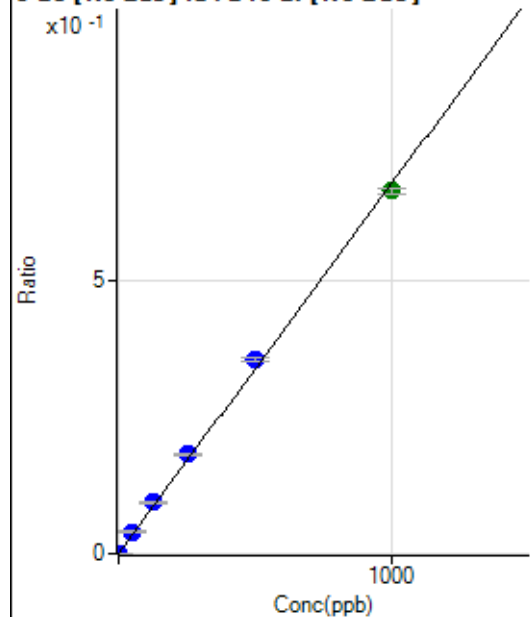


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7092923 MS.b\
Analysis File: P7092923 MS.batch.bin
DA Date-Time: 2023-09-29 17:37:14
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-09-29 11:23:00
2	005CALS.d	S02	2023-09-29 11:26:16
3	007CALS.d	S03	2023-09-29 11:32:50
4	008CALS.d	S04	2023-09-29 11:35:55
5	009CALS.d	S05	2023-09-29 11:38:49
6	010CALS.d	S06	2023-09-29 11:41:39
7	013CALS.d	S07	2023-09-29 11:50:27
8	014CALS.d	S08	2023-09-29 11:53:16

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	84.45	0.0000	P	18.8
2	☐	1.000	1.107	1865.68	0.0008	P	7.9
3	☐	50.000	58.245	91377.43	0.0395	P	8.6
4	☐	125.000	138.324	222774.06	0.0938	P	1.2
5	☐	250.000	269.930	425318.05	0.1830	P	2.1
6	☐	500.000	523.789	824488.44	0.3551	P	1.6
7	☐	1000.000	981.045	1499654.21	0.6651	A	1.5
8	☐			686.69	0.0003	P	19.8

$$y = 6.7792\text{E-}004 * x + 3.6259\text{E-}005$$

$$R = 0.9993$$

$$DL = 0.03024$$

$$BEC = 0.05349$$

Weight: <None>

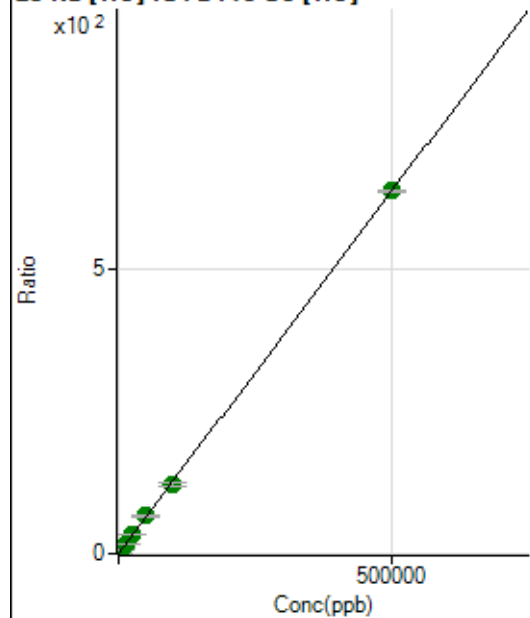
Min Conc: 0

12 C [No Gas] No available calibration points

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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12432.89	0.0269	P	2.6
2	☐	500.000	500.899	299676.00	0.6637	P	2.7
3	☐	5000.000	5260.494	3048096.27	6.7149	A	0.6
4	☐	12500.000	13196.632	7388588.30	16.8045	A	0.4
5	☐	25000.000	26077.318	14500453.39	33.1805	A	0.4
6	☐	50000.000	51952.237	28867722.90	66.0767	A	1.4
7	☐	100000.00	95199.893	55535825.28	121.0599	A	5.2
8	☐	500000.00	500690.91	255290758.4	636.5835	A	0.7

$$y = 0.0013 * x + 0.0269$$

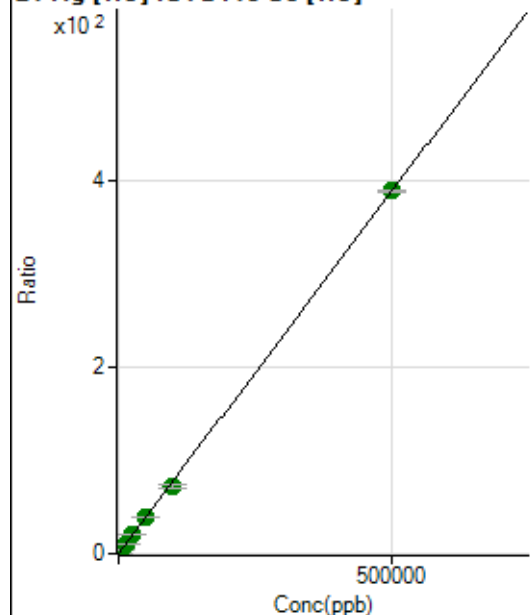
$$R = 0.9999$$

$$DL = 1.657$$

$$BEC = 21.18$$

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	656.69	0.0014	P	8.2
2	☐	500.000	500.001	175905.85	0.3896	P	2.1
3	☐	5000.000	5268.730	1857358.48	4.0915	A	0.7
4	☐	12500.000	13217.601	4511724.14	10.2622	A	0.6
5	☐	25000.000	25935.584	8799490.22	20.1351	A	0.8
6	☐	50000.000	51518.156	17473847.65	39.9948	A	0.6
7	☐	100000.00	94015.525	33477724.50	72.9853	A	5.6
8	☐	500000.00	500977.67	155965286.5	388.9085	A	0.4

$$y = 7.7630E-004 * x + 0.0014$$

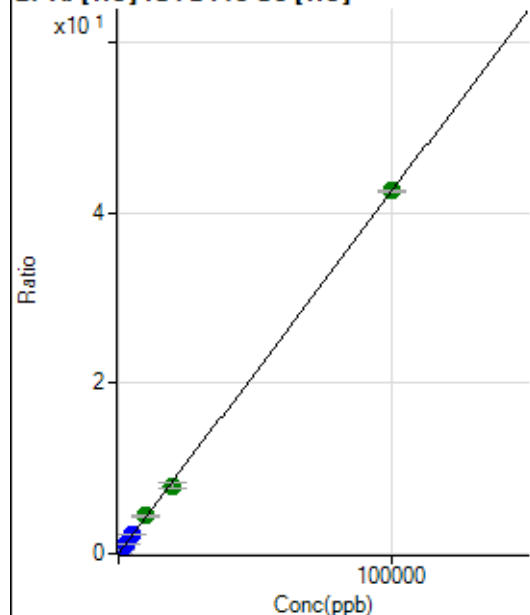
$$R = 0.9999$$

$$DL = 0.4493$$

$$BEC = 1.832$$

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	140.00	0.0003	P	16.6
2	☐	20.000	23.155	4580.77	0.0101	P	3.1
3	☐	1000.000	1133.210	218818.56	0.4820	P	0.8
4	☐	2500.000	2773.465	518479.81	1.1793	P	0.4
5	☐	5000.000	5468.482	1016049.63	2.3249	P	0.4
6	☐	10000.000	10395.047	1930646.52	4.4192	A	1.6
7	☐	20000.000	18816.332	3667799.42	7.9990	A	6.6
8	☐	100000.00	100165.63	17075995.72	42.5801	A	0.4

$$y = 4.2509E-004 * x + 3.0312E-004$$

$$R = 0.9999$$

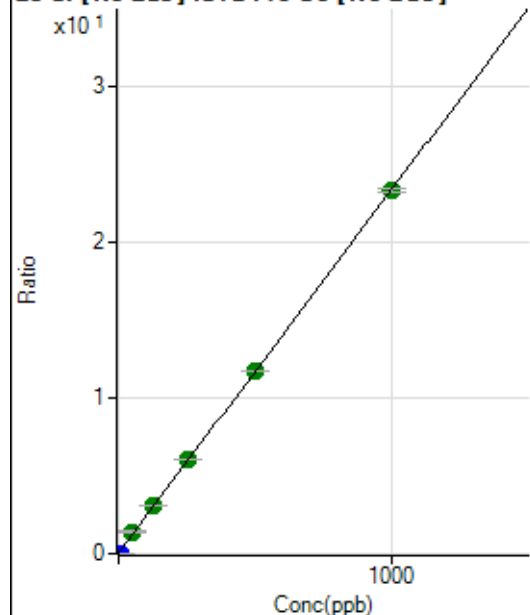
$$DL = 0.3547$$

$$BEC = 0.7131$$

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	277330.90	0.0491	P	2.6
2	☐	10.000	0.508	352846.55	0.0609	P	0.8
3	☐	50.000	57.013	7437527.25	1.3777	A	8.5
4	☐	125.000	132.417	17427639.19	3.1348	A	0.6
5	☐	250.000	259.152	33096178.39	6.0881	A	0.3
6	☐	500.000	499.260	63870000.16	11.6834	A	0.3
7	☐	1000.000	996.899	122928277.0	23.2799	A	1.2
8	☐			376975.34	0.0747	P	2.6

$$y = 0.0233 * x + 0.0491$$

$$R = 0.9998$$

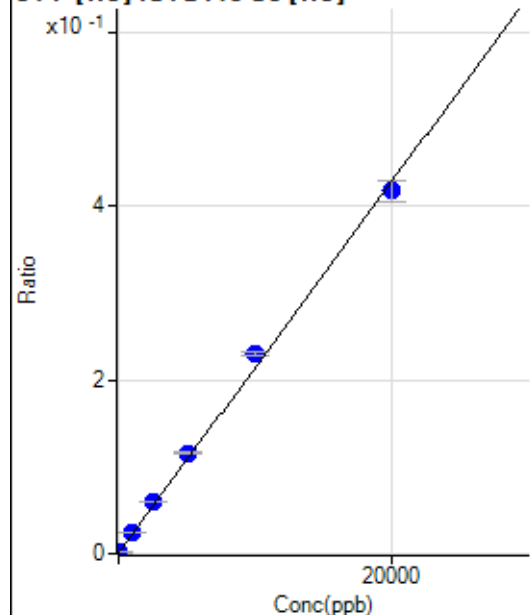
$$DL = 0.1612$$

$$BEC = 2.107$$

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	-10.007	406.68	0.0009	P	6.3
2	☐	0.000	10.007	590.02	0.0013	P	8.1
3	☐	1000.000	1073.290	10902.85	0.0240	P	2.5
4	☐	2500.000	2759.028	26389.48	0.0600	P	2.0
5	☐	5000.000	5383.455	50731.57	0.1161	P	0.9
6	☐	10000.000	10710.998	100431.14	0.2299	P	1.4
7	☐	20000.000	19512.594	191683.68	0.4179	P	5.5
8	☐			443.35	0.0011	P	5.3

$$y = 2.1360E-005 * x + 0.0011$$

$$R = 0.9988$$

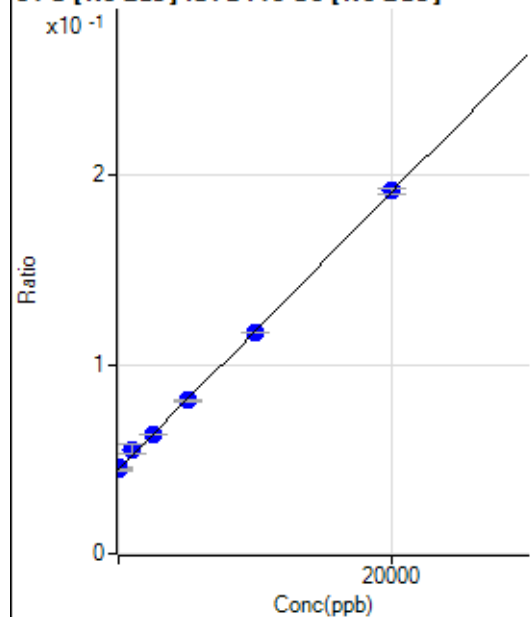
$$DL = 11.38$$

$$BEC = 51.23$$

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	65.770	255935.43	0.0453	P	2.5
2	☐	0.000	-65.770	256793.60	0.0444	P	1.0
3	☐	1000.000	1412.826	297950.50	0.0552	P	8.6
4	☐	2500.000	2524.063	352138.63	0.0633	P	0.3
5	☐	5000.000	4921.189	439862.21	0.0809	P	0.8
6	☐	10000.000	9852.259	640000.23	0.1171	P	0.3
7	☐	20000.000	20069.924	1013772.32	0.1920	P	1.3
8	☐			214705.16	0.0426	P	1.0

$$y = 7.3320\text{E-}006 * x + 0.0448$$

$$R = 0.9997$$

$$DL = 322.2$$

$$BEC = 6115$$

Weight: <None>

Min Conc: 0

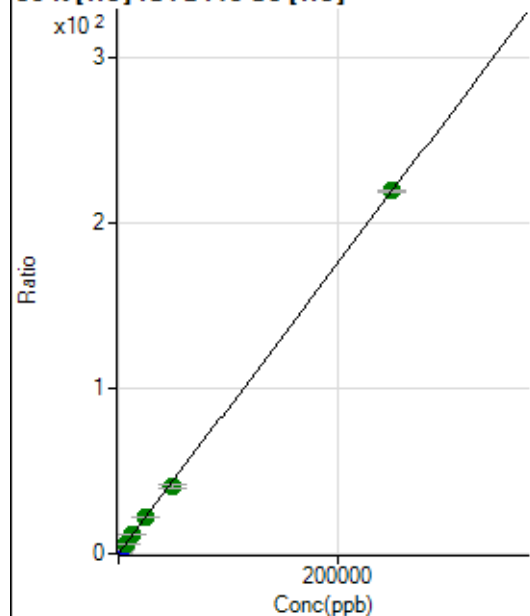
35 Cl [No Gas] No available calibration points



