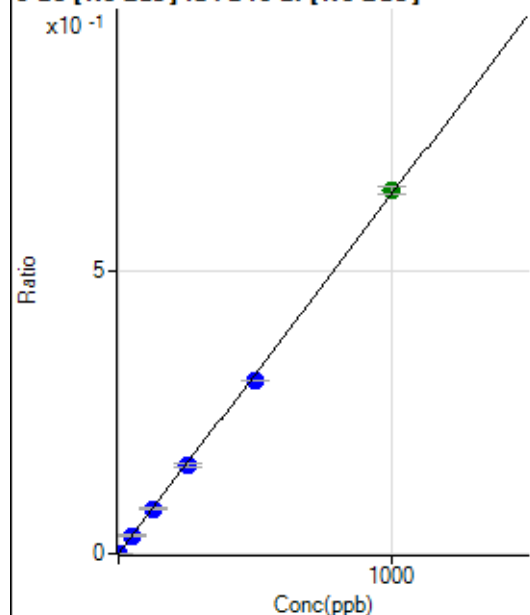


Calibration for 011CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8070624-MS.b\
 Analysis File: P8070624-MS.batch.bin
 DA Date-Time: 2024-07-06 20:51:35
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-07-06 13:34:22
2	008CALS.d	S02	2024-07-06 13:47:22
3	009CALS.d	S03	2024-07-06 13:50:44
4	011CALS.d	S04	2024-07-06 13:57:12
5	012CALS.d	S05	2024-07-06 14:00:16
6	013CALS.d	S06	2024-07-06 14:03:17
7	014CALS.d	S07	2024-07-06 14:06:21
8	015CALS.d	S08	2024-07-06 14:09:23

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	59.16	0.0000	P	10.1
2	☐	1.000	0.986	2001.56	0.0006	P	1.1
3	☐	50.000	50.251	97590.43	0.0319	P	4.6
4	☐	125.000	124.072	244418.62	0.0787	P	4.0
5	☐	250.000	246.903	485015.05	0.1566	P	3.5
6	☐	500.000	481.963	948894.54	0.3056	P	0.3
7	☐	1000.000	1009.896	1966326.29	0.6404	A	2.2
8	☐			432.88	0.0002	P	23.6

$$y = 6.3413E-004 * x + 1.9049E-005$$

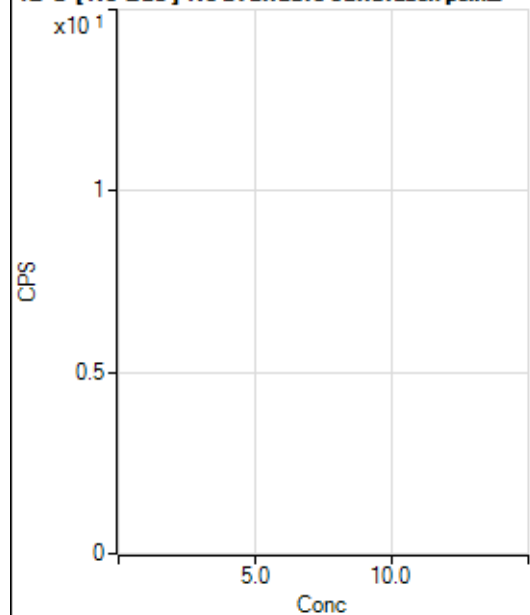
$$R = 0.9998$$

$$DL = 0.009076$$

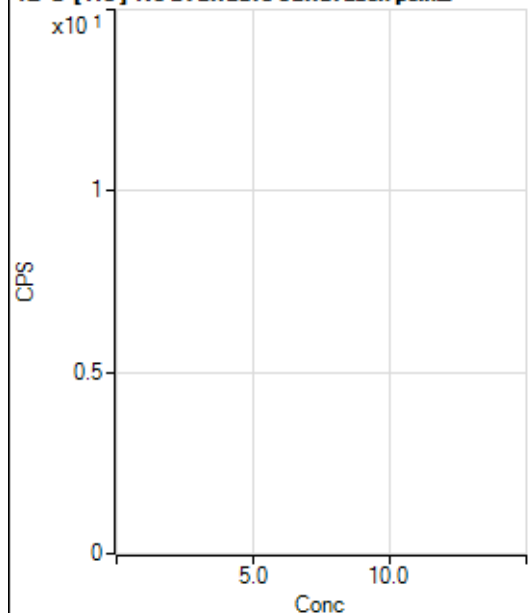
$$BEC = 0.03004$$

Weight: <None>

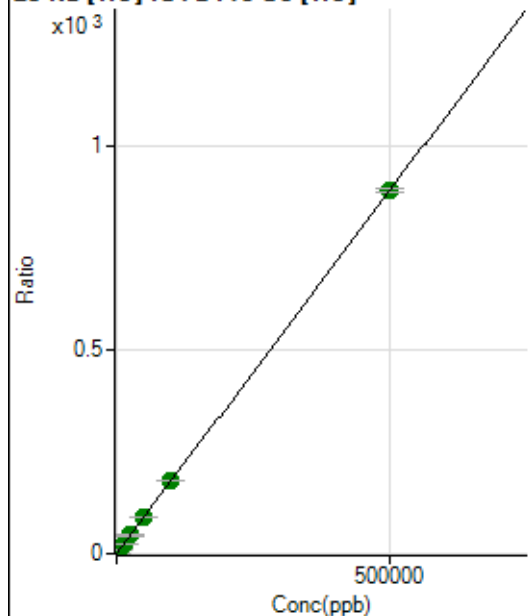
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2965572.67		A	1.1
2	☐			3222407.66		A	2.2
3	☐			3259173.01		A	2.5
4	☐			3414161.10		A	1.6
5	☐			3438933.80		A	5.2
6	☐			3549392.62		A	1.9
7	☐			3874838.55		A	3.9
8	☐			3456928.39		A	1.4

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			32910.21		P	1.0
2	☐			36856.18		P	1.3
3	☐			36828.32		P	0.6
4	☐			38999.47		P	0.5
5	☐			39202.29		P	2.1
6	☐			40980.30		P	0.9
7	☐			46186.88		P	1.4
8	☐			44481.55		P	0.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25372.10	0.1547	P	1.2
2	☐	500.000	453.657	157239.36	0.9610	P	1.3
3	☐	5000.000	4990.923	1487609.63	9.0255	A	2.0
4	☐	12500.000	12626.652	3634648.70	22.5971	A	2.0
5	☐	25000.000	25257.057	7283359.33	45.0462	A	2.0
6	☐	50000.000	49780.364	14314514.23	88.6335	A	2.0
7	☐	100000.00	100148.62	28423125.13	178.1572	A	1.6
8	☐	500000.00	499976.35	140615607.9	888.8042	A	1.0

$$y = 0.0018 * x + 0.1547$$

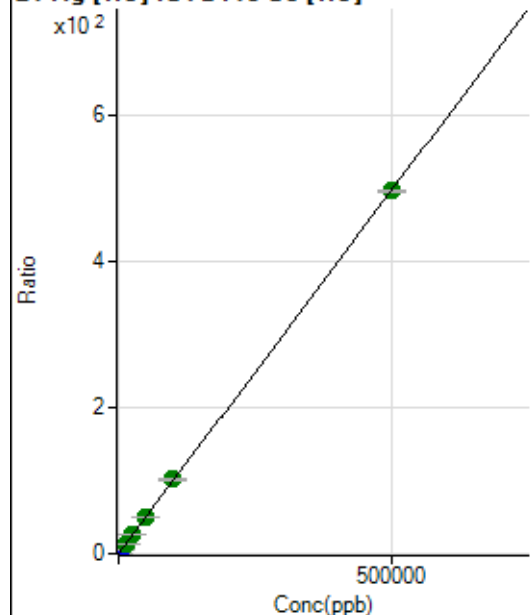
$$R = 1.0000$$

$$DL = 3.076$$

$$BEC = 87.04$$

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	245.56	0.0015	P	10.6
2	☐	500.000	459.391	74827.52	0.4573	P	1.6
3	☐	5000.000	5006.134	818920.31	4.9691	P	0.9
4	☐	12500.000	13135.456	2096814.71	13.0357	A	1.9
5	☐	25000.000	26140.545	4194453.55	25.9406	A	1.7
6	☐	50000.000	50556.762	8101554.25	50.1686	A	1.1
7	☐	100000.00	102343.60	16203287.26	101.5564	A	1.7
8	☐	500000.00	499402.66	78400422.16	495.5555	A	0.8

$$y = 9.9229\text{E-}004 * x + 0.0015$$

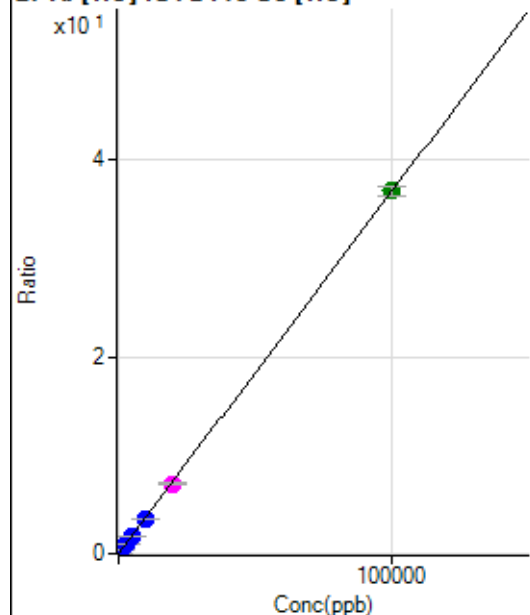
$$R = 1.0000$$

$$DL = 0.4801$$

$$BEC = 1.51$$

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	91.11	0.0006	P	8.5
2	☐	20.000	18.422	1198.95	0.0073	P	3.4
3	☐	1000.000	946.994	57451.84	0.3486	P	0.2
4	☐	2500.000	2431.706	143848.73	0.8943	P	0.3
5	☐	5000.000	4772.465	283711.82	1.7545	P	0.7
6	☐	10000.000	9446.465	560728.82	3.4723	P	0.8
7	☐	20000.000	19218.255	1126913.30	7.0637	M	2.1
8	☐	100000.00	100225.31	5827198.59	36.8355	A	2.4

$$y = 3.6752\text{E-}004 * x + 5.5580\text{E-}004$$

$$R = 1.0000$$

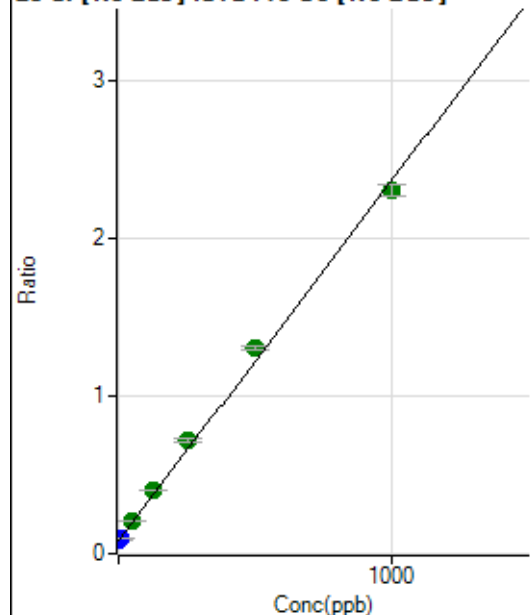
$$DL = 0.3842$$

$$BEC = 1.512$$

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	400289.73	0.0806	P	2.2
2	☐	10.000	5.532	463407.69	0.0933	P	2.6
3	☐	50.000	56.575	1039350.52	0.2097	A	0.9
4	☐	125.000	140.182	2004258.18	0.4005	A	0.6
5	☐	250.000	279.856	3506999.74	0.7193	A	3.3
6	☐	500.000	536.072	6438233.66	1.3039	A	1.7
7	☐	1000.000	972.318	11449708.72	2.2994	A	3.3
8	☐			1002951.22	0.2145	P	2.5

$$y = 0.0023 * x + 0.0806$$

$$R = 0.9984$$

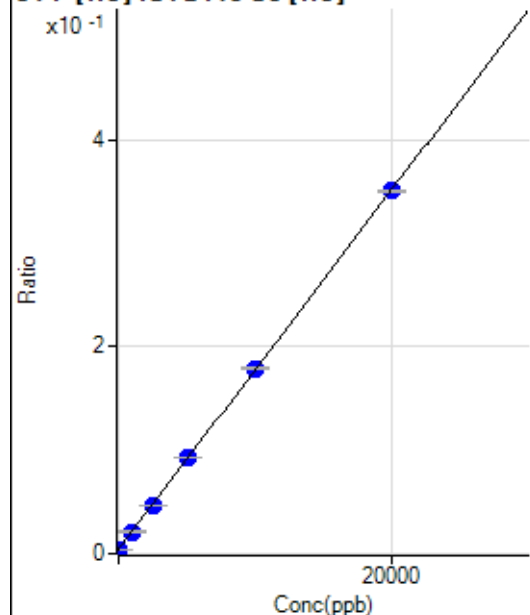
$$DL = 2.312$$

$$BEC = 35.34$$

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	-15.302	642.24	0.0039	P	5.0
2	☐	0.000	15.302	727.80	0.0044	P	8.5
3	☐	1000.000	985.004	3504.90	0.0213	P	5.0
4	☐	2500.000	2465.307	7552.03	0.0470	P	1.6
5	☐	5000.000	5124.857	15053.46	0.0931	P	1.2
6	☐	10000.000	10037.209	28793.12	0.1783	P	1.0
7	☐	20000.000	19955.268	55900.54	0.3504	P	0.7
8	☐			668.91	0.0042	P	3.6

$$y = 1.7348E-005 * x + 0.0042$$

$$R = 1.0000$$

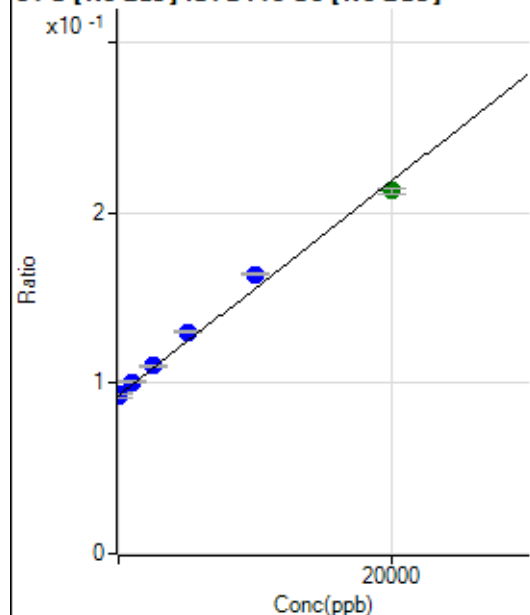
$$DL = 49.68$$

$$BEC = 241.1$$

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	32.084	462183.85	0.0931	P	3.3
2	☐	0.000	-32.084	460709.10	0.0927	P	2.6
3	☐	1000.000	1274.348	500047.32	0.1009	P	1.5
4	☐	2500.000	2727.340	550725.24	0.1101	P	1.2
5	☐	5000.000	5945.741	635417.11	0.1303	P	1.5
6	☐	10000.000	11288.029	809235.47	0.1639	P	1.0
7	☐	20000.000	19077.415	1059973.67	0.2129	A	1.4
8	☐			421653.48	0.0902	P	0.3

$$y = 6.2870E-006 * x + 0.0929$$

$$R = 0.9955$$

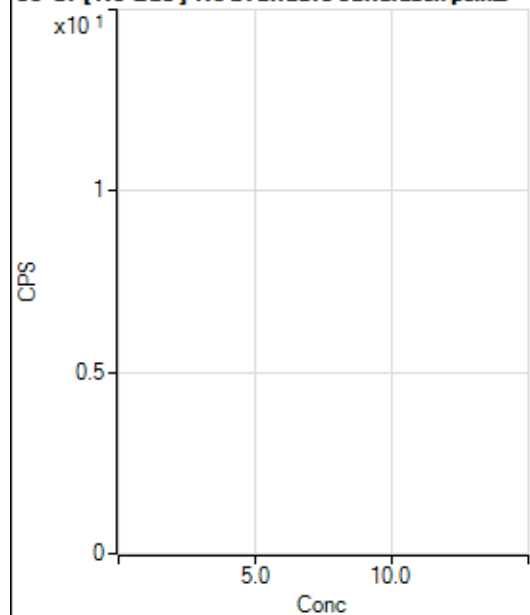
$$DL = 1300$$

$$BEC = 1.478E+04$$

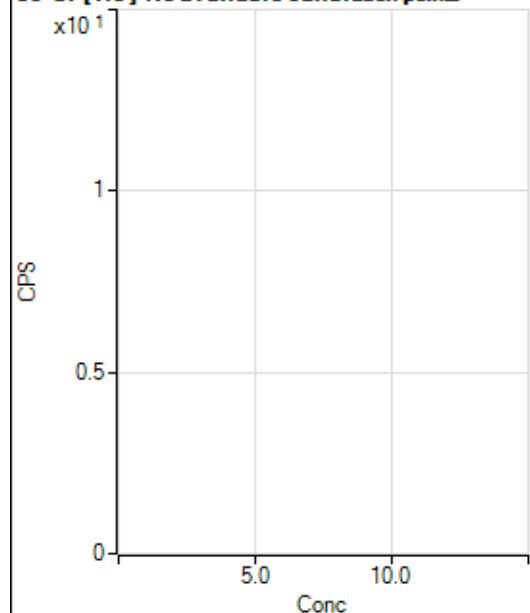
Weight: <None>

Min Conc: 0

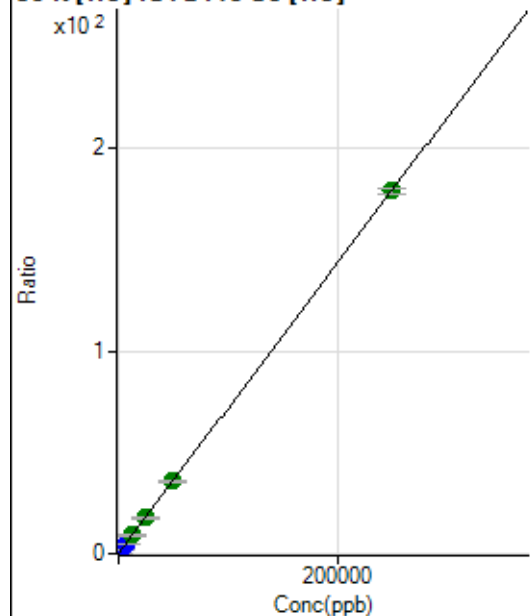
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			140469.58		P	1.2
2	☐			117632.93		P	0.5
3	☐			114797.22		P	1.5
4	☐			125063.30		P	1.4
5	☐			115948.44		P	1.8
6	☐			120062.75		P	1.6
7	☐			121905.84		P	2.3
8	☐			112533.89		P	0.5

