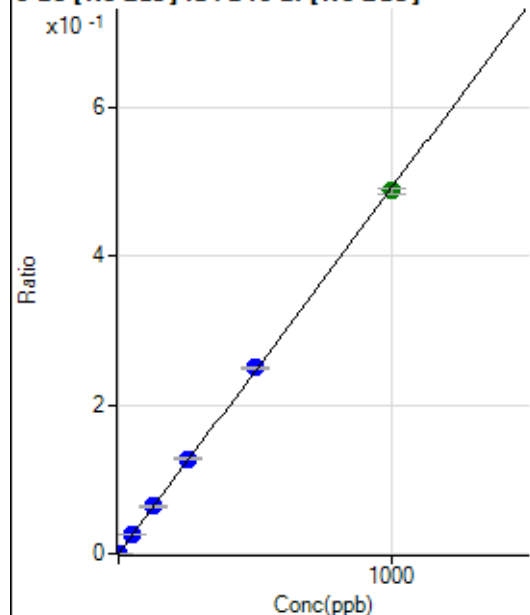


Calibration for 011CAL.S.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8061323-MS.b\
 Analysis File: P8061323-MS.batch.bin
 DA Date-Time: 2023-06-13 16:50:36
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-06-13 11:31:42
2	005CAL.S.d	S02	2023-06-13 11:34:44
3	006CAL.S.d	S03	2023-06-13 11:37:49
4	007CAL.S.d	S04	2023-06-13 11:40:49
5	008CAL.S.d	S05	2023-06-13 11:43:50
6	009CAL.S.d	S06	2023-06-13 11:46:48
7	010CAL.S.d	S07	2023-06-13 11:49:49
8	011CAL.S.d	S08	2023-06-13 11:52:47

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	35.41	0.0000	P	29.6
2	☐	1.000	1.081	1538.64	0.0005	P	2.7
3	☐	50.000	51.613	71880.01	0.0254	P	0.3
4	☐	125.000	129.426	177039.61	0.0636	P	1.0
5	☐	250.000	260.304	352427.39	0.1280	P	0.4
6	☐	500.000	508.502	684044.48	0.2500	P	1.1
7	☐	1000.000	992.539	1347888.04	0.4880	A	1.7
8	☐			1219.92	0.0004	P	20.4

$$y = 4.9163\text{E-}004 * x + 1.2703\text{E-}005$$

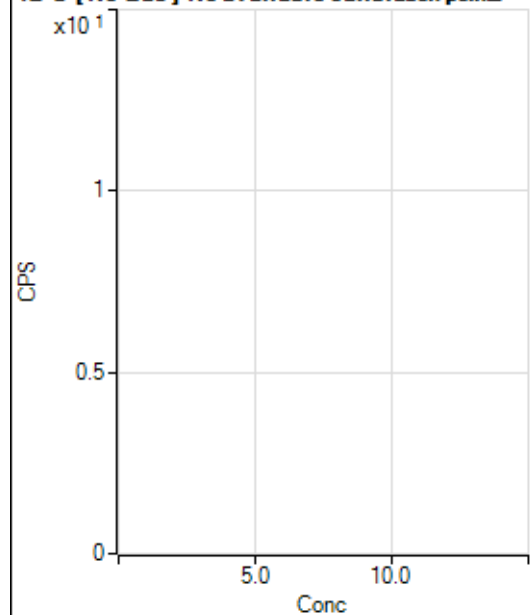
$$R = 0.9999$$

$$DL = 0.02295$$

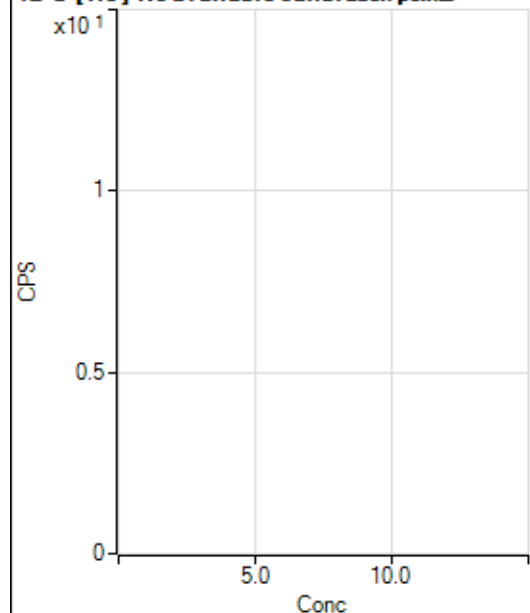
$$BEC = 0.02584$$

Weight: <None>

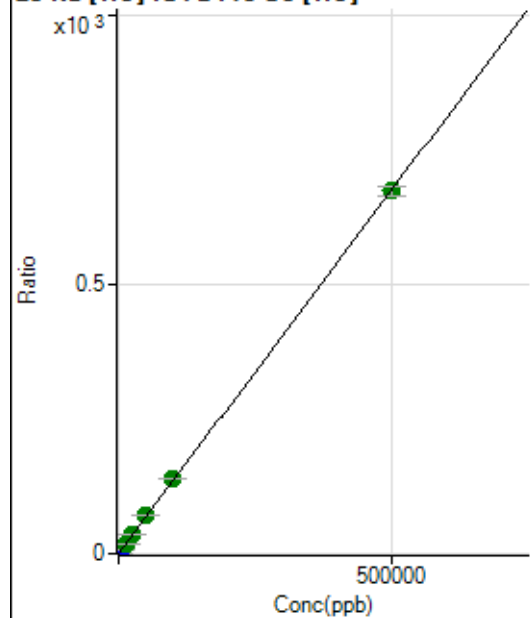
Min Conc: 0

12 C [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2152720.55		A	0.7
2	☐			2708584.63		A	2.9
3	☐			2479555.89		A	2.2
4	☐			2539071.69		A	2.0
5	☐			2719232.44		A	2.8
6	☐			2847981.77		A	3.1
7	☐			3237293.78		A	5.0
8	☐			2788162.30		A	2.8