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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	62371.49	0.1351	P	0.5
2	☐	500.000	512.068	263071.78	0.5826	P	2.1
3	☐	2500.000	2788.343	1167563.41	2.5721	P	0.6
4	☐	6250.000	6491.803	2554050.80	5.8090	A	0.2
5	☐	12500.000	12688.504	4905471.04	11.2250	A	0.9
6	☐	25000.000	25320.873	9728304.51	22.2659	A	0.6
7	☐	50000.000	46764.780	18808888.05	41.0083	A	5.8
8	☐	250000.00	250596.57	87892278.69	219.1609	A	0.4

$$y = 8.7402\text{E-}004 * x + 0.1351$$

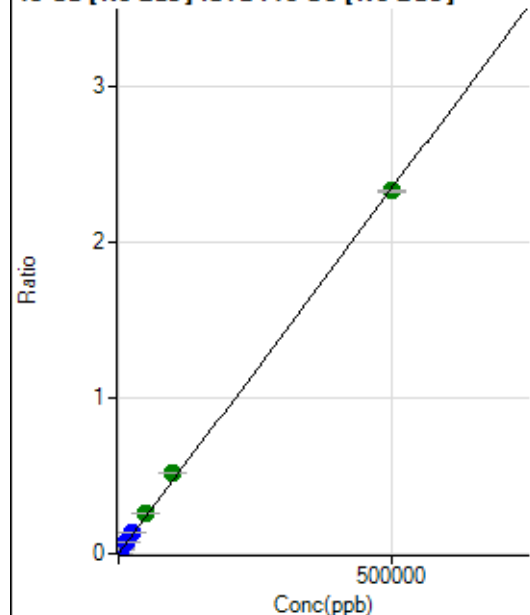
$$R = 0.9999$$

$$DL = 2.454$$

$$BEC = 154.5$$

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	786.70	0.0001	P	10.9
2	☐	500.000	479.876	13838.61	0.0024	P	0.9
3	☐	5000.000	6355.006	161650.48	0.0300	P	9.0
4	☐	12500.000	15004.048	392068.64	0.0705	P	0.4
5	☐	25000.000	29626.777	756284.02	0.1391	P	0.6
6	☐	50000.000	55279.242	1418416.78	0.2595	A	1.9
7	☐	100000.00	110328.31	2733766.97	0.5177	A	0.5
8	☐	500000.00	497098.94	11766575.52	2.3321	A	0.5

$$y = 4.6911\text{E-}006 * x + 1.3904\text{E-}004$$

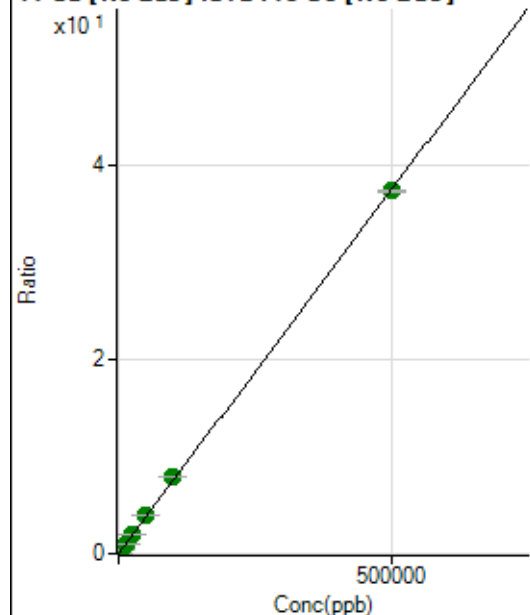
$$R = 0.9997$$

$$DL = 9.654$$

$$BEC = 29.64$$

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	13785.28	0.0024	P	1.3
2	☐	500.000	477.381	221052.36	0.0382	P	0.2
3	☐	5000.000	5797.568	2357420.62	0.4365	A	7.6
4	☐	12500.000	13567.350	5660180.61	1.0181	A	0.8
5	☐	25000.000	26878.634	10952146.64	2.0147	A	0.5
6	☐	50000.000	53058.612	21727748.01	3.9746	A	1.3
7	☐	100000.00	105486.34	41714358.55	7.8995	A	1.2
8	☐	500000.00	498468.30	188298194.9	37.3196	A	0.5

$$y = 7.4864\text{E-}005 * x + 0.0024$$

$$R = 0.9999$$

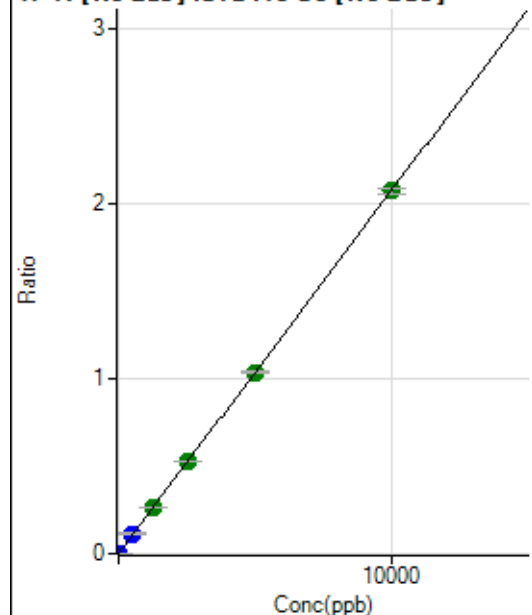
$$DL = 1.271$$

$$BEC = 32.6$$

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	75.55	0.0000	P	40.1
2	☐	5.000	4.843	5887.87	0.0010	P	2.5
3	☐	500.000	550.166	615250.93	0.1140	P	9.2
4	☐	1250.000	1274.941	1468665.57	0.2642	A	0.3
5	☐	2500.000	2540.880	2862096.52	0.5265	A	0.9
6	☐	5000.000	4984.559	5645999.92	1.0328	A	1.0
7	☐	10000.000	9991.874	10932552.62	2.0703	A	1.6
8	☐			2285.75	0.0005	P	8.2

$$y = 2.0720E-004 * x + 1.3452E-005$$

$$R = 1.0000$$

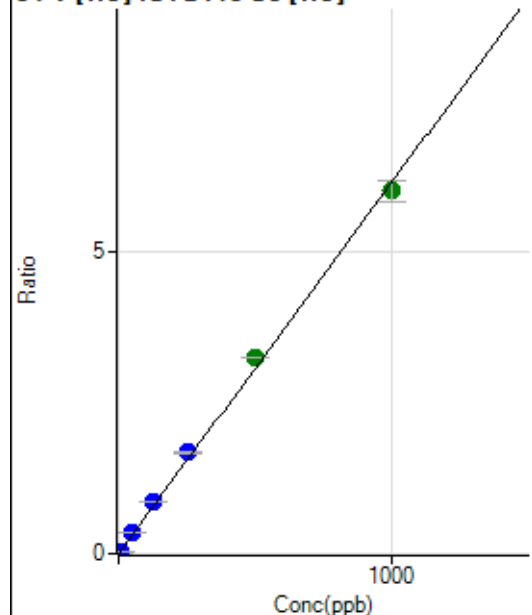
$$DL = 0.07812$$

$$BEC = 0.06492$$

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	10.00	0.0000	P	33.3
2	☐	5.000	5.066	14028.82	0.0311	P	2.7
3	☐	50.000	55.105	153336.37	0.3378	P	0.7
4	☐	125.000	138.183	372400.03	0.8470	P	0.5
5	☐	250.000	272.436	729811.42	1.6700	P	0.3
6	☐	500.000	528.768	1416072.13	3.2412	A	0.7
7	☐	1000.000	978.103	2749750.62	5.9955	A	5.9
8	☐			912.26	0.0023	P	12.6

$$y = 0.0061 * x + 2.1652E-005$$

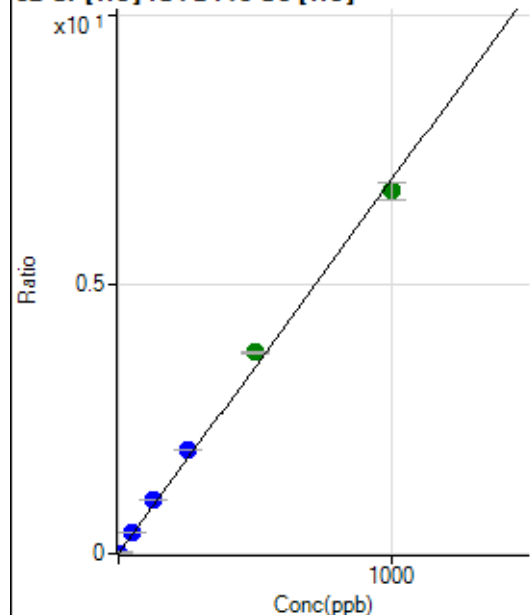
$$R = 0.9991$$

$$DL = 0.003534$$

$$BEC = 0.003532$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1025.60	0.0022	P	5.1
2	☐	2.000	2.237	8013.31	0.0178	P	5.3
3	☐	50.000	56.170	178074.38	0.3923	P	0.8
4	☐	125.000	142.097	434795.70	0.9890	P	1.1
5	☐	250.000	278.598	846471.51	1.9369	P	0.1
6	☐	500.000	538.941	1636117.18	3.7448	A	1.1
7	☐	1000.000	970.934	3095019.29	6.7447	A	4.4
8	☐			12715.45	0.0317	P	1.2

$$y = 0.0069 * x + 0.0022$$

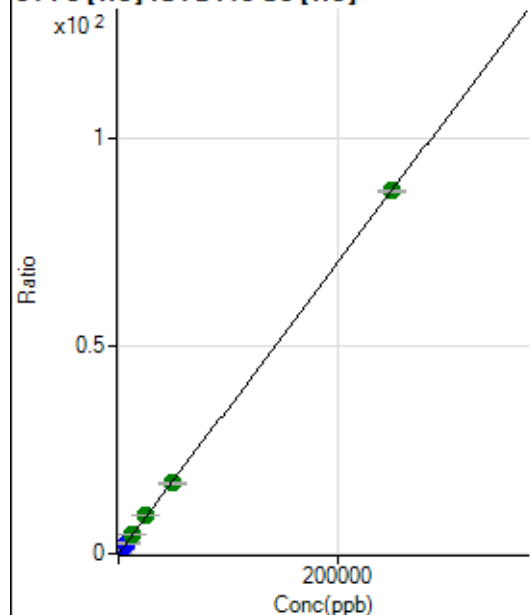
$$R = 0.9983$$

$$DL = 0.04921$$

$$BEC = 0.3198$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1873.47	0.0041	P	7.0
2	☐	50.000	57.111	10837.33	0.0240	P	2.3
3	☐	2500.000	2905.422	462428.02	1.0187	P	0.4
4	☐	6250.000	7254.990	1115720.30	2.5377	P	0.9
5	☐	12500.000	13359.083	2040547.47	4.6694	A	1.7
6	☐	25000.000	26515.177	4047367.86	9.2638	A	0.7
7	☐	50000.000	48465.822	7766956.48	16.9295	A	5.0
8	☐	250000.00	250083.18	35025859.76	87.3394	A	0.5

$$y = 3.4923E-004 * x + 0.0041$$

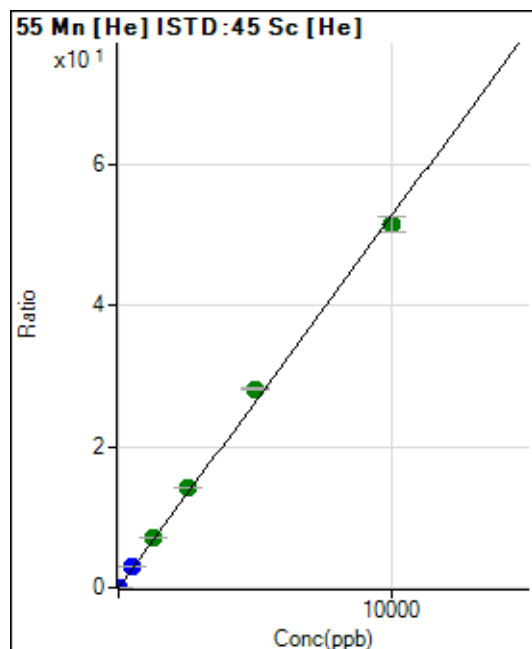
$$R = 0.9999$$

$$DL = 2.427$$

$$BEC = 11.62$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	367.78	0.0008	P	3.8
2	☐	1.000	1.156	3112.57	0.0069	P	4.7
3	☐	500.000	565.381	1354210.31	2.9832	P	0.1
4	☐	1250.000	1360.362	3155461.03	7.1768	A	0.4
5	☐	2500.000	2669.438	6154315.47	14.0823	A	0.3
6	☐	5000.000	5355.630	12343077.59	28.2522	A	1.0
7	☐	10000.000	9762.761	23632036.87	51.5001	A	4.4
8	☐			13836.46	0.0345	P	0.6

$$y = 0.0053 * x + 7.9645E-004$$

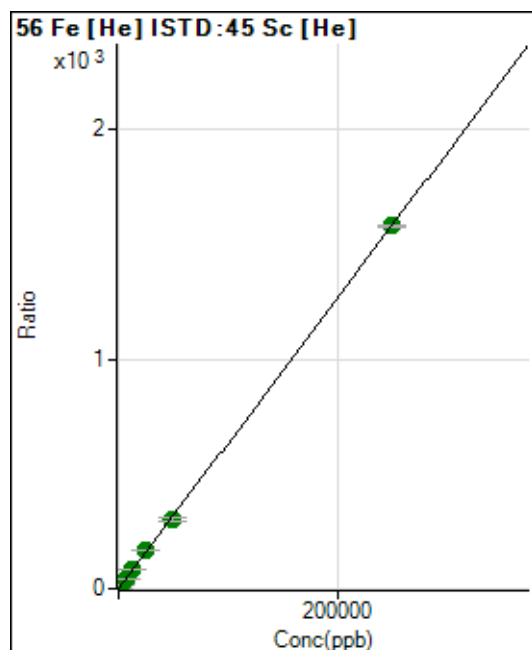
$$R = 0.9989$$

$$DL = 0.0173$$

$$BEC = 0.151$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16351.20	0.0354	P	2.4
2	☐	50.000	54.696	171808.85	0.3805	P	2.9
3	☐	2500.000	2673.779	7674493.08	16.9070	A	1.0
4	☐	6250.000	6706.926	18622636.67	42.3562	A	1.0
5	☐	12500.000	13174.482	36345606.68	83.1665	A	0.6
6	☐	25000.000	26390.301	72765336.14	166.5585	A	1.7
7	☐	50000.000	48028.576	139053925.7	303.0963	A	5.0
8	☐	250000.00	250208.36	633171768.3	1,578.853	A	0.4