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			923.37		P	4.5
2	☐			788.92		P	6.2
3	☐			785.59		P	8.3
4	☐			845.59		P	4.9
5	☐			815.59		P	5.2
6	☐			731.14		P	8.0
7	☐			830.03		P	11.6
8	☐			837.81		P	9.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19265.19	0.1175	P	2.2
2	☐	500.000	435.793	70199.68	0.4291	P	1.2
3	☐	2500.000	2362.442	297727.02	1.8065	P	0.7
4	☐	6250.000	5982.374	706913.85	4.3947	P	0.2
5	☐	12500.000	12499.776	1464091.99	9.0544	A	1.3
6	☐	25000.000	24452.838	2841994.26	17.6004	A	1.7
7	☐	50000.000	49791.338	5698402.14	35.7165	A	2.2
8	☐	250000.00	250104.65	28307707.36	178.9334	A	1.3

$$y = 7.1496E-004 * x + 0.1175$$

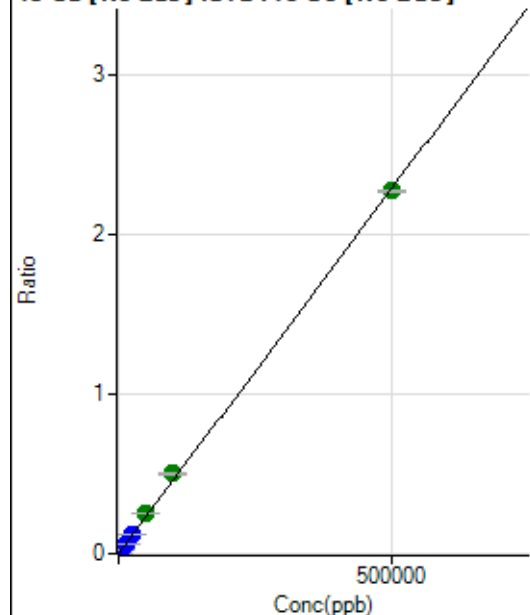
$$R = 1.0000$$

$$DL = 10.9$$

$$BEC = 164.3$$

Weight: <None>

Min Conc: 0

43 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	494.46	0.0001	P	12.1
2	☐	500.000	451.363	10754.10	0.0022	P	1.2
3	☐	5000.000	5316.640	120910.80	0.0244	P	3.4
4	☐	12500.000	13031.756	298668.69	0.0597	P	0.5
5	☐	25000.000	26495.615	591250.42	0.1213	P	2.3
6	☐	50000.000	55860.229	1261712.40	0.2555	A	0.8
7	☐	100000.00	109725.29	2499071.51	0.5018	A	0.8
8	☐	500000.00	497377.72	10637269.84	2.2744	A	0.5

$$y = 4.5725\text{E-}006 * x + 9.9726\text{E-}005$$

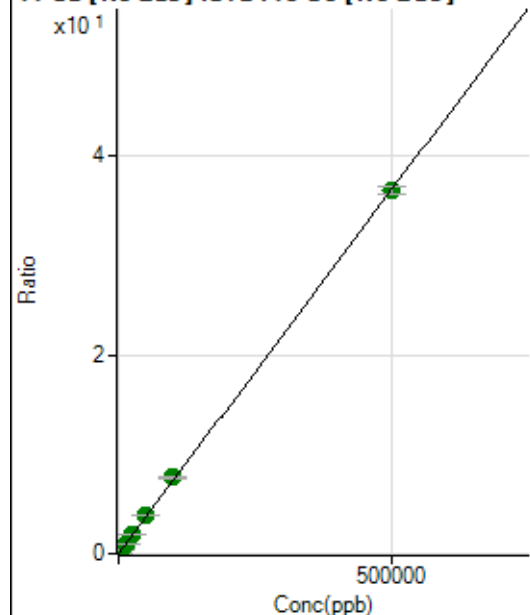
$$R = 0.9997$$

$$DL = 7.914$$

$$BEC = 21.81$$

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	12335.38	0.0025	P	1.6
2	☐	500.000	442.915	173362.83	0.0349	P	3.0
3	☐	5000.000	5423.042	1978277.05	0.3993	A	0.9
4	☐	12500.000	13025.779	4781420.62	0.9555	A	1.4
5	☐	25000.000	26452.208	9451254.72	1.9379	A	0.8
6	☐	50000.000	51972.900	18791219.03	3.8052	A	1.0
7	☐	100000.00	105226.69	38356215.82	7.7016	A	2.1
8	☐	500000.00	498667.44	170657926.3	36.4886	A	2.2

$$y = 7.3167\text{E-}005 * x + 0.0025$$

$$R = 0.9999$$

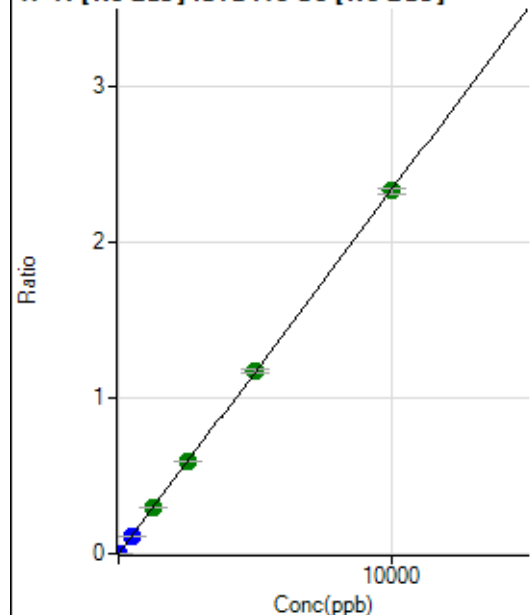
$$DL = 1.596$$

$$BEC = 33.96$$

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	96.67	0.0000	P	17.9
2	☐	5.000	4.297	5075.41	0.0010	P	2.7
3	☐	500.000	489.962	566066.91	0.1143	P	1.9
4	☐	1250.000	1265.319	1476660.17	0.2950	A	3.4
5	☐	2500.000	2538.722	2886857.56	0.5920	A	1.1
6	☐	5000.000	5022.343	5783487.06	1.1711	A	1.7
7	☐	10000.000	9977.735	11586043.58	2.3265	A	1.3
8	☐			1262.32	0.0003	P	2.4

$$y = 2.3317E-004 * x + 1.9470E-005$$

$$R = 1.0000$$

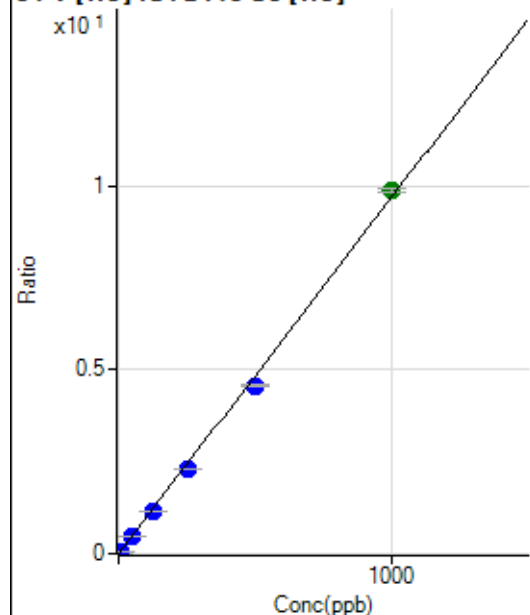
$$DL = 0.0449$$

$$BEC = 0.0835$$

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	21.11	0.0001	P	63.2
2	☐	5.000	4.527	7204.10	0.0440	P	0.7
3	☐	50.000	46.691	74644.65	0.4529	P	1.0
4	☐	125.000	118.156	184337.07	1.1460	P	0.7
5	☐	250.000	236.839	371429.74	2.2970	P	0.5
6	☐	500.000	471.573	738534.88	4.5734	P	0.5
7	☐	1000.000	1018.527	1575952.91	9.8777	A	1.1
8	☐			533.35	0.0034	P	6.8

$$y = 0.0097 * x + 1.2838E-004$$

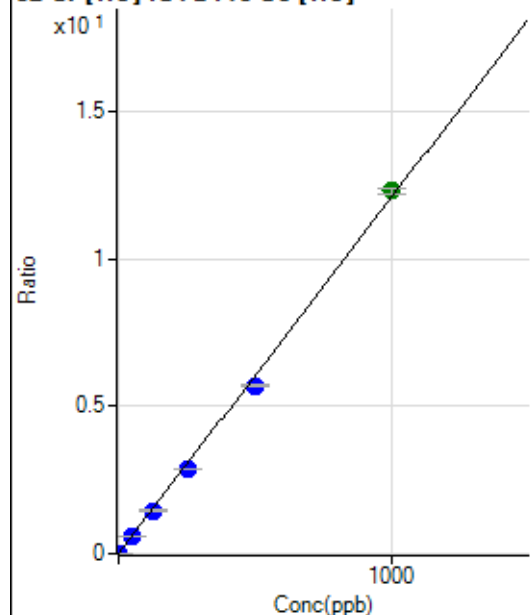
$$R = 0.9993$$

$$DL = 0.02508$$

$$BEC = 0.01324$$

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	1072.40	0.0065	P	15.0
2	☐	2.000	1.645	4317.37	0.0264	P	3.7
3	☐	50.000	47.147	94857.74	0.5756	P	1.0
4	☐	125.000	120.796	235563.44	1.4645	P	0.7
5	☐	250.000	237.859	465258.54	2.8773	P	0.5
6	☐	500.000	470.852	918698.22	5.6894	P	1.3
7	☐	1000.000	1018.278	1961809.27	12.2964	A	1.8
8	☐			17010.21	0.1075	P	1.3

$$y = 0.0121 * x + 0.0065$$

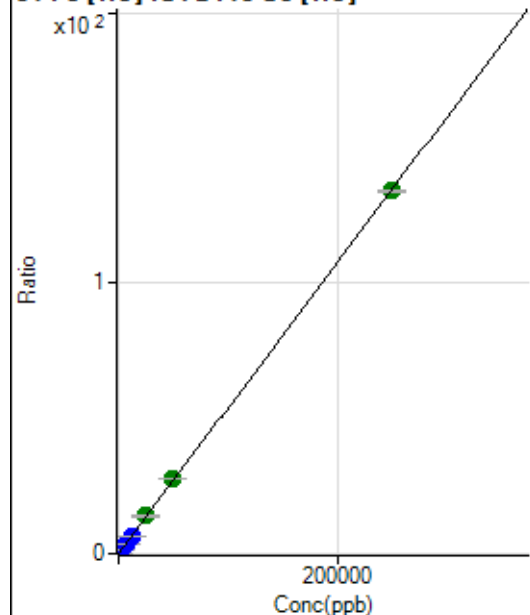
$$R = 0.9993$$

$$DL = 0.2439$$

$$BEC = 0.5411$$

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	425.58	0.0026	P	9.3
2	☐	50.000	46.217	4488.53	0.0274	P	3.1
3	☐	2500.000	2467.997	219030.41	1.3290	P	0.7
4	☐	6250.000	6249.359	540674.02	3.3613	P	1.2
5	☐	12500.000	12369.724	1075450.46	6.6507	P	0.1
6	☐	25000.000	25796.029	2239099.05	13.8667	A	2.5
7	☐	50000.000	51859.422	4447258.44	27.8744	A	1.2
8	☐	250000.00	249555.36	21220021.21	134.1261	A	0.5

$$y = 5.3745E-004 * x + 0.0026$$

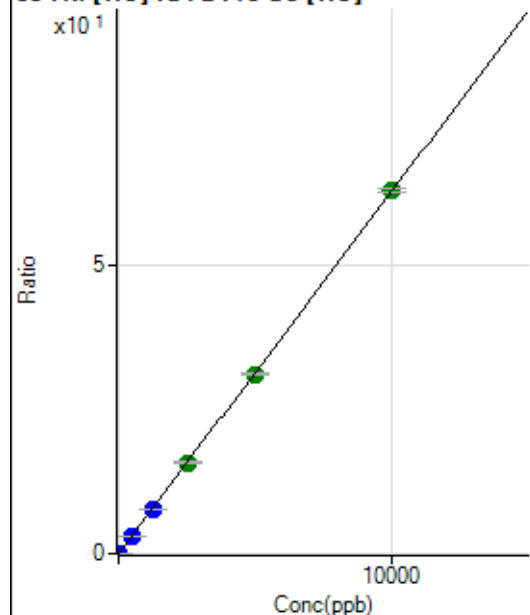
$$R = 1.0000$$

$$DL = 1.347$$

$$BEC = 4.831$$

Weight: <None>

Min Conc: 0

⁵⁵Mn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	112.22	0.0007	P	15.4
2	☐	1.000	0.922	1058.94	0.0065	P	5.2
3	☐	500.000	473.713	490380.00	2.9757	P	2.0
4	☐	1250.000	1204.959	1217352.66	7.5681	P	0.8
5	☐	2500.000	2522.714	2562058.40	15.8439	A	0.4
6	☐	5000.000	4960.477	5030619.75	31.1535	A	1.4
7	☐	10000.000	10021.028	10040938.11	62.9348	A	0.9
8	☐			5664.52	0.0358	P	1.5

$$y = 0.0063 * x + 6.8350E-004$$

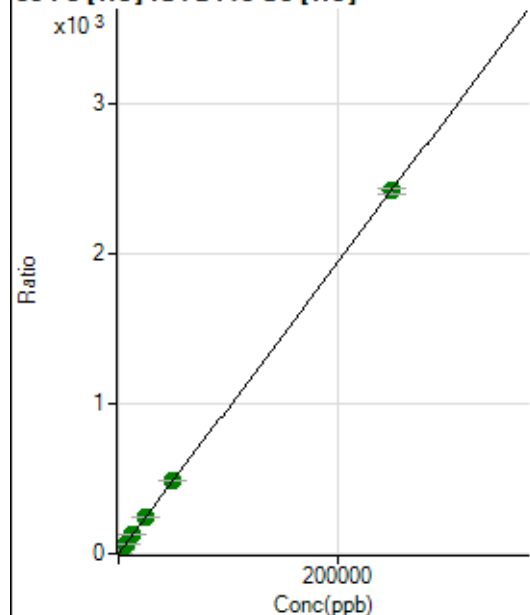
$$R = 1.0000$$

$$DL = 0.05032$$

$$BEC = 0.1088$$

Weight: <None>

Min Conc: 0

⁵⁶Fe [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4937.58	0.0301	P	7.9
2	☐	50.000	46.356	78430.32	0.4793	P	0.9
3	☐	2500.000	2553.836	4083595.84	24.7793	A	1.5
4	☐	6250.000	6468.573	10088390.47	62.7170	A	0.5
5	☐	12500.000	12872.818	20178310.26	124.7805	A	1.3
6	☐	25000.000	25414.850	39776984.68	246.3252	A	1.0
7	☐	50000.000	50324.608	77813892.17	487.7254	A	0.8
8	☐	250000.00	249868.95	383096940.9	2.421507	A	1.5