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25581.11		P	0.8
2	☐			33906.28		P	1.1
3	☐			30434.74		P	0.7
4	☐			31679.09		P	1.9
5	☐			34465.96		P	1.6
6	☐			37328.40		P	1.0
7	☐			44013.80		P	1.1
8	☐			39603.87		P	1.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	18153.33	0.1406	P	0.5
2	☐	500.000	539.528	104459.44	0.8685	P	8.7
3	☐	5000.000	5412.614	919329.90	7.4429	P	2.7
4	☐	12500.000	13244.877	2297115.28	18.0096	A	1.8
5	☐	25000.000	26774.349	4534056.61	36.2626	A	0.2
6	☐	50000.000	52578.349	8770876.84	71.0755	A	0.9
7	☐	100000.00	102660.45	17411035.98	138.6427	A	0.9
8	☐	500000.00	499098.56	84540842.86	673.4884	A	2.8

$$y = 0.0013 * x + 0.1406$$

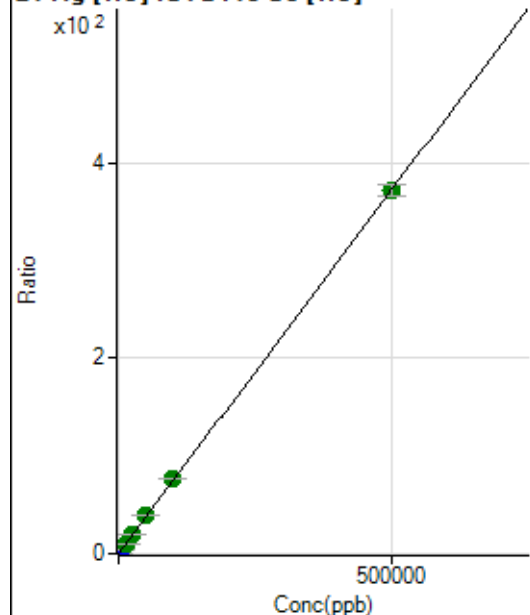
$$R = 1.0000$$

$$DL = 1.444$$

$$BEC = 104.2$$

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	686.15	0.0053	P	11.4
2	☐	500.000	531.857	48249.77	0.4013	P	9.6
3	☐	5000.000	5444.947	501356.85	4.0594	P	3.3
4	☐	12500.000	13252.505	1259310.47	9.8726	A	1.2
5	☐	25000.000	26886.943	2503717.98	20.0242	A	0.7
6	☐	50000.000	52814.374	4852857.96	39.3286	A	1.2
7	☐	100000.00	103185.92	9649385.63	76.8331	A	0.2
8	☐	500000.00	498963.73	46630082.29	371.5123	A	3.2

$$y = 7.4456\text{E-}004 * x + 0.0053$$

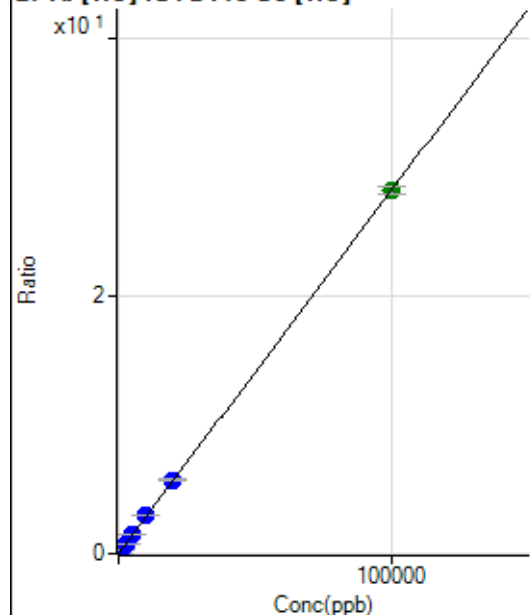
$$R = 1.0000$$

$$DL = 2.45$$

$$BEC = 7.135$$

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	37.08	0.0003	P	27.7
2	☐	20.000	21.679	770.76	0.0064	P	7.9
3	☐	1000.000	1081.360	37725.05	0.3055	P	3.3
4	☐	2500.000	2582.030	92984.24	0.7290	P	1.1
5	☐	5000.000	5285.000	186516.06	1.4917	P	0.9
6	☐	10000.000	10547.807	367338.44	2.9769	P	0.5
7	☐	20000.000	20363.615	721736.41	5.7470	P	0.5
8	☐	100000.00	99855.382	3537320.08	28.1801	A	2.3

$$y = 2.8221\text{E-}004 * x + 2.8753\text{E-}004$$

$$R = 1.0000$$

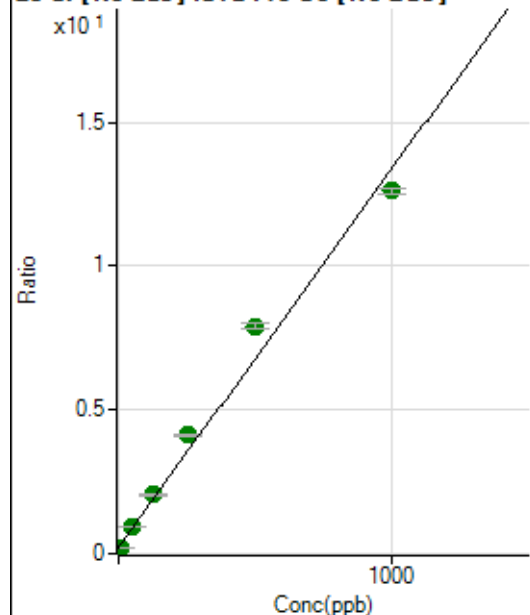
$$DL = 0.8481$$

$$BEC = 1.019$$

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	829892.71	0.2122	P	1.8
2	☐	10.000	0.755	873900.04	0.2221	A	1.1
3	☐	50.000	55.485	3719574.47	0.9418	A	1.9
4	☐	125.000	139.976	8044943.41	2.0527	A	2.1
5	☐	250.000	297.544	16058044.80	4.1245	A	2.1
6	☐	500.000	585.979	30727485.75	7.9171	A	2.2
7	☐	1000.000	943.071	49199955.62	12.6124	A	1.6
8	☐			1211314.66	0.3092	A	3.2

$$y = 0.0131 * x + 0.2122$$

R = 0.9925

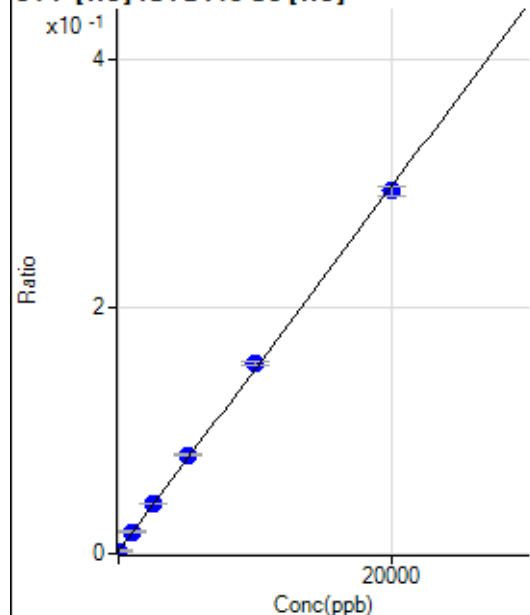
DL = 0.8883

BEC = 16.14

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	-5.744	250.01	0.0019	P	20.0
2	☐	0.000	5.744	250.01	0.0021	P	34.3
3	☐	1000.000	1056.379	2177.99	0.0176	P	4.3
4	☐	2500.000	2596.502	5153.83	0.0404	P	1.6
5	☐	5000.000	5291.529	10034.26	0.0802	P	2.3
6	☐	10000.000	10306.289	19049.06	0.1544	P	1.8
7	☐	20000.000	19759.091	36939.19	0.2941	P	2.8
8	☐			266.68	0.0021	P	27.9