$$y = 0.0063 * x + 0.0354$$

$$R = 0.9999$$

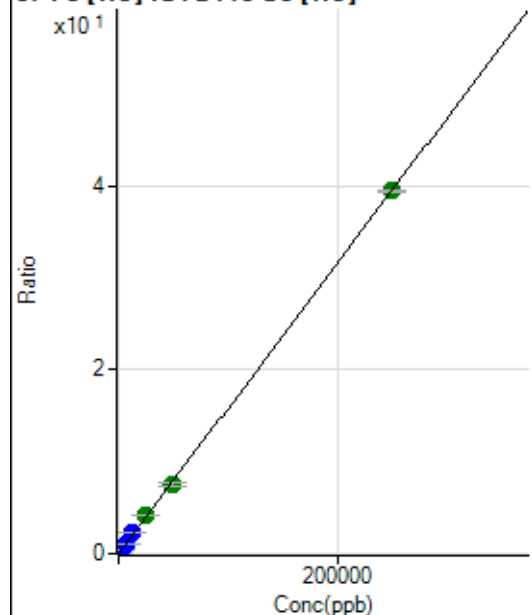
$$DL = 0.4033$$

$$BEC = 5.611$$

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	774.47	0.0017	P	13.3
2	☐	50.000	55.782	4728.56	0.0105	P	4.2
3	☐	2500.000	2862.197	205706.57	0.4532	P	0.3
4	☐	6250.000	7246.983	503302.07	1.1448	P	0.9
5	☐	12500.000	14193.301	979149.52	2.2405	P	0.2
6	☐	25000.000	26403.925	1820326.71	4.1666	A	2.1
7	☐	50000.000	47745.943	3456114.88	7.5331	A	4.9
8	☐	250000.00	250197.20	15827688.37	39.4675	A	0.8

$$y = 1.5774\text{E-}004 * x + 0.0017$$

$$R = 0.9999$$

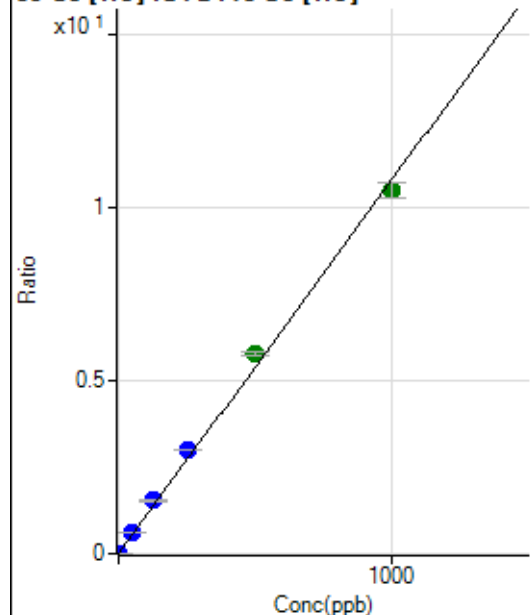
$$DL = 4.245$$

$$BEC = 10.63$$

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	57.78	0.0001	P	38.7
2	☐	1.000	1.028	5059.79	0.0112	P	1.8
3	☐	50.000	57.016	279053.84	0.6147	P	0.9
4	☐	125.000	142.019	673121.23	1.5311	P	1.3
5	☐	250.000	278.426	1311718.69	3.0015	P	0.6
6	☐	500.000	537.451	2531146.70	5.7938	A	1.8
7	☐	1000.000	971.690	4806742.67	10.4748	A	4.3
8	☐			8217.86	0.0205	P	1.3

$$y = 0.0108 * x + 1.2523\text{E-}004$$

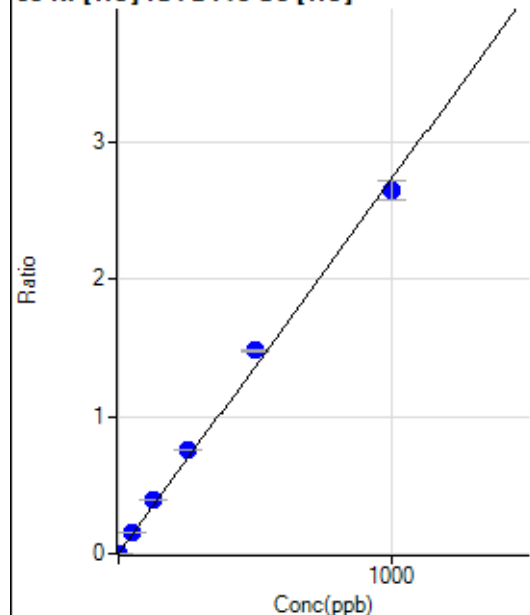
$$R = 0.9984$$

$$DL = 0.01348$$

$$BEC = 0.01162$$

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	172.22	0.0004	P	6.1
2	☐	1.000	1.149	1583.43	0.0035	P	2.5
3	☐	50.000	57.332	71119.65	0.1567	P	0.6
4	☐	125.000	142.419	170871.85	0.3886	P	0.4
5	☐	250.000	277.269	330503.17	0.7563	P	0.9
6	☐	500.000	543.020	646959.84	1.4808	P	0.4
7	☐	1000.000	969.129	1212187.04	2.6425	P	5.3
8	☐			3653.82	0.0091	P	2.2

$$y = 0.0027 * x + 3.7289E-004$$

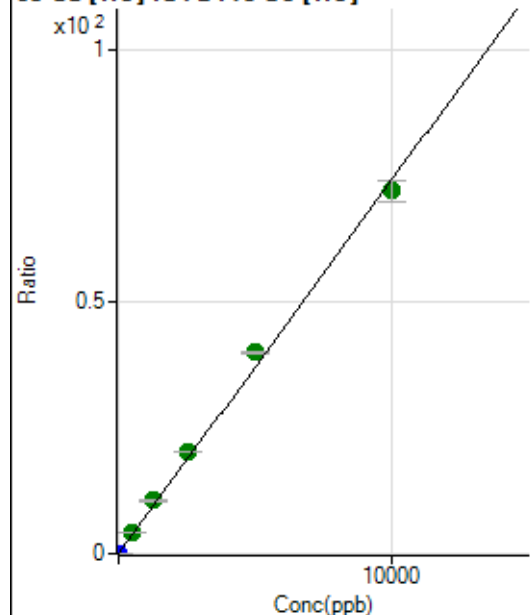
$$R = 0.9981$$

$$DL = 0.0249$$

$$BEC = 0.1368$$

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	1033.38	0.0022	P	2.1
2	☐	2.000	2.231	8485.80	0.0188	P	2.9
3	☐	500.000	571.014	1925088.17	4.2409	A	0.8
4	☐	1250.000	1419.621	4633994.10	10.5402	A	1.1
5	☐	2500.000	2740.698	8891809.66	20.3466	A	0.6
6	☐	5000.000	5398.063	17507983.63	40.0724	A	0.7
7	☐	10000.000	9716.041	33080197.84	72.1250	A	5.8
8	☐			9727.68	0.0243	P	2.8

$$y = 0.0074 * x + 0.0022$$

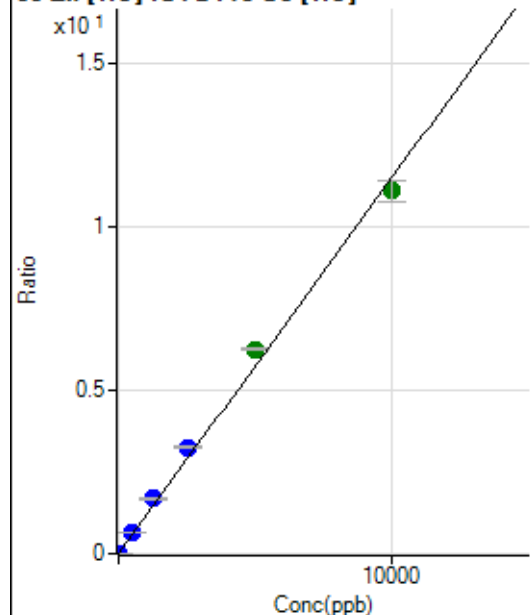
$$R = 0.9984$$

$$DL = 0.01906$$

$$BEC = 0.3015$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	518.90	0.0011	P	8.2
2	☐	2.000	2.592	1847.91	0.0041	P	4.3
3	☐	500.000	582.128	303351.20	0.6683	P	0.4
4	☐	1250.000	1461.562	736891.14	1.6761	P	0.9
5	☐	2500.000	2839.959	1422859.01	3.2558	P	0.4
6	☐	5000.000	5440.318	2724477.01	6.2360	A	0.8
7	☐	10000.000	9664.299	5080776.94	11.0768	A	5.6
8	☐			9965.61	0.0248	P	0.2

$$y = 0.0011 * x + 0.0011$$

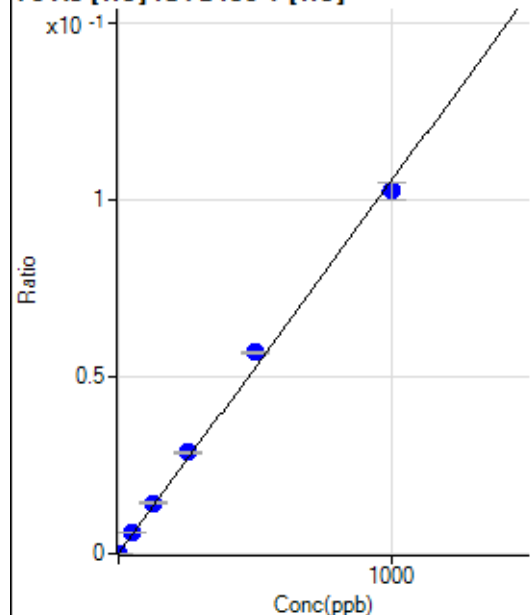
$$R = 0.9977$$

$$DL = 0.2417$$

$$BEC = 0.9805$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2.22	0.0000	P	86.6
2	☐	1.000	1.139	407.79	0.0001	P	5.3
3	☐	50.000	55.454	19955.71	0.0058	P	0.6
4	☐	125.000	136.012	47924.78	0.0143	P	1.8
5	☐	250.000	271.373	94791.06	0.0286	P	1.3
6	☐	500.000	539.804	189088.12	0.0568	P	1.3
7	☐	1000.000	973.105	360352.48	0.1025	P	5.1
8	☐			97.78	0.0000	P	35.6

$$y = 1.0529E-004 * x + 6.4284E-007$$

$$R = 0.9985$$

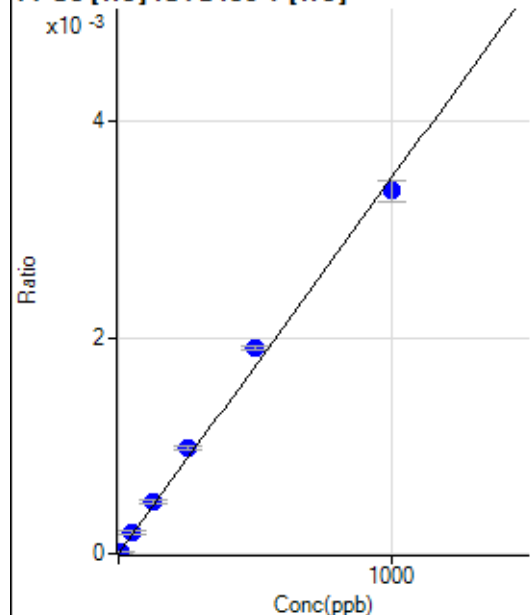
$$DL = 0.01586$$

$$BEC = 0.006106$$

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	2.22	0.0000	P	173.
2	☐	5.000	4.146	51.11	0.0000	P	38.3
3	☐	50.000	55.752	664.47	0.0002	P	11.5
4	☐	125.000	138.352	1611.22	0.0005	P	4.5
5	☐	250.000	280.292	3233.72	0.0010	P	3.7
6	☐	500.000	548.986	6350.31	0.0019	P	1.4
7	☐	1000.000	965.982	11806.99	0.0034	P	6.0
8	☐			44.44	0.0000	P	42.1

$$y = 3.4755\text{E-}006 * x + 6.3843\text{E-}007$$

$$R = 0.9976$$

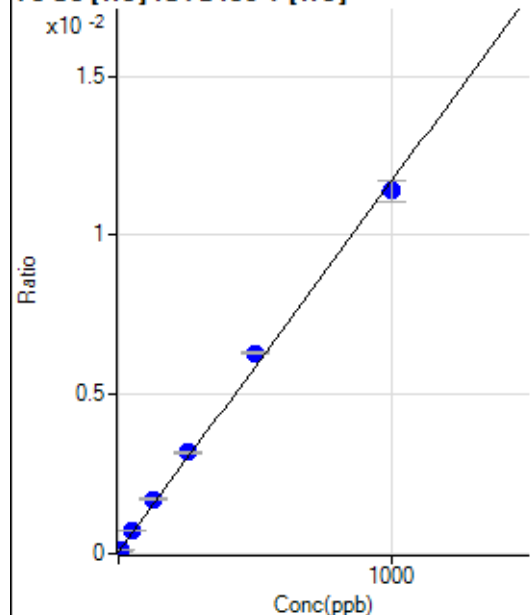
$$DL = 0.9545$$

$$BEC = 0.1837$$

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	204.45	0.0001	P	8.5
2	☐	5.000	5.364	412.23	0.0001	P	17.9
3	☐	50.000	57.322	2481.34	0.0007	P	5.3
4	☐	125.000	142.080	5727.83	0.0017	P	3.4
5	☐	250.000	269.129	10583.86	0.0032	P	2.3
6	☐	500.000	537.222	20989.39	0.0063	P	1.4
7	☐	1000.000	974.104	40054.05	0.0114	P	5.6
8	☐			397.79	0.0001	P	11.6

$$y = 1.1632\text{E-}005 * x + 5.9142\text{E-}005$$

$$R = 0.9987$$

$$DL = 1.304$$

$$BEC = 5.084$$

Weight: <None>

Min Conc: 0

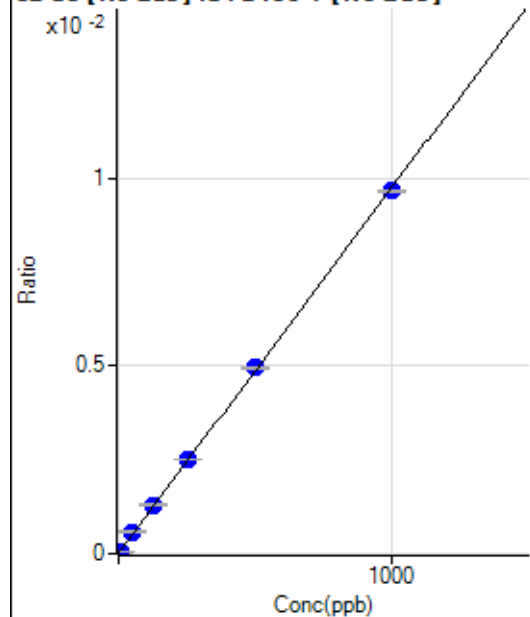
81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			34013.75		P	0.5
2	☐			34739.85		P	2.7
3	☐			33191.84		P	1.2
4	☐			33039.23		P	0.6
5	☐			31545.99		P	1.7
6	☐			31682.93		P	1.6
7	☐			31962.46		P	1.2
8	☐			34930.19		P	1.4