$$y = 0.0097 * x + 0.0301$$

$$R = 1.0000$$

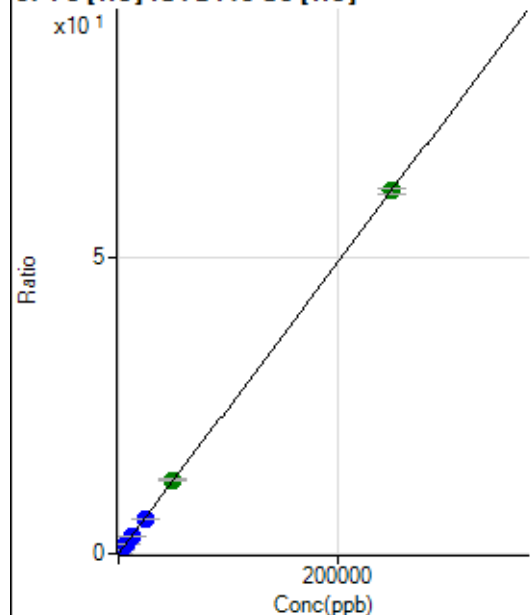
$$DL = 0.7362$$

$$BEC = 3.107$$

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	258.89	0.0016	P	10.4
2	☐	50.000	44.964	2060.17	0.0126	P	4.2
3	☐	2500.000	2444.653	98969.85	0.6005	P	0.7
4	☐	6250.000	6208.328	244918.16	1.5226	P	0.8
5	☐	12500.000	12236.794	485033.81	2.9995	P	0.2
6	☐	25000.000	24378.003	964700.65	5.9740	P	0.4
7	☐	50000.000	50984.941	1993085.89	12.4925	A	0.6
8	☐	250000.00	249879.96	9685250.41	61.2200	A	1.7

$$y = 2.4499\text{E-}004 * x + 0.0016$$

$$R = 1.0000$$

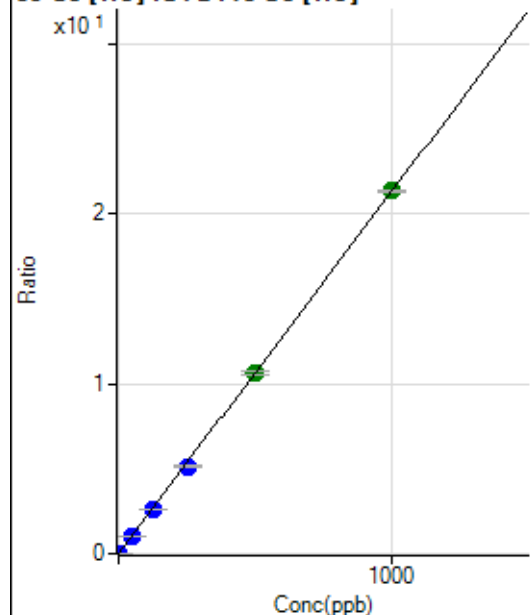
$$DL = 2.003$$

$$BEC = 6.442$$

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	0.0006	P	14.4
2	☐	1.000	0.943	3377.10	0.0206	P	5.5
3	☐	50.000	48.353	169819.31	1.0305	P	1.8
4	☐	125.000	122.408	419484.59	2.6078	P	0.5
5	☐	250.000	240.957	829958.70	5.1329	P	1.2
6	☐	500.000	500.548	1721700.36	10.6622	A	1.5
7	☐	1000.000	1002.393	3406449.98	21.3514	A	0.7
8	☐			8322.52	0.0526	P	1.6

$$y = 0.0213 * x + 5.6227\text{E-}004$$

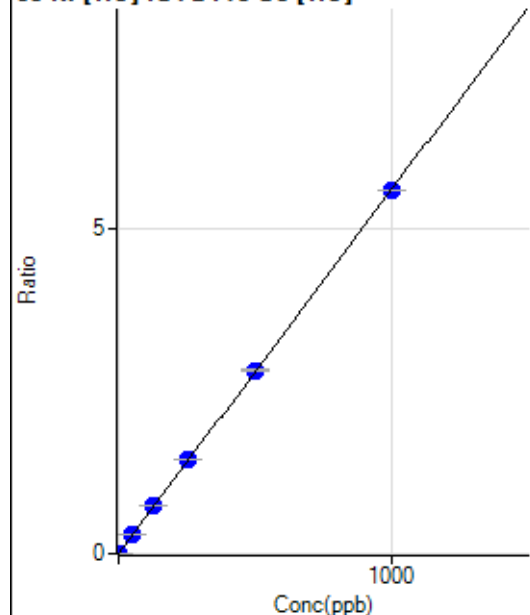
$$R = 1.0000$$

$$DL = 0.01142$$

$$BEC = 0.0264$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	215.56	0.0013	P	8.3
2	☐	1.000	0.912	1050.05	0.0064	P	5.3
3	☐	50.000	51.262	47485.54	0.2881	P	0.9
4	☐	125.000	130.121	117327.24	0.7294	P	0.9
5	☐	250.000	256.481	232265.10	1.4364	P	0.3
6	☐	500.000	502.023	453787.05	2.8102	P	1.0
7	☐	1000.000	996.665	889903.62	5.5778	P	0.1
8	☐			6976.23	0.0441	P	2.0

$$y = 0.0056 * x + 0.0013$$

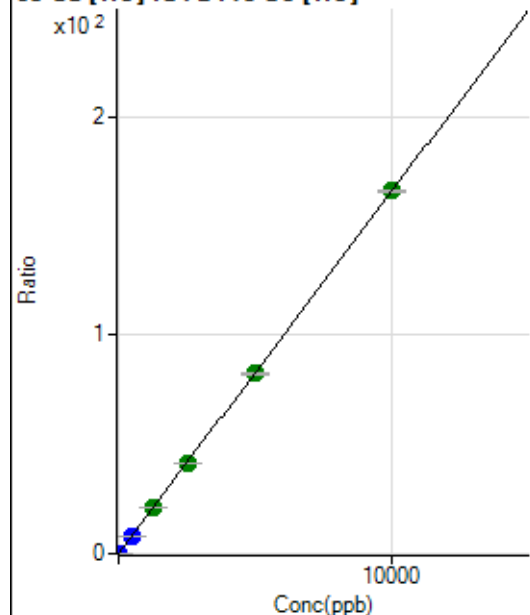
$$R = 1.0000$$

$$DL = 0.05823$$

$$BEC = 0.235$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1291.18	0.0079	P	4.1
2	☐	2.000	1.888	6404.84	0.0391	P	3.0
3	☐	500.000	491.840	1344306.16	8.1570	P	1.1
4	☐	1250.000	1267.273	3378789.98	21.0049	A	0.3
5	☐	2500.000	2494.073	6683073.58	41.3314	A	1.0
6	☐	5000.000	4964.513	13284313.83	82.2634	A	0.2
7	☐	10000.000	10017.474	26482253.49	165.9844	A	0.7
8	☐			5889.06	0.0372	P	2.5

$$y = 0.0166 * x + 0.0079$$

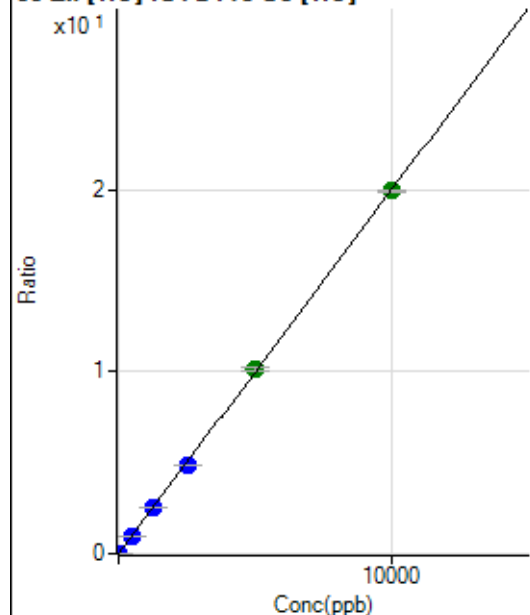
$$R = 1.0000$$

$$DL = 0.0591$$

$$BEC = 0.475$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	648.91	0.0040	P	9.0
2	☐	2.000	3.797	1889.03	0.0115	P	4.1
3	☐	500.000	494.116	163443.37	0.9917	P	1.3
4	☐	1250.000	1249.189	402327.93	2.5011	P	0.3
5	☐	2500.000	2449.774	792514.18	4.9012	P	0.5
6	☐	5000.000	5074.080	1638708.48	10.1473	A	1.2
7	☐	10000.000	9975.912	3182339.29	19.9462	A	0.6
8	☐			1120.05	0.0071	P	3.5

$$y = 0.0020 * x + 0.0040$$

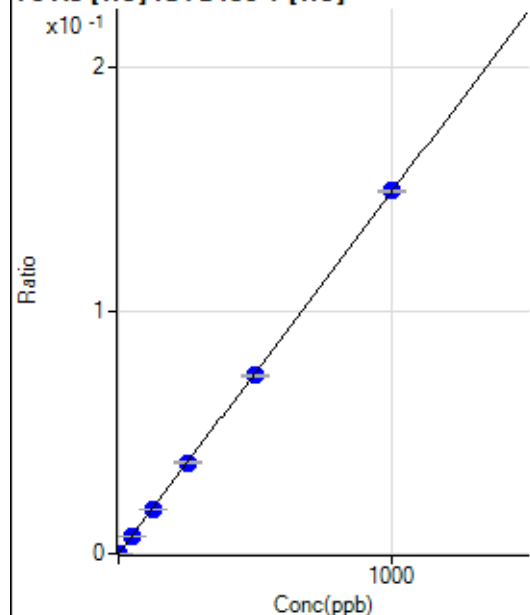
$$R = 0.9999$$

$$DL = 0.5317$$

$$BEC = 1.98$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	1.000	0.924	167.78	0.0001	P	3.5
3	☐	50.000	49.756	8964.04	0.0074	P	1.8
4	☐	125.000	122.329	21719.10	0.0182	P	3.3
5	☐	250.000	251.314	44223.85	0.0374	P	2.0
6	☐	500.000	493.267	87331.85	0.0733	P	1.1
7	☐	1000.000	1003.384	176639.77	0.1492	P	0.4
8	☐			110.00	0.0001	P	15.2

$$y = 1.4865E-004 * x + 9.1523E-007$$

$$R = 1.0000$$

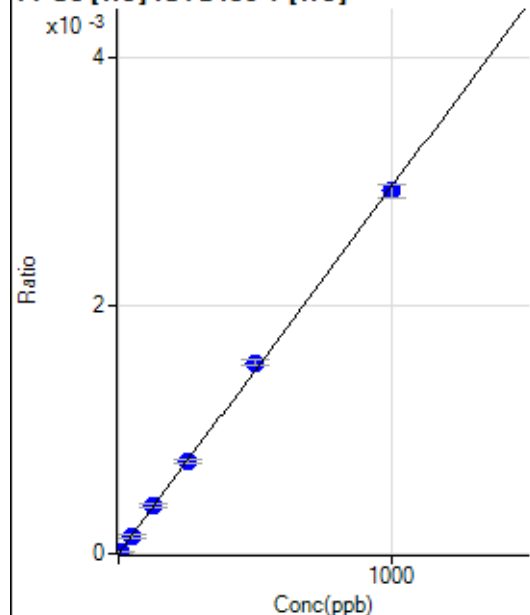
$$DL = 0.03199$$

$$BEC = 0.006157$$

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	1.11	0.0000	P	173.
2	☐	5.000	5.257	20.00	0.0000	P	16.4
3	☐	50.000	47.109	170.00	0.0001	P	15.7
4	☐	125.000	130.569	462.24	0.0004	P	8.4
5	☐	250.000	250.060	876.71	0.0007	P	3.6
6	☐	500.000	520.983	1836.81	0.0015	P	3.1
7	☐	1000.000	988.941	3466.02	0.0029	P	3.5
8	☐			3.33	0.0000	P	100.

$$y = 2.9582\text{E-}006 * x + 9.2385\text{E-}007$$

$$R = 0.9996$$

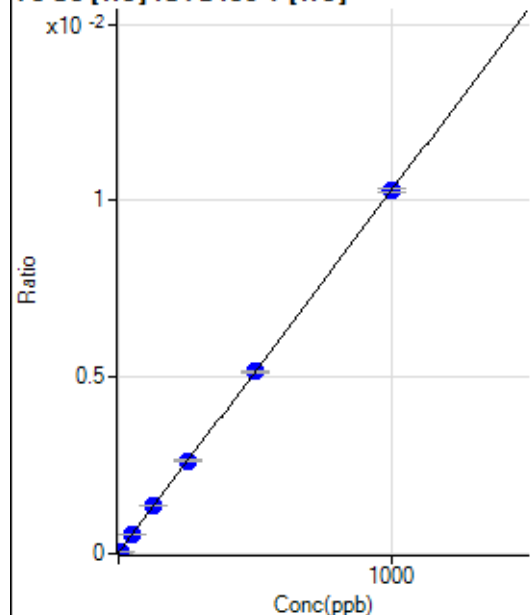
$$DL = 1.623$$

$$BEC = 0.3123$$

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	31.11	0.0000	P	37.9
2	☐	5.000	4.359	85.56	0.0001	P	18.2
3	☐	50.000	50.639	661.13	0.0005	P	5.1
4	☐	125.000	129.759	1621.22	0.0014	P	0.5
5	☐	250.000	253.982	3115.94	0.0026	P	2.8
6	☐	500.000	499.368	6134.73	0.0052	P	1.7
7	☐	1000.000	998.697	12168.70	0.0103	P	1.2
8	☐			26.67	0.0000	P	37.5

$$y = 1.0262\text{E-}005 * x + 2.5815\text{E-}005$$

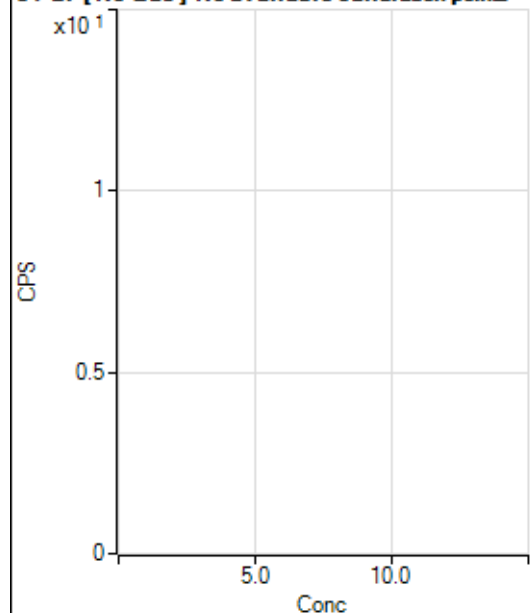
$$R = 1.0000$$

$$DL = 2.858$$

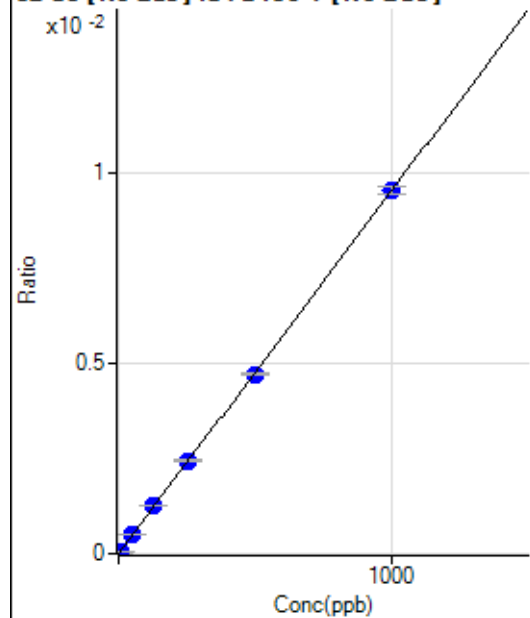
$$BEC = 2.516$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3977.28		P	2.4
2	☐			3957.28		P	2.4
3	☐			3999.50		P	2.1
4	☐			3906.14		P	3.7
5	☐			3971.71		P	1.2
6	☐			4040.63		P	4.3
7	☐			3899.48		P	2.9
8	☐			4110.64		P	3.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13.33	0.0000	P	64.3
2	☐	5.000	4.795	564.48	0.0000	P	6.5
3	☐	50.000	51.684	5888.08	0.0005	P	3.4
4	☐	125.000	131.079	14522.36	0.0012	P	1.3
5	☐	250.000	255.991	28839.23	0.0024	P	2.0
6	☐	500.000	495.341	56517.95	0.0047	P	1.3
7	☐	1000.000	999.989	112313.91	0.0095	P	2.1
8	☐			53.33	0.0000	P	15.0