$$y = 1.4784E-005 * x + 0.0020$$

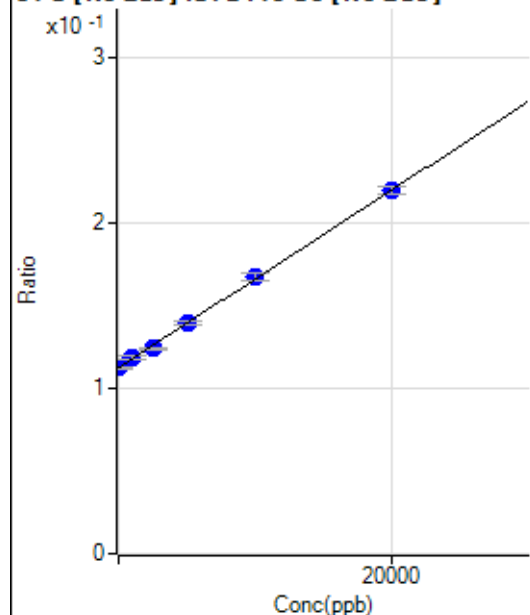
R = 0.9997

DL = 112.6

BEC = 136.6

Weight: <None>

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-5.549	440391.29	0.1126	P	2.4
2	☐	0.000	5.549	443290.11	0.1127	P	1.1
3	☐	1000.000	1101.024	468292.42	0.1186	P	1.8
4	☐	2500.000	2167.096	487182.87	0.1243	P	1.0
5	☐	5000.000	5028.235	543863.19	0.1397	P	1.1
6	☐	10000.000	10257.894	651130.49	0.1678	P	2.7
7	☐	20000.000	19900.556	856685.43	0.2196	P	2.1
8	☐			403702.16	0.1031	P	3.3

$$y = 5.3758\text{E-}006 * x + 0.1126$$

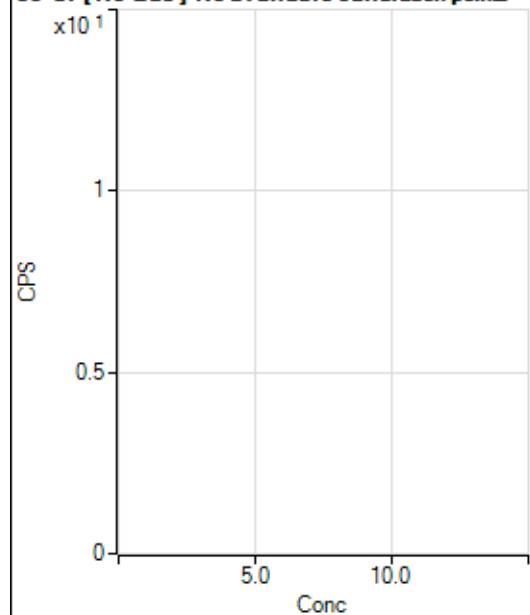
$$R = 0.9997$$

$$DL = 1104$$

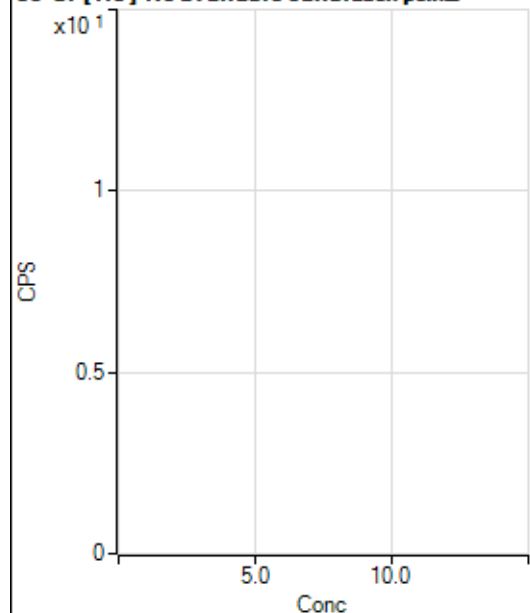
$$BEC = 2.095\text{E}+04$$

Weight: <None>

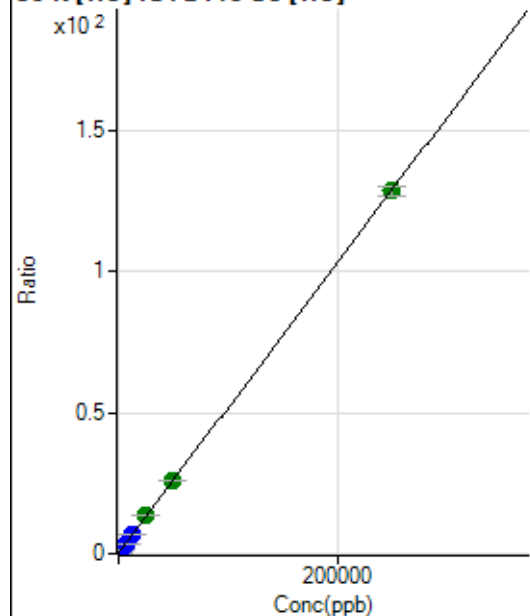
Min Conc: 0

35 Cl [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			131942.62		P	1.3
2	☐			166282.71		P	1.4
3	☐			154560.21		P	1.2
4	☐			157179.56		P	0.5
5	☐			163133.32		P	1.1
6	☐			162260.44		P	1.4
7	☐			155009.12		P	2.0
8	☐			175297.66		P	3.1

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			716.71		P	10.1
2	☐			1000.06		P	3.8
3	☐			886.16		P	5.4
4	☐			988.95		P	3.4
5	☐			1080.63		P	3.5
6	☐			1055.63		P	7.5
7	☐			863.94		P	7.0
8	☐			1130.63		P	6.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	28083.38	0.2174	P	1.8
2	☐	500.000	544.421	59818.83	0.4970	P	7.3
3	☐	2500.000	2625.351	193371.98	1.5655	P	2.6
4	☐	6250.000	6229.715	435759.48	3.4162	P	1.3
5	☐	12500.000	12684.191	841529.92	6.7304	P	0.4
6	☐	25000.000	26253.901	1690349.47	13.6981	A	0.5
7	☐	50000.000	50227.343	3266261.64	26.0078	A	0.1
8	☐	250000.00	249819.09	16127995.67	128.4929	A	3.0

