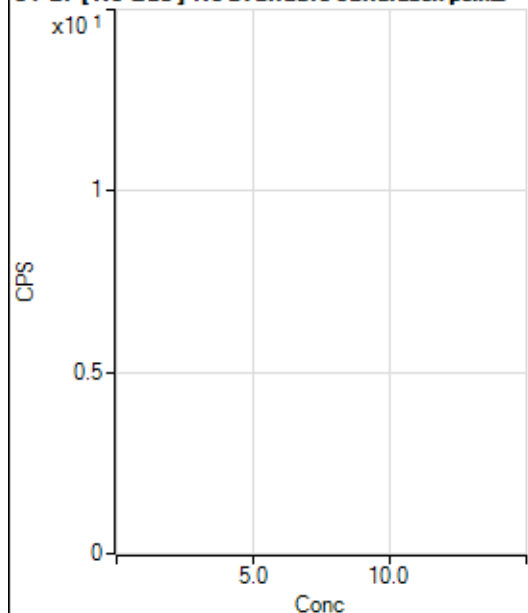
$$R = 1.0000$$

$$DL = 2.092$$

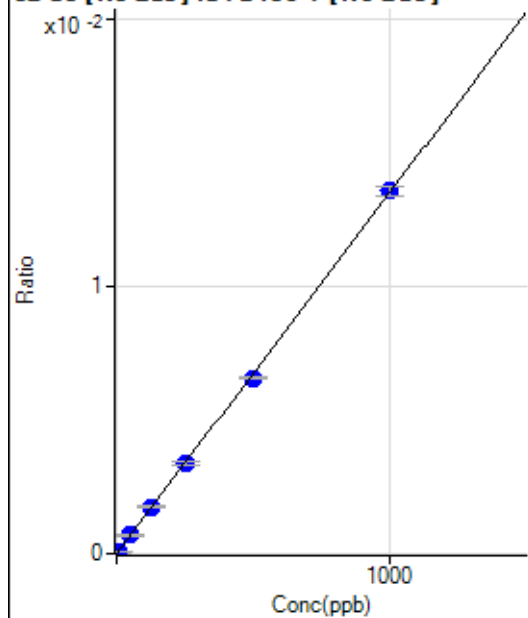
$$BEC = 0.6078$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2360.22		P	1.4
2	☐			2385.78		P	4.5
3	☐			2120.18		P	7.1
4	☐			2037.95		P	2.5
5	☐			1817.92		P	4.0
6	☐			1866.81		P	3.2
7	☐			1679.01		P	1.3
8	☐			1619.00		P	2.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-18.89	0.0000	P	-188.
2	☐	5.000	5.441	440.01	0.0001	P	19.8
3	☐	50.000	51.264	4301.86	0.0007	P	3.2
4	☐	125.000	128.936	10442.97	0.0017	P	2.6
5	☐	250.000	251.996	19900.04	0.0034	P	3.7
6	☐	500.000	487.224	38410.74	0.0066	P	1.4
7	☐	1000.000	1005.331	77165.33	0.0136	P	2.7
8	☐			111.12	0.0000	P	72.5

$$y = 1.3497E-005 * x - 3.3536E-006$$

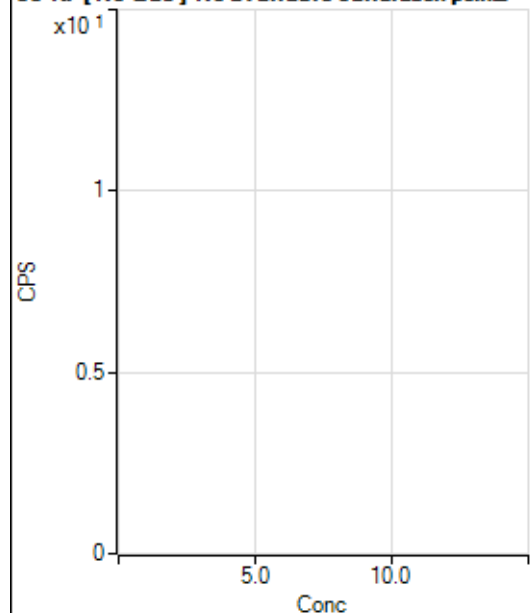
$$R = 0.9999$$

$$DL = 1.403$$

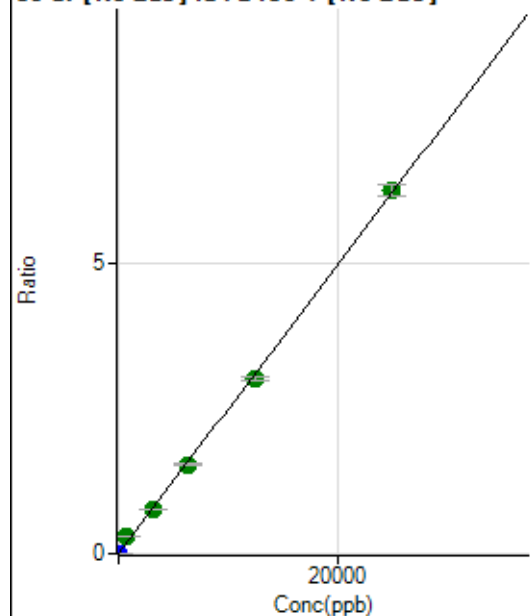
$$BEC = -0.2485$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			175.56		P	15.5
2	☐			150.00		P	17.4
3	☐			146.67		P	8.2
4	☐			154.45		P	33.0
5	☐			156.67		P	24.5
6	☐			130.00		P	7.7
7	☐			136.67		P	17.1
8	☐			146.67		P	6.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	318.89	0.0001	P	9.1
2	☐	1.000	0.920	1764.58	0.0003	P	4.7
3	☐	625.000	1248.570	1936449.73	0.3099	A	1.3
4	☐	3125.000	3099.657	4624698.72	0.7692	A	0.2
5	☐	6250.000	6201.255	9014453.61	1.5388	A	2.0
6	☐	12500.000	12123.460	17580006.55	3.0083	A	1.9
7	☐	25000.000	25188.035	35550792.52	6.2500	A	3.2
8	☐			37667.75	0.0069	P	137.3

$$y = 2.4813E-004 * x + 5.2678E-005$$

$$R = 0.9995$$

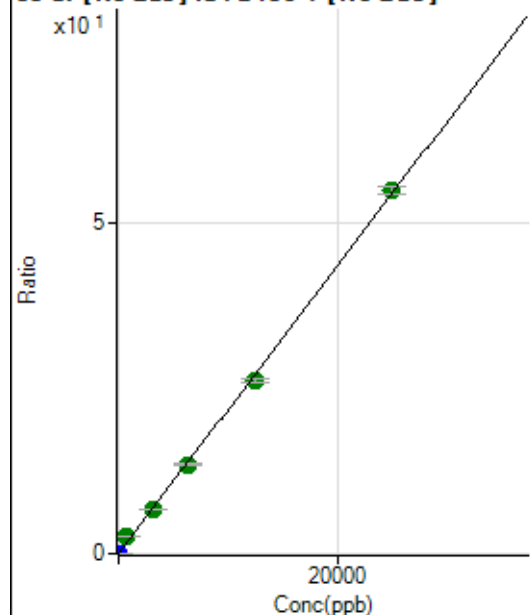
$$DL = 0.05772$$

$$BEC = 0.2123$$

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	421.12	0.0001	P	6.2
2	☐	1.000	0.933	13158.52	0.0021	P	2.5
3	☐	625.000	1211.770	16441900.86	2.6309	A	1.2
4	☐	3125.000	3086.932	40292813.01	6.7020	A	1.7
5	☐	6250.000	6183.722	78633845.49	13.4253	A	3.0
6	☐	12500.000	12025.881	152554559.9	26.1090	A	2.5
7	☐	25000.000	25243.718	311772102.0	54.8057	A	2.3
8	☐			330966.61	0.0607	P	139.3

$$y = 0.0022 * x + 6.9428E-005$$

$$R = 0.9994$$

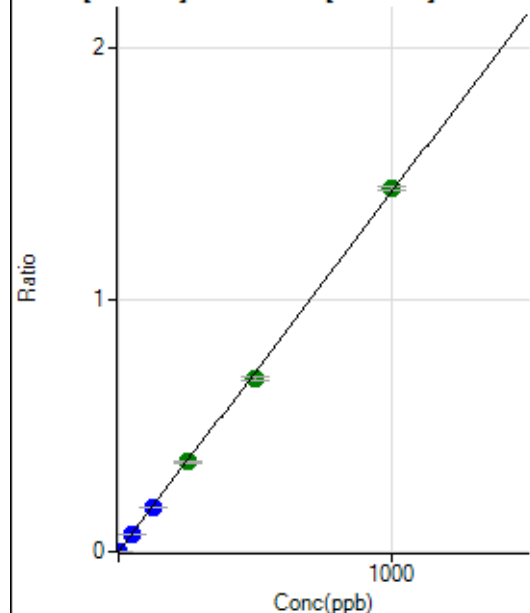
$$DL = 0.005929$$

$$BEC = 0.03198$$

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	17.4
2	☐	1.000	0.868	8064.62	0.0013	P	1.7
3	☐	50.000	49.340	439836.91	0.0704	P	1.7
4	☐	125.000	124.421	1066824.76	0.1774	P	0.7
5	☐	250.000	248.872	2078898.29	0.3549	A	2.1
6	☐	500.000	482.192	4018345.43	0.6875	A	1.6
7	☐	1000.000	1009.292	8187145.99	1.4391	A	1.2
8	☐			10712.78	0.0020	P	103.5

$$y = 0.0014 * x + 4.6045E-005$$

$$R = 0.9998$$

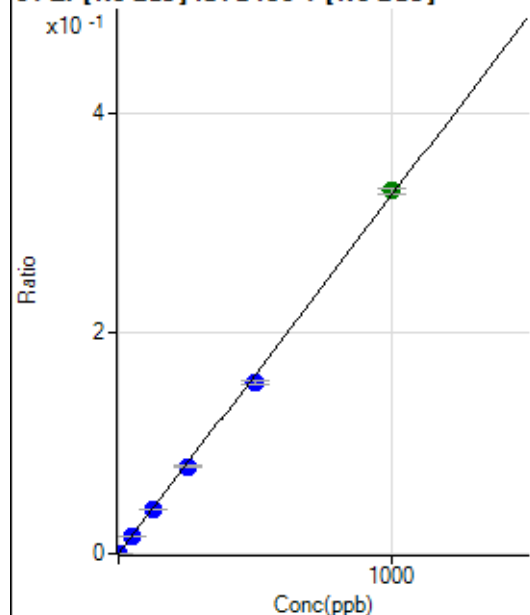
$$DL = 0.01681$$

$$BEC = 0.0323$$

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	53.33	0.0000	P	13.7
2	☐	1.000	0.861	1813.47	0.0003	P	2.0
3	☐	50.000	48.024	97587.65	0.0156	P	1.4
4	☐	125.000	122.359	239165.70	0.0398	P	0.1
5	☐	250.000	244.178	464892.73	0.0794	P	3.1
6	☐	500.000	478.147	908164.22	0.1554	P	2.2
7	☐	1000.000	1012.811	1872815.04	0.3292	A	1.9
8	☐			2461.34	0.0005	P	100.5