$$y = 9.5198E-006 * x + 1.1422E-006$$

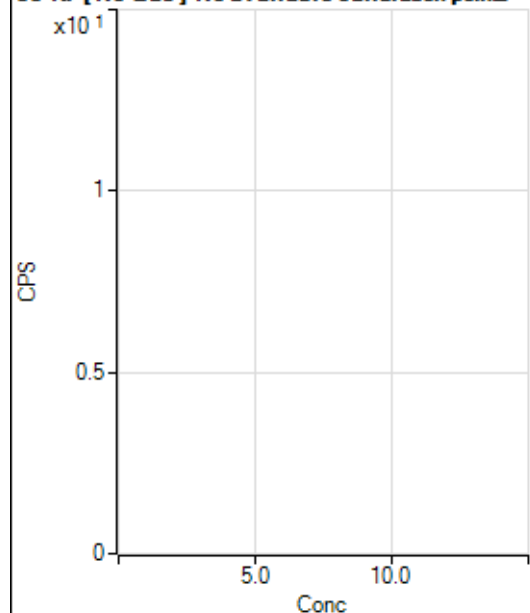
$$R = 1.0000$$

$$DL = 0.2313$$

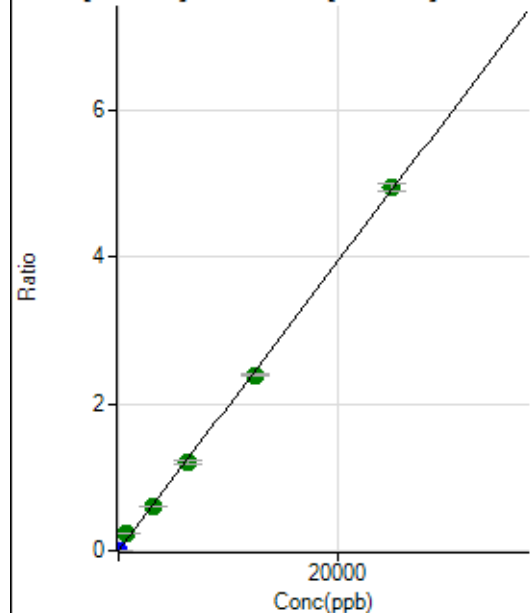
$$BEC = 0.12$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			251.12		P	9.3
2	☐			285.56		P	9.5
3	☐			254.45		P	12.4
4	☐			282.23		P	20.9
5	☐			293.34		P	8.2
6	☐			286.67		P	18.1
7	☐			285.56		P	19.3
8	☐			254.45		P	9.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	538.90	0.0000	P	12.5
2	☐	1.000	0.950	2807.04	0.0002	P	8.5
3	☐	625.000	1253.890	2935877.46	0.2459	A	0.7
4	☐	3125.000	3106.705	7082196.56	0.6092	A	1.3
5	☐	6250.000	6126.038	14207141.45	1.2011	A	2.8
6	☐	12500.000	12186.762	28629874.29	2.3894	A	1.8
7	☐	25000.000	25174.174	58225604.13	4.9357	A	2.1
8	☐			9285.56	0.0008	P	8.1

$$y = 1.9606E-004 * x + 4.6488E-005$$

$$R = 0.9995$$

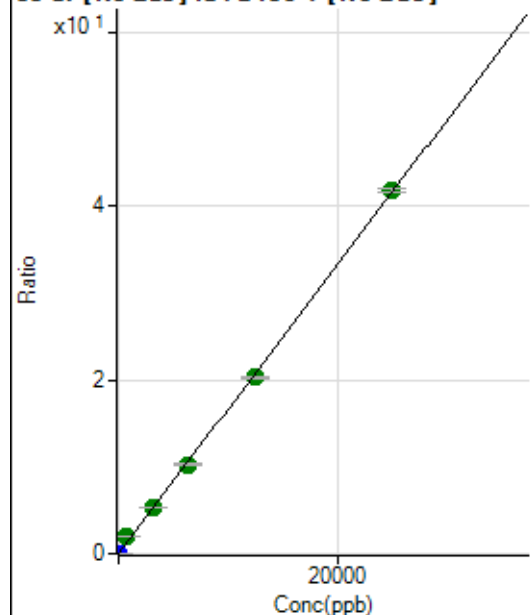
$$DL = 0.08894$$

$$BEC = 0.2371$$

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	762.25	0.0001	P	5.8
2	☐	1.000	0.999	20809.55	0.0017	P	8.5
3	☐	625.000	1248.546	24772130.19	2.0747	A	1.2
4	☐	3125.000	3151.124	60881257.98	5.2362	A	0.3
5	☐	6250.000	6196.723	121796835.9	10.2970	A	1.9
6	☐	12500.000	12197.318	242855743.0	20.2680	A	1.7
7	☐	25000.000	25145.806	493046868.2	41.7841	A	1.1
8	☐			77290.40	0.0069	P	7.0

$$y = 0.0017 * x + 6.5636E-005$$

$$R = 0.9995$$

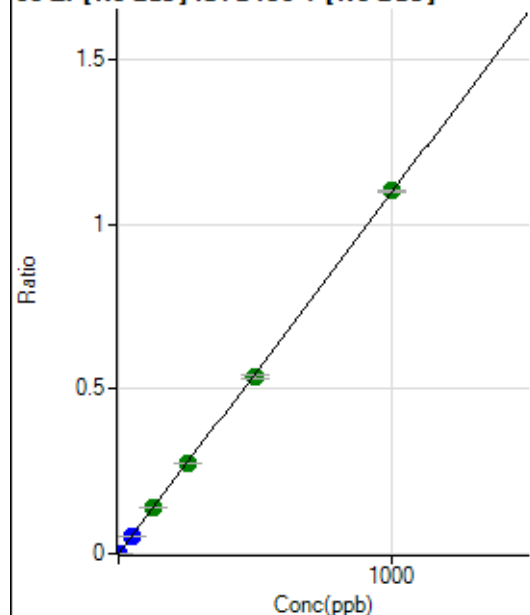
$$DL = 0.006876$$

$$BEC = 0.0395$$

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	480.01	0.0000	P	10.9
2	☐	1.000	0.847	11681.66	0.0010	P	1.1
3	☐	50.000	46.924	613759.11	0.0514	P	1.0
4	☐	125.000	128.013	1629707.44	0.1402	A	1.0
5	☐	250.000	251.500	3256806.79	0.2753	A	0.9
6	☐	500.000	488.664	6410463.66	0.5349	A	1.9
7	☐	1000.000	1005.070	12980731.47	1.1002	A	0.5
8	☐			6409.33	0.0006	P	4.4

$$y = 0.0011 * x + 4.1438E-005$$

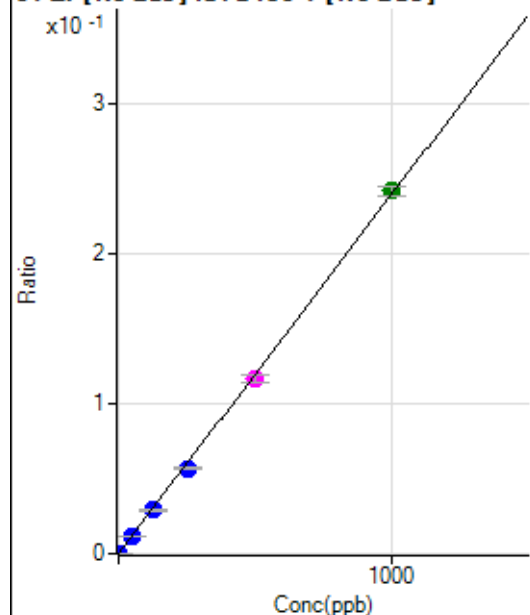
$$R = 0.9999$$

$$DL = 0.01239$$

$$BEC = 0.03786$$

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	98.89	0.0000	P	8.2
2	☐	1.000	0.814	2455.80	0.0002	P	5.3
3	☐	50.000	47.173	135209.14	0.0113	P	1.2
4	☐	125.000	120.777	336940.46	0.0290	P	0.7
5	☐	250.000	237.189	673092.47	0.0569	P	1.2
6	☐	500.000	487.054	1400282.16	0.1168	M	4.5
7	☐	1000.000	1010.345	2859002.28	0.2424	A	2.4
8	☐			1384.53	0.0001	P	7.9

$$y = 2.3988\text{E-}004 * x + 8.5233\text{E-}006$$

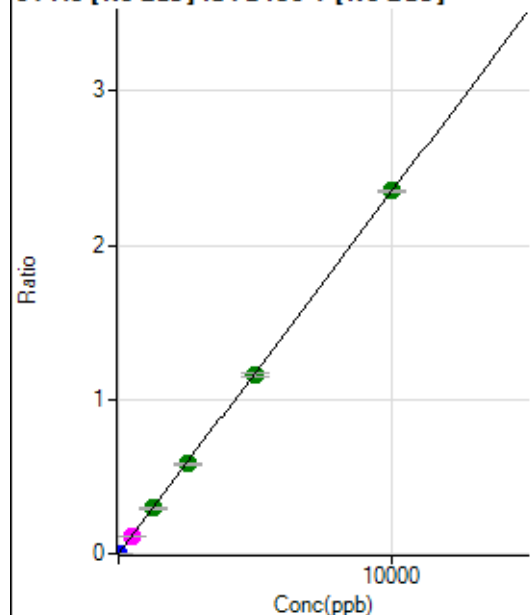
$$R = 0.9998$$

$$DL = 0.008749$$

$$BEC = 0.03553$$

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	173.34	0.0000	P	2.5
2	☐	5.000	4.923	14115.05	0.0012	P	1.1
3	☐	500.000	479.878	1344712.92	0.1126	M	2.7
4	☐	1250.000	1253.142	3419150.54	0.2941	A	2.0
5	☐	2500.000	2487.977	6906146.28	0.5839	A	2.2
6	☐	5000.000	4953.804	13928933.68	1.1625	A	2.0
7	☐	10000.000	10026.717	27760125.14	2.3530	A	0.9
8	☐			8384.86	0.0007	P	7.3

$$y = 2.3467\text{E-}004 * x + 1.4943\text{E-}005$$

$$R = 1.0000$$

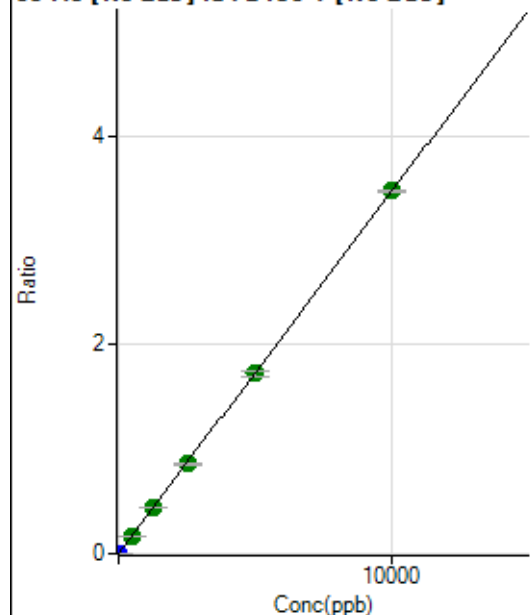
$$DL = 0.004728$$

$$BEC = 0.06368$$

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	57.78	0.0000	P	31.1
2	☐	5.000	4.202	17650.20	0.0015	P	2.1
3	☐	500.000	496.649	2058330.21	0.1724	A	1.5
4	☐	1250.000	1270.898	5129233.01	0.4411	A	1.0
5	☐	2500.000	2481.924	10189667.70	0.8615	A	2.5
6	☐	5000.000	4965.583	20653247.05	1.7236	A	2.2
7	☐	10000.000	10019.283	41030989.94	3.4777	A	0.7
8	☐			10476.39	0.0009	P	8.7

$$y = 3.4710\text{E-}004 * x + 5.0027\text{E-}006$$

$$R = 1.0000$$

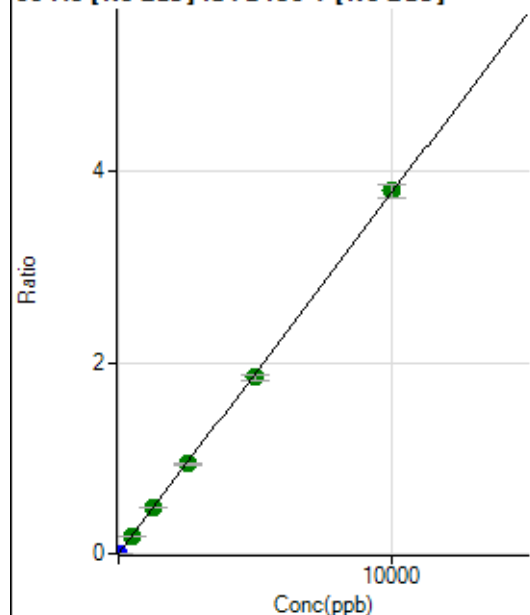
$$DL = 0.01346$$

$$BEC = 0.01441$$

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	168.89	0.0000	P	6.5
2	☐	5.000	4.273	19634.00	0.0016	P	2.3
3	☐	500.000	493.348	2224726.74	0.1863	A	0.7
4	☐	1250.000	1279.195	5616790.96	0.4831	A	0.7
5	☐	2500.000	2493.200	11137176.92	0.9416	A	1.4
6	☐	5000.000	4880.833	22086161.47	1.8432	A	3.5
7	☐	10000.000	10057.967	44802976.00	3.7984	A	3.6
8	☐			12291.14	0.0011	P	8.0

$$y = 3.7765\text{E-}004 * x + 1.4569\text{E-}005$$

$$R = 0.9999$$

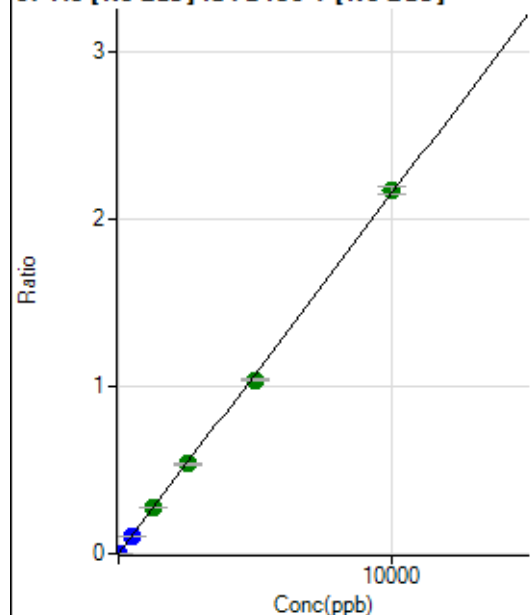
$$DL = 0.007488$$

$$BEC = 0.03858$$

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	32.22	0.0000	P	31.7
2	☐	5.000	4.112	10706.43	0.0009	P	1.0
3	☐	500.000	473.767	1217407.13	0.1020	P	1.5
4	☐	1250.000	1293.005	3235461.93	0.2783	A	0.5
5	☐	2500.000	2491.749	6343183.24	0.5363	A	1.3
6	☐	5000.000	4831.323	12458118.01	1.0398	A	1.5
7	☐	10000.000	10082.338	25597871.28	2.1698	A	2.1
8	☐			6521.64	0.0006	P	9.8

$$y = 2.1521\text{E-}004 * x + 2.7799\text{E-}006$$

$$R = 0.9998$$

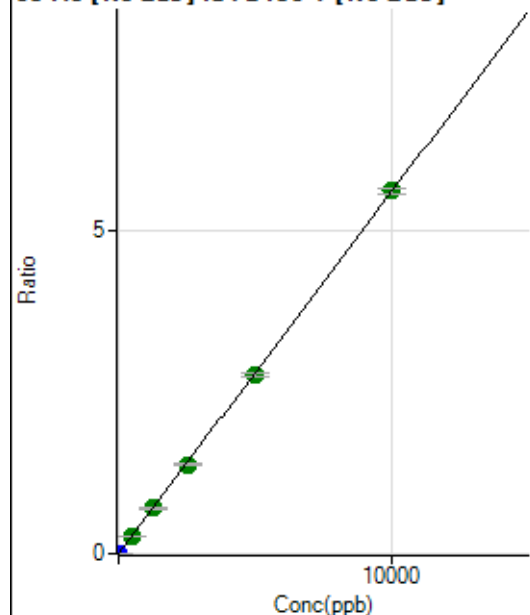
$$DL = 0.01227$$

$$BEC = 0.01292$$

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	90.00	0.0000	P	9.2
2	☐	5.000	4.207	28534.94	0.0024	P	1.8
3	☐	500.000	492.309	3295085.09	0.2760	A	1.0
4	☐	1250.000	1258.863	8204741.27	0.7057	A	2.1
5	☐	2500.000	2469.863	16375999.48	1.3845	A	2.2
6	☐	5000.000	4951.238	33253538.95	2.7754	A	1.8
7	☐	10000.000	10031.192	66337237.34	5.6230	A	1.4
8	☐			16687.15	0.0015	P	11.0