$$y = 5.1347\text{E-}004 * x + 0.2174$$

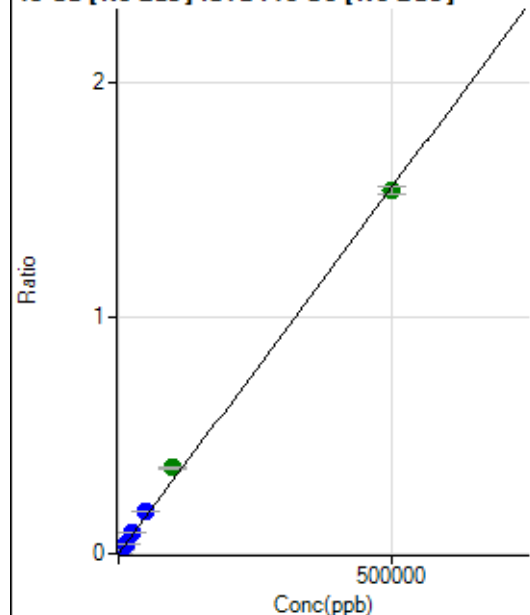
$$R = 1.0000$$

$$DL = 23.13$$

$$BEC = 423.5$$

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	144.98	0.0000	P	10.1
2	☐	500.000	490.591	6142.22	0.0016	P	1.8
3	☐	5000.000	5676.894	69807.75	0.0177	P	2.1
4	☐	12500.000	14128.972	172191.16	0.0439	P	1.7
5	☐	25000.000	28566.373	345721.61	0.0888	P	1.2
6	☐	50000.000	56957.307	686990.23	0.1770	P	1.4
7	☐	100000.00	117405.95	1422915.94	0.3648	A	2.5
8	☐	500000.00	495597.27	6031730.94	1.5398	A	2.3

$$y = 3.1069\text{E-}006 * x + 3.7020\text{E-}005$$

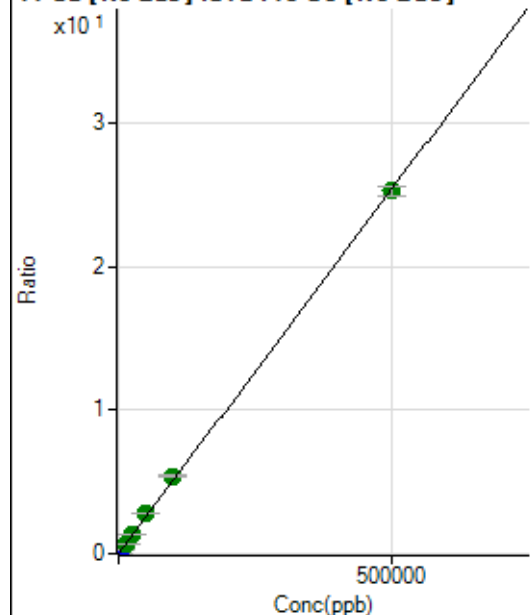
$$R = 0.9993$$

$$DL = 3.627$$

$$BEC = 11.92$$

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	12271.84	0.0031	P	4.3
2	☐	500.000	493.342	110951.57	0.0282	P	1.0
3	☐	5000.000	5366.733	1089284.39	0.2758	P	1.7
4	☐	12500.000	13654.332	2731209.90	0.6968	A	0.6
5	☐	25000.000	27553.038	5462965.21	1.4029	A	0.5
6	☐	50000.000	55154.012	10886744.59	2.8051	A	2.2
7	☐	100000.00	106085.83	21033109.44	5.3926	A	3.1
8	☐	500000.00	498107.26	99123978.83	25.3085	A	2.9

$$y = 5.0803\text{E-}005 * x + 0.0031$$

$$R = 0.9999$$

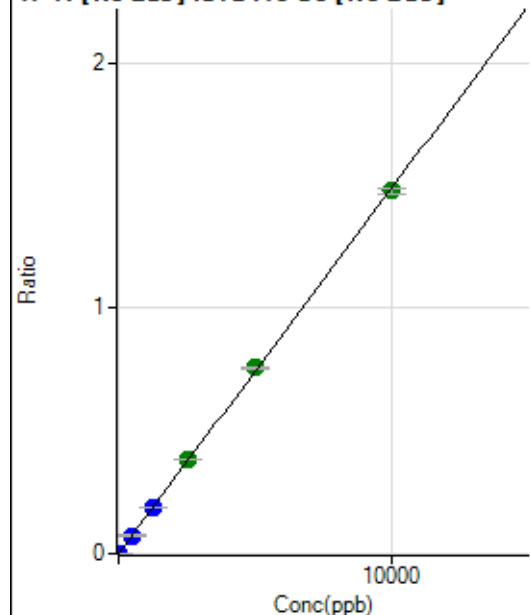
$$DL = 7.955$$

$$BEC = 61.78$$

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	97.23	0.0000	P	26.5
2	☐	5.000	4.936	2986.51	0.0008	P	8.8
3	☐	500.000	498.958	293349.92	0.0743	P	1.6
4	☐	1250.000	1253.301	731019.49	0.1865	P	1.5
5	☐	2500.000	2567.221	1487559.43	0.3820	A	1.0
6	☐	5000.000	5095.777	2943572.83	0.7583	A	1.4
7	☐	10000.000	9934.946	5767139.84	1.4784	A	1.7
8	☐			2350.72	0.0006	P	58.9

$$y = 1.4880E-004 * x + 2.4927E-005$$

$$R = 0.9999$$

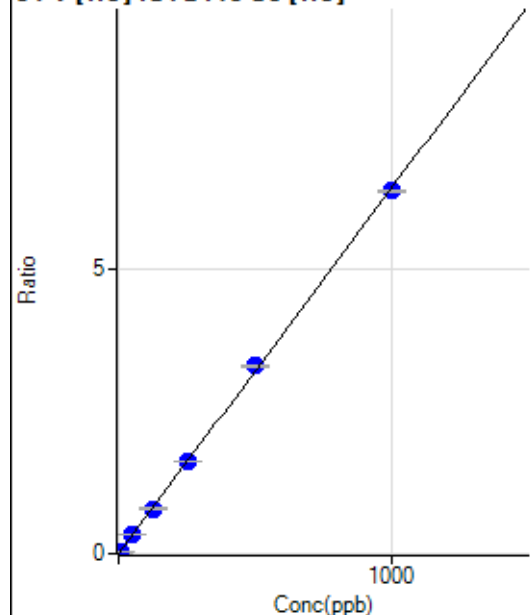
$$DL = 0.1333$$

$$BEC = 0.1675$$

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	3.33	0.0000	P	0.8
2	☐	5.000	5.270	4088.41	0.0339	P	6.1
3	☐	50.000	51.373	40826.94	0.3306	P	3.3
4	☐	125.000	123.359	101248.08	0.7937	P	1.0
5	☐	250.000	252.852	203414.91	1.6269	P	0.6
6	☐	500.000	513.228	407466.84	3.3022	P	0.7
7	☐	1000.000	992.808	802194.93	6.3878	P	0.8
8	☐			215.56	0.0017	P	33.4