$$y = 3.2502\text{E-}004 * x + 8.7674\text{E-}006$$

$$R = 0.9996$$

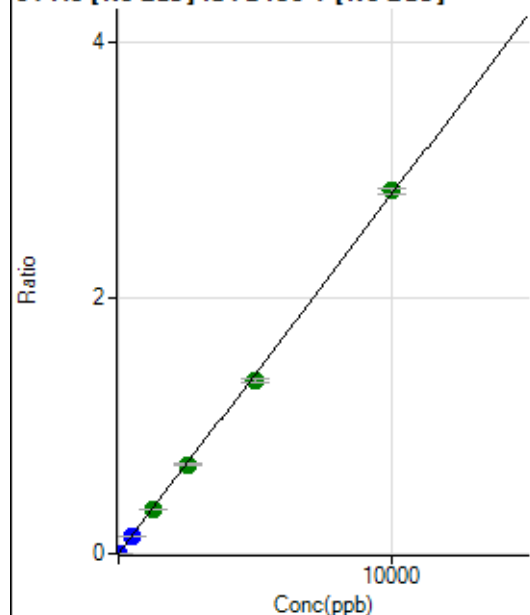
$$DL = 0.01108$$

$$BEC = 0.02697$$

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	90.00	0.0000	P	16.0
2	☐	5.000	5.474	9753.50	0.0016	P	1.9
3	☐	500.000	493.162	865840.62	0.1386	P	1.3
4	☐	1250.000	1240.140	2094878.81	0.3484	A	0.4
5	☐	2500.000	2471.618	4067639.56	0.6944	A	2.3
6	☐	5000.000	4814.926	7903582.31	1.3528	A	3.0
7	☐	10000.000	10101.207	16145312.12	2.8379	A	1.5
8	☐			20696.72	0.0038	P	103.5

$$y = 2.8095\text{E-}004 * x + 1.4911\text{E-}005$$

$$R = 0.9997$$

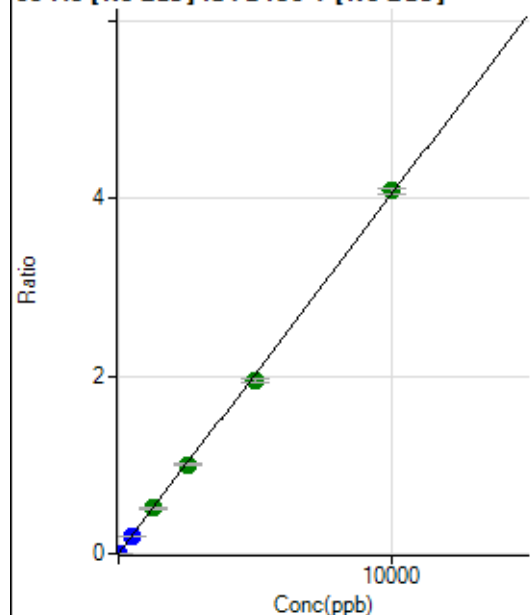
$$DL = 0.02548$$

$$BEC = 0.05307$$

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	42.22	0.0000	P	33.9
2	☐	5.000	4.608	11772.85	0.0019	P	1.0
3	☐	500.000	491.890	1245344.71	0.1993	P	1.2
4	☐	1250.000	1257.663	3063721.20	0.5096	A	0.5
5	☐	2500.000	2485.841	5900594.22	1.0072	A	1.3
6	☐	5000.000	4818.179	11405439.27	1.9521	A	3.0
7	☐	10000.000	10093.898	23267105.21	4.0896	A	1.3
8	☐			28778.32	0.0053	P	105.8

$$y = 4.0516\text{E-}004 * x + 6.9243\text{E-}006$$

$$R = 0.9998$$

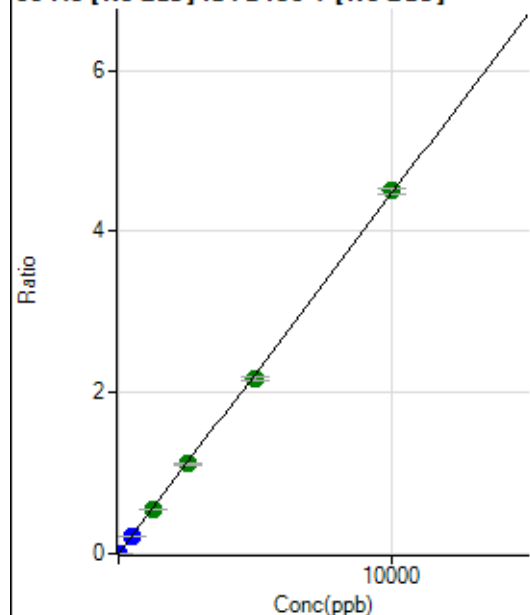
$$DL = 0.01736$$

$$BEC = 0.01709$$

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	66.67	0.0000	P	20.7
2	☐	5.000	4.648	13112.97	0.0021	P	4.5
3	☐	500.000	491.771	1373325.14	0.2198	P	1.4
4	☐	1250.000	1236.357	3321616.69	0.5525	A	2.3
5	☐	2500.000	2486.171	6509405.80	1.1111	A	2.3
6	☐	5000.000	4852.391	12671563.01	2.1686	A	2.3
7	☐	10000.000	10079.378	25626161.01	4.5046	A	1.8
8	☐			31985.50	0.0059	P	106.4

$$y = 4.4691\text{E-}004 * x + 1.1009\text{E-}005$$

$$R = 0.9998$$

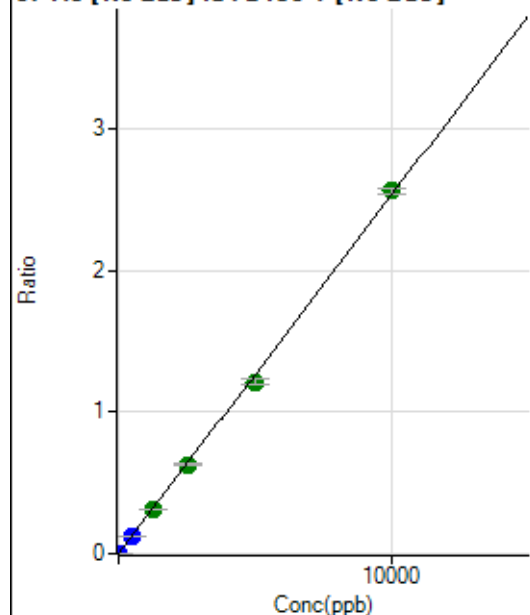
$$DL = 0.01526$$

$$BEC = 0.02463$$

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	25.56	0.0000	P	63.5
2	☐	5.000	4.612	7352.02	0.0012	P	4.5
3	☐	500.000	494.714	782010.50	0.1252	P	1.9
4	☐	1250.000	1240.647	1887137.11	0.3139	A	0.3
5	☐	2500.000	2490.521	3690999.74	0.6301	A	3.6
6	☐	5000.000	4776.746	7060892.53	1.2085	A	3.2
7	☐	10000.000	10115.431	14558947.42	2.5591	A	1.5
8	☐			17828.85	0.0033	P	107.2

$$y = 2.5299\text{E-}004 * x + 4.3042\text{E-}006$$

$$R = 0.9996$$

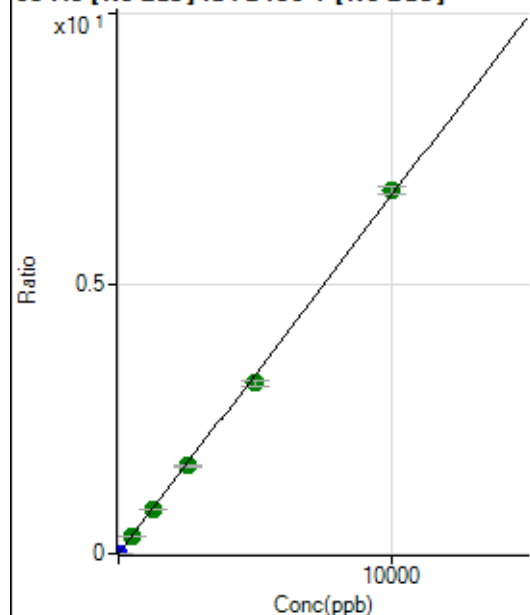
$$DL = 0.03243$$

$$BEC = 0.01701$$

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	55.55	0.0000	P	20.5
2	☐	5.000	4.596	19218.97	0.0031	P	3.5
3	☐	500.000	492.624	2043460.54	0.3270	A	1.9
4	☐	1250.000	1242.015	4957037.84	0.8245	A	1.2
5	☐	2500.000	2465.845	9589523.12	1.6370	A	1.9
6	☐	5000.000	4766.934	18488194.86	3.1646	A	3.8
7	☐	10000.000	10126.439	38242783.88	6.7226	A	2.3
8	☐			44230.89	0.0081	P	104.5

$$y = 6.6387\text{E-}004 * x + 9.1031\text{E-}006$$

$$R = 0.9996$$

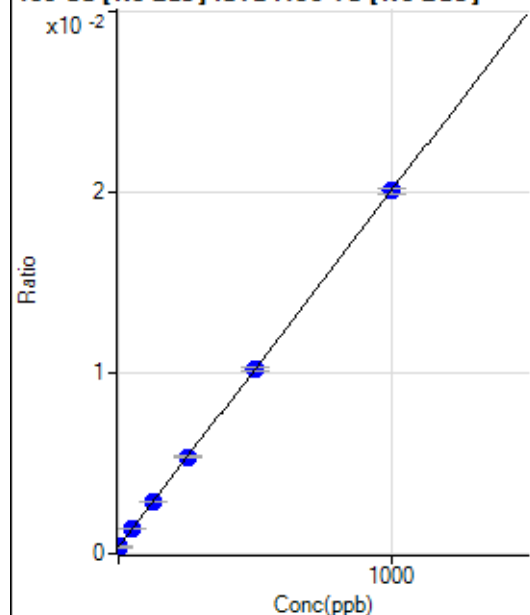
$$DL = 0.008452$$

$$BEC = 0.01371$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2533.59	0.0004	P	0.8
2	☐	1.000	-0.369	2576.94	0.0004	P	6.1
3	☐	50.000	51.855	9735.73	0.0014	P	1.9
4	☐	125.000	126.937	19915.63	0.0029	P	1.2
5	☐	250.000	251.828	35994.67	0.0053	P	1.8
6	☐	500.000	500.037	69257.33	0.0102	P	2.7
7	☐	1000.000	999.191	136233.17	0.0200	P	1.7
8	☐			2087.97	0.0003	P	7.8