$$y = 5.6055\text{E-}004 * x + 7.7652\text{E-}006$$

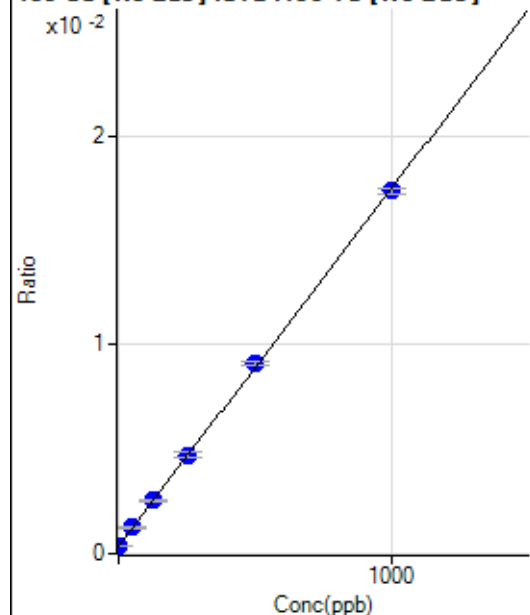
$$R = 1.0000$$

$$DL = 0.003814$$

$$BEC = 0.01385$$

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	3756.10	0.0004	P	2.8
2	☐	1.000	0.660	3927.27	0.0004	P	3.4
3	☐	50.000	51.913	13357.67	0.0012	P	3.5
4	☐	125.000	127.429	27100.04	0.0025	P	2.1
5	☐	250.000	255.774	50932.84	0.0047	P	4.4
6	☐	500.000	509.596	97815.86	0.0091	P	2.1
7	☐	1000.000	993.359	187982.33	0.0174	P	1.7
8	☐			3791.67	0.0004	P	1.7

$$y = 1.7125E-005 * x + 3.5894E-004$$

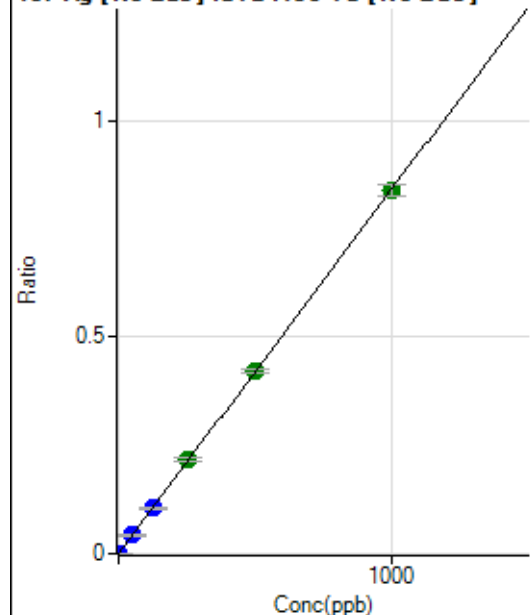
$$R = 0.9999$$

$$DL = 1.737$$

$$BEC = 20.96$$

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	65.55	0.0000	P	19.3
2	☐	1.000	0.946	8502.70	0.0008	P	1.1
3	☐	50.000	50.386	453501.82	0.0424	P	1.2
4	☐	125.000	125.334	1123535.55	0.1054	P	2.3
5	☐	250.000	257.944	2330796.13	0.2168	A	2.7
6	☐	500.000	503.868	4559815.04	0.4235	A	2.1
7	☐	1000.000	996.019	9059446.81	0.8372	A	3.3
8	☐			798.92	0.0001	P	10.8

$$y = 8.4057E-004 * x + 6.2512E-006$$

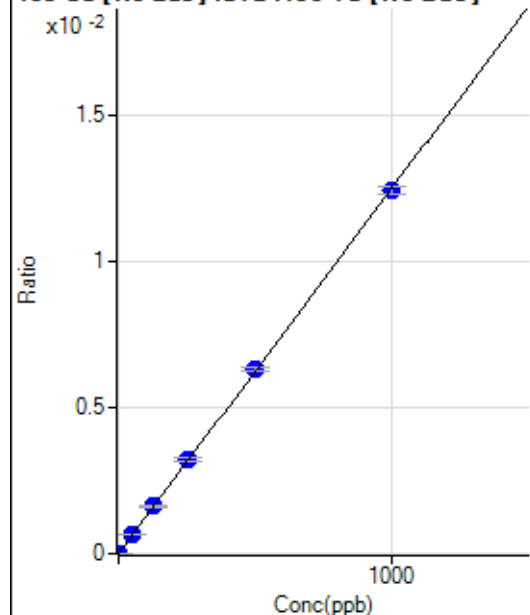
$$R = 1.0000$$

$$DL = 0.004308$$

$$BEC = 0.007437$$

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	17.78	0.0000	P	59.1
2	☐	1.000	0.971	146.67	0.0000	P	10.9
3	☐	50.000	51.643	6927.37	0.0006	P	3.2
4	☐	125.000	129.348	17255.37	0.0016	P	3.3
5	☐	250.000	257.145	34565.56	0.0032	P	3.1
6	☐	500.000	506.424	68169.04	0.0063	P	2.0
7	☐	1000.000	994.376	134514.89	0.0124	P	2.2
8	☐			111.11	0.0000	P	15.5

$$y = 1.2499\text{E-}005 * x + 1.6920\text{E-}006$$

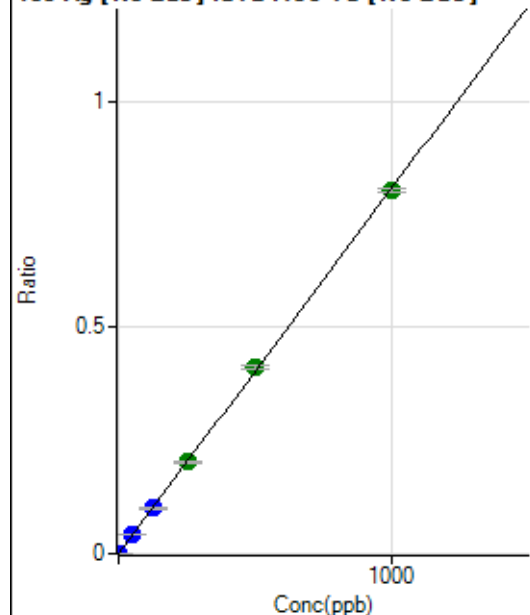
$$R = 0.9999$$

$$DL = 0.2399$$

$$BEC = 0.1354$$

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	45.55	0.0000	P	28.9
2	☐	1.000	0.966	8301.45	0.0008	P	3.5
3	☐	50.000	50.521	436230.99	0.0407	P	1.2
4	☐	125.000	124.797	1073089.97	0.1006	P	3.3
5	☐	250.000	251.074	2176510.87	0.2025	A	3.2
6	☐	500.000	512.238	4447765.80	0.4131	A	1.6
7	☐	1000.000	993.612	8672503.27	0.8013	A	1.2
8	☐			792.25	0.0001	P	8.3

$$y = 8.0644\text{E-}004 * x + 4.3454\text{E-}006$$

$$R = 0.9999$$

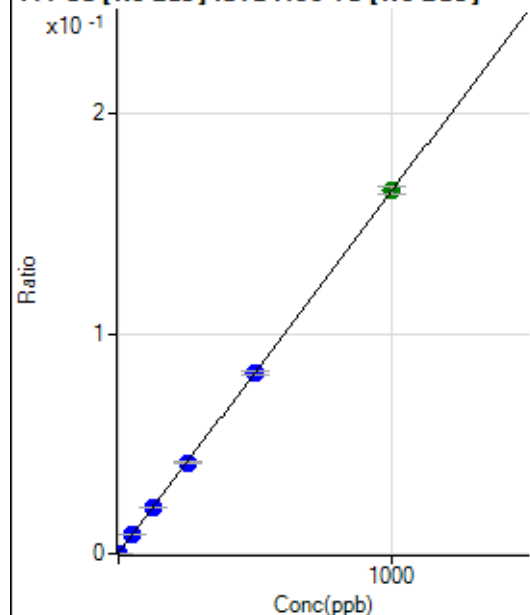
$$DL = 0.004676$$

$$BEC = 0.005388$$

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	2626.83	0.0003	P	2.8
2	☐	1.000	1.001	4407.66	0.0004	P	3.3
3	☐	50.000	50.738	91961.94	0.0086	P	1.3
4	☐	125.000	126.123	223709.02	0.0210	P	2.7
5	☐	250.000	249.533	443561.55	0.0413	P	2.3
6	☐	500.000	496.758	881609.36	0.0819	P	2.5
7	☐	1000.000	1001.560	1784230.80	0.1649	A	2.1
8	☐			2886.41	0.0003	P	0.8

$$y = 1.6435\text{E-}004 * x + 2.5103\text{E-}004$$

$$R = 1.0000$$

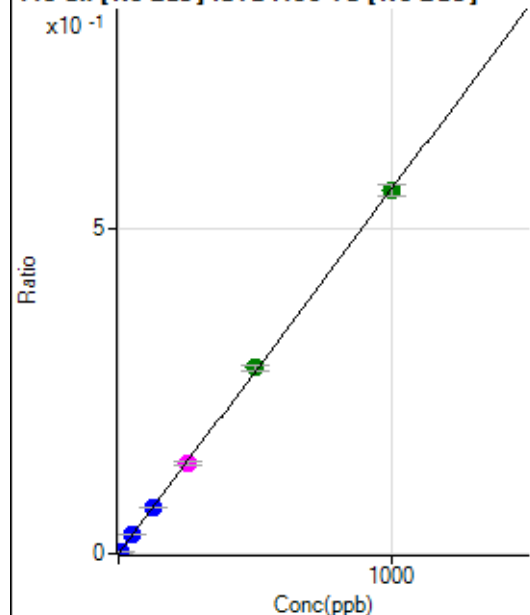
$$DL = 0.1286$$

$$BEC = 1.527$$

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	1225.62	0.0001	P	4.3
2	☐	5.000	4.616	28691.21	0.0027	P	1.2
3	☐	50.000	51.339	309433.01	0.0289	P	1.2
4	☐	125.000	126.480	757347.64	0.0710	P	3.5
5	☐	250.000	248.690	1500128.05	0.1396	M	4.1
6	☐	500.000	509.163	3074369.12	0.2856	A	3.0
7	☐	1000.000	995.496	6041415.54	0.5583	A	3.0
8	☐			3779.45	0.0004	P	1.6

$$y = 5.6071\text{E-}004 * x + 1.1707\text{E-}004$$

$$R = 0.9999$$

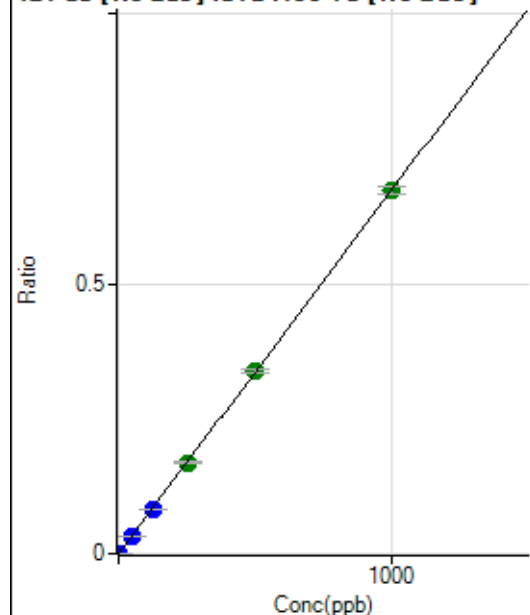
$$DL = 0.02669$$

$$BEC = 0.2088$$

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	22.22	0.0000	P	37.0
2	☐	2.000	1.961	14031.76	0.0013	P	2.9
3	☐	50.000	49.020	353553.13	0.0330	P	1.5
4	☐	125.000	121.702	874156.71	0.0820	P	3.3
5	☐	250.000	251.088	1818445.58	0.1692	A	3.3
6	☐	500.000	503.552	3652154.46	0.3392	A	1.9
7	☐	1000.000	998.413	7278755.17	0.6726	A	2.2
8	☐			3929.50	0.0004	P	11.0

$$y = 6.7367\text{E-}004 * x + 2.1170\text{E-}006$$

$$R = 1.0000$$

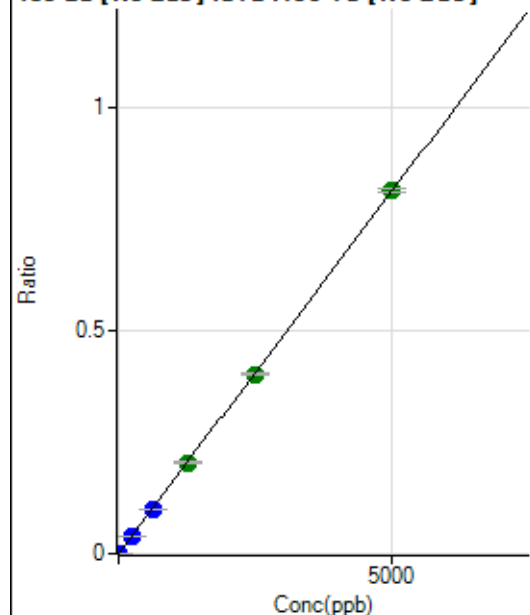
$$DL = 0.00349$$

$$BEC = 0.003143$$

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	44.45	0.0000	P	23.0
2	☐	10.000	9.238	15909.46	0.0015	P	1.7
3	☐	250.000	245.597	425875.27	0.0398	P	0.9
4	☐	625.000	616.421	1064625.78	0.0998	P	2.1
5	☐	1250.000	1258.085	2190153.27	0.2038	A	3.0
6	☐	2500.000	2475.840	4317230.18	0.4010	A	1.3
7	☐	5000.000	5011.353	8783809.17	0.8116	A	1.0
8	☐			2682.52	0.0003	P	6.3

$$y = 1.6195\text{E-}004 * x + 4.2404\text{E-}006$$

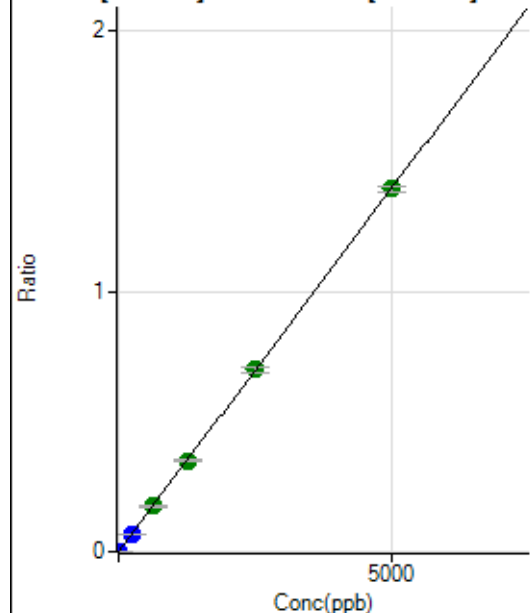
$$R = 1.0000$$

$$DL = 0.01808$$

$$BEC = 0.02618$$

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	61.11	0.0000	P	12.1
2	☐	10.000	9.471	28072.56	0.0026	P	0.9
3	☐	250.000	248.315	741502.84	0.0693	P	1.0
4	☐	625.000	629.775	1872552.44	0.1756	A	3.8
5	☐	1250.000	1247.384	3740366.68	0.3479	A	2.0
6	☐	2500.000	2509.315	7533630.65	0.6998	A	2.8
7	☐	5000.000	4995.485	15078149.77	1.3932	A	1.6
8	☐			4903.17	0.0005	P	2.4