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			133.34		P	6.6
2	☐			133.34		P	22.2
3	☐			88.89		P	18.5
4	☐			68.89		P	12.2
5	☐			70.00		P	26.5
6	☐			123.34		P	18.9
7	☐			108.89		P	7.7
8	☐			565.57		P	10.4

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	177.28	0.0000	P	11.0
2	☐	5.000	4.809	909.46	0.0001	P	5.3
3	☐	50.000	57.147	8442.26	0.0006	P	9.0
4	☐	125.000	133.032	20128.56	0.0013	P	1.4
5	☐	250.000	258.954	38769.90	0.0025	P	0.2
6	☐	500.000	508.259	76591.96	0.0050	P	1.4
7	☐	1000.000	992.272	144396.37	0.0097	P	0.7
8	☐			994.78	0.0001	P	1.0

$$y = 9.7305E-006 * x + 1.1391E-005$$

$$R = 0.9999$$

$$DL = 0.3855$$

$$BEC = 1.171$$

Weight: <None>

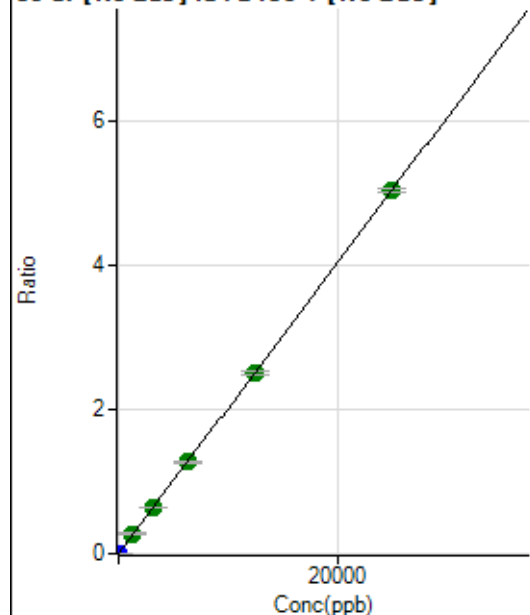
Min Conc: 0

83 Kr [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			117.78		P	13.4
2	☐			136.67		P	12.2
3	☐			146.67		P	19.8
4	☐			140.00		P	28.1
5	☐			134.45		P	8.0
6	☐			144.45		P	25.3
7	☐			166.67		P	28.0
8	☐			204.45		P	11.6

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	226.67	0.0000	P	7.0
2	☐	1.000	0.939	3179.27	0.0002	P	3.9
3	☐	1250.000	1344.190	4026089.45	0.2705	A	7.9
4	☐	3125.000	3174.910	9847405.69	0.6389	A	0.7
5	☐	6250.000	6315.120	19462891.66	1.2707	A	1.1
6	☐	12500.000	12456.526	38726483.87	2.5065	A	2.6
7	☐	25000.000	24994.509	75125399.44	5.0293	A	1.0
8	☐			11709.32	0.0008	P	17.3

$$y = 2.0122\text{E-}004 * x + 1.4544\text{E-}005$$

$$R = 1.0000$$

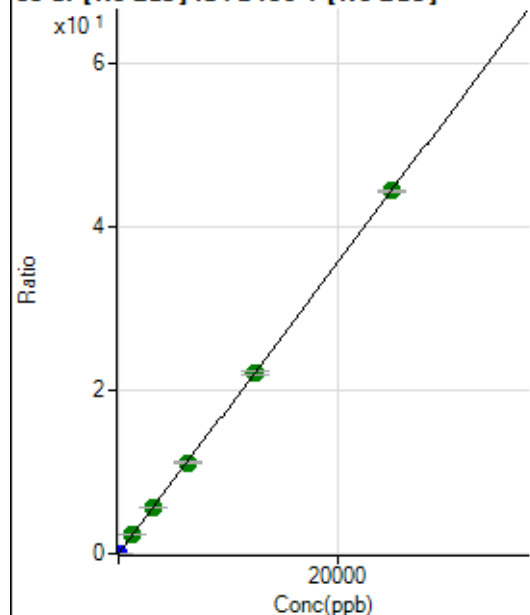
$$DL = 0.0151$$

$$BEC = 0.07228$$

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	162.22	0.0000	P	5.5
2	☐	1.000	0.934	26148.88	0.0017	P	2.0
3	☐	1250.000	1324.535	35072687.53	2.3566	A	8.2
4	☐	3125.000	3160.512	86674334.26	5.6231	A	0.8
5	☐	6250.000	6290.302	171412758.5	11.1915	A	1.5
6	☐	12500.000	12481.281	343104174.8	22.2063	A	1.9
7	☐	25000.000	24991.118	664176101.2	44.4634	A	0.7
8	☐			102309.82	0.0074	P	17.7

$$y = 0.0018 * x + 1.0410\text{E-}005$$

$$R = 1.0000$$

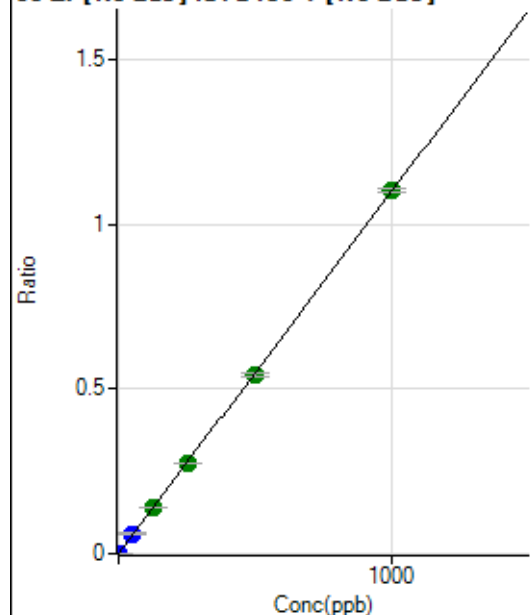
$$DL = 0.0009712$$

$$BEC = 0.005851$$

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	585.58	0.0000	P	10.9
2	☐	1.000	0.843	15090.07	0.0010	P	1.6
3	☐	50.000	54.299	889947.16	0.0598	P	7.9
4	☐	125.000	127.353	2160764.24	0.1402	A	0.8
5	☐	250.000	250.054	4215428.62	0.2752	A	0.3
6	☐	500.000	494.939	8415846.96	0.5447	A	1.8
7	☐	1000.000	1002.008	16471205.03	1.1027	A	1.1
8	☐			7579.81	0.0005	P	6.8

$$y = 0.0011 * x + 3.7598E-005$$

$$R = 1.0000$$

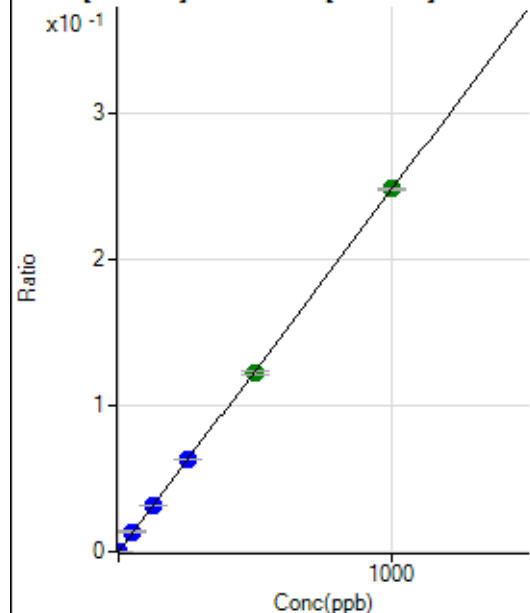
$$DL = 0.01116$$

$$BEC = 0.03417$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	116.67	0.0000	P	20.9
2	☐	1.000	0.861	3450.44	0.0002	P	3.4
3	☐	50.000	54.044	199306.35	0.0134	P	7.7
4	☐	125.000	129.128	492928.79	0.0320	P	0.8
5	☐	250.000	253.521	961599.19	0.0628	P	0.3
6	☐	500.000	492.313	1883518.24	0.1219	A	2.3
7	☐	1000.000	1002.245	3706931.44	0.2482	A	0.4
8	☐			1745.67	0.0001	P	5.2

$$y = 2.4760E-004 * x + 7.4809E-006$$

$$R = 0.9999$$

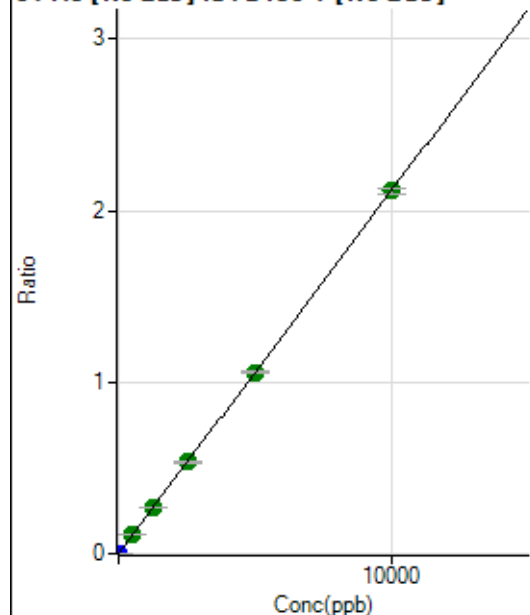
$$DL = 0.01898$$

$$BEC = 0.03021$$

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	217.78	0.0000	P	26.4
2	☐	5.000	5.477	18340.52	0.0012	P	2.2
3	☐	500.000	531.324	1674551.03	0.1125	A	7.5
4	☐	1250.000	1271.606	4149261.46	0.2692	A	0.6
5	☐	2500.000	2518.465	8165449.67	0.5331	A	0.8
6	☐	5000.000	4996.141	16340399.75	1.0576	A	1.7
7	☐	10000.000	9993.046	31596875.09	2.1153	A	1.4
8	☐			9201.87	0.0007	P	10.0

$$y = 2.1167\text{E-}004 * x + 1.3950\text{E-}005$$

$$R = 1.0000$$

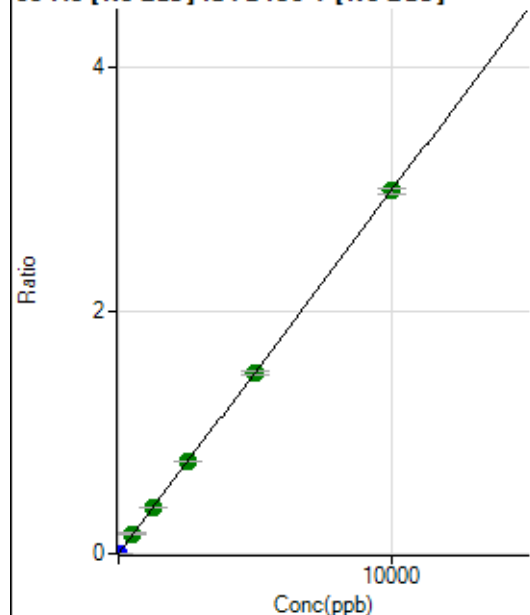
$$DL = 0.05228$$

$$BEC = 0.0659$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	88.89	0.0000	P	31.3
2	☐	5.000	4.704	22073.42	0.0014	P	2.2
3	☐	500.000	538.205	2394589.91	0.1609	A	8.4
4	☐	1250.000	1277.584	5887921.65	0.3820	A	0.7
5	☐	2500.000	2538.639	11626169.83	0.7590	A	0.9
6	☐	5000.000	4984.957	23028168.27	1.4904	A	1.8
7	☐	10000.000	9992.504	44627094.89	2.9875	A	1.4
8	☐			10255.94	0.0007	P	13.2

$$y = 2.9898\text{E-}004 * x + 5.6863\text{E-}006$$

$$R = 1.0000$$

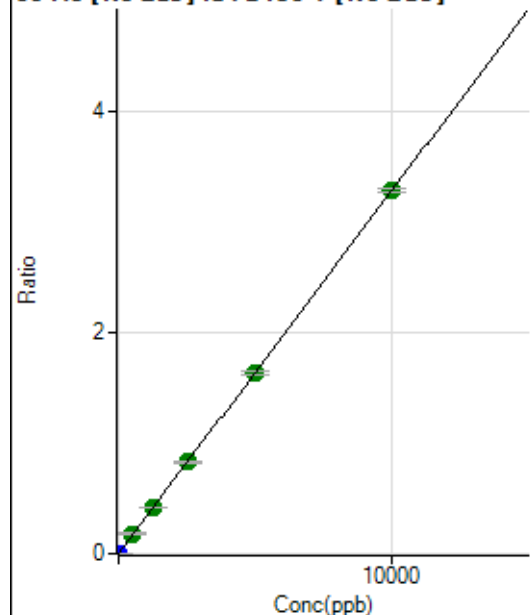
$$DL = 0.01786$$

$$BEC = 0.01902$$

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	111.12	0.0000	P	20.5
2	☐	5.000	4.837	24907.97	0.0016	P	1.6
3	☐	500.000	543.594	2652780.95	0.1783	A	8.5
4	☐	1250.000	1280.998	6475392.68	0.4201	A	0.9
5	☐	2500.000	2519.332	12655019.39	0.8262	A	0.6
6	☐	5000.000	4971.704	25191889.63	1.6304	A	1.7
7	☐	10000.000	10003.261	49002993.16	3.2805	A	1.0
8	☐			26097.95	0.0019	P	6.6