$$y = 0.0064 * x + 2.5786E-005$$

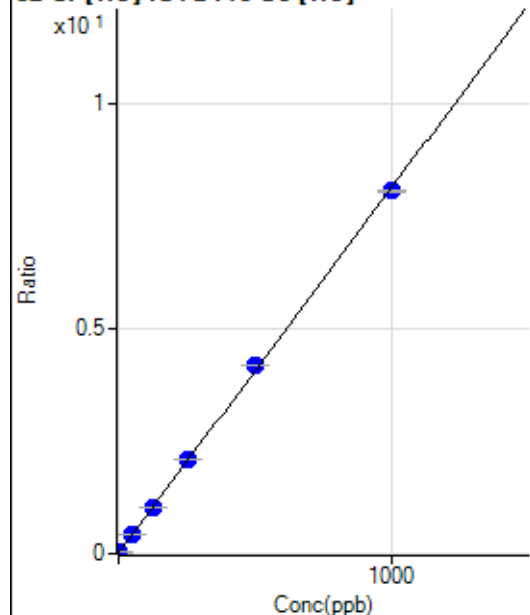
$$R = 0.9999$$

$$DL = 9.912E-05$$

$$BEC = 0.004008$$

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	831.14	0.0064	P	2.6
2	☐	2.000	2.135	2861.42	0.0238	P	7.8
3	☐	50.000	51.838	52795.94	0.4275	P	3.9
4	☐	125.000	125.644	130995.29	1.0271	P	2.3
5	☐	250.000	255.566	260379.79	2.0825	P	0.2
6	☐	500.000	513.863	515872.11	4.1807	P	0.5
7	☐	1000.000	991.504	1012304.76	8.0607	P	0.4
8	☐			5302.14	0.0422	P	2.4

$$y = 0.0081 * x + 0.0064$$

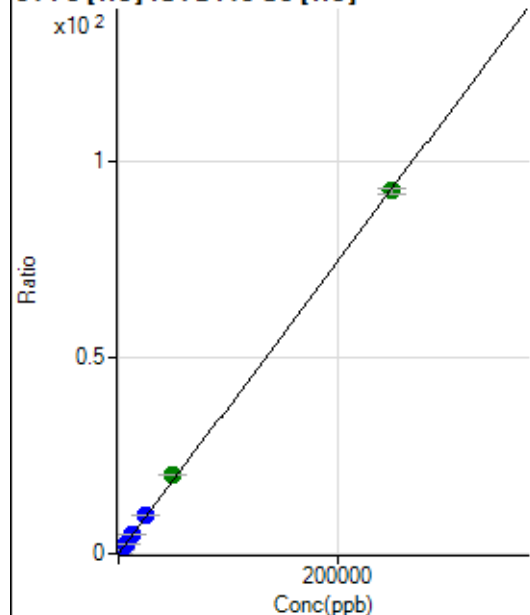
$$R = 0.9998$$

$$DL = 0.06132$$

$$BEC = 0.7924$$

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	540.76	0.0042	P	3.6
2	☐	50.000	54.994	2955.92	0.0246	P	12.7
3	☐	2500.000	2700.592	124459.47	1.0076	P	2.6
4	☐	6250.000	6535.858	310244.50	2.4326	P	2.6
5	☐	12500.000	13318.796	619268.36	4.9528	P	0.1
6	☐	25000.000	26778.494	1228210.14	9.9538	P	1.1
7	☐	50000.000	53955.388	2518094.33	20.0513	A	0.7
8	☐	250000.00	248980.98	11613387.87	92.5132	A	1.6

$$y = 3.7155E-004 * x + 0.0042$$

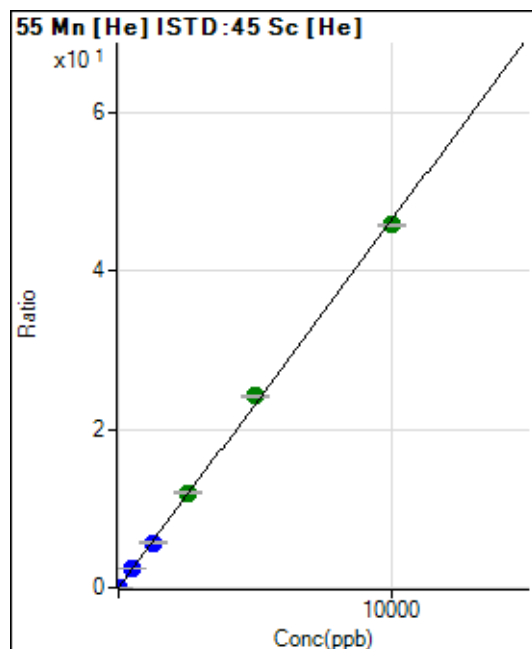
$$R = 0.9999$$

$$DL = 1.233$$

$$BEC = 11.27$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	47.78	0.0004	P	26.1
2	☐	1.000	1.109	664.46	0.0055	P	8.4
3	☐	500.000	511.246	293060.25	2.3727	P	2.9
4	☐	1250.000	1215.406	719330.26	5.6402	P	2.7
5	☐	2500.000	2585.087	1499819.13	11.9959	A	2.5
6	☐	5000.000	5213.237	2985001.72	24.1912	A	0.9
7	☐	10000.000	9875.872	5755251.03	45.8271	A	0.3
8	☐			3851.67	0.0307	P	4.2

$$y = 0.0046 * x + 3.6975E-004$$

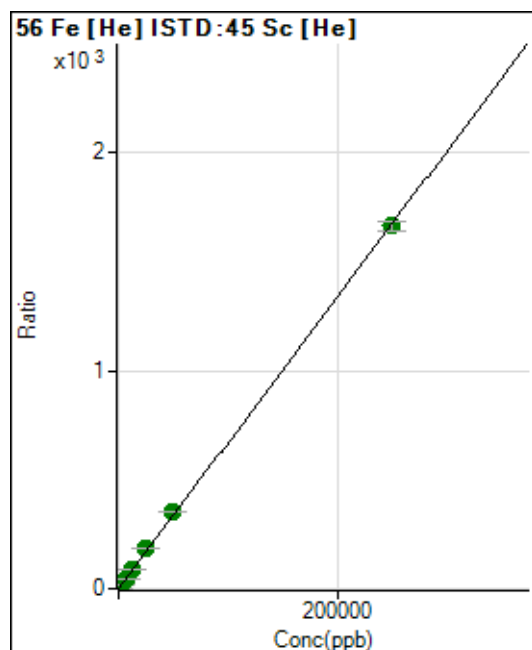
$$R = 0.9996$$

$$DL = 0.06245$$

$$BEC = 0.07968$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3370.82	0.0261	P	4.6
2	☐	50.000	54.377	46891.89	0.3897	P	7.8
3	☐	2500.000	2834.083	2343754.91	18.9753	A	2.8
4	☐	6250.000	6646.676	5672223.51	44.4669	A	1.0
5	☐	12500.000	13722.570	11475445.62	91.7775	A	0.5
6	☐	25000.000	27486.592	22680579.67	183.8061	A	0.6
7	☐	50000.000	52768.794	44313139.88	352.8472	A	0.9
8	☐	250000.00	249123.19	209082663.9	1,665.706	A	2.7