$$y = 2.7890E-004 * x + 5.8421E-006$$

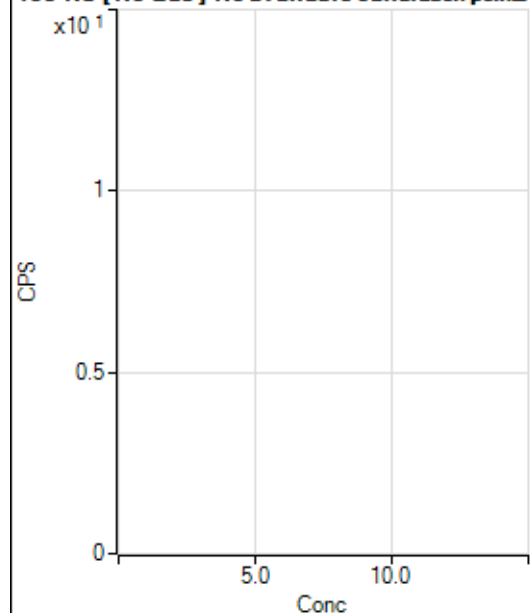
$$R = 1.0000$$

$$DL = 0.00763$$

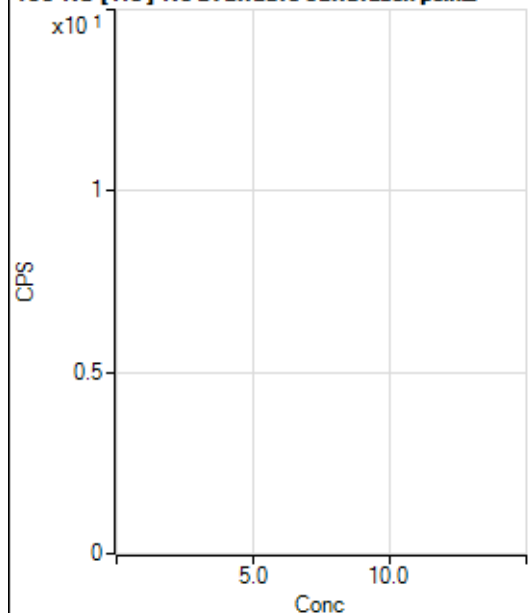
$$BEC = 0.02095$$

Weight: <None>

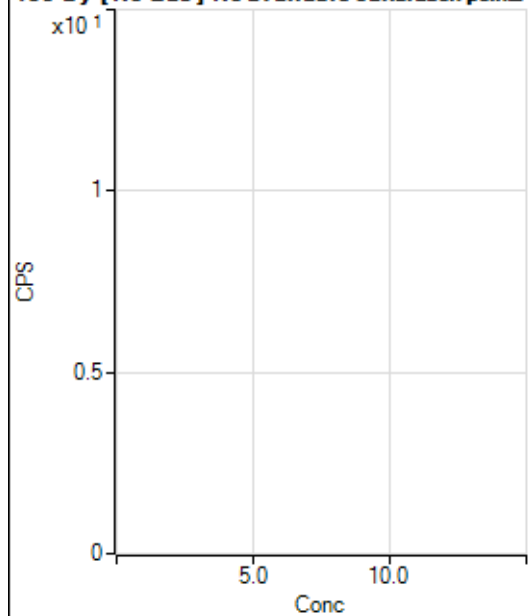
Min Conc: 0

150 Nd [No Gas] No available calibration points

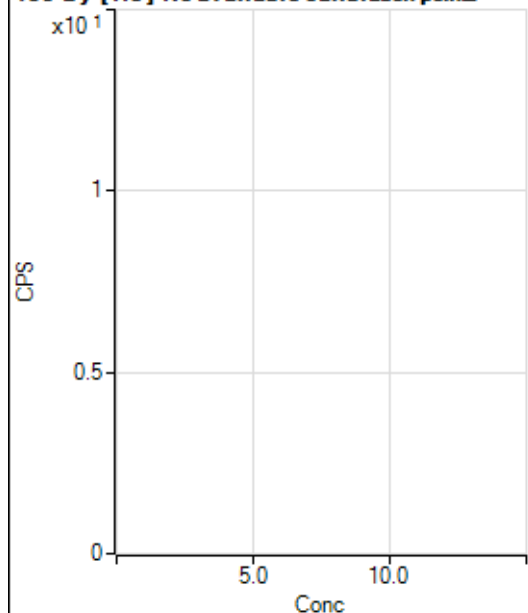
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	37.8
2	☐			13.33		P	25.0
3	☐			60.00		P	11.1
4	☐			96.67		P	12.4
5	☐			161.11		P	3.2
6	☐			262.23		P	22.8
7	☐			562.24		P	12.0
8	☐			170.00		P	12.2

150 Nd [He] No available calibration points

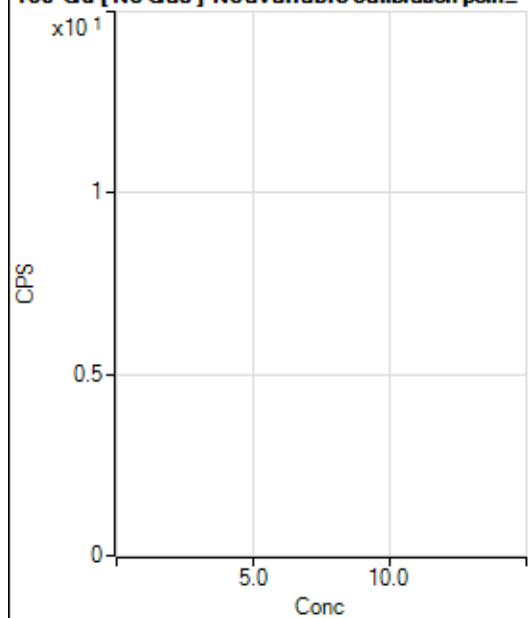
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.22		P	83.3
2	☐			2.22		P	86.6
3	☐			2.22		P	86.6
4	☐			13.33		P	25.0
5	☐			8.89		P	21.6
6	☐			25.56		P	74.2
7	☐			50.00		P	30.6
8	☐			47.78		P	28.2

156 Dy [No Gas] No available calibration points

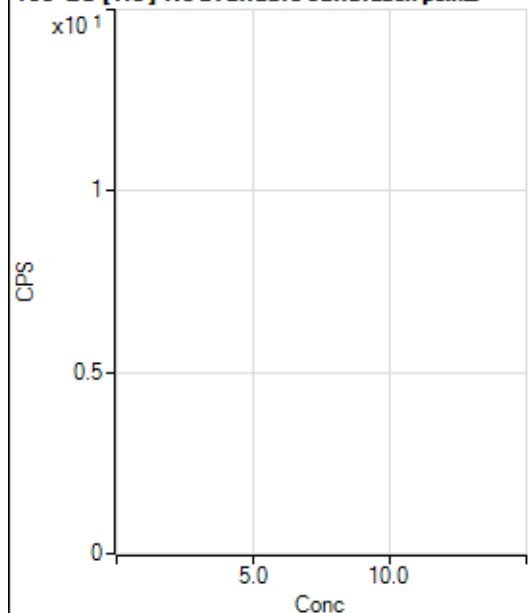
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15.56		P	32.7
2	☐			25.56		P	30.1
3	☐			28.89		P	26.6
4	☐			28.89		P	35.2
5	☐			62.22		P	38.8
6	☐			97.78		P	39.8
7	☐			191.11		P	7.9
8	☐			255.56		P	19.5

156 Dy [He] No available calibration points

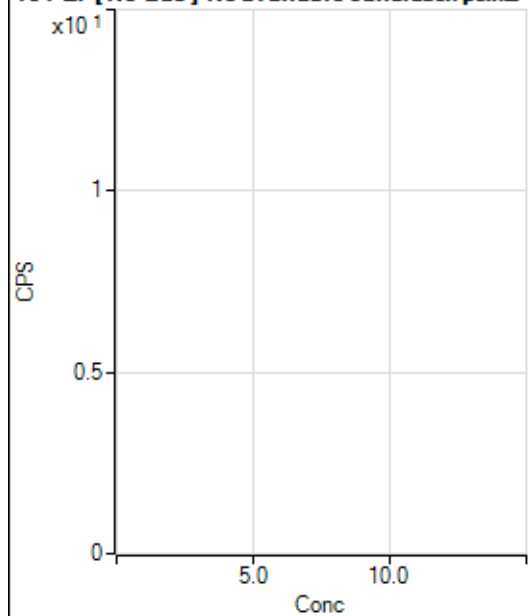
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐			4.44		P	43.4
3	☐			14.44		P	70.5
4	☐			16.66		P	34.6
5	☐			42.22		P	22.8
6	☐			98.89		P	17.0
7	☐			150.00		P	11.8
8	☐			111.11		P	45.1

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

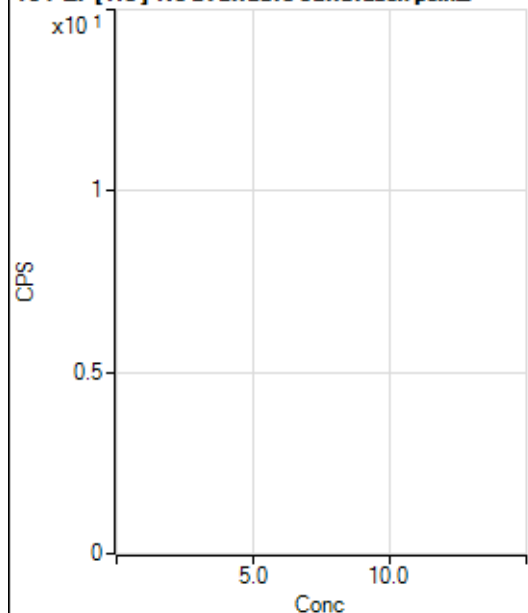
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			124.45		P	29.5
2	☐			101.11		P	7.6
3	☐			96.67		P	3.5
4	☐			113.34		P	0.0
5	☐			141.11		P	22.9
6	☐			137.78		P	9.8
7	☐			192.23		P	25.1
8	☐			284.45		P	8.2

160 Gd [He] No available calibration points

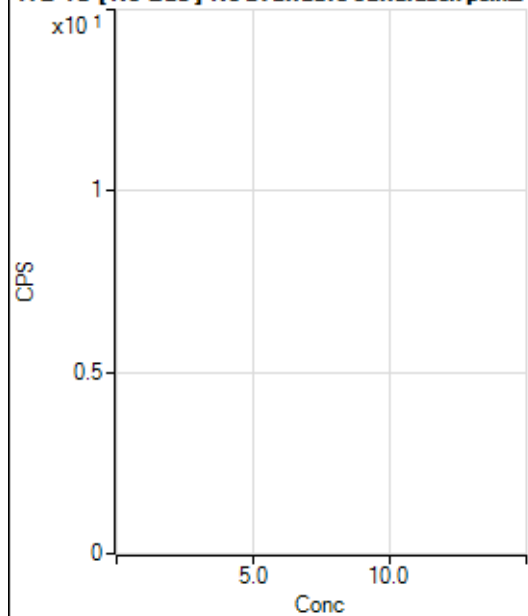
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			187.78		P	4.5
2	☐			180.00		P	21.0
3	☐			200.00		P	7.3
4	☐			197.78		P	8.3
5	☐			214.45		P	14.4
6	☐			211.12		P	9.6
7	☐			216.67		P	24.2
8	☐			326.68		P	8.0

164 Er [No Gas] No available calibration points

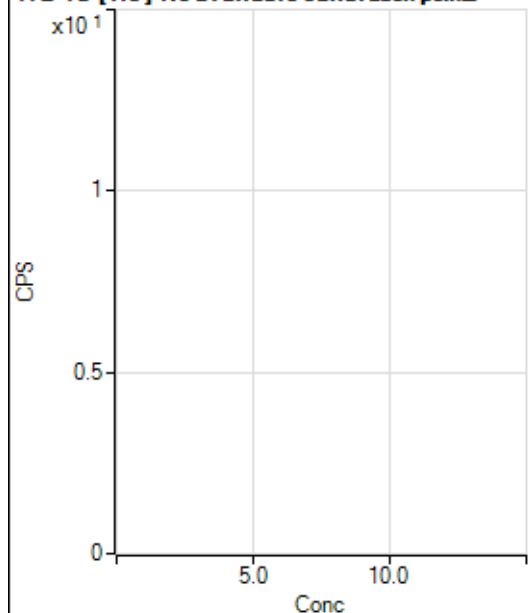
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			65.56		P	14.7
2	☐			81.11		P	11.9
3	☐			83.33		P	17.4
4	☐			83.33		P	22.3
5	☐			87.78		P	11.6
6	☐			117.78		P	26.9
7	☐			174.45		P	7.7
8	☐			326.68		P	15.9

164 Er [He] No available calibration points

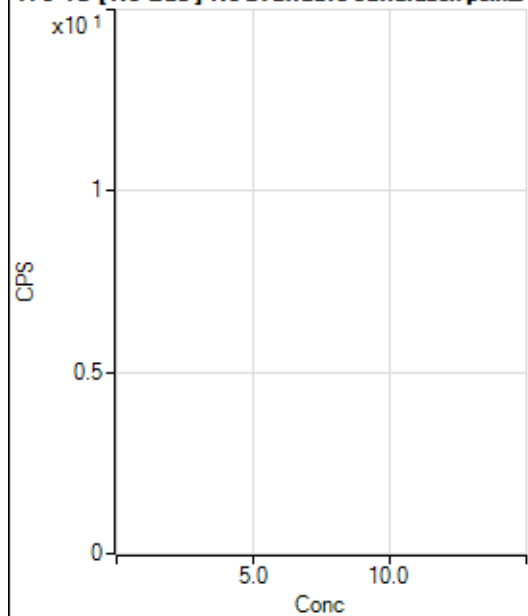
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			40.00		P	14.4
2	☐			33.33		P	20.0
3	☐			31.11		P	32.7
4	☐			44.44		P	11.5
5	☐			42.22		P	22.8
6	☐			56.67		P	21.2
7	☐			63.33		P	22.9
8	☐			104.44		P	37.8

172 Yb [No Gas] No available calibration points

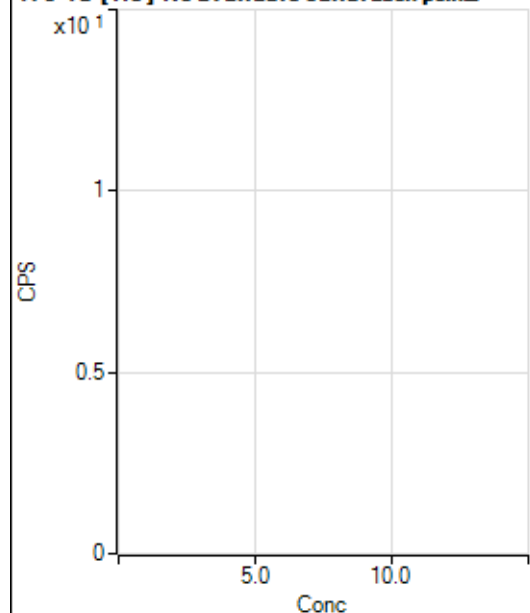
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			97.78		P	16.1
2	☐			85.56		P	18.4
3	☐			70.00		P	31.2
4	☐			94.44		P	10.2
5	☐			82.22		P	2.3
6	☐			117.78		P	18.4
7	☐			152.23		P	14.1
8	☐			405.57		P	11.7

172 Yb [He] No available calibration points

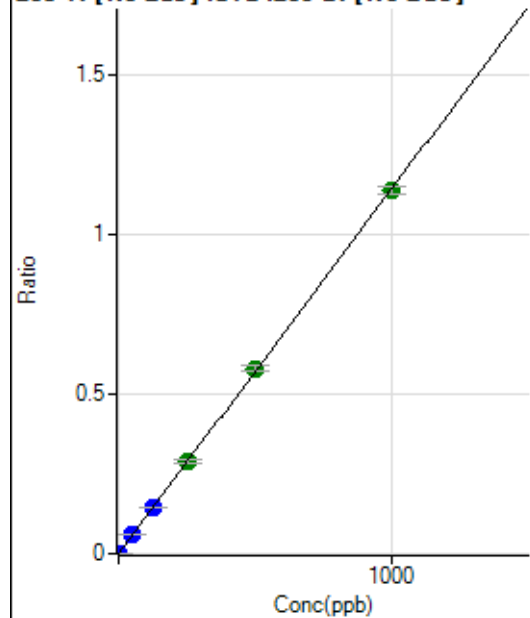
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			31.11		P	16.4
2	☐			34.44		P	43.6
3	☐			35.56		P	5.4
4	☐			32.22		P	29.8
5	☐			41.11		P	36.6
6	☐			46.67		P	24.7
7	☐			65.56		P	14.7
8	☐			177.78		P	7.8

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1543.44		P	6.9
2	☐			1567.89		P	2.3
3	☐			3144.85		P	2.3
4	☐			5444.51		P	1.7
5	☐			9425.66		P	1.2
6	☐			17404.90		P	1.4
7	☐			33373.29		P	1.3
8	☐			1634.56		P	4.4

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16094.39		P	0.1
2	☐			15982.00		P	0.7
3	☐			16599.45		P	1.0
4	☐			17131.23		P	0.7
5	☐			19208.52		P	0.3
6	☐			23033.54		P	2.5
7	☐			29529.72		P	1.9
8	☐			16302.42		P	0.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	93.34	0.0000	P	5.2
2	☐	1.000	0.927	7428.87	0.0011	P	2.4
3	☐	50.000	50.892	392585.64	0.0582	P	1.5
4	☐	125.000	125.022	966243.90	0.1431	P	1.2
5	☐	250.000	252.402	1961954.69	0.2888	A	3.5
6	☐	500.000	508.617	3982802.44	0.5819	A	2.2
7	☐	1000.000	995.044	7727027.31	1.1385	A	2.2
8	☐			2120.96	0.0003	P	101.