$$y = 1.9693E-005 * x + 3.7314E-004$$

$$R = 1.0000$$

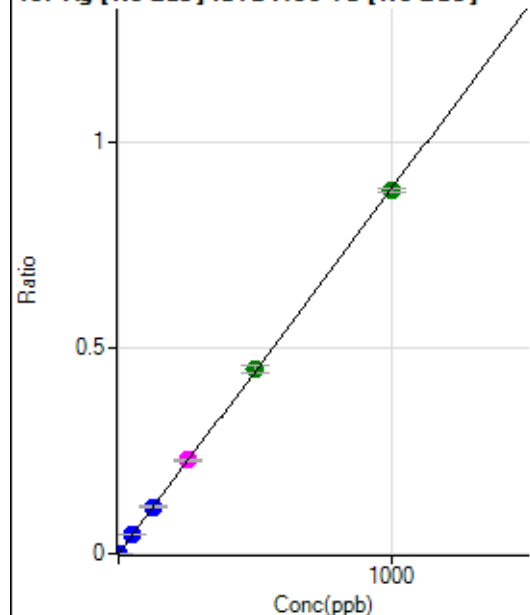
$$DL = 0.4351$$

$$BEC = 18.95$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	54.45	0.0000	P	26.0
2	☐	1.000	0.945	5948.01	0.0008	P	4.1
3	☐	50.000	53.092	328138.26	0.0470	P	1.2
4	☐	125.000	128.751	789833.03	0.1140	P	1.0
5	☐	250.000	257.705	1539643.67	0.2281	M	1.8
6	☐	500.000	506.025	3034610.58	0.4479	A	3.2
7	☐	1000.000	994.438	5979976.02	0.8801	A	1.2
8	☐			4582.91	0.0007	P	127.1

$$y = 8.8503E-004 * x + 8.0982E-006$$

$$R = 0.9999$$

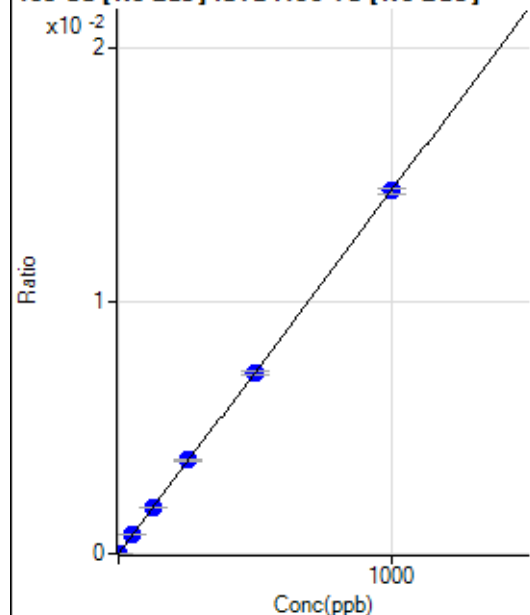
$$DL = 0.007145$$

$$BEC = 0.00915$$

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	6.67	0.0000	P	128.8
2	☐	1.000	0.875	95.56	0.0000	P	18.2
3	☐	50.000	54.093	5432.23	0.0008	P	2.4
4	☐	125.000	128.555	12807.12	0.0018	P	0.8
5	☐	250.000	257.119	24935.99	0.0037	P	2.2
6	☐	500.000	496.861	48375.73	0.0071	P	2.0
7	☐	1000.000	999.141	97513.19	0.0144	P	1.9
8	☐			148.90	0.0000	P	100.0

$$y = 1.4364\text{E-}005 * x + 9.6128\text{E-}007$$

$$R = 1.0000$$

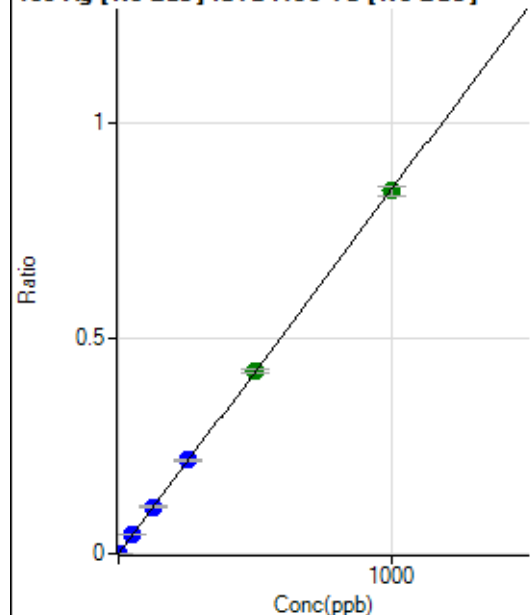
$$DL = 0.2587$$

$$BEC = 0.06692$$

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	34.44	0.0000	P	79.3
2	☐	1.000	0.962	5777.93	0.0008	P	4.6
3	☐	50.000	52.711	311733.73	0.0446	P	1.3
4	☐	125.000	129.054	757575.09	0.1093	P	1.0
5	☐	250.000	258.244	1476334.21	0.2187	P	2.0
6	☐	500.000	501.187	2877062.49	0.4245	A	2.5
7	☐	1000.000	996.703	5735029.84	0.8441	A	2.4
8	☐			4258.09	0.0007	P	126.1

$$y = 8.4690\text{E-}004 * x + 5.2261\text{E-}006$$

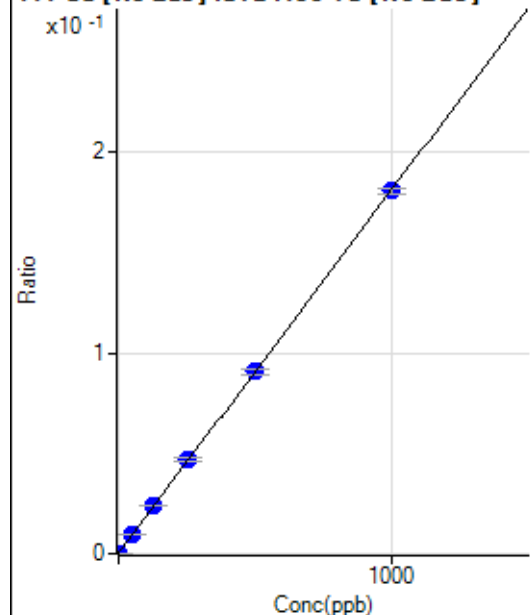
$$R = 1.0000$$

$$DL = 0.01468$$

$$BEC = 0.006171$$

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	1783.29	0.0003	P	1.4
2	☐	1.000	0.923	3025.93	0.0004	P	6.8
3	☐	50.000	52.446	68089.74	0.0098	P	1.5
4	☐	125.000	128.686	163214.44	0.0235	P	0.4
5	☐	250.000	257.554	316288.58	0.0469	P	3.3
6	☐	500.000	500.162	615030.52	0.0908	P	2.8
7	☐	1000.000	997.448	1227948.76	0.1807	P	1.7
8	☐			2436.25	0.0004	P	56.4

$$y = 1.8093\text{E-}004 * x + 2.6270\text{E-}004$$

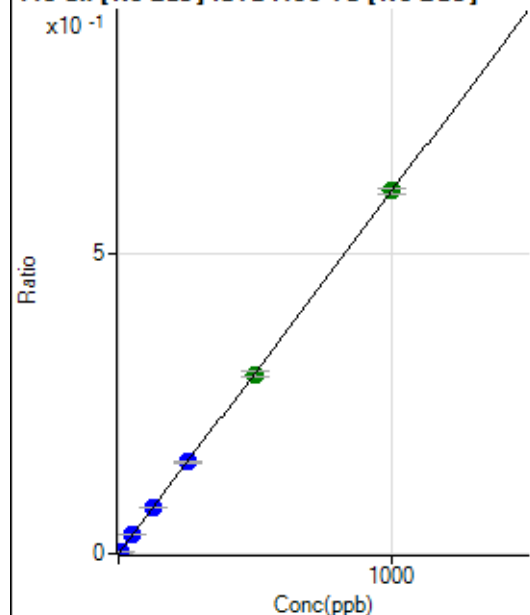
$$R = 1.0000$$

$$DL = 0.05979$$

$$BEC = 1.452$$

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	567.79	0.0001	P	9.8
2	☐	5.000	4.749	20808.10	0.0030	P	2.9
3	☐	50.000	51.091	216131.71	0.0310	P	2.0
4	☐	125.000	125.692	526987.28	0.0760	P	1.1
5	☐	250.000	254.087	1036898.77	0.1536	P	2.4
6	☐	500.000	494.710	2026387.47	0.2990	A	2.8
7	☐	1000.000	1001.484	4112167.40	0.6052	A	1.7
8	☐			6641.63	0.0010	P	64.9

$$y = 6.0426\text{E-}004 * x + 8.3897\text{E-}005$$

$$R = 1.0000$$

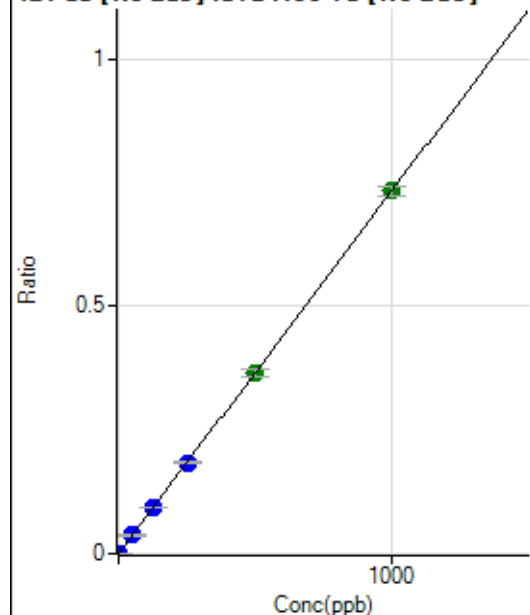
$$DL = 0.04094$$

$$BEC = 0.1388$$

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	63.33	0.0000	P	14.6
2	☐	2.000	1.881	9764.69	0.0014	P	2.7
3	☐	50.000	50.554	258416.72	0.0370	P	1.7
4	☐	125.000	125.773	638121.49	0.0921	P	1.2
5	☐	250.000	250.970	1240002.98	0.1837	P	2.2
6	☐	500.000	496.793	2463494.27	0.3636	A	4.2
7	☐	1000.000	1001.237	4978664.55	0.7329	A	2.7
8	☐			6614.41	0.0010	P	64.7