$$y = 3.2794E-004 * x + 7.1496E-006$$

R = 1.0000

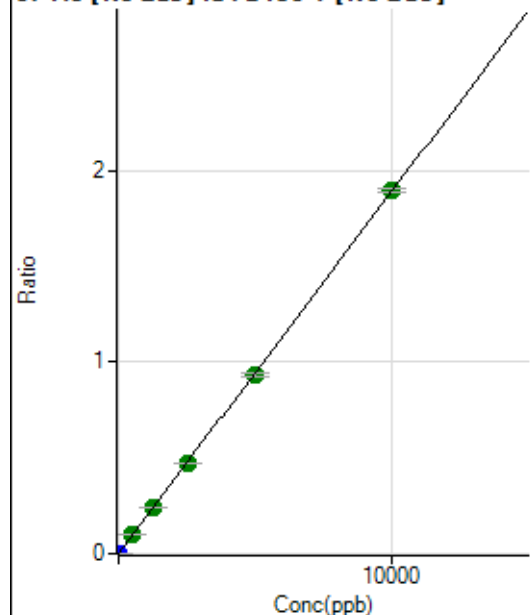
DL = 0.01341

BEC = 0.0218

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	50.6
2	☐	5.000	4.822	14278.16	0.0009	P	1.0
3	☐	500.000	533.990	1502663.48	0.1009	A	7.3
4	☐	1250.000	1278.977	3726158.59	0.2417	A	0.2
5	☐	2500.000	2492.636	7216131.91	0.4711	A	0.3
6	☐	5000.000	4940.739	14428489.23	0.9338	A	1.6
7	☐	10000.000	10026.150	28306335.13	1.8950	A	0.9
8	☐			6153.60	0.0004	P	15.4

$$y = 1.8900E-004 * x + 2.0602E-006$$

R = 1.0000

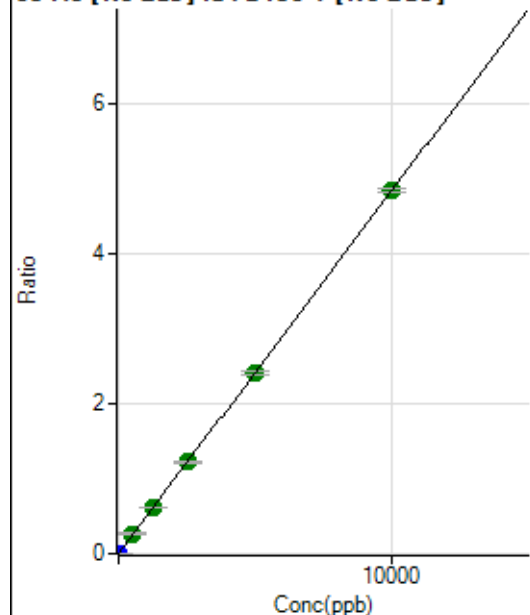
DL = 0.01654

BEC = 0.0109

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	88.89	0.0000	P	17.4
2	☐	5.000	4.758	36083.36	0.0023	P	2.6
3	☐	500.000	536.037	3862203.59	0.2595	A	7.8
4	☐	1250.000	1274.277	9506975.69	0.6168	A	0.6
5	☐	2500.000	2518.799	18673521.25	1.2191	A	0.4
6	☐	5000.000	4974.369	37200189.17	2.4077	A	2.3
7	☐	10000.000	10003.279	72323662.81	4.8417	A	0.9
8	☐			14906.69	0.0011	P	12.3

$$y = 4.8401\text{E-}004 * x + 5.6979\text{E-}006$$

$$R = 1.0000$$

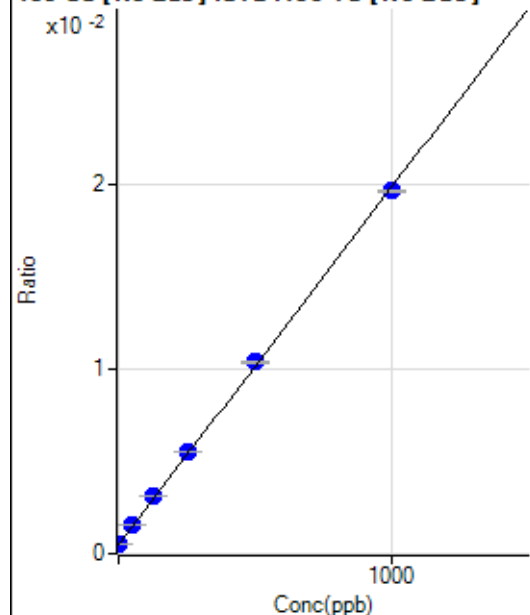
$$DL = 0.006141$$

$$BEC = 0.01177$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6423.71	0.0005	P	1.8
2	☐	1.000	0.728	6719.40	0.0005	P	2.0
3	☐	50.000	56.341	20411.08	0.0016	P	2.8
4	☐	125.000	134.458	41481.29	0.0031	P	0.9
5	☐	250.000	259.724	73709.00	0.0055	P	0.4
6	☐	500.000	511.685	140368.24	0.0104	P	0.7
7	☐	1000.000	990.228	258353.99	0.0197	P	0.3
8	☐			6014.64	0.0005	P	2.8

$$y = 1.9365\text{E-}005 * x + 4.8465\text{E-}004$$

$$R = 0.9998$$

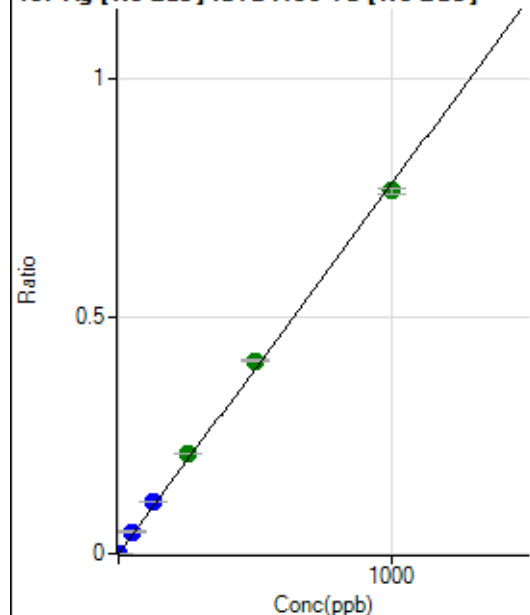
$$DL = 1.346$$

$$BEC = 25.03$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	97.78	0.0000	P	31.2
2	☐	1.000	1.075	11380.12	0.0008	P	2.6
3	☐	50.000	59.758	602005.11	0.0466	P	7.9
4	☐	125.000	141.143	1477221.02	0.1100	P	0.3
5	☐	250.000	270.915	2821745.76	0.2111	A	0.8
6	☐	500.000	521.183	5485060.96	0.4061	A	0.7
7	☐	1000.000	981.674	10050751.38	0.7649	A	1.4
8	☐			4061.73	0.0003	P	11.4

$$y = 7.7920\text{E-}004 * x + 7.3781\text{E-}006$$

$$R = 0.9994$$

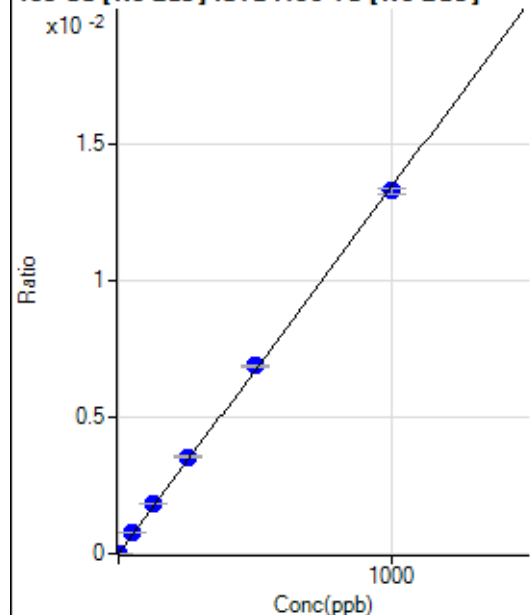
$$DL = 0.008869$$

$$BEC = 0.009469$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14.44	0.0000	P	103.
2	☐	1.000	1.046	203.34	0.0000	P	16.7
3	☐	50.000	57.918	10058.02	0.0008	P	7.7
4	☐	125.000	134.044	24163.56	0.0018	P	0.7
5	☐	250.000	263.957	47333.61	0.0035	P	2.1
6	☐	500.000	512.617	92880.43	0.0069	P	1.2
7	☐	1000.000	988.676	174269.85	0.0133	P	1.3
8	☐			146.67	0.0000	P	13.2

$$y = 1.3414\text{E-}005 * x + 1.0805\text{E-}006$$

$$R = 0.9998$$

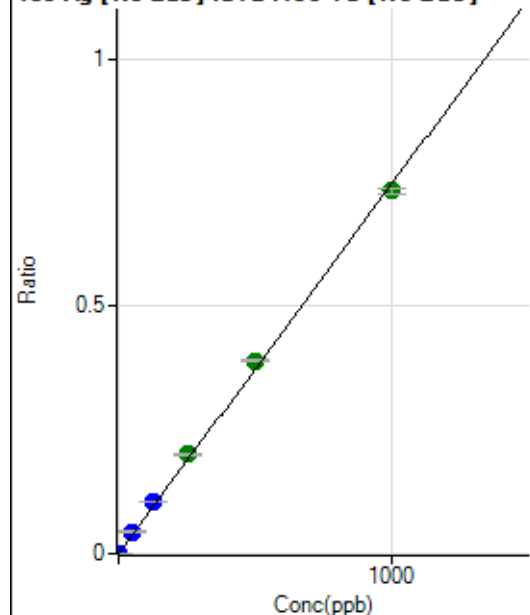
$$DL = 0.2497$$

$$BEC = 0.08055$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	47.78	0.0000	P	16.3
2	☐	1.000	1.076	10873.05	0.0008	P	2.5
3	☐	50.000	59.628	575871.33	0.0445	P	7.2
4	☐	125.000	140.786	1412242.27	0.1051	P	0.5
5	☐	250.000	269.085	2686043.30	0.2010	A	1.4
6	☐	500.000	521.157	5256518.81	0.3892	A	1.0
7	☐	1000.000	982.196	9638330.07	0.7335	A	1.5
8	☐			3743.85	0.0003	P	6.9

$$y = 7.4684\text{E-}004 * x + 3.5998\text{E-}006$$

$$R = 0.9994$$

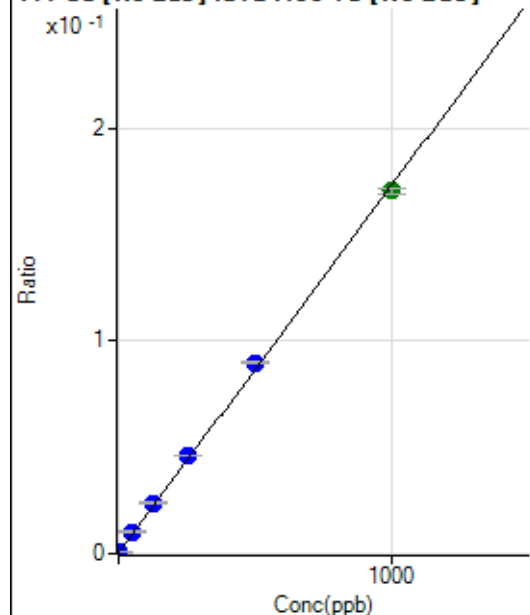
$$DL = 0.002352$$

$$BEC = 0.00482$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4489.82	0.0003	P	1.8
2	☐	1.000	1.002	6895.90	0.0005	P	1.8
3	☐	50.000	57.229	132226.47	0.0102	P	6.8
4	☐	125.000	136.532	321310.17	0.0239	P	0.4
5	☐	250.000	265.514	617572.55	0.0462	P	0.9
6	☐	500.000	517.881	1212787.54	0.0898	P	1.1
7	☐	1000.000	985.378	2240889.28	0.1706	A	1.9
8	☐			5196.52	0.0004	P	3.8

$$y = 1.7274\text{E-}004 * x + 3.3875\text{E-}004$$

$$R = 0.9996$$

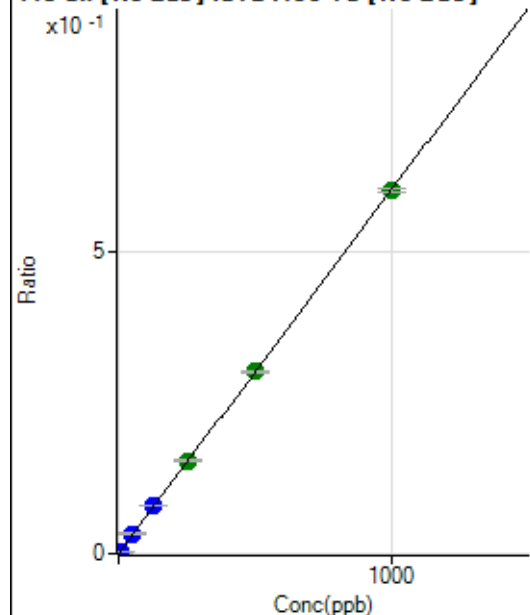
$$DL = 0.1068$$

$$BEC = 1.961$$

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	1964.68	0.0001	P	5.3
2	☐	5.000	4.669	39986.57	0.0030	P	1.0
3	☐	50.000	54.903	430668.09	0.0333	P	7.3
4	☐	125.000	131.229	1066547.19	0.0794	P	0.3
5	☐	250.000	256.029	2068882.14	0.1548	A	1.1
6	☐	500.000	500.642	4086155.80	0.3025	A	1.5
7	☐	1000.000	997.150	7915764.60	0.6024	A	1.0
8	☐			9618.87	0.0008	P	3.2

$$y = 6.0399\text{E-}004 * x + 1.4829\text{E-}004$$

$$R = 1.0000$$

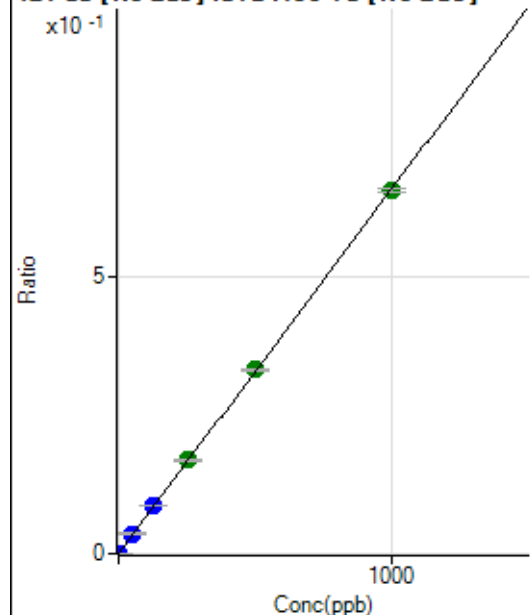
$$DL = 0.03931$$

$$BEC = 0.2455$$

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	84.44	0.0000	P	13.3
2	☐	2.000	1.845	16435.02	0.0012	P	1.4
3	☐	50.000	54.268	461655.28	0.0357	P	7.2
4	☐	125.000	130.731	1155080.27	0.0860	P	0.6
5	☐	250.000	256.052	2251459.83	0.1684	A	1.3
6	☐	500.000	504.072	4478695.00	0.3316	A	2.0
7	☐	1000.000	995.522	8604989.31	0.6549	A	0.9
8	☐			5573.35	0.0005	P	2.5