$$y = 0.0011 * x + 1.4086E-005$$

$$R = 0.9999$$

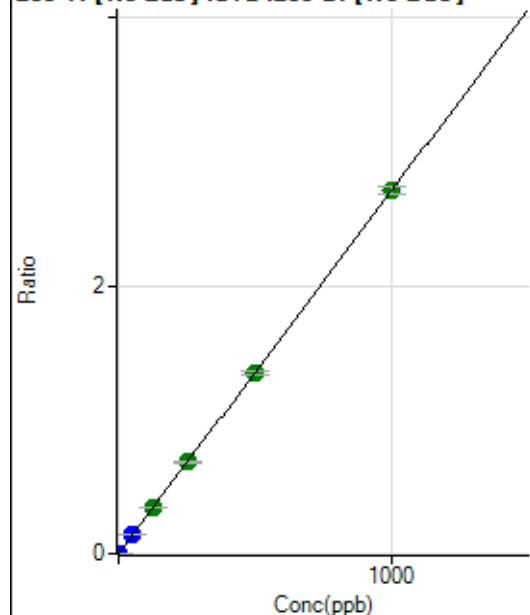
$$DL = 0.001933$$

$$BEC = 0.01231$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	216.67	0.0000	P	4.2
2	☐	1.000	0.939	17804.56	0.0026	P	3.0
3	☐	50.000	51.367	937540.99	0.1391	P	2.3
4	☐	125.000	127.408	2329952.88	0.3449	A	0.7
5	☐	250.000	252.186	4638615.90	0.6827	A	0.8
6	☐	500.000	498.258	9232513.75	1.3488	A	1.8
7	☐	1000.000	999.955	18372277.92	2.7069	A	2.1
8	☐			4645.78	0.0008	P	99.0

$$y = 0.0027 * x + 3.2708E-005$$

$$R = 1.0000$$

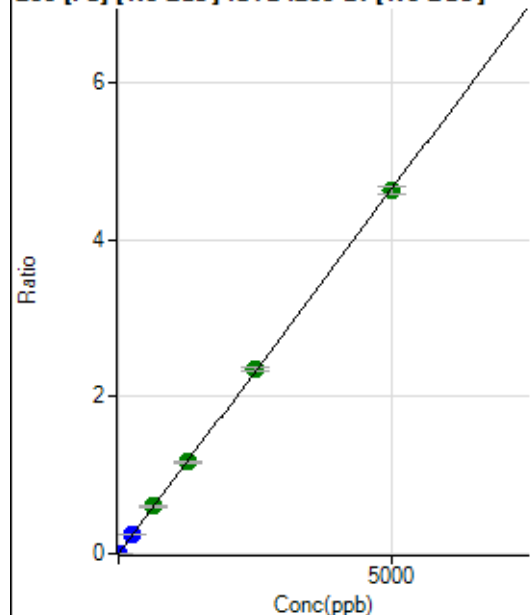
$$DL = 0.001515$$

$$BEC = 0.01208$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	304.45	0.0000	P	11.2
2	☐	1.000	0.930	6289.37	0.0009	P	3.9
3	☐	250.000	256.392	1604023.03	0.2380	P	1.4
4	☐	625.000	649.066	4068488.41	0.6023	A	1.3
5	☐	1250.000	1253.481	7903074.40	1.1632	A	2.7
6	☐	2500.000	2534.599	16097069.35	2.3520	A	2.0
7	☐	5000.000	4978.503	31356452.59	4.6198	A	2.0
8	☐			15434.38	0.0025	P	42.3

$$y = 9.2793E-004 * x + 4.5992E-005$$

$$R = 1.0000$$

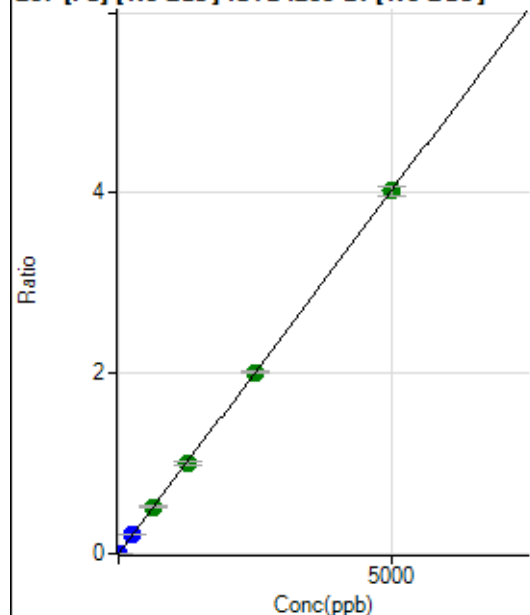
$$DL = 0.01669$$

$$BEC = 0.04956$$

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	244.45	0.0000	P	9.3
2	☐	1.000	0.948	5532.35	0.0008	P	4.0
3	☐	250.000	257.145	1395461.40	0.2070	P	1.7
4	☐	625.000	642.359	3492291.09	0.5171	A	3.5
5	☐	1250.000	1247.119	6819100.59	1.0039	A	4.1
6	☐	2500.000	2498.284	13763495.49	2.0110	A	1.6
7	☐	5000.000	4999.051	27311816.26	4.0240	A	2.5
8	☐			13082.92	0.0021	P	34.8

$$y = 8.0495\text{E-}004 * x + 3.6884\text{E-}005$$

$$R = 1.0000$$

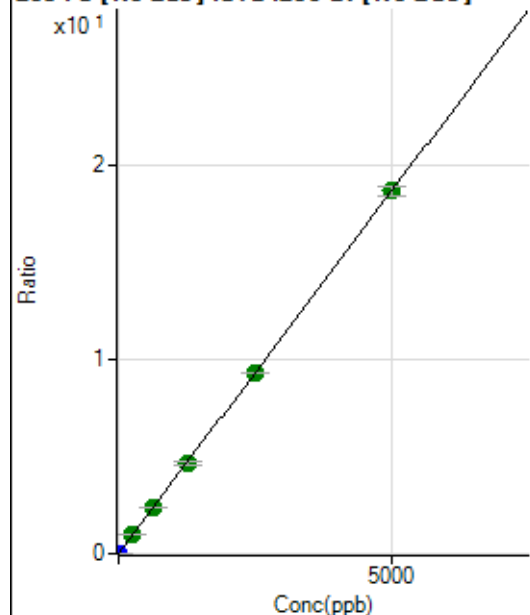
$$DL = 0.01284$$

$$BEC = 0.04582$$

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	1172.26	0.0002	P	0.6
2	☐	1.000	0.941	25540.19	0.0037	P	0.7
3	☐	250.000	255.048	6424086.81	0.9530	A	1.1
4	☐	625.000	632.701	15965791.25	2.3638	A	1.7
5	☐	1250.000	1247.570	31658941.40	4.6608	A	3.7
6	☐	2500.000	2487.934	63616933.22	9.2945	A	0.4
7	☐	5000.000	5005.425	126917573.3	18.6993	A	2.3
8	☐			59450.87	0.0097	P	35.3

$$y = 0.0037 * x + 1.7698\text{E-}004$$

$$R = 1.0000$$

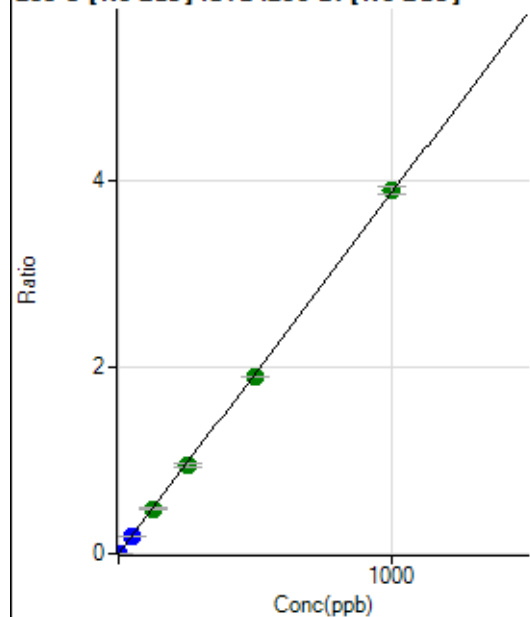
$$DL = 0.0008464$$

$$BEC = 0.04737$$

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	90.02	0.0000	P	132.
2	☐	1.000	0.889	23927.06	0.0035	P	2.4
3	☐	50.000	50.042	1307285.88	0.1939	P	1.3
4	☐	125.000	123.765	3239298.74	0.4796	A	2.5
5	☐	250.000	246.175	6480091.71	0.9540	A	3.6
6	☐	500.000	490.458	13009069.95	1.9006	A	0.4
7	☐	1000.000	1005.880	26456813.77	3.8979	A	2.0
8	☐			3145.52	0.0005	P	104.

$$y = 0.0039 * x + 1.3711E-005$$

$$R = 0.9999$$

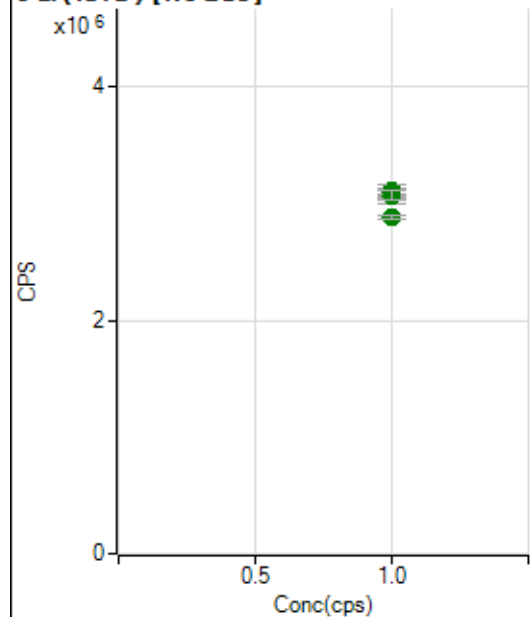
$$DL = 0.01404$$

$$BEC = 0.003538$$

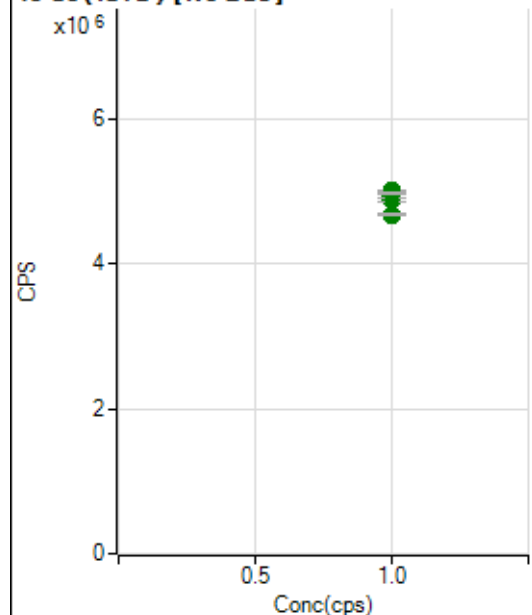
Weight: <None>

Min Conc: 0

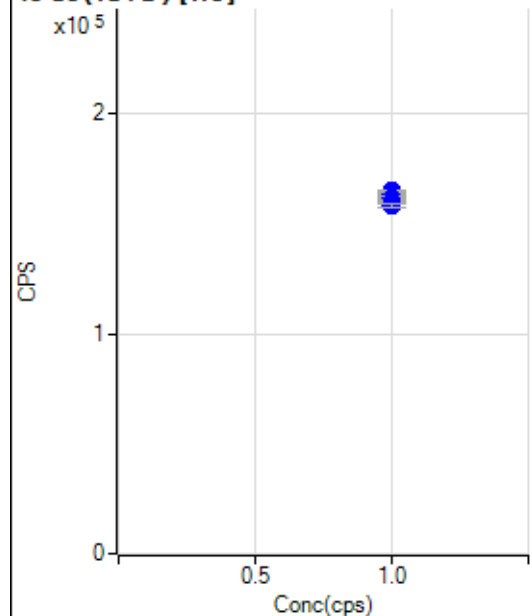
6 Li (ISTD) [No Gas]



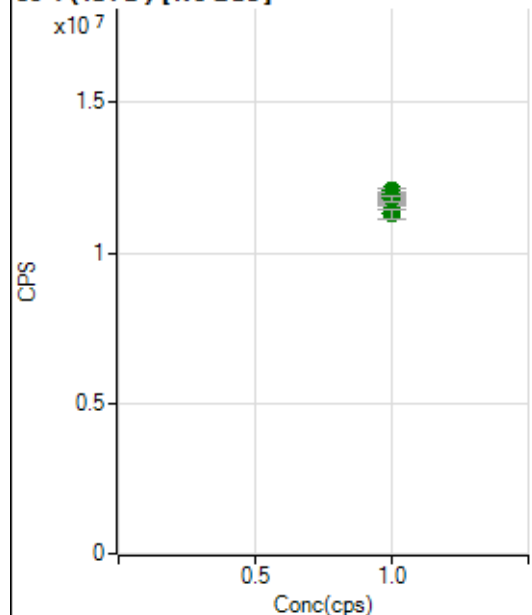
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3104533.61		A	1.4
2	☐	1.000		3108446.11		A	1.9
3	☐	1.000		3064302.18		A	3.9
4	☐	1.000		3108797.39		A	3.6
5	☐	1.000		3099167.30		A	2.5
6	☐	1.000		3104610.05		A	1.1
7	☐	1.000		3071299.56		A	2.4
8	☐	1.000		2887190.77		A	1.4

45 Sc (ISTD) [No Gas]

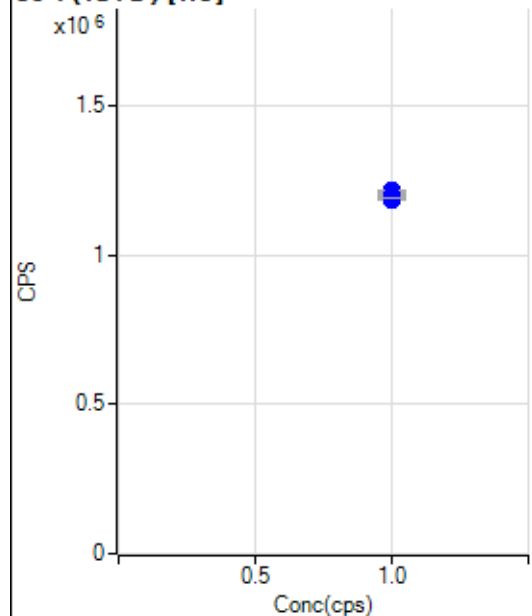
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4965625.72		A	2.2
2	☐	1.000		4970664.20		A	2.1
3	☐	1.000		4955146.45		A	1.7
4	☐	1.000		5003879.68		A	0.9
5	☐	1.000		4877062.01		A	1.1
6	☐	1.000		4938098.95		A	1.1
7	☐	1.000		4979917.74		A	0.5
8	☐	1.000		4677020.63		A	0.3

45 Sc (ISTD) [He]

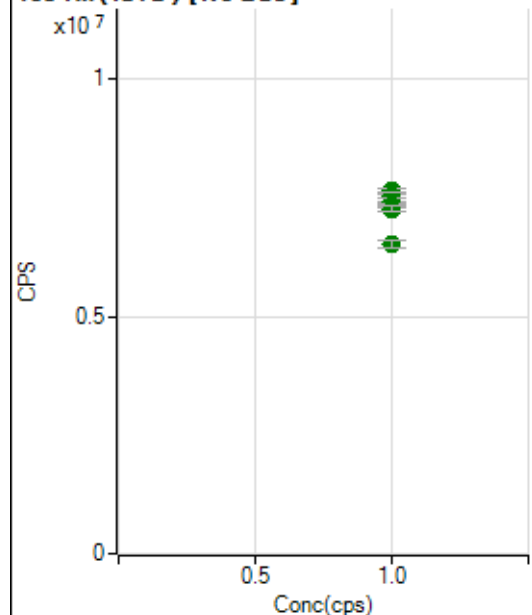
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		164013.04		P	1.2
2	☐	1.000		163625.50		P	0.9
3	☐	1.000		164810.16		P	0.7
4	☐	1.000		160858.64		P	0.6
5	☐	1.000		161703.59		P	0.8
6	☐	1.000		161485.63		P	0.8
7	☐	1.000		159543.89		P	0.4
8	☐	1.000		158212.75		P	0.7