$$y = 0.0067 * x + 0.0261$$

$$R = 0.9999$$

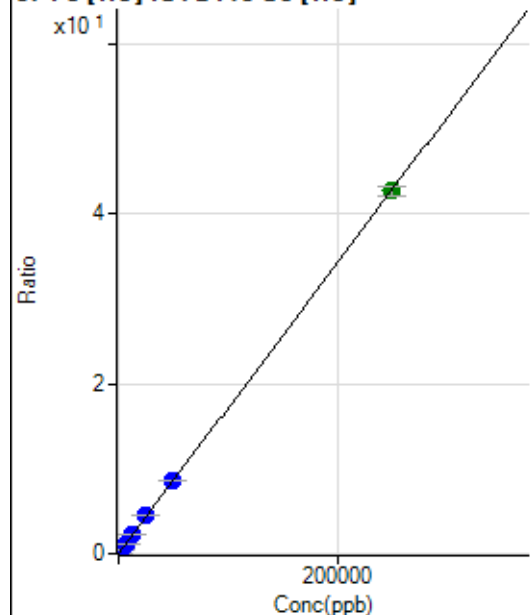
$$DL = 0.5403$$

$$BEC = 3.903$$

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	120.37	0.0009	P	10.1
2	☐	50.000	57.265	1288.97	0.0107	P	9.1
3	☐	2500.000	2651.087	56035.92	0.4537	P	3.5
4	☐	6250.000	6370.526	138882.50	1.0890	P	3.0
5	☐	12500.000	12983.501	277382.41	2.2185	P	0.7
6	☐	25000.000	26182.795	551917.98	4.4729	P	1.3
7	☐	50000.000	50057.627	1073810.88	8.5507	P	0.9
8	☐	250000.00	249841.49	5356307.64	42.6733	A	2.8

$$y = 1.7080\text{E-}004 * x + 9.3174\text{E-}004$$

$$R = 1.0000$$

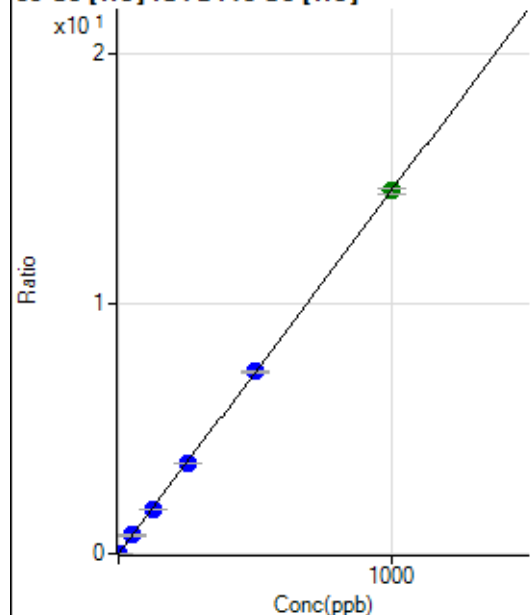
$$DL = 1.66$$

$$BEC = 5.455$$

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	50.00	0.0004	P	17.6
2	☐	1.000	1.070	1921.26	0.0159	P	3.9
3	☐	50.000	50.948	91446.84	0.7405	P	3.7
4	☐	125.000	122.450	226929.84	1.7791	P	1.6
5	☐	250.000	248.806	451932.08	3.6146	P	1.1
6	☐	500.000	501.848	899563.35	7.2903	P	1.6
7	☐	1000.000	999.646	1823538.23	14.5214	A	1.5
8	☐			4342.93	0.0346	P	1.6

$$y = 0.0145 * x + 3.8715\text{E-}004$$

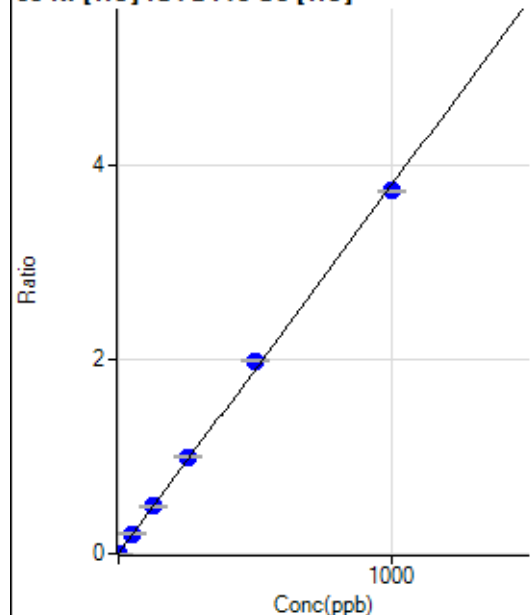
$$R = 1.0000$$

$$DL = 0.01411$$

$$BEC = 0.02665$$

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	275.56	0.0021	P	4.6
2	☐	1.000	1.172	792.25	0.0066	P	7.2
3	☐	50.000	53.672	25403.82	0.2057	P	3.5
4	☐	125.000	129.461	62889.45	0.4931	P	3.2
5	☐	250.000	262.541	124765.85	0.9979	P	0.9
6	☐	500.000	522.361	244724.20	1.9833	P	1.1
7	☐	1000.000	984.943	469416.85	3.7378	P	0.6
8	☐			2494.69	0.0199	P	1.5

$$y = 0.0038 * x + 0.0021$$

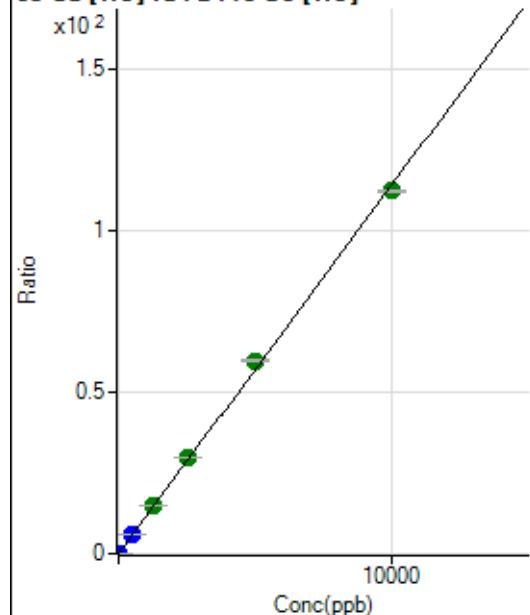
$$R = 0.9995$$

$$DL = 0.0783$$

$$BEC = 0.5627$$

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	468.90	0.0036	P	4.6
2	☐	2.000	2.115	3334.87	0.0277	P	8.7
3	☐	500.000	518.695	730132.99	5.9114	P	3.0
4	☐	1250.000	1305.211	1896309.68	14.8697	A	3.2
5	☐	2500.000	2614.972	3724378.52	29.7875	A	1.2
6	☐	5000.000	5229.226	7349658.29	59.5633	A	0.8
7	☐	10000.000	9848.808	14088652.29	112.1792	A	0.3
8	☐			4634.14	0.0369	P	0.5