$$y = 7.3194\text{E-}004 * x + 9.2912\text{E-}006$$

$$R = 1.0000$$

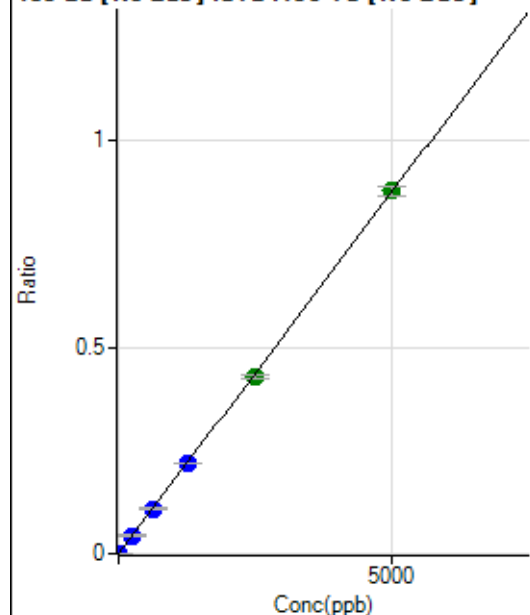
$$DL = 0.005548$$

$$BEC = 0.01269$$

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	91.11	0.0000	P	27.4
2	☐	10.000	9.225	11453.81	0.0016	P	4.4
3	☐	250.000	251.952	307601.68	0.0441	P	1.5
4	☐	625.000	623.531	755510.30	0.1090	P	1.4
5	☐	1250.000	1253.634	1479361.89	0.2192	P	1.7
6	☐	2500.000	2453.504	2906444.05	0.4289	A	2.7
7	☐	5000.000	5022.427	5964489.77	0.8779	A	2.6
8	☐			5913.64	0.0009	P	100.5

$$y = 1.7480\text{E-}004 * x + 1.3425\text{E-}005$$

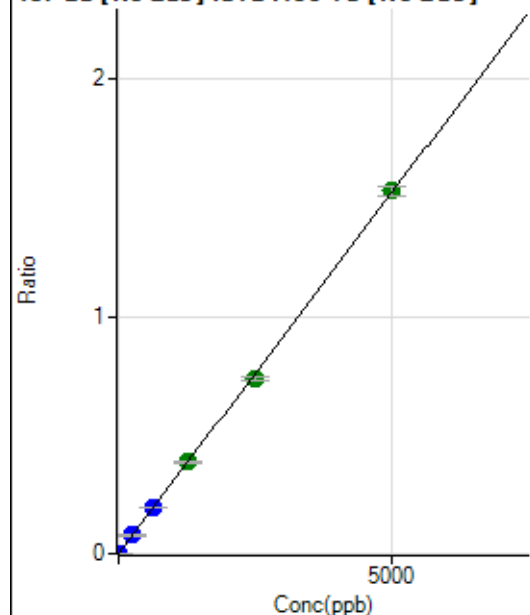
$$R = 0.9999$$

$$DL = 0.06305$$

$$BEC = 0.0768$$

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	46.66	0.0000	P	11.1
2	☐	10.000	9.647	20725.96	0.0029	P	3.0
3	☐	250.000	254.812	541178.84	0.0775	P	1.8
4	☐	625.000	635.768	1340383.53	0.1934	P	0.7
5	☐	1250.000	1275.063	2618204.56	0.3878	A	1.5
6	☐	2500.000	2425.057	4998253.30	0.7376	A	2.9
7	☐	5000.000	5029.620	10392785.75	1.5298	A	2.8
8	☐			10416.88	0.0016	P	95.4

$$y = 3.0416E-004 * x + 6.8738E-006$$

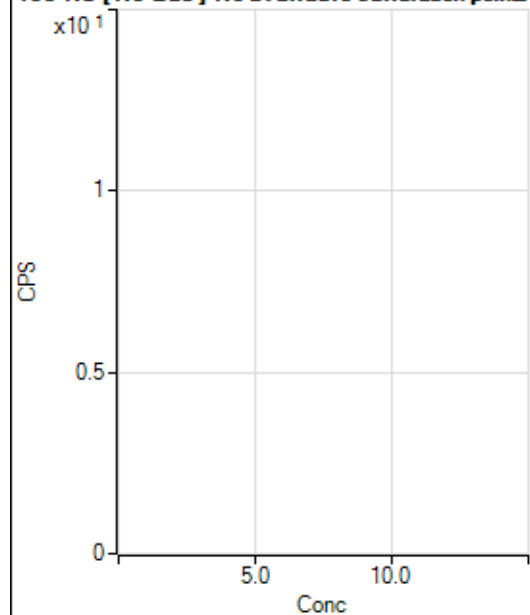
$$R = 0.9998$$

$$DL = 0.007546$$

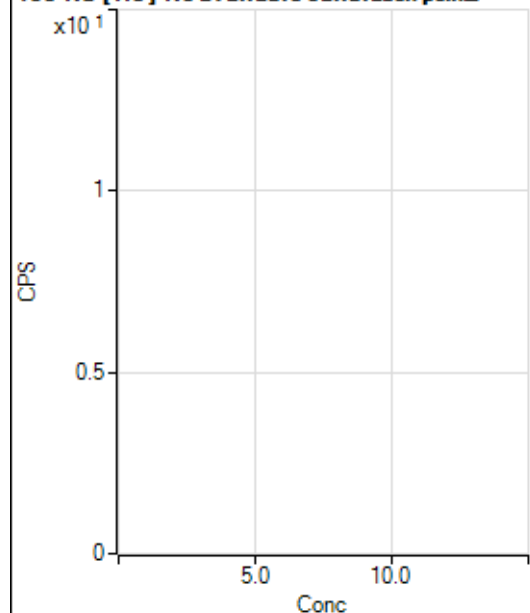
$$BEC = 0.0226$$

Weight: <None>

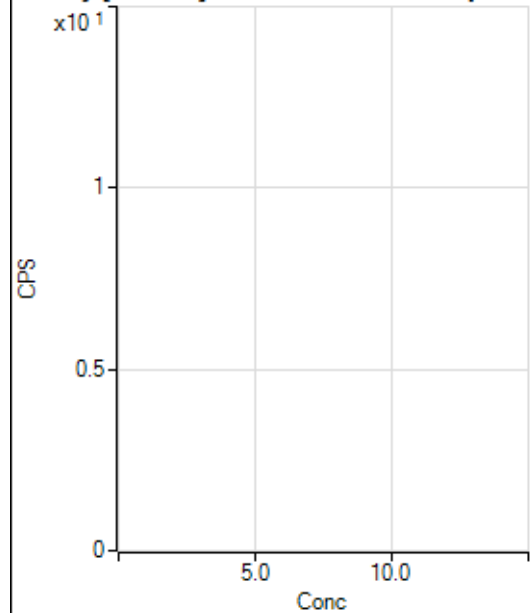
Min Conc: 0

150 Nd [No Gas] No available calibration points

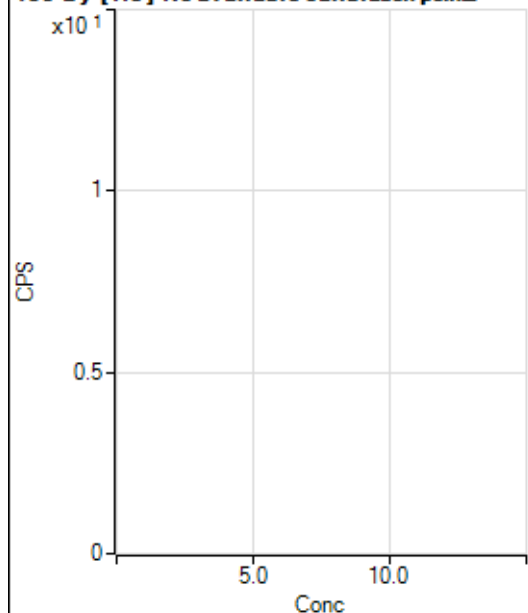
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	34.7
2	☐			8.89		P	94.4
3	☐			45.56		P	25.7
4	☐			65.56		P	19.2
5	☐			123.34		P	19.5
6	☐			246.67		P	18.9
7	☐			448.90		P	8.7
8	☐			121.11		P	17.9

150 Nd [He] No available calibration points

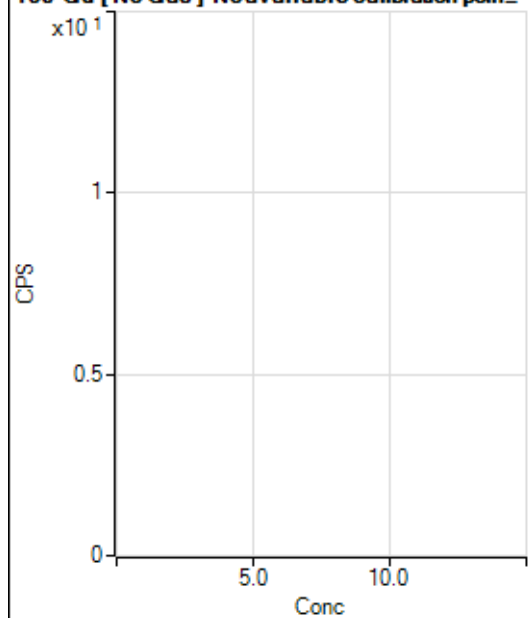
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			3.33		P	0.0
3	☐			4.44		P	173.2
4	☐			8.89		P	57.3
5	☐			25.56		P	45.8
6	☐			25.56		P	7.5
7	☐			54.44		P	15.4
8	☐			21.11		P	71.2

156 Dy [No Gas] No available calibration points

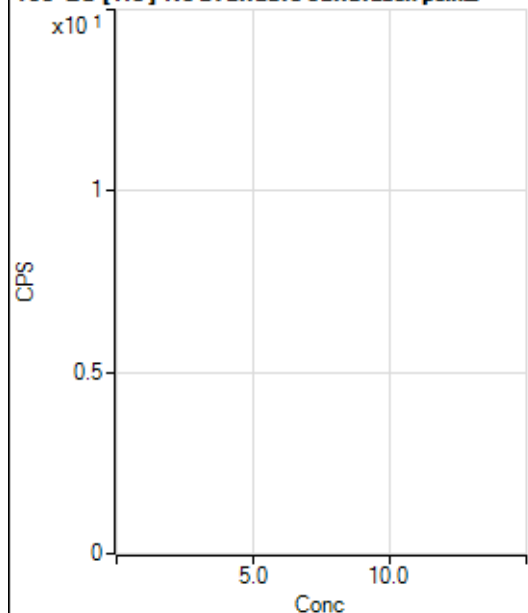
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14.44		P	87.4
2	☐			17.78		P	21.7
3	☐			32.22		P	48.9
4	☐			85.56		P	13.7
5	☐			123.33		P	15.0
6	☐			213.34		P	1.6
7	☐			451.12		P	5.5
8	☐			243.34		P	6.0

156 Dy [He] No available calibration points

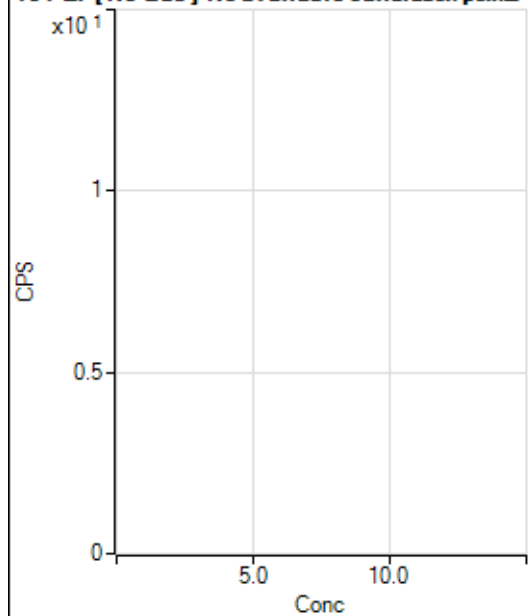
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.1
2	☐			1.11		P	173.2
3	☐			7.78		P	49.5
4	☐			28.89		P	6.7
5	☐			36.67		P	45.5
6	☐			102.22		P	24.5
7	☐			183.34		P	6.6
8	☐			90.00		P	19.6