$$y = 6.5780\text{E-}004 * x + 6.3779\text{E-}006$$

$$R = 1.0000$$

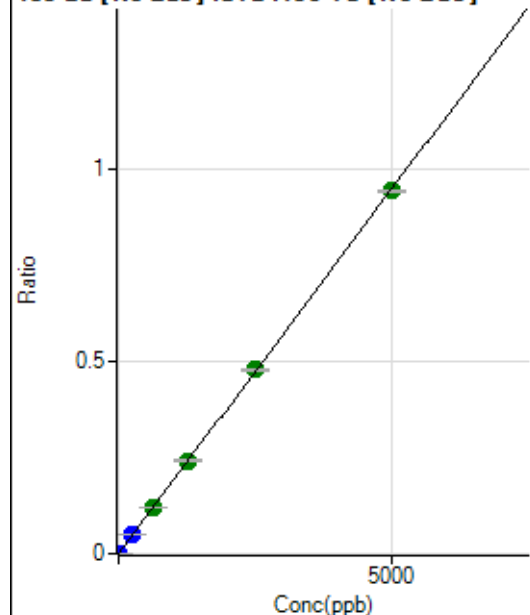
$$DL = 0.003856$$

$$BEC = 0.009696$$

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	23.34	0.0000	P	50.3
2	☐	10.000	8.887	22764.93	0.0017	P	0.9
3	☐	250.000	263.681	647685.44	0.0501	P	7.1
4	☐	625.000	638.417	1628823.75	0.1213	A	1.0
5	☐	1250.000	1269.149	3222065.68	0.2411	A	1.7
6	☐	2500.000	2528.841	6487896.85	0.4804	A	1.1
7	☐	5000.000	4978.433	12427361.20	0.9457	A	0.2
8	☐			7539.85	0.0006	P	5.0

$$y = 1.8995\text{E-}004 * x + 1.7652\text{E-}006$$

$$R = 1.0000$$

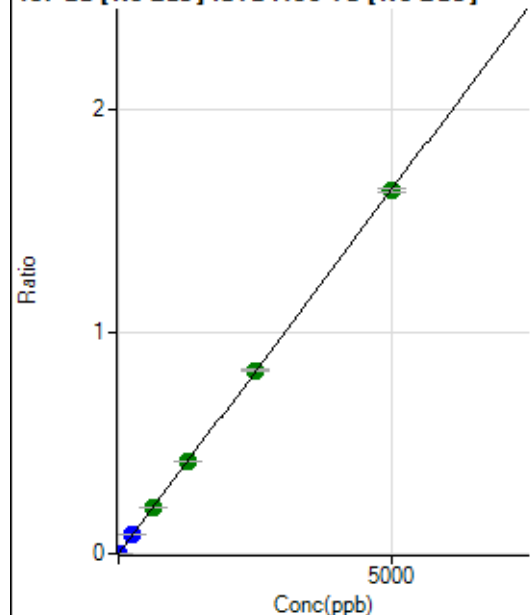
$$DL = 0.01403$$

$$BEC = 0.009293$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0000	P	45.0
2	☐	10.000	8.855	39213.97	0.0029	P	1.6
3	☐	250.000	264.681	1124038.66	0.0869	P	7.1
4	☐	625.000	643.421	2838008.84	0.2113	A	1.1
5	☐	1250.000	1265.185	5553380.89	0.4155	A	1.2
6	☐	2500.000	2518.652	11171433.58	0.8271	A	0.6
7	☐	5000.000	4983.844	21509246.21	1.6367	A	0.9
8	☐			13358.62	0.0011	P	6.2

$$y = 3.2840\text{E-}004 * x + 3.2573\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01339$$

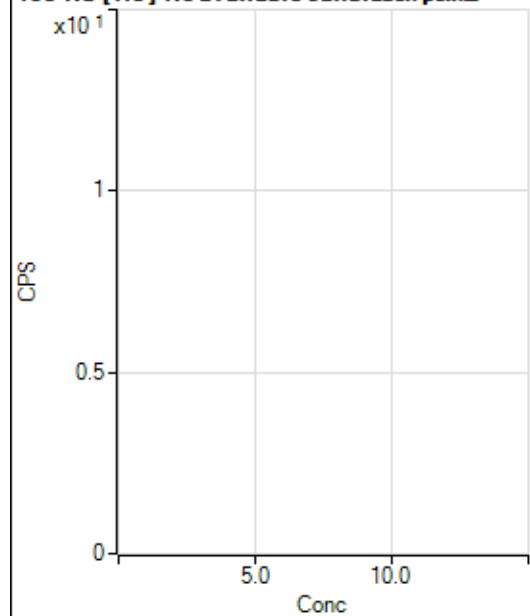
$$BEC = 0.009919$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			17.78		P	54.1
3	☐			111.11		P	16.5
4	☐			241.11		P	5.2
5	☐			453.34		P	6.0
6	☐			846.70		P	6.2
7	☐			1674.56		P	4.0
8	☐			391.12		P	7.1

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			4.45		P	86.6
3	☐			21.11		P	32.9
4	☐			46.67		P	14.3
5	☐			102.22		P	7.5
6	☐			196.67		P	11.9
7	☐			351.12		P	13.8
8	☐			186.67		P	18.9

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	57.3
2	☐			11.11		P	75.5
3	☐			53.33		P	27.2
4	☐			123.33		P	37.8
5	☐			223.34		P	16.6
6	☐			406.67		P	15.6
7	☐			845.59		P	5.5
8	☐			2660.28		P	3.5

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			11.11		P	69.3
3	☐			38.89		P	43.1
4	☐			97.78		P	5.2
5	☐			207.78		P	8.2
6	☐			362.23		P	19.2
7	☐			718.91		P	8.4
8	☐			1615.66		P	4.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			56.66		P	27.0
2	☐			74.44		P	24.7
3	☐			96.67		P	12.4
4	☐			148.89		P	24.1
5	☐			234.45		P	18.0
6	☐			367.79		P	4.3
7	☐			705.58		P	1.8
8	☐			2800.31		P	1.5

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			327.78		P	13.8
2	☐			298.89		P	1.3
3	☐			343.34		P	11.9
4	☐			377.79		P	11.8
5	☐			448.90		P	3.7
6	☐			562.24		P	3.3
7	☐			790.03		P	8.2
8	☐			2153.52		P	2.0

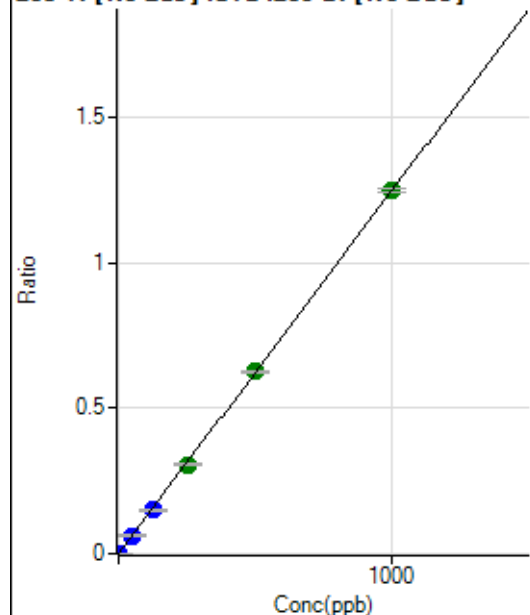
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			85.56		P	31.5
2	☐			91.11		P	23.8
3	☐			96.67		P	30.6
4	☐			130.00		P	4.4
5	☐			165.56		P	13.4
6	☐			230.01		P	7.7
7	☐			364.45		P	14.5
8	☐			383.34		P	13.4

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			55.55		P	24.2
2	☐			62.22		P	16.4
3	☐			71.11		P	15.1
4	☐			71.11		P	16.5
5	☐			120.00		P	19.4
6	☐			118.89		P	15.4
7	☐			196.67		P	13.2
8	☐			225.56		P	6.0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	117.78	0.0000	P	2.5
2	☐	1.000	0.835	7993.52	0.0011	P	3.7
3	☐	50.000	49.435	447072.22	0.0617	P	7.4
4	☐	125.000	119.530	1127427.29	0.1491	P	0.5
5	☐	250.000	245.358	2301997.15	0.3060	A	1.4
6	☐	500.000	502.550	4669363.30	0.6268	A	0.7
7	☐	1000.000	1000.598	8830707.99	1.2480	A	1.0
8	☐			1903.49	0.0003	P	8.8

$$y = 0.0012 * x + 1.5652E-005$$

$$R = 1.0000$$

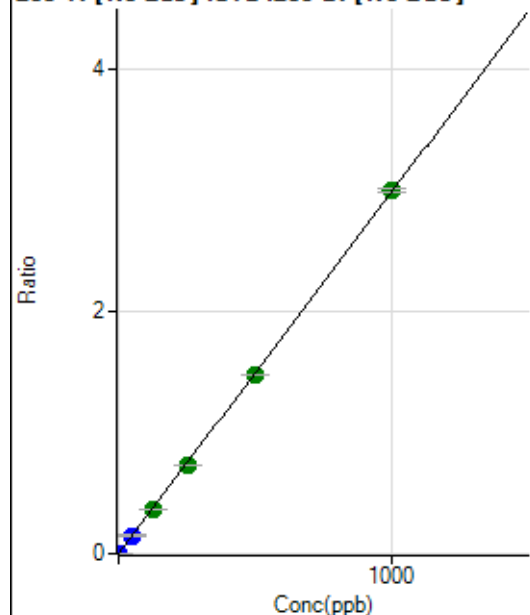
$$DL = 0.0009439$$

$$BEC = 0.01255$$

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	245.56	0.0000	P	7.6
2	☐	1.000	0.842	19247.04	0.0025	P	1.5
3	☐	50.000	49.260	1065273.83	0.1470	P	7.7
4	☐	125.000	123.155	2778182.95	0.3674	A	0.3
5	☐	250.000	246.011	5520056.93	0.7338	A	0.9
6	☐	500.000	495.316	11007486.92	1.4775	A	0.8
7	☐	1000.000	1003.607	21182389.27	2.9936	A	1.1
8	☐			4733.10	0.0008	P	11.4

$$y = 0.0030 * x + 3.2667E-005$$

$$R = 1.0000$$

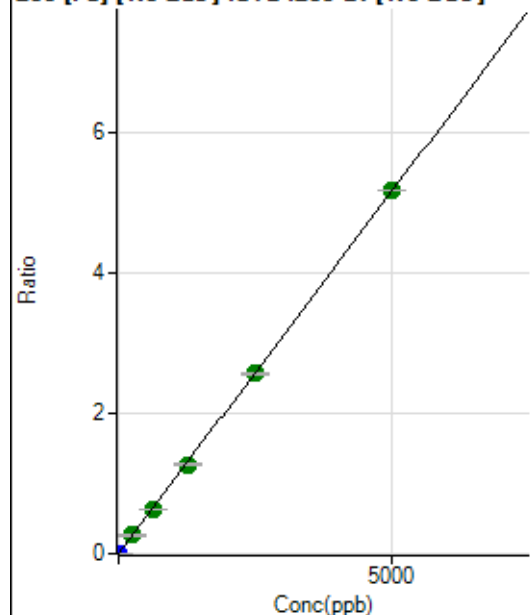
$$DL = 0.002496$$

$$BEC = 0.01095$$

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	278.89	0.0000	P	0.9
2	☐	1.000	0.849	6900.71	0.0009	P	2.1
3	☐	250.000	257.713	1925445.65	0.2657	A	8.5
4	☐	625.000	618.819	4824279.69	0.6380	A	1.7
5	☐	1250.000	1228.130	9524631.87	1.2662	A	1.3
6	☐	2500.000	2485.977	19093645.83	2.5629	A	0.5
7	☐	5000.000	5012.866	36572176.96	5.1680	A	0.2
8	☐			20011.50	0.0033	P	2.5

$$y = 0.0010 * x + 3.7067E-005$$

$$R = 1.0000$$

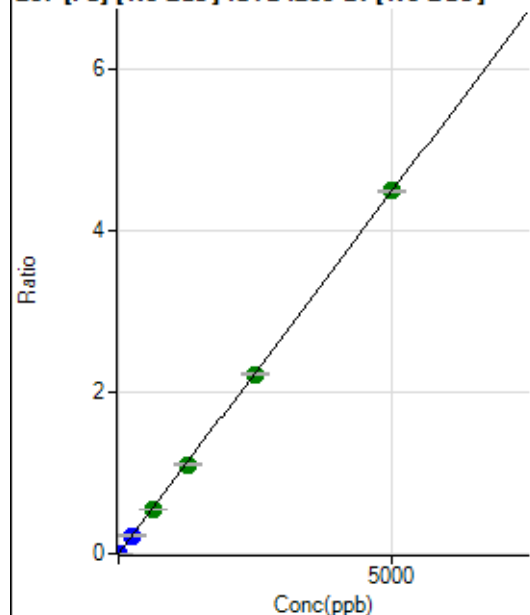
$$DL = 0.0009342$$

$$BEC = 0.03595$$

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	214.45	0.0000	P	7.8
2	☐	1.000	0.846	5946.91	0.0008	P	2.6
3	☐	250.000	247.118	1604889.61	0.2214	P	7.6
4	☐	625.000	620.003	4200083.48	0.5554	A	1.4
5	☐	1250.000	1231.391	8298193.35	1.1031	A	0.9
6	☐	2500.000	2482.029	16565877.11	2.2235	A	1.3
7	☐	5000.000	5014.407	31787703.97	4.4921	A	0.5
8	☐			16919.53	0.0028	P	3.1