$$y = 0.0114 * x + 0.0036$$

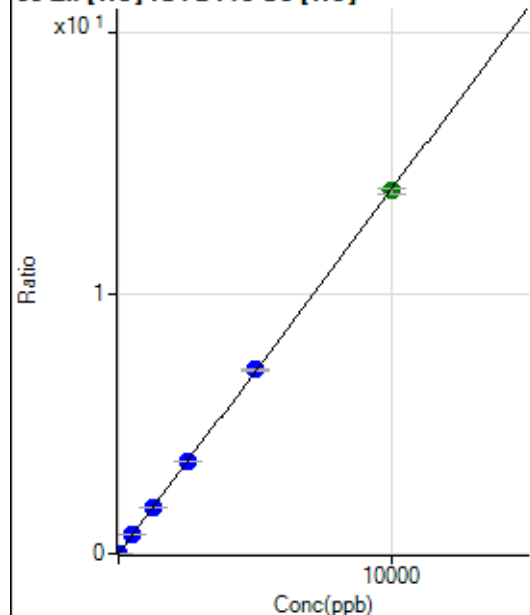
$$R = 0.9995$$

$$DL = 0.04447$$

$$BEC = 0.3188$$

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	85.56	0.0007	P	20.1
2	☐	2.000	2.162	442.24	0.0037	P	14.3
3	☐	500.000	523.012	90459.73	0.7325	P	3.6
4	☐	1250.000	1255.095	224084.85	1.7568	P	1.7
5	☐	2500.000	2537.085	443944.84	3.5506	P	0.5
6	☐	5000.000	5055.163	872889.33	7.0740	P	0.7
7	☐	10000.000	9961.360	1750465.18	13.9389	A	1.3
8	☐			2925.89	0.0233	P	2.4

$$y = 0.0014 * x + 6.6253E-004$$

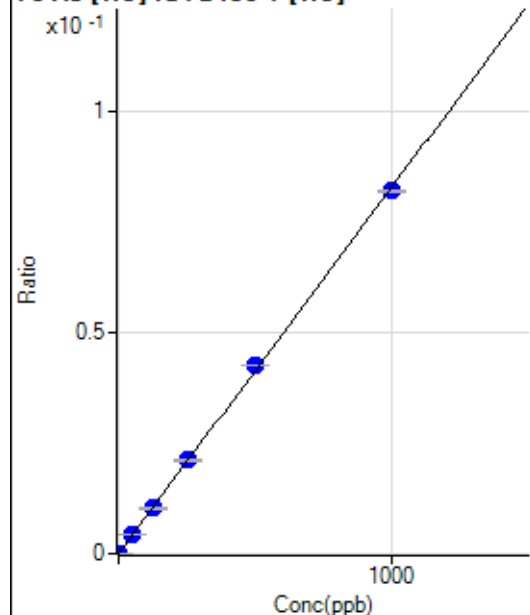
$$R = 1.0000$$

$$DL = 0.2855$$

$$BEC = 0.4735$$

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	2.33	0.0000	P	25.5
2	☐	1.000	1.035	94.34	0.0001	P	9.9
3	☐	50.000	53.537	4926.36	0.0044	P	3.3
4	☐	125.000	125.369	12089.38	0.0104	P	3.8
5	☐	250.000	255.427	24044.77	0.0212	P	0.6
6	☐	500.000	514.986	48043.59	0.0427	P	0.8
7	☐	1000.000	990.927	94185.26	0.0821	P	0.8
8	☐			41.34	0.0000	P	22.3

$$y = 8.2875E-005 * x + 2.0144E-006$$

$$R = 0.9998$$

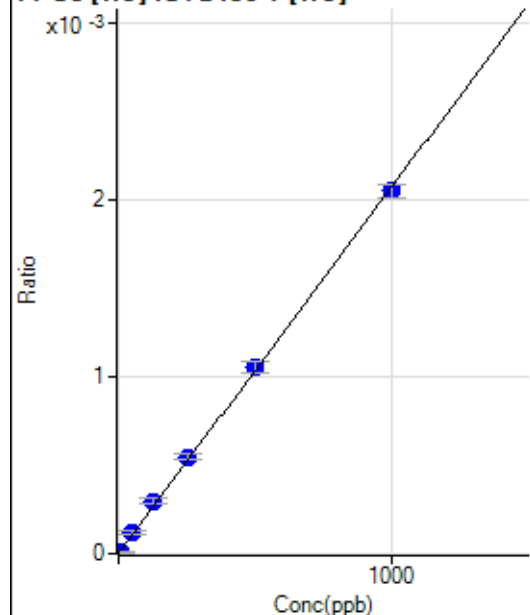
$$DL = 0.01861$$

$$BEC = 0.02431$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2.22	0.0000	P	173.
2	☐	5.000	2.420	7.78	0.0000	P	109.
3	☐	50.000	54.663	127.78	0.0001	P	18.9
4	☐	125.000	143.478	347.78	0.0003	P	8.3
5	☐	250.000	263.393	621.13	0.0005	P	5.0
6	☐	500.000	508.208	1185.62	0.0011	P	5.6
7	☐	1000.000	990.018	2351.33	0.0021	P	3.8
8	☐			20.00	0.0000	P	33.7

$$y = 2.0693\text{E-}006 * x + 1.9061\text{E-}006$$

$$R = 0.9997$$

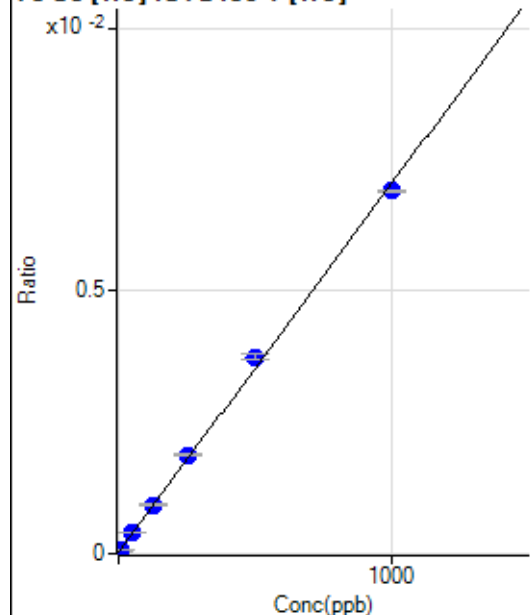
$$DL = 4.787$$

$$BEC = 0.9212$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	29.67	0.0000	P	5.6
2	☐	5.000	5.125	66.34	0.0001	P	3.2
3	☐	50.000	53.703	446.39	0.0004	P	8.2
4	☐	125.000	128.098	1075.82	0.0009	P	4.7
5	☐	250.000	264.702	2139.38	0.0019	P	2.0
6	☐	500.000	529.799	4214.06	0.0037	P	2.9
7	☐	1000.000	980.852	7925.36	0.0069	P	0.3
8	☐			77.01	0.0001	P	11.8