160 Gd [No Gas] Noavailable calibration poin_

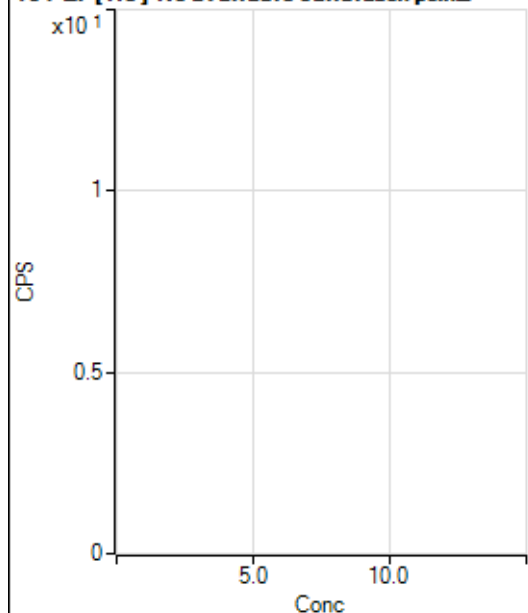
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			76.67		P	34.0
2	☐			91.11		P	27.5
3	☐			80.00		P	15.0
4	☐			128.89		P	19.6
5	☐			184.45		P	5.5
6	☐			218.89		P	9.9
7	☐			433.34		P	5.0
8	☐			233.34		P	4.9

160 Gd [He] No available calibration points

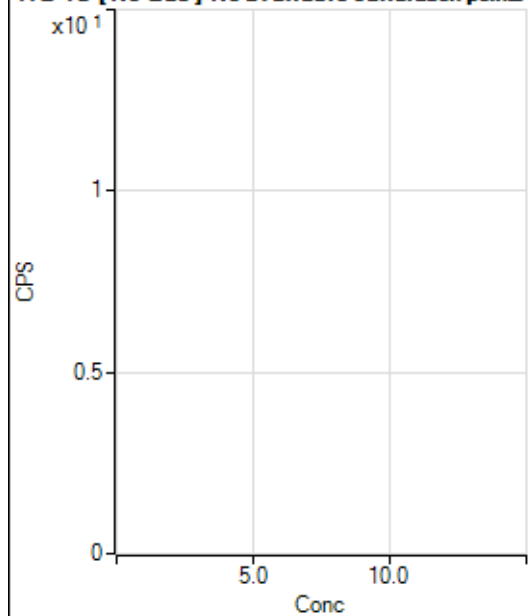
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			100.00		P	20.8
2	☐			94.45		P	19.4
3	☐			83.33		P	0.0
4	☐			96.67		P	6.0
5	☐			125.56		P	3.1
6	☐			125.56		P	16.2
7	☐			208.89		P	8.0
8	☐			162.22		P	30.5

164 Er [No Gas] No available calibration points

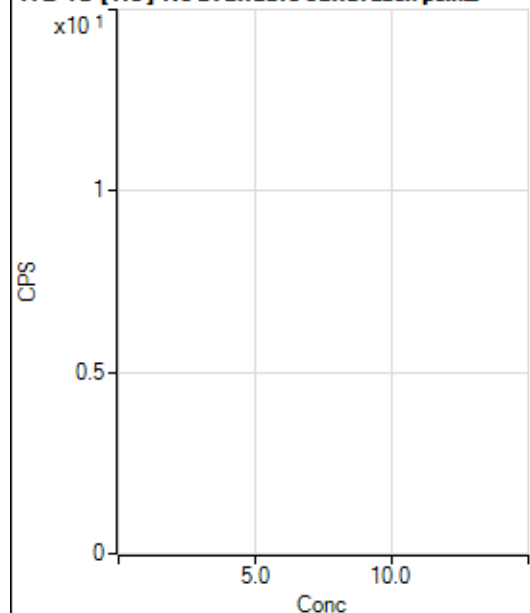
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			48.89		P	41.1
2	☐			54.44		P	15.4
3	☐			64.44		P	15.8
4	☐			77.78		P	10.8
5	☐			100.00		P	25.2
6	☐			116.67		P	17.4
7	☐			198.89		P	6.3
8	☐			246.67		P	8.2

164 Er [He] No available calibration points

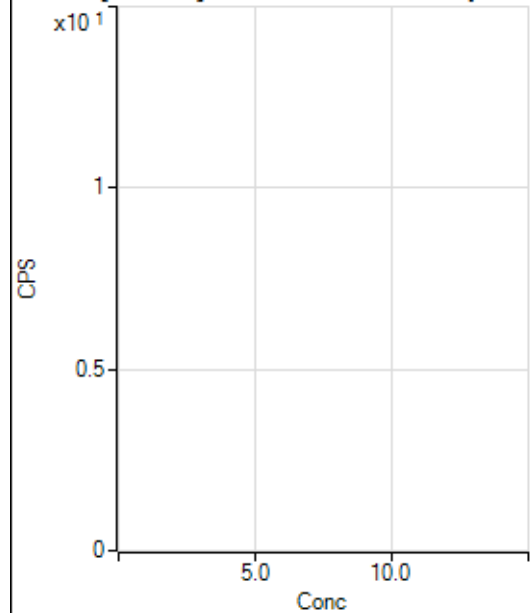
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14.44		P	35.3
2	☐			15.56		P	32.7
3	☐			13.33		P	50.0
4	☐			20.00		P	33.4
5	☐			25.55		P	41.9
6	☐			46.67		P	21.4
7	☐			67.78		P	12.4
8	☐			80.00		P	16.7

172 Yb [No Gas] No available calibration points

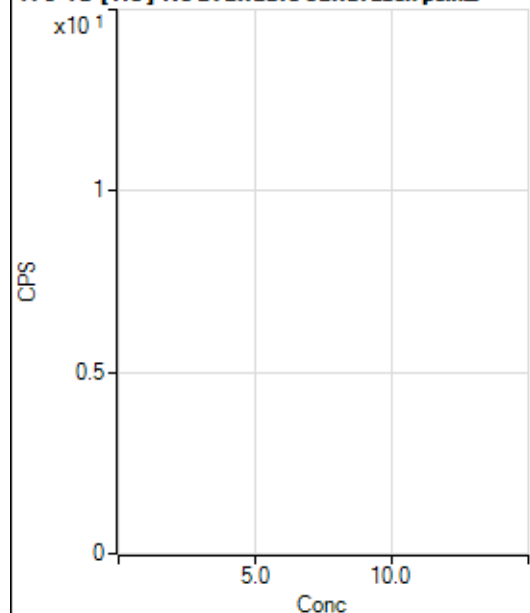
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.67		P	9.1
2	☐			43.34		P	48.0
3	☐			66.67		P	21.8
4	☐			62.22		P	8.2
5	☐			66.67		P	10.0
6	☐			122.23		P	8.3
7	☐			203.34		P	15.8
8	☐			262.23		P	11.1

172 Yb [He] No available calibration points

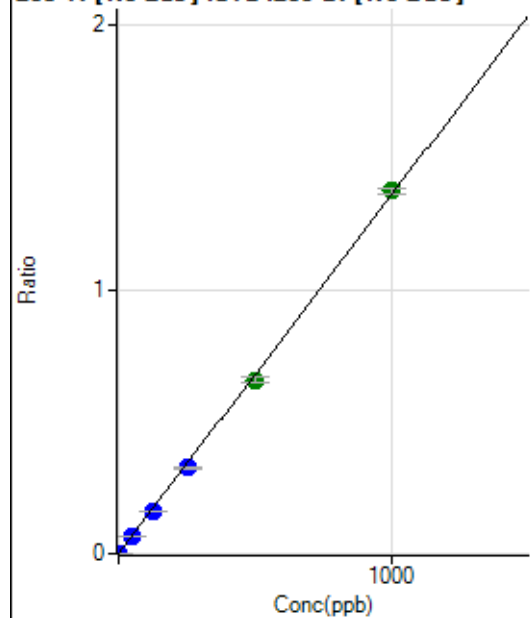
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15.56		P	12.4
2	☐			24.45		P	43.8
3	☐			11.11		P	69.3
4	☐			22.22		P	48.2
5	☐			22.22		P	22.9
6	☐			44.44		P	11.5
7	☐			74.44		P	6.8
8	☐			115.56		P	15.9

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1181.18		P	7.6
2	☐			1247.85		P	6.6
3	☐			2479.15		P	2.9
4	☐			4506.37		P	1.0
5	☐			7697.88		P	2.2
6	☐			14233.31		P	0.8
7	☐			27906.18		P	1.1
8	☐			1054.50		P	4.8

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8222.62		P	1.6
2	☐			8065.86		P	1.5
3	☐			8381.61		P	2.5
4	☐			8795.21		P	1.4
5	☐			9750.38		P	0.4
6	☐			11836.48		P	2.4
7	☐			16501.53		P	0.6
8	☐			8031.40		P	0.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	220.00	0.0000	P	14.9
2	☐	1.000	0.863	6021.45	0.0012	P	2.9
3	☐	50.000	46.003	317366.71	0.0626	P	1.4
4	☐	125.000	118.859	792699.31	0.1616	P	0.6
5	☐	250.000	238.933	1554700.62	0.3247	P	2.9
6	☐	500.000	484.731	3173607.49	0.6588	A	3.1
7	☐	1000.000	1011.369	6416114.35	1.3745	A	1.8
8	☐			4977.08	0.0012	P	93.7

$$y = 0.0014 * x + 4.5310E-005$$

$$R = 0.9998$$

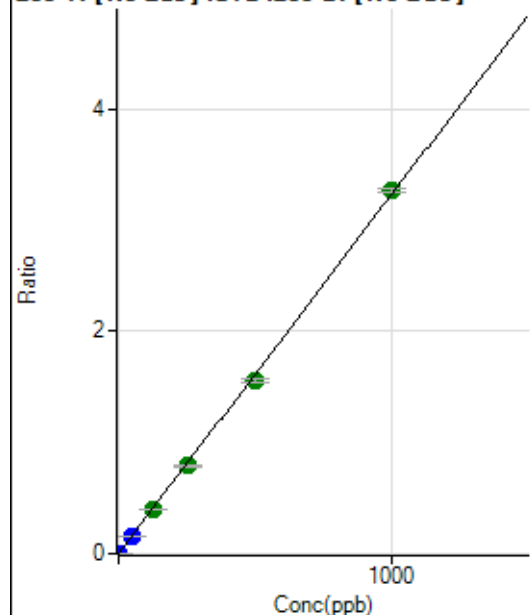
$$DL = 0.01491$$

$$BEC = 0.03334$$

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	505.57	0.0001	P	6.1
2	☐	1.000	0.881	14570.48	0.0029	P	3.1
3	☐	50.000	46.688	765272.82	0.1509	P	2.1
4	☐	125.000	122.790	1945847.16	0.3966	A	1.9
5	☐	250.000	244.630	3782606.26	0.7901	A	2.7
6	☐	500.000	482.446	7506909.12	1.5581	A	2.2
7	☐	1000.000	1010.562	15234094.63	3.2635	A	1.1
8	☐			13564.60	0.0032	P	103.0