$$y = 8.9583E-004 * x + 2.8522E-005$$

$$R = 1.0000$$

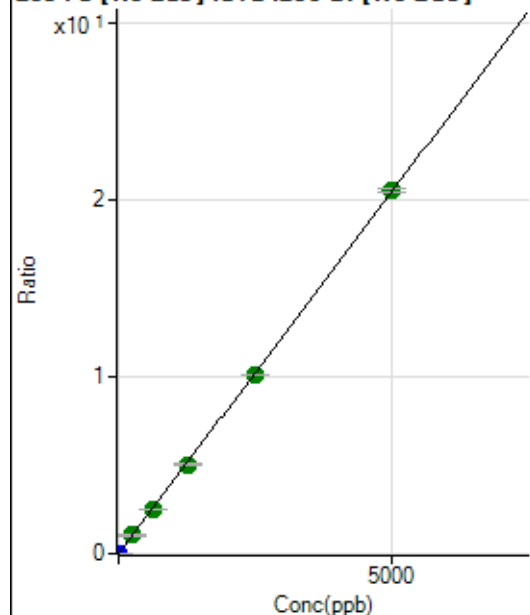
$$DL = 0.007476$$

$$BEC = 0.03184$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1087.80	0.0001	P	4.3
2	☐	1.000	0.842	27149.70	0.0036	P	1.0
3	☐	250.000	255.362	7572628.29	1.0446	A	7.5
4	☐	625.000	617.742	19107580.79	2.5269	A	1.0
5	☐	1250.000	1233.875	37964702.00	5.0470	A	0.7
6	☐	2500.000	2474.400	75405710.40	10.1210	A	0.9
7	☐	5000.000	5017.470	145225922.0	20.5228	A	1.1
8	☐			78373.08	0.0131	P	3.0

$$y = 0.0041 * x + 1.4453E-004$$

$$R = 1.0000$$

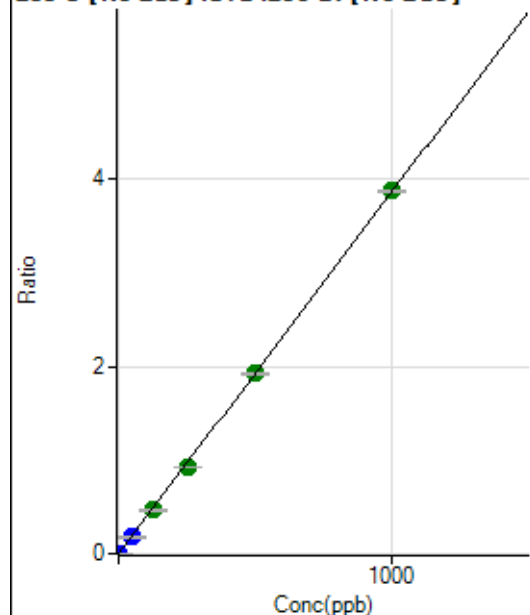
$$DL = 0.004563$$

$$BEC = 0.03534$$

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	12.22	0.0000	P	14.6
2	☐	1.000	0.788	23019.98	0.0030	P	2.5
3	☐	50.000	46.743	1308292.05	0.1805	P	8.0
4	☐	125.000	120.494	3518652.20	0.4653	A	1.7
5	☐	250.000	240.012	6972317.40	0.9269	A	0.9
6	☐	500.000	497.957	14326059.09	1.9230	A	0.5
7	☐	1000.000	1004.245	27445188.20	3.8782	A	0.3
8	☐			4108.47	0.0007	P	16.3

$$y = 0.0039 * x + 1.6220E-006$$

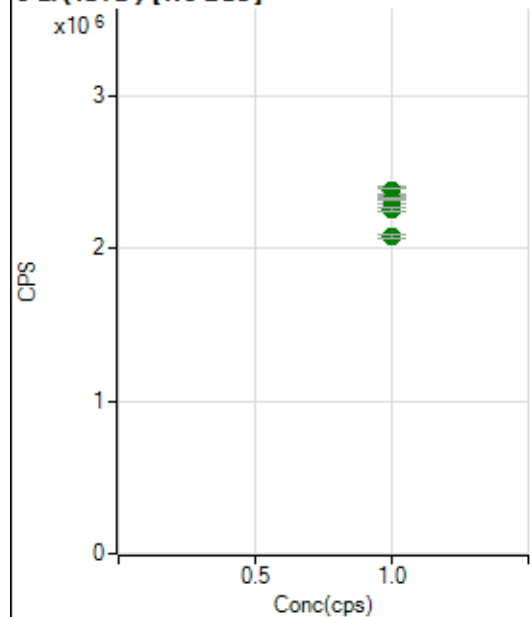
$$R = 0.9999$$

$$DL = 0.0001836$$

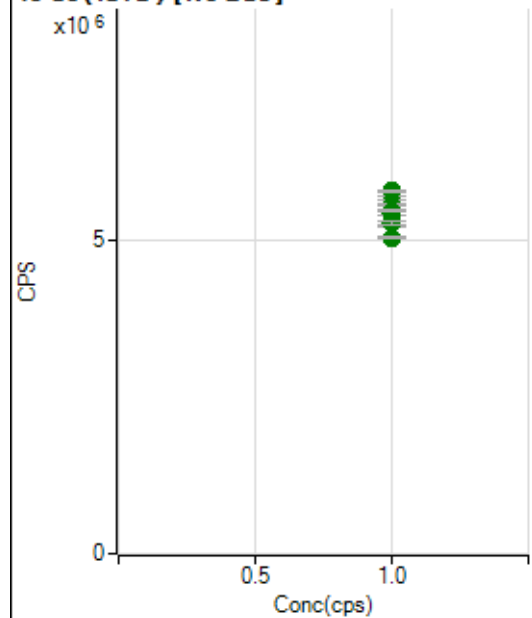
$$BEC = 0.00042$$

Weight: <None>

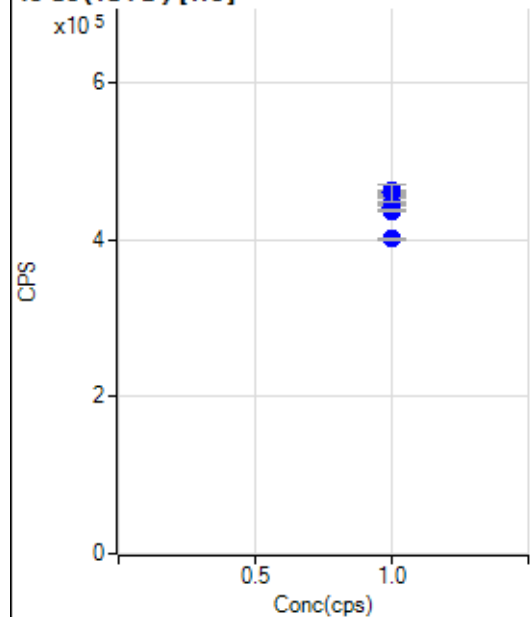
Min Conc: 0

6 Li (ISTD) [No Gas]

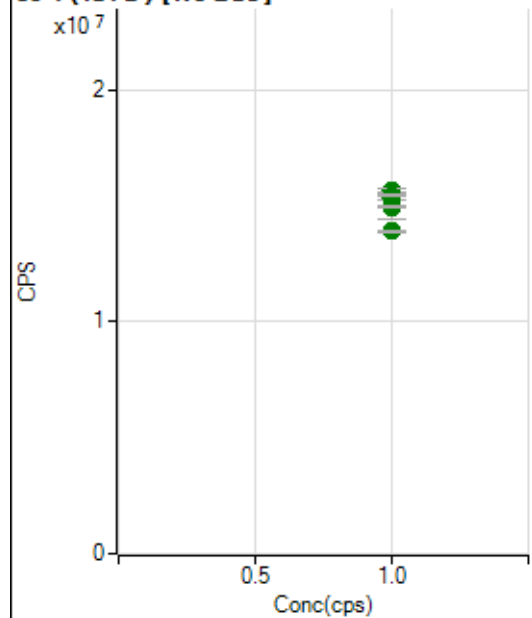
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2329437.85		A	1.3
2	☐	1.000		2373161.67		A	2.8
3	☐	1.000		2321741.62		A	7.3
4	☐	1.000		2375022.32		A	1.3
5	☐	1.000		2324709.41		A	2.8
6	☐	1.000		2321877.31		A	0.8
7	☐	1.000		2255075.56		A	1.4
8	☐	1.000		2074798.21		A	1.4

45 Sc (ISTD) [No Gas]

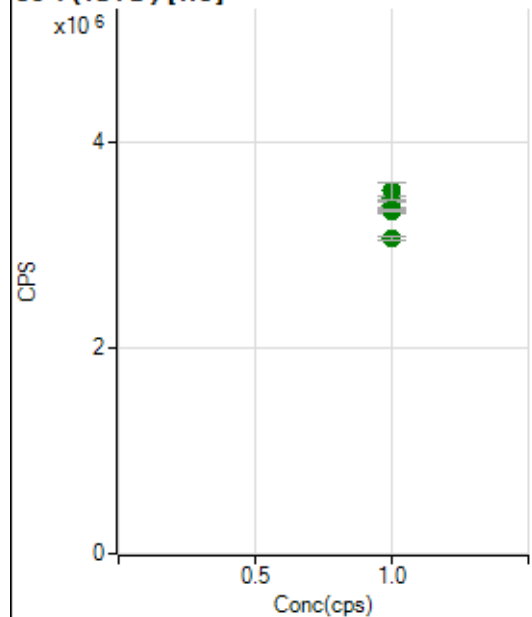
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5649828.11		A	2.3
2	☐	1.000		5789916.72		A	0.2
3	☐	1.000		5423544.05		A	8.1
4	☐	1.000		5559433.11		A	0.4
5	☐	1.000		5436212.77		A	0.8
6	☐	1.000		5466786.66		A	0.4
7	☐	1.000		5280769.47		A	0.8
8	☐	1.000		5045502.39		A	0.6

45 Sc (ISTD) [He]

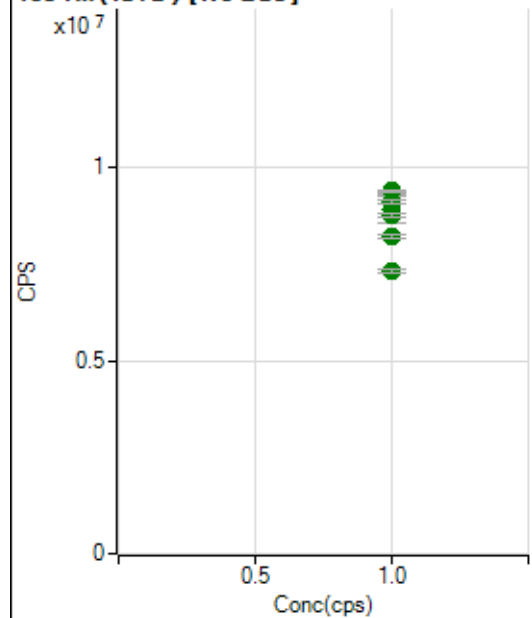
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		461825.96		P	0.4
2	☐	1.000		451689.68		P	2.4
3	☐	1.000		453943.28		P	0.7
4	☐	1.000		439664.78		P	1.1
5	☐	1.000		437021.55		P	0.4
6	☐	1.000		436910.64		P	0.7
7	☐	1.000		459529.96		P	4.9
8	☐	1.000		401036.58		P	0.4

89 Y (ISTD) [No Gas]

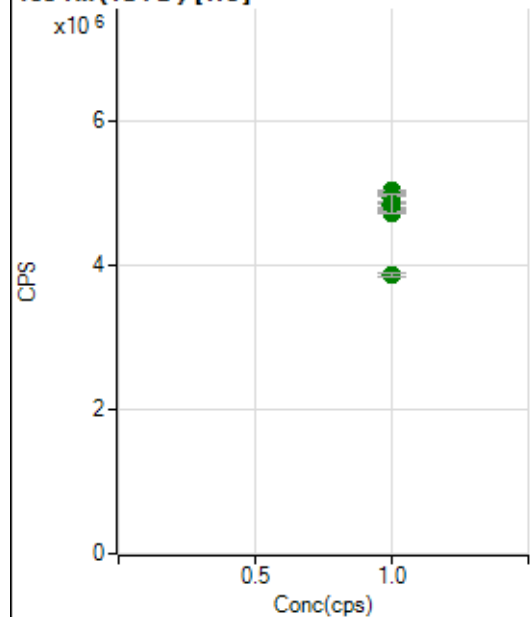
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15577750.60		A	1.8
2	☐	1.000		15632639.63		A	1.2
3	☐	1.000		14939489.77		A	7.0
4	☐	1.000		15414317.83		A	0.4
5	☐	1.000		15317293.66		A	0.8
6	☐	1.000		15451872.27		A	0.6
7	☐	1.000		14937402.69		A	0.3
8	☐	1.000		13885668.54		A	1.0

89 Y (ISTD) [He]

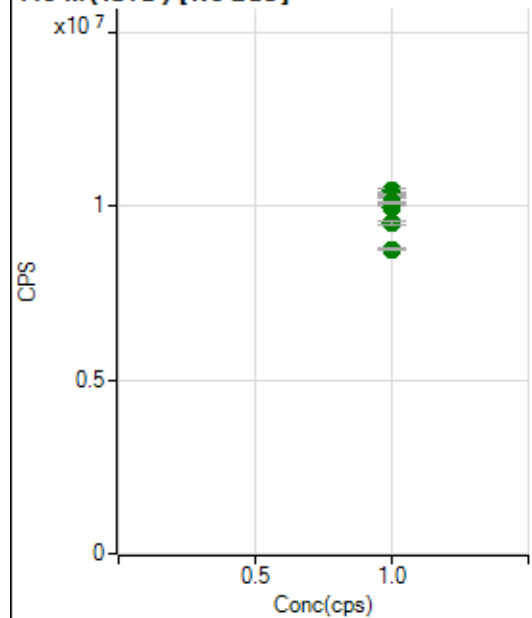
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3456072.83		A	0.8
2	☐	1.000		3380714.12		A	2.7
3	☐	1.000		3417643.56		A	0.5
4	☐	1.000		3346996.16		A	1.3
5	☐	1.000		3317897.04		A	1.1
6	☐	1.000		3327189.29		A	0.6
7	☐	1.000		3522731.72		A	4.7
8	☐	1.000		3062792.59		A	0.8