89 Y (ISTD) [No Gas]

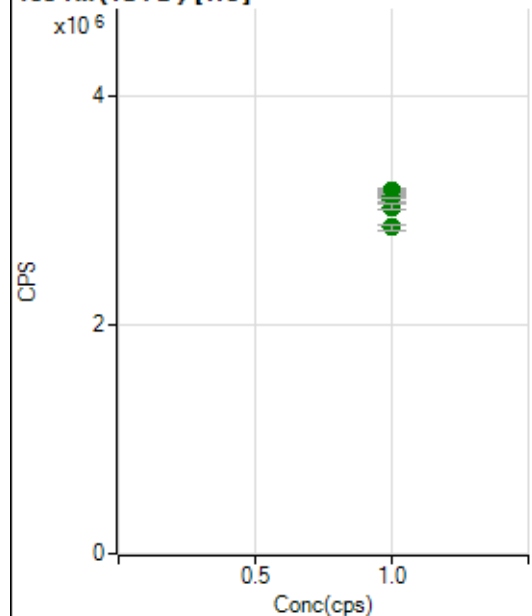
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11603035.52		A	2.3
2	☐	1.000		12060580.52		A	1.0
3	☐	1.000		11940133.43		A	0.3
4	☐	1.000		11626938.44		A	0.6
5	☐	1.000		11828825.66		A	0.4
6	☐	1.000		11982791.49		A	1.0
7	☐	1.000		11798793.16		A	1.3
8	☐	1.000		11292197.61		A	2.9

89 Y (ISTD) [He]

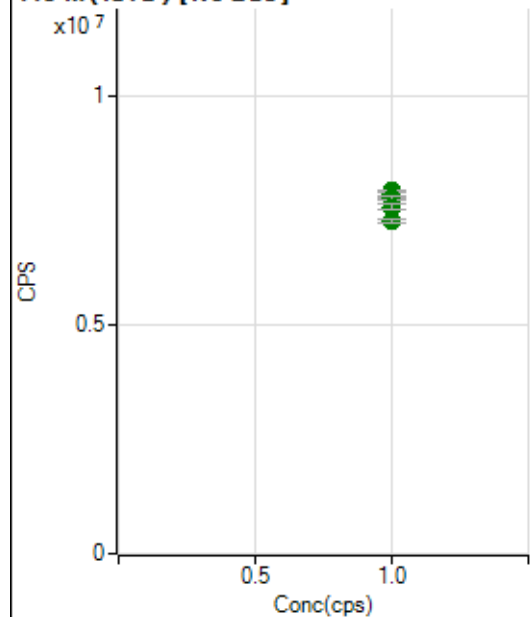
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1206117.31		P	0.5
2	☐	1.000		1213779.63		P	0.7
3	☐	1.000		1211763.79		P	0.7
4	☐	1.000		1194330.22		P	0.7
5	☐	1.000		1183804.52		P	0.5
6	☐	1.000		1191086.48		P	0.6
7	☐	1.000		1184302.45		P	0.4
8	☐	1.000		1188058.04		P	0.1

103 Rh (ISTD) [No Gas]

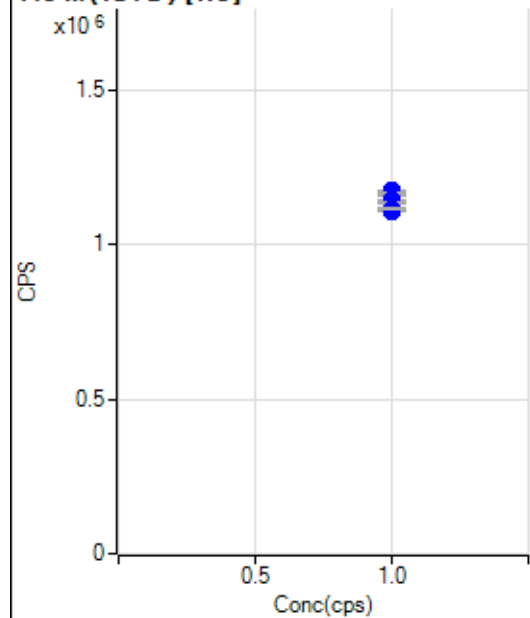
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7427079.33		A	2.4
2	☐	1.000		7647092.39		A	1.3
3	☐	1.000		7421164.68		A	0.4
4	☐	1.000		7555504.68		A	1.2
5	☐	1.000		7398959.96		A	2.3
6	☐	1.000		7331801.56		A	1.3
7	☐	1.000		7266566.35		A	1.6
8	☐	1.000		6540475.11		A	2.5

103 Rh (ISTD) [He]

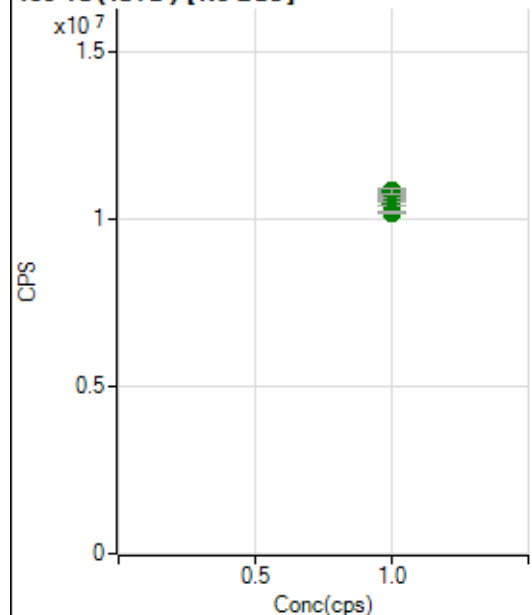
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3151152.56		A	2.0
2	☐	1.000		3171788.29		A	1.4
3	☐	1.000		3165819.89		A	0.9
4	☐	1.000		3141380.09		A	1.0
5	☐	1.000		3126479.36		A	0.8
6	☐	1.000		3092208.88		A	1.5
7	☐	1.000		3031707.56		A	1.9
8	☐	1.000		2849835.83		A	1.3

115 In (ISTD) [No Gas]

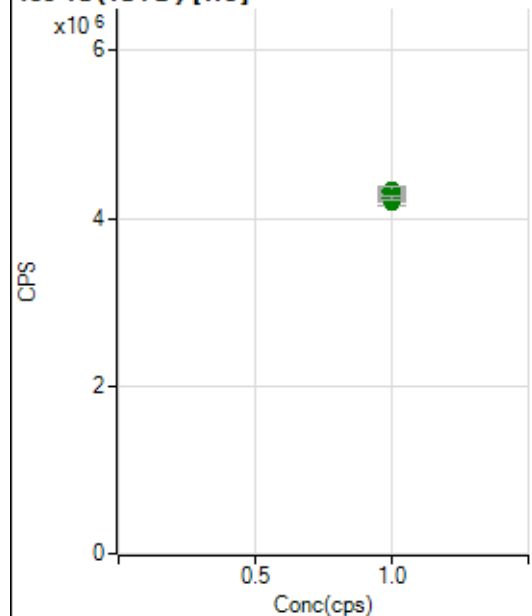
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7838227.10		A	1.7
2	☐	1.000		7853721.74		A	1.0
3	☐	1.000		7826822.98		A	1.7
4	☐	1.000		7922353.19		A	0.3
5	☐	1.000		7753746.50		A	3.2
6	☐	1.000		7768687.72		A	1.5
7	☐	1.000		7573789.74		A	1.6
8	☐	1.000		7257865.63		A	1.3

115 In (ISTD) [He]

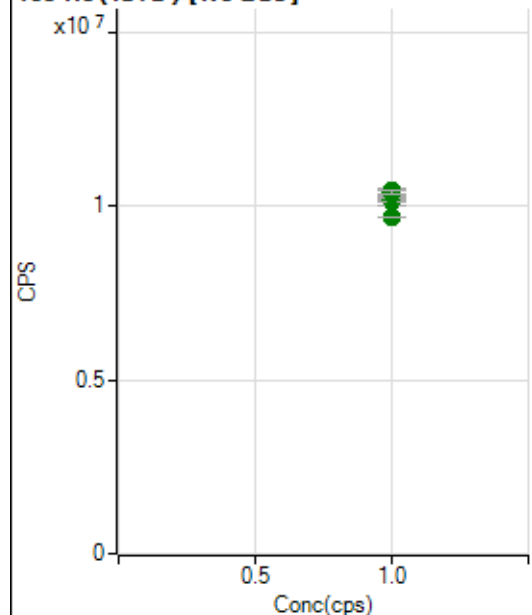
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1166359.20		P	1.0
2	☐	1.000		1173916.58		P	0.6
3	☐	1.000		1167199.39		P	0.5
4	☐	1.000		1144486.33		P	0.2
5	☐	1.000		1138854.27		P	0.3
6	☐	1.000		1138103.30		P	0.6
7	☐	1.000		1110407.51		P	0.5
8	☐	1.000		1115550.96		P	0.5

159 Tb (ISTD) [No Gas]

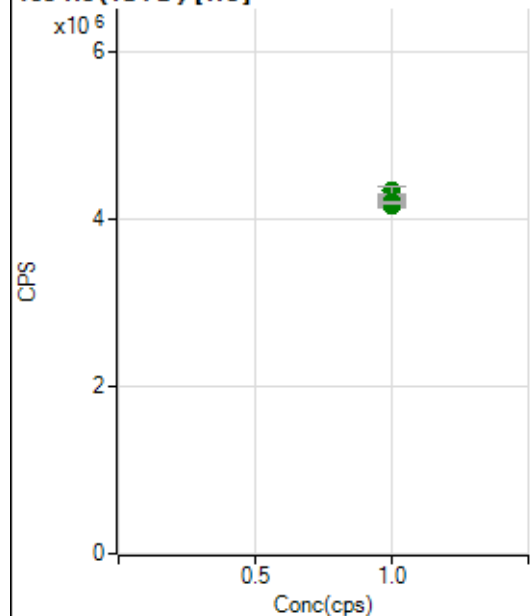
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10467190.05		A	1.5
2	☐	1.000		10604797.27		A	1.1
3	☐	1.000		10707046.23		A	1.4
4	☐	1.000		10668254.77		A	2.8
5	☐	1.000		10753489.56		A	2.0
6	☐	1.000		10769549.08		A	2.5
7	☐	1.000		10823668.45		A	1.2
8	☐	1.000		10179983.95		A	1.1

159 Tb (ISTD) [He]

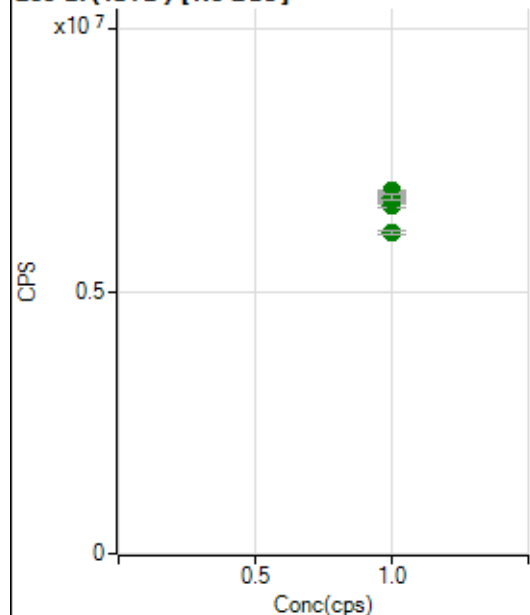
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4187029.35		A	1.6
2	☐	1.000		4272615.07		A	1.3
3	☐	1.000		4318315.56		A	0.4
4	☐	1.000		4249713.17		A	2.8
5	☐	1.000		4221367.06		A	1.5
6	☐	1.000		4324933.72		A	1.9
7	☐	1.000		4315991.95		A	2.6
8	☐	1.000		4242730.01		A	1.3

165 Ho (ISTD) [No Gas]

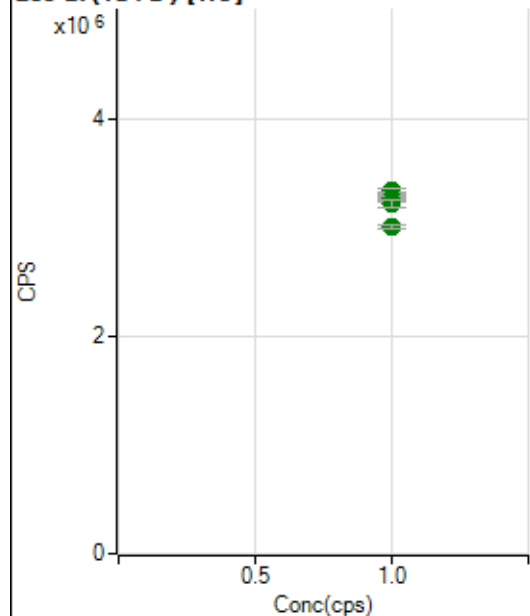
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10101891.66		A	2.1
2	☐	1.000		10427405.96		A	1.6
3	☐	1.000		10213098.32		A	0.5
4	☐	1.000		10270259.64		A	1.6
5	☐	1.000		10190575.40		A	1.5
6	☐	1.000		10345229.98		A	2.0
7	☐	1.000		10398473.46		A	0.7
8	☐	1.000		9686358.95		A	0.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4148544.69		A	0.8
2	☐	1.000		4174860.63		A	1.5
3	☐	1.000		4247558.79		A	2.2
4	☐	1.000		4217825.56		A	0.2
5	☐	1.000		4244664.83		A	1.8
6	☐	1.000		4253728.20		A	0.7
7	☐	1.000		4329110.87		A	2.2
8	☐	1.000		4187618.38		A	0.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6623798.79		A	1.2
2	☐	1.000		6915554.20		A	0.7
3	☐	1.000		6742024.14		A	2.0
4	☐	1.000		6754949.62		A	1.0
5	☐	1.000		6795107.33		A	1.5
6	☐	1.000		6844789.69		A	1.2
7	☐	1.000		6788807.47		A	1.5
8	☐	1.000		6127065.95		A	0.9

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3282097.10		A	2.0
2	☐	1.000		3295343.18		A	0.9
3	☐	1.000		3336848.81		A	1.1
4	☐	1.000		3275750.06		A	0.9
5	☐	1.000		3271630.33		A	1.3
6	☐	1.000		3245302.49		A	0.6
7	☐	1.000		3217115.23		A	2.2
8	☐	1.000		3012491.34		A	1.1

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8070624-MS.b

Acq. Date-Time 2024-07-06 12:17:33

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		9027	90270.05			0.699	5.000
24		73652	736519.63			1.690	5.000
25		9948	99479.45			0.704	5.000
26		11575	115750.48			1.072	5.000
59		68100	680997.87			0.508	5.000
113		7965	79654.25			0.854	5.000
115		102171	1021713.80			0.763	5.000
206		27240	272398.87			1.335	5.000
207		24616	246163.26			1.727	5.000
208		58341	583406.33			1.654	5.000
220		0	3.40			40.807	

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

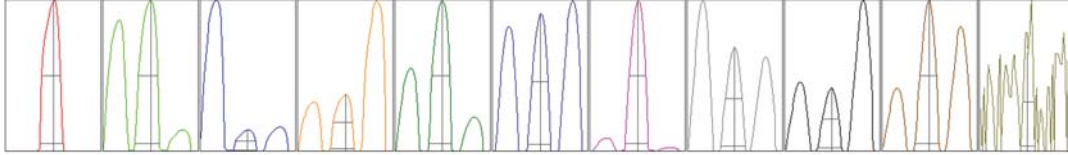
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	9100	9090	9000	8969	8977
24	72957	72438	73482	75704	73677
25	9885	9860	10005	9984	10006
26	11462	11455	11551	11725	11682
59	67932	67832	68026	68007	68703
113	7922	7925	7910	8002	8068
115	101941	101382	102915	101546	103072
206	27021	26705	27443	27544	27487
207	24175	24136	24896	24853	25022
208	57375	57239	58741	59055	59293

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	1	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	16724.05	9.05	8.90 - 9.10	
24	128168.42	24.05	23.90 - 24.10	
25	17528.77	25.00	24.90 - 25.10	
26	20291.47	26.05	25.90 - 26.10	
59	128250.19	59.00	58.90 - 59.10	
113	16420.09	113.05	112.90 - 113.10	
115	206064.54	115.05	114.90 - 115.10	
206	53573.34	206.00	205.90 - 206.10	
207	48710.58	207.00	206.90 - 207.10	
208	116341.57	208.00	207.90 - 208.10	
220	0.45	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.732	0.900	
24	0.60	0.778	0.900	
25	0.61	0.738	0.900	
26	0.60	0.753	0.900	
59	0.56	0.728	0.900	
113	0.50	0.720	0.900	
115	0.52	0.723	0.900	
206	0.52	0.777	0.900	
207	0.52	0.754	0.900	
208	0.52	0.761	0.900	
220	0.35	0.440		

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	12.5 V	Deflect	15.0 V
Extract 2	-235.0 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	170 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		14138	141382.21			3.497	
89		10779	107788.65			3.578	
205		18022	180221.07			4.499	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	14457	14297	14362	14315	13261
89	10964	10973	11015	10843	10099
205	18546	18657	18261	18000	16646

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	12.5 V	Deflect	4.0 V
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US EPA Tune Check Report

Extract 2	-235.0 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	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
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EM

Discriminator	3.8 mV	Analog HV	2135 V	Pulse HV	964 V
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