$$y = 0.0032 * x + 1.0389E-004$$

$$R = 0.9998$$

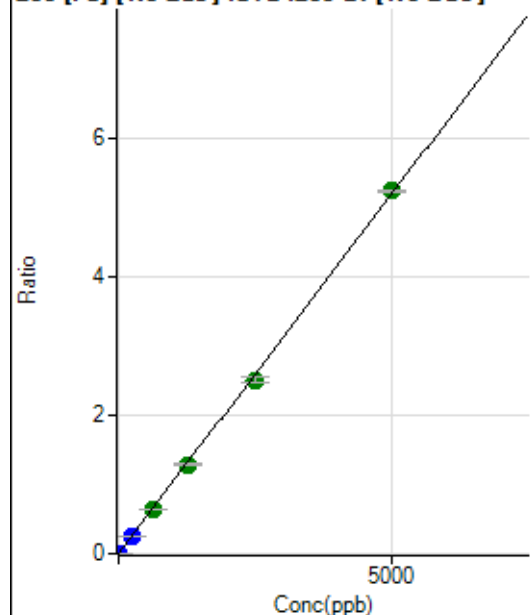
$$DL = 0.005879$$

$$BEC = 0.03217$$

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	817.81	0.0002	P	7.2
2	☐	1.000	0.931	5615.72	0.0011	P	3.3
3	☐	250.000	235.423	1243362.01	0.2451	P	2.0
4	☐	625.000	622.419	3178381.76	0.6478	A	1.4
5	☐	1250.000	1240.195	6178987.48	1.2906	A	2.4
6	☐	2500.000	2417.218	12116950.93	2.5153	A	3.4
7	☐	5000.000	5044.894	24503595.47	5.2494	A	0.5
8	☐			25151.34	0.0060	P	108.3

$$y = 0.0010 * x + 1.6810E-004$$

$$R = 0.9998$$

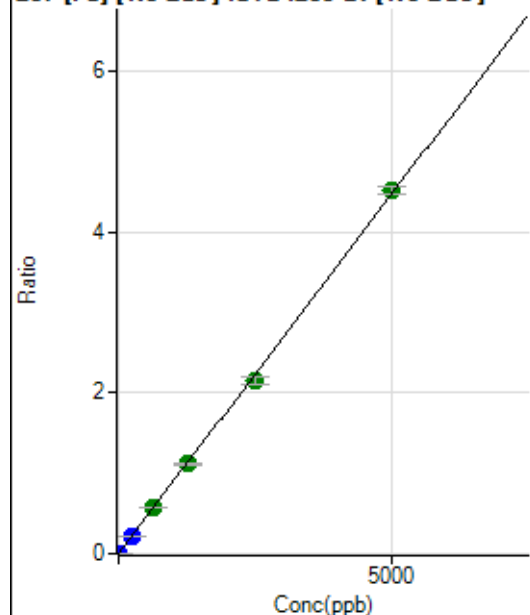
$$DL = 0.03505$$

$$BEC = 0.1616$$

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	635.58	0.0001	P	4.1
2	☐	1.000	0.984	4987.68	0.0010	P	3.5
3	☐	250.000	239.429	1085320.48	0.2140	P	1.6
4	☐	625.000	633.322	2775569.06	0.5657	A	1.0
5	☐	1250.000	1245.726	5327120.06	1.1127	A	2.3
6	☐	2500.000	2404.856	10346067.28	2.1479	A	3.8
7	☐	5000.000	5048.129	21044131.77	4.5085	A	2.0
8	☐			23176.92	0.0055	P	109.2

$$y = 8.9308\text{E-}004 * x + 1.3045\text{E-}004$$

$$R = 0.9997$$

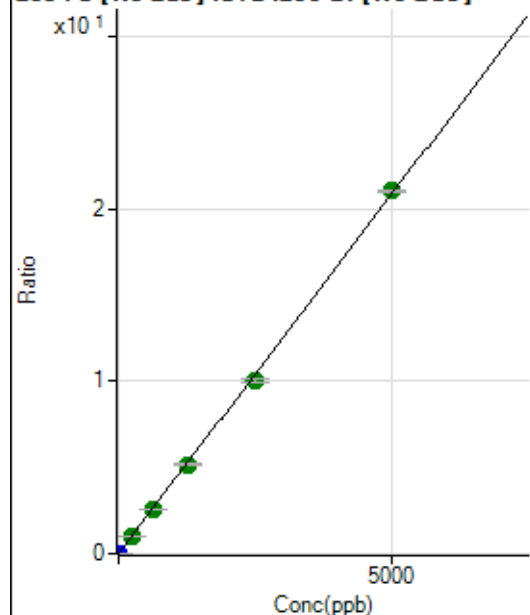
$$DL = 0.01778$$

$$BEC = 0.1461$$

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	3210.20	0.0007	P	6.9
2	☐	1.000	0.944	22722.49	0.0046	P	1.7
3	☐	250.000	240.460	5088904.88	1.0032	A	1.8
4	☐	625.000	621.879	12724049.12	2.5935	A	1.2
5	☐	1250.000	1233.293	24623216.37	5.1428	A	1.9
6	☐	2500.000	2410.201	48415358.10	10.0498	A	2.8
7	☐	5000.000	5049.943	98284134.79	21.0559	A	0.8
8	☐			108265.43	0.0259	P	110.9

$$y = 0.0042 * x + 6.5984\text{E-}004$$

$$R = 0.9998$$

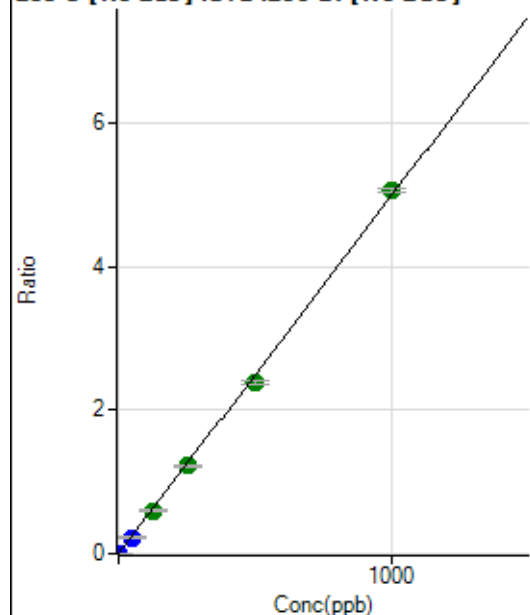
$$DL = 0.03261$$

$$BEC = 0.1583$$

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	52.22	0.0000	P	52.4
2	☐	1.000	0.837	20671.35	0.0042	P	3.5
3	☐	50.000	45.481	1149745.94	0.2267	P	1.4
4	☐	125.000	120.771	2952767.25	0.6018	A	0.7
5	☐	250.000	245.131	5848853.87	1.2216	A	1.9
6	☐	500.000	476.960	11451204.55	2.3768	A	2.5
7	☐	1000.000	1013.492	23574904.09	5.0506	A	1.2
8	☐			27216.04	0.0065	P	130.6

$$y = 0.0050 * x + 1.0816E-005$$

$$R = 0.9996$$

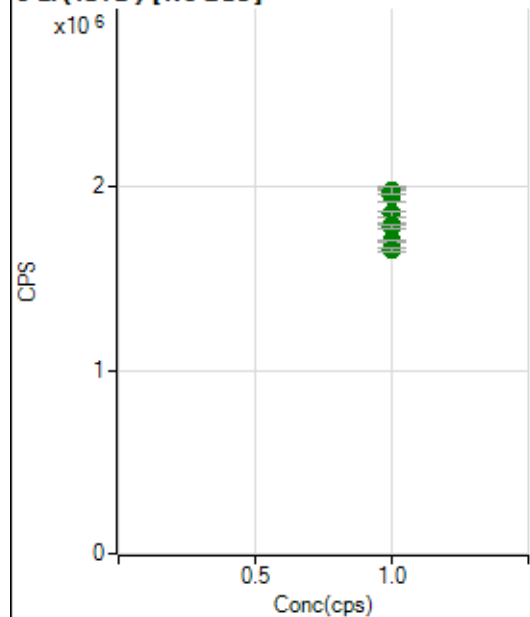
$$DL = 0.003411$$

$$BEC = 0.00217$$

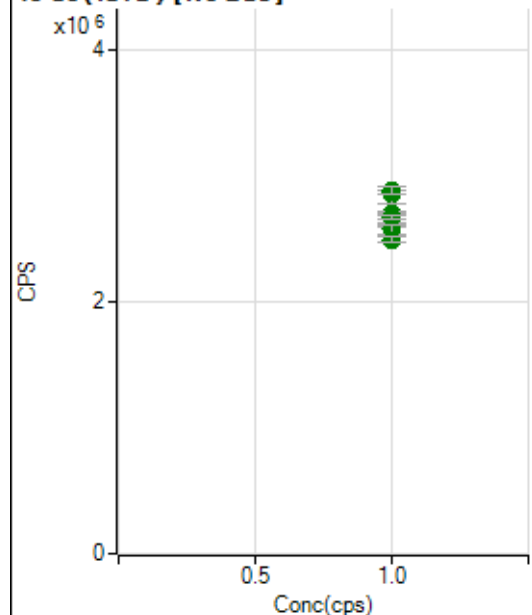
Weight: <None>

Min Conc: 0

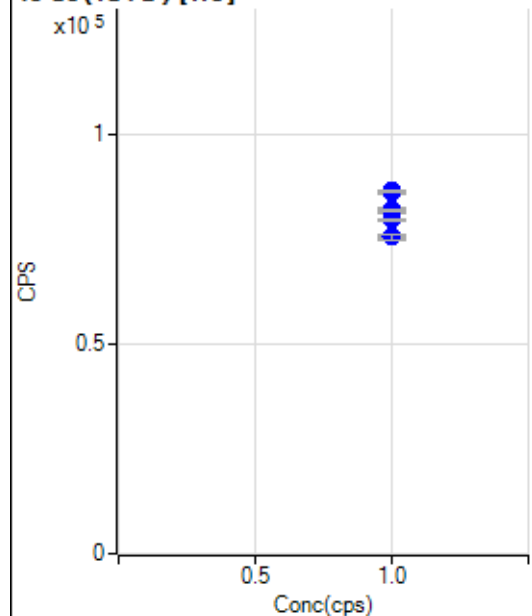
6 Li (ISTD) [No Gas]