103 Rh (ISTD) [No Gas]

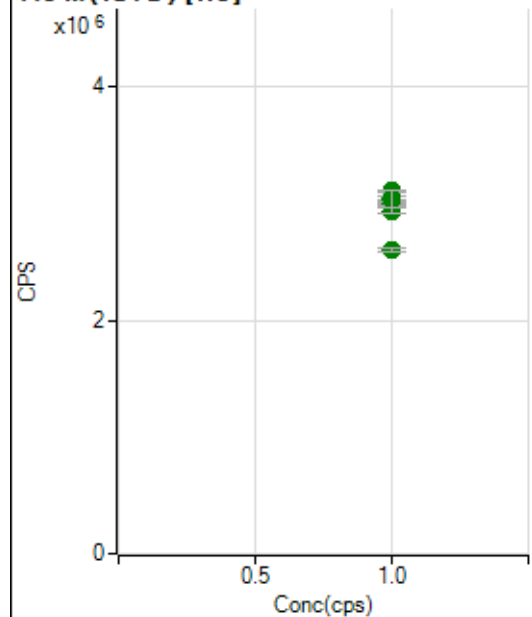
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9246940.07		A	1.4
2	☐	1.000		9393142.50		A	0.6
3	☐	1.000		8897741.95		A	7.7
4	☐	1.000		9122066.53		A	0.9
5	☐	1.000		8761703.90		A	0.7
6	☐	1.000		8759265.15		A	1.2
7	☐	1.000		8204837.31		A	1.0
8	☐	1.000		7319984.47		A	0.8

103 Rh (ISTD) [He]

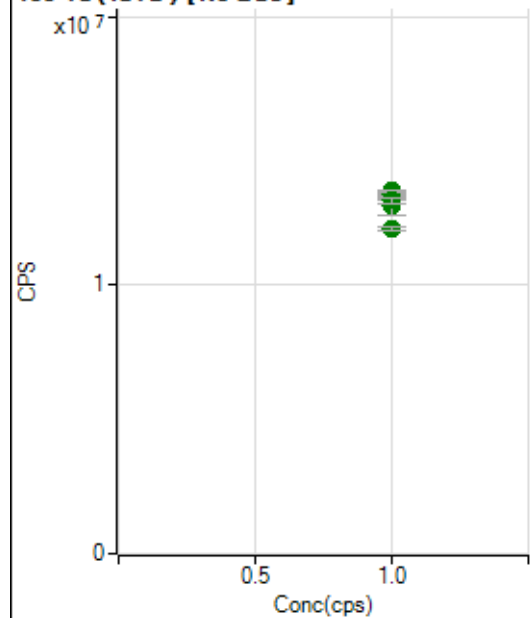
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5029847.32		A	0.3
2	☐	1.000		4935455.21		A	2.4
3	☐	1.000		4957743.19		A	0.4
4	☐	1.000		4825664.37		A	0.9
5	☐	1.000		4784796.28		A	0.5
6	☐	1.000		4731248.96		A	0.8
7	☐	1.000		4860263.12		A	5.5
8	☐	1.000		3870274.87		A	1.1

115 In (ISTD) [No Gas]

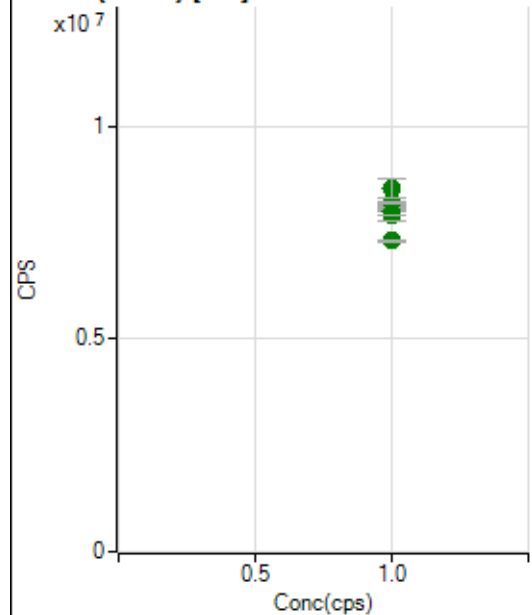
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10295209.01		A	1.4
2	☐	1.000		10427365.38		A	1.5
3	☐	1.000		9952254.66		A	7.6
4	☐	1.000		10324774.07		A	0.6
5	☐	1.000		10029438.94		A	0.3
6	☐	1.000		10088950.10		A	0.9
7	☐	1.000		9505360.90		A	0.9
8	☐	1.000		8755278.00		A	0.9

115 In (ISTD) [He]

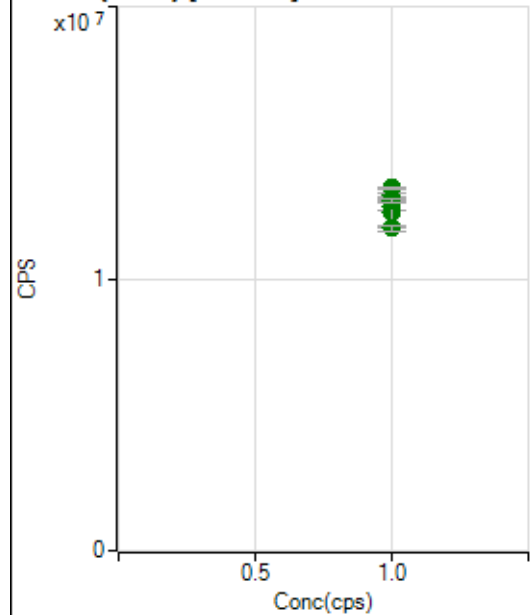
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3106376.63		A	0.3
2	☐	1.000		3033744.06		A	2.3
3	☐	1.000		3049463.79		A	0.8
4	☐	1.000		2988645.20		A	1.2
5	☐	1.000		2965827.68		A	0.5
6	☐	1.000		2936515.27		A	1.8
7	☐	1.000		3036087.81		A	4.7
8	☐	1.000		2595936.14		A	1.1

159 Tb (ISTD) [No Gas]

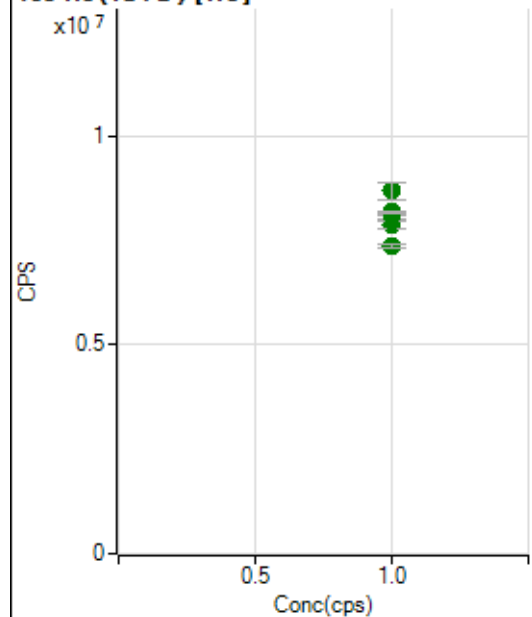
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13255128.55		A	1.3
2	☐	1.000		13471364.38		A	1.1
3	☐	1.000		12968522.73		A	6.1
4	☐	1.000		13431112.58		A	0.3
5	☐	1.000		13367395.77		A	1.5
6	☐	1.000		13505820.22		A	0.7
7	☐	1.000		13141358.83		A	1.5
8	☐	1.000		12098058.57		A	0.9

159 Tb (ISTD) [He]

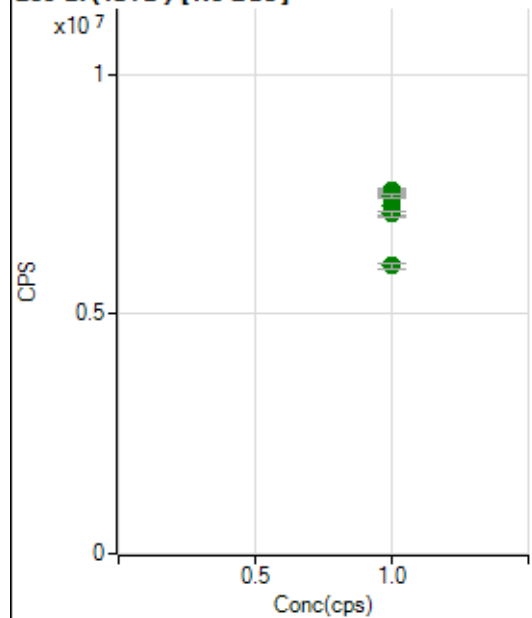
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8068076.13		A	0.9
2	☐	1.000		7891303.21		A	2.8
3	☐	1.000		8099440.09		A	1.6
4	☐	1.000		7986102.10		A	2.2
5	☐	1.000		8105986.96		A	0.4
6	☐	1.000		8197443.42		A	0.8
7	☐	1.000		8519600.43		A	5.3
8	☐	1.000		7303514.34		A	0.8

165 Ho (ISTD) [No Gas]

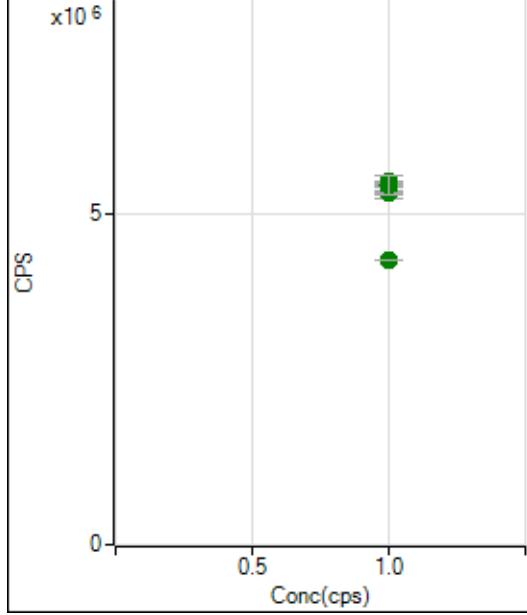
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12665787.31		A	1.8
2	☐	1.000		13012441.61		A	0.1
3	☐	1.000		12425085.37		A	8.2
4	☐	1.000		13067737.16		A	1.0
5	☐	1.000		12950061.06		A	0.6
6	☐	1.000		13356319.25		A	0.5
7	☐	1.000		12871451.75		A	1.0
8	☐	1.000		11873757.88		A	1.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8141006.61		A	0.7
2	☐	1.000		7893911.83		A	3.4
3	☐	1.000		8085387.03		A	1.3
4	☐	1.000		7973067.80		A	0.4
5	☐	1.000		8108122.80		A	0.5
6	☐	1.000		8175898.14		A	0.2
7	☐	1.000		8685007.30		A	4.6
8	☐	1.000		7353533.22		A	1.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7524939.06		A	2.2
2	☐	1.000		7562830.93		A	0.9
3	☐	1.000		7272128.92		A	6.4
4	☐	1.000		7562053.92		A	0.6
5	☐	1.000		7522018.57		A	0.6
6	☐	1.000		7449946.69		A	1.1
7	☐	1.000		7076718.16		A	1.5
8	☐	1.000		5995493.17		A	1.8

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5490011.24		A	0.5
2	☐	1.000		5331805.48		A	3.2
3	☐	1.000		5428040.09		A	0.2
4	☐	1.000		5338735.75		A	1.1
5	☐	1.000		5351708.63		A	0.6
6	☐	1.000		5310653.46		A	0.8
7	☐	1.000		5444585.61		A	5.4
8	☐	1.000		4308916.40		A	0.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7092923 MS.b
Acq. Date-Time 2023-09-29 10:50:31
Report Comment ---
Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		8294	82937.01			0.411	5.000
24		326382	3263816.94			0.861	5.000
25		43910	439102.81			0.645	5.000
26		51888	518877.32			0.477	5.000
59		79396	793964.57			0.293	5.000
113		11897	118974.89			0.522	5.000
115		145138	1451378.01			0.757	5.000
206		77701	777007.43			0.680	5.000
207		70347	703474.46			0.466	5.000
208		173704	1737037.12			0.392	5.000
220		0	3.00			23.570	

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

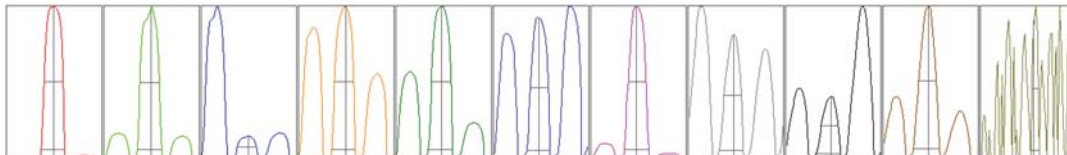
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	8311	8324	8319	8268	8247
24	323275	324038	329675	326188	328732
25	43502	43788	43944	44072	44245
26	51476	51878	51938	52116	52030
59	79233	79507	79711	79415	79116
113	11933	11948	11942	11857	11808
115	145705	144328	146801	144235	144620
206	78349	77927	77540	77771	76916
207	70878	70331	70314	70230	69983
208	174836	173123	173813	173414	173332

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	14338.28	9.00	8.90 - 9.10	
24	567801.00	24.00	23.90 - 24.10	
25	77326.41	25.00	24.90 - 25.10	
26	89844.24	26.00	25.90 - 26.10	
59	133674.80	58.95	58.90 - 59.10	
113	21855.88	112.95	112.90 - 113.10	
115	266043.60	114.95	114.90 - 115.10	
206	148155.19	205.95	205.90 - 206.10	
207	130438.84	206.95	206.90 - 207.10	
208	323557.86	207.95	207.90 - 208.10	
220	0.50	220.20	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.729	0.900	
24	0.60	0.776	0.900	
25	0.59	0.704	0.900	
26	0.60	0.741	0.900	
59	0.62	0.776	0.900	
113	0.56	0.736	0.900	
115	0.55	0.775	0.900	
206	0.55	0.765	0.900	
207	0.54	0.775	0.900	
208	0.55	0.826	0.900	
220	0.19	0.244		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.5 V	Deflect	14.8 V
Extract 2	-120.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	131	Axis Gain	0.9970	QP Bias	-3.0 V
Mass Offset	131	Axis Offset	0.18		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	0.9 mm
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EM

Discriminator	4.7 mV	Analog HV	2270 V	Pulse HV	1376 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		24660	246597.13			2.426	
89		271057	2710572.50			2.019	
205		63800	638000.82			3.071	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	25034	24892	24937	23597	24839
89	275772	273624	272760	261680	271450
205	65285	64364	64355	60361	64636

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.7 V	Deflect	2.2 V
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US EPA Tune Check Report

Extract 2	-115.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-60 V	Cell Exit	-60 V		

Cell Parameters

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

QP Parameters

Mass Gain	131	Axis Gain	0.9970	QP Bias	-13.0 V
Mass Offset	131	Axis Offset	0.18		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	0.9 mm
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EM

Discriminator	4.7 mV	Analog HV	2270 V	Pulse HV	1376 V
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