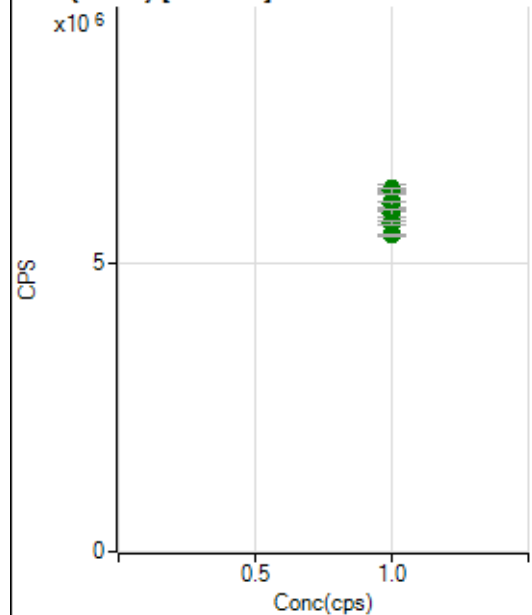
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1951970.75		A	3.8
2	☐	1.000		1968191.27		A	1.2
3	☐	1.000		1976075.47		A	2.2
4	☐	1.000		1849044.68		A	1.2
5	☐	1.000		1786718.70		A	1.9
6	☐	1.000		1779429.19		A	1.4
7	☐	1.000		1705184.73		A	0.4
8	☐	1.000		1653911.23		A	1.1

45 Sc (ISTD) [No Gas]

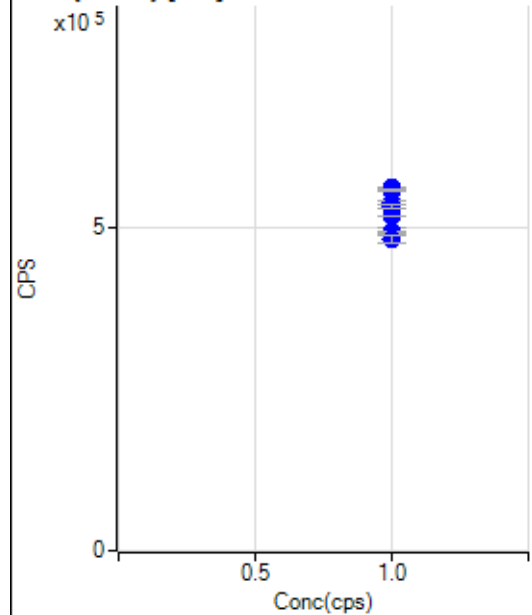
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2842889.75		A	4.4
2	☐	1.000		2870336.94		A	0.9
3	☐	1.000		2874954.33		A	2.2
4	☐	1.000		2704647.84		A	0.9
5	☐	1.000		2610680.78		A	1.1
6	☐	1.000		2669144.68		A	1.0
7	☐	1.000		2572702.86		A	3.0
8	☐	1.000		2490576.39		A	1.4

45 Sc (ISTD) [He]

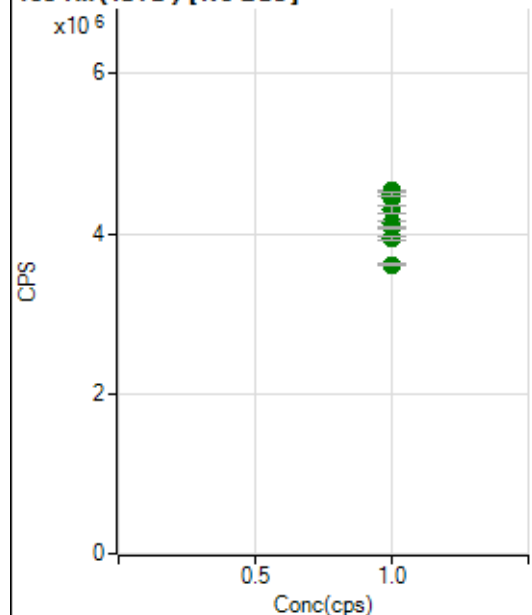
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		86257.85		P	1.5
2	☐	1.000		86563.00		P	0.4
3	☐	1.000		81854.72		P	1.3
4	☐	1.000		79617.78		P	0.4
5	☐	1.000		75859.80		P	0.8
6	☐	1.000		75672.23		P	1.0
7	☐	1.000		75529.31		P	1.8
8	☐	1.000		81999.08		P	0.3

89 Y (ISTD) [No Gas]

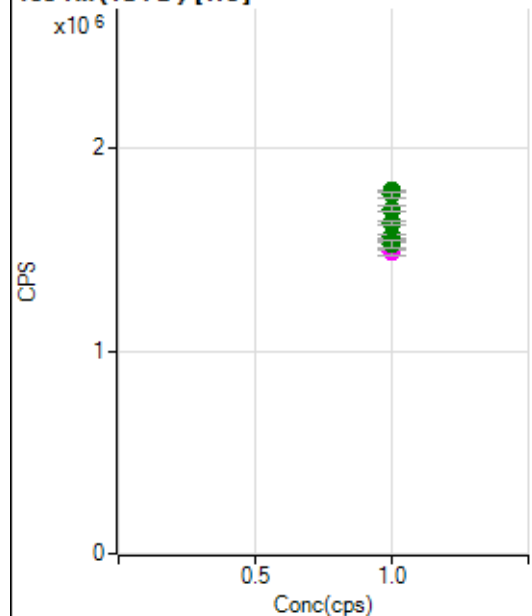
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6073460.88		A	5.8
2	☐	1.000		6282063.93		A	2.1
3	☐	1.000		6249383.59		A	1.6
4	☐	1.000		6012458.87		A	1.2
5	☐	1.000		5859424.84		A	1.9
6	☐	1.000		5845165.40		A	2.2
7	☐	1.000		5689905.61		A	1.5
8	☐	1.000		5478237.94		A	0.8

89 Y (ISTD) [He]

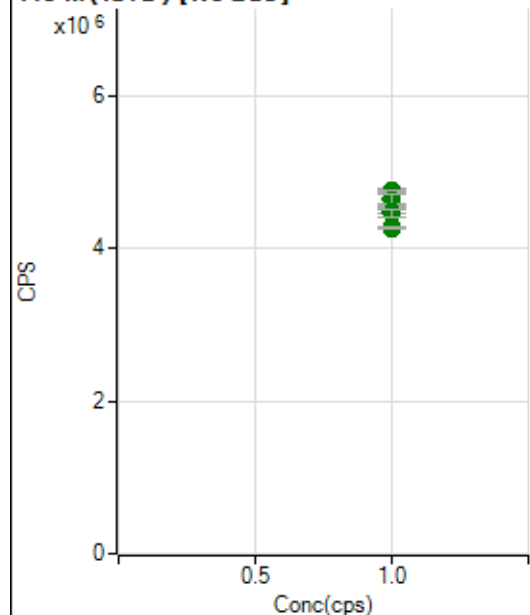
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		562050.16		P	0.3
2	☐	1.000		558187.81		P	0.7
3	☐	1.000		539805.94		P	0.8
4	☐	1.000		518842.39		P	0.1
5	☐	1.000		495897.87		P	1.6
6	☐	1.000		493494.47		P	0.5
7	☐	1.000		482207.11		P	2.4
8	☐	1.000		533757.79		P	0.9

103 Rh (ISTD) [No Gas]

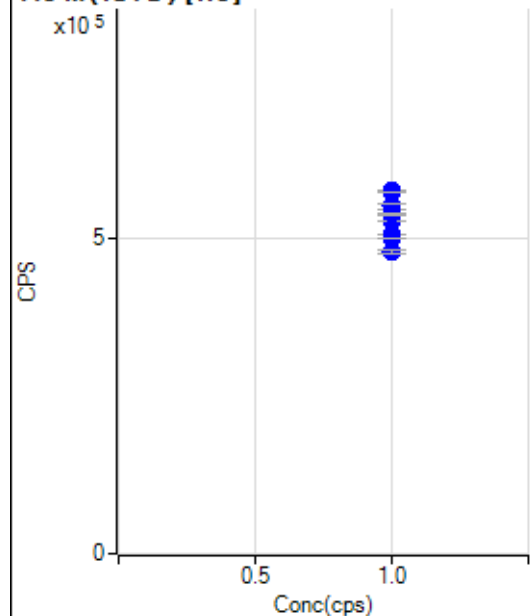
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4442284.10		A	4.5
2	☐	1.000		4535337.36		A	0.8
3	☐	1.000		4498638.54		A	0.9
4	☐	1.000		4295633.79		A	2.2
5	☐	1.000		4128383.52		A	1.7
6	☐	1.000		4075128.34		A	0.7
7	☐	1.000		3936165.36		A	1.3
8	☐	1.000		3614507.97		A	0.4

103 Rh (ISTD) [He]

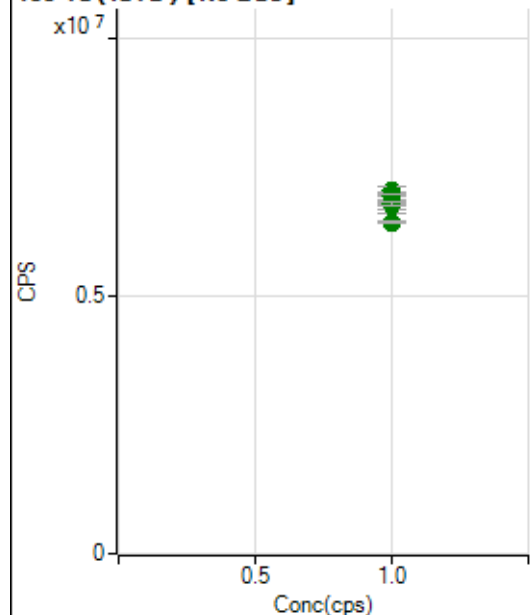
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1790346.54		A	0.7
2	☐	1.000		1770790.25		A	1.2
3	☐	1.000		1702550.18		A	1.3
4	☐	1.000		1631351.26		A	1.2
5	☐	1.000		1566838.03		A	1.3
6	☐	1.000		1539777.46		A	0.7
7	☐	1.000		1485862.29		M	2.4
8	☐	1.000		1524399.91		A	2.5

115 In (ISTD) [No Gas]

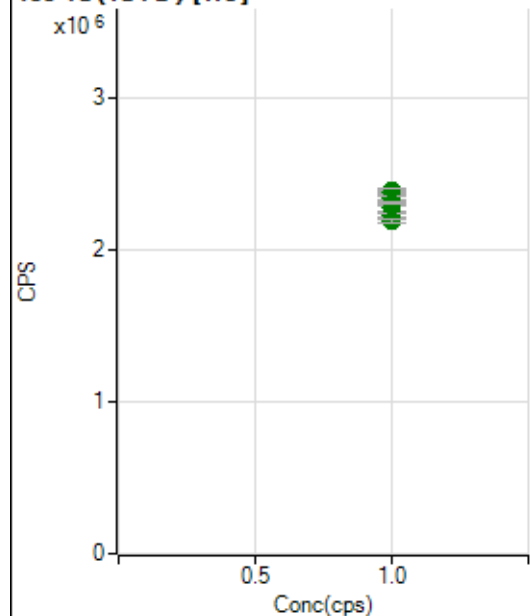
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4653740.28		A	4.5
2	☐	1.000		4747737.24		A	1.5
3	☐	1.000		4750779.13		A	0.6
4	☐	1.000		4644281.53		A	2.5
5	☐	1.000		4491881.76		A	1.7
6	☐	1.000		4454286.65		A	1.9
7	☐	1.000		4270904.89		A	0.8
8	☐	1.000		4266305.61		A	1.0

115 In (ISTD) [He]

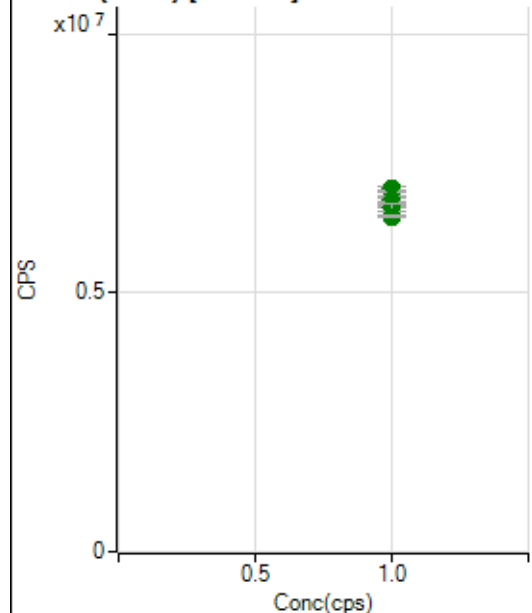
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		576784.40		P	0.5
2	☐	1.000		574141.26		P	0.3
3	☐	1.000		552251.92		P	1.3
4	☐	1.000		528333.38		P	0.3
5	☐	1.000		507607.79		P	0.3
6	☐	1.000		501692.53		P	0.3
7	☐	1.000		480513.61		P	1.5
8	☐	1.000		540309.18		P	0.8

159 Tb (ISTD) [No Gas]

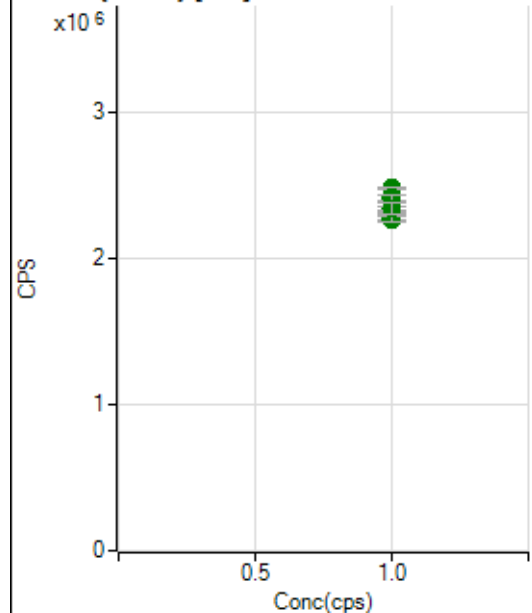
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6791043.99		A	5.8
2	☐	1.000		7048349.62		A	2.1
3	☐	1.000		6982994.20		A	1.2
4	☐	1.000		6931637.12		A	1.4
5	☐	1.000		6751720.73		A	1.8
6	☐	1.000		6779541.91		A	2.5
7	☐	1.000		6795329.34		A	1.5
8	☐	1.000		6432141.99		A	0.7

159 Tb (ISTD) [He]

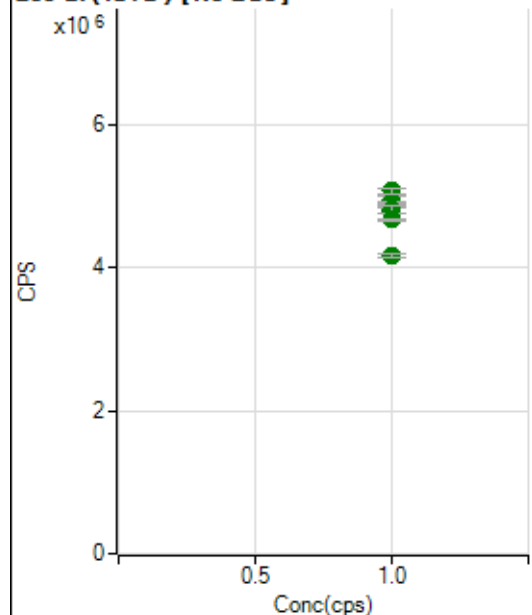
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2393213.89		A	0.5
2	☐	1.000		2389722.32		A	1.5
3	☐	1.000		2346189.71		A	0.6
4	☐	1.000		2279596.84		A	1.5
5	☐	1.000		2234389.07		A	1.8
6	☐	1.000		2232015.66		A	1.3
7	☐	1.000		2194427.68		A	1.5
8	☐	1.000		2309566.30		A	0.6

165 Ho (ISTD) [No Gas]

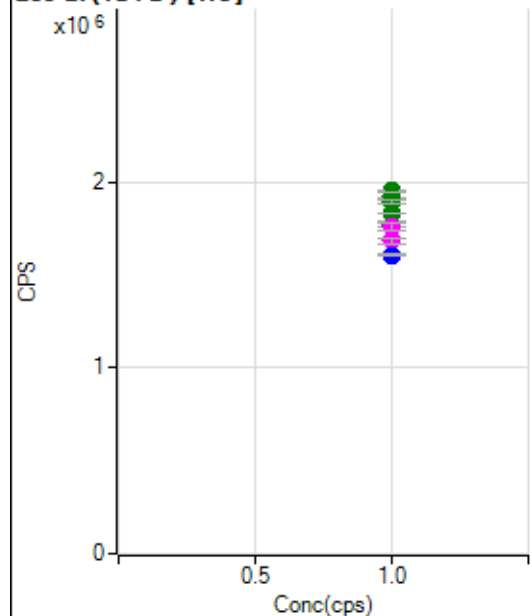
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6811166.78		A	4.8
2	☐	1.000		7005045.24		A	1.9
3	☐	1.000		6964419.55		A	0.6
4	☐	1.000		6886761.57		A	2.1
5	☐	1.000		6781885.10		A	2.9
6	☐	1.000		6747038.58		A	0.7
7	☐	1.000		6639829.62		A	2.1
8	☐	1.000		6468027.06		A	0.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2478124.32		A	0.2
2	☐	1.000		2414713.18		A	1.8
3	☐	1.000		2403746.65		A	2.5
4	☐	1.000		2330998.70		A	1.5
5	☐	1.000		2276196.04		A	1.4
6	☐	1.000		2321991.11		A	0.5
7	☐	1.000		2262814.22		A	2.0
8	☐	1.000		2336960.17		A	3.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4876347.70		A	5.1
2	☐	1.000		4943346.70		A	2.0
3	☐	1.000		5073240.13		A	1.3
4	☐	1.000		4906296.59		A	0.6
5	☐	1.000		4788976.80		A	1.7
6	☐	1.000		4819551.11		A	2.2
7	☐	1.000		4667858.82		A	0.4
8	☐	1.000		4168226.95		A	0.9

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1954891.99		A	0.6
2	☐	1.000		1931309.80		A	1.2
3	☐	1.000		1899142.63		A	0.9
4	☐	1.000		1834706.45		A	0.1
5	☐	1.000		1775526.52		A	1.7
6	☐	1.000		1764128.36		M	2.5
7	☐	1.000		1686061.52		M	1.7
8	☐	1.000		1609764.13		P	0.5

US EPA Tune Check Report

Operator Name

Jaswal

Acq/Data Batch

D:\Agilent\ICPMH\1\DATA\IP8032824-MS.b

Acq. Date-Time

2024-03-28 09:31:00

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		6665	66645.66			1.542	5.000
24		43130	431295.10			1.936	5.000
25		5754	57538.40			1.953	5.000
26		6661	66609.19			2.098	5.000
59		44728	447282.83			1.607	5.000
113		6156	61557.63			1.554	5.000
115		77612	776120.60			1.846	5.000
206		23326	233257.01			1.732	5.000
207		21204	212037.58			2.298	5.000
208		50595	505948.07			2.326	5.000
220		0	1.90			34.312	

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

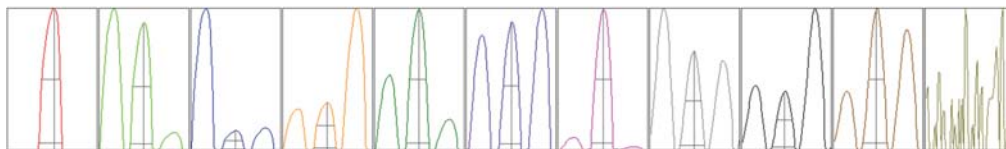
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	6699	6517	6649	6803	6656
24	43398	41815	43002	44093	43340
25	5791	5581	5741	5892	5764
26	6716	6449	6618	6825	6696
59	45004	43647	44422	45521	45048
113	6250	6018	6134	6244	6134
115	78628	75853	76949	79467	77163
206	23392	22751	23136	23813	23538
207	21289	20451	21114	21785	21380
208	50330	48863	50420	51886	51476

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	11619.21	9.10	8.90 - 9.10	
24	77247.70	24.00	23.90 - 24.10	
25	10422.17	25.00	24.90 - 25.10	
26	12053.05	26.00	25.90 - 26.10	
59	84536.27	59.00	58.90 - 59.10	
113	12417.53	113.05	112.90 - 113.10	
115	153719.79	115.05	114.90 - 115.10	
206	45193.89	206.00	205.90 - 206.10	
207	41129.94	206.95	206.90 - 207.10	
208	98499.63	207.95	207.90 - 208.10	
220	0.00	219.80	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.778	0.900	
24	0.59	0.740	0.900	
25	0.58	0.751	0.900	
26	0.59	0.739	0.900	
59	0.55	0.774	0.900	
113	0.51	0.730	0.900	
115	0.53	0.729	0.900	
206	0.52	0.817	0.900	
207	0.52	0.777	0.900	
208	0.52	0.808	0.900	
220	0.25	0.250		

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	9.4 V	Deflect	14.2 V
Extract 2	-190.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-105 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	150 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.8 mm
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EM

Discriminator	4.5 mV	Analog HV	2314 V	Pulse HV	1707 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		9335	93349.42			2.551	
89		5414	54135.57			2.277	
205		13986	139862.90			2.030	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	9442	8918	9360	9470	9485
89	5493	5195	5456	5462	5462
205	14135	13529	14076	14268	13922

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	9.4 V	Deflect	3.2 V
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US EPA Tune Check Report

Extract 2	-190.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-105 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	190 V		
QP Parameters					
Mass Gain	123	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.03		
Hardware Settings					
Torch					
Torch H	1.0 mm	Torch V	-0.8 mm		
EM					
Discriminator	4.5 mV	Analog HV	2314 V	Pulse HV	1707 V