$$y = 7.0191\text{E-}006 * x + 2.5586\text{E-}005$$

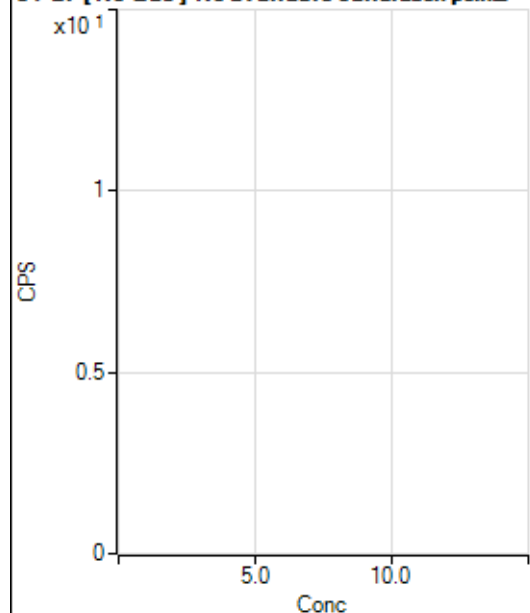
$$R = 0.9992$$

$$DL = 0.613$$

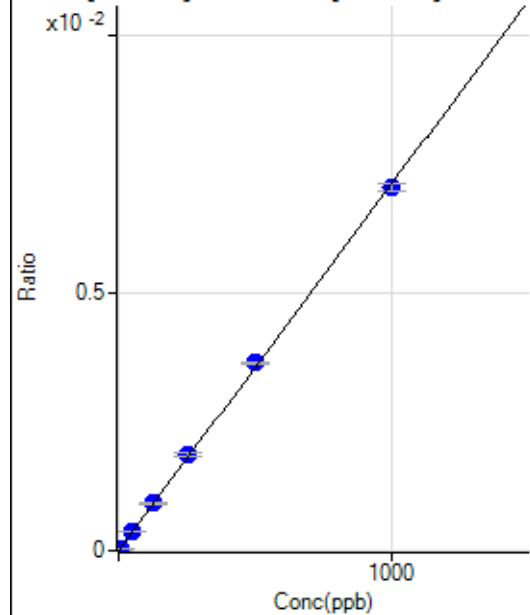
$$BEC = 3.645$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			39019.22		P	3.2
2	☐			39916.37		P	2.5
3	☐			39673.87		P	3.2
4	☐			37648.89		P	2.2
5	☐			37604.18		P	1.8
6	☐			36434.40		P	2.3
7	☐			35479.19		P	1.8
8	☐			37005.23		P	3.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	14.16	0.0000	P	60.9
2	☐	5.000	5.036	386.21	0.0000	P	13.1
3	☐	50.000	52.084	3807.19	0.0004	P	1.4
4	☐	125.000	130.072	9460.07	0.0009	P	3.8
5	☐	250.000	262.878	19130.07	0.0019	P	2.7
6	☐	500.000	512.785	37099.19	0.0036	P	1.4
7	☐	1000.000	989.650	72299.39	0.0070	P	2.1
8	☐			409.55	0.0000	P	6.8

$$y = 7.1093E-006 * x + 1.3927E-006$$

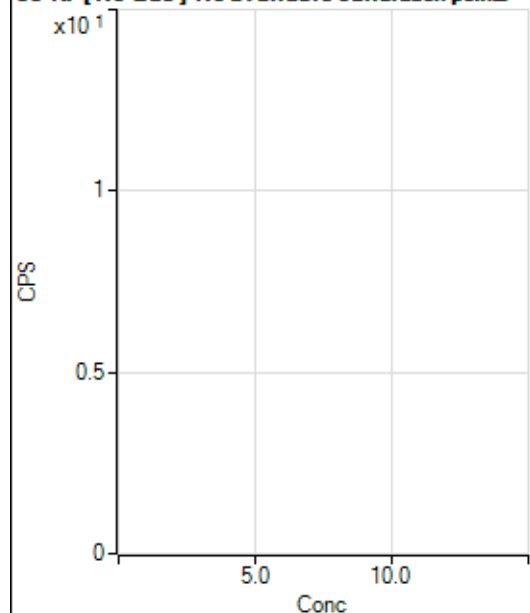
$$R = 0.9998$$

$$DL = 0.3582$$

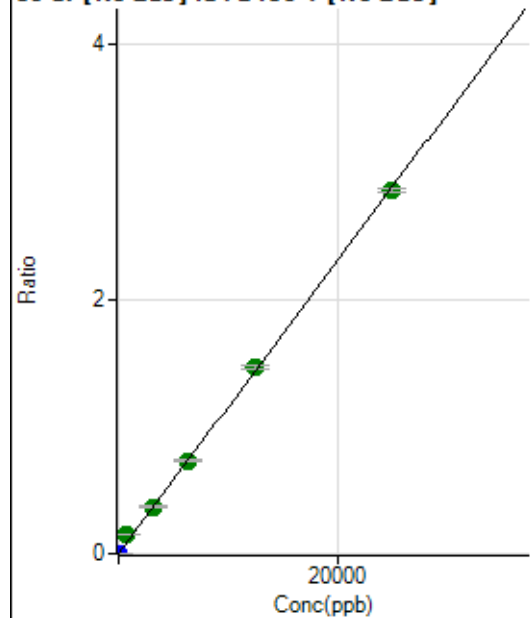
$$BEC = 0.1959$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			220.39		P	4.7
2	☐			207.06		P	13.3
3	☐			204.56		P	7.6
4	☐			199.98		P	8.5
5	☐			208.31		P	10.6
6	☐			200.40		P	6.1
7	☐			219.97		P	8.9
8	☐			219.14		P	6.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	380.57	0.0000	P	10.0
2	☐	1.000	1.022	1608.48	0.0002	P	3.5
3	☐	625.000	1293.674	1523672.16	0.1487	A	0.7
4	☐	3125.000	3189.148	3745132.72	0.3666	A	2.6
5	☐	6250.000	6364.391	7483772.21	0.7316	A	1.5
6	☐	12500.000	12781.950	14945616.13	1.4693	A	1.9
7	☐	25000.000	24805.692	29298013.50	2.8513	A	1.2
8	☐			11617.59	0.0011	P	62.4

$$y = 1.1494\text{E-}004 * x + 3.7232\text{E-}005$$

$$R = 0.9996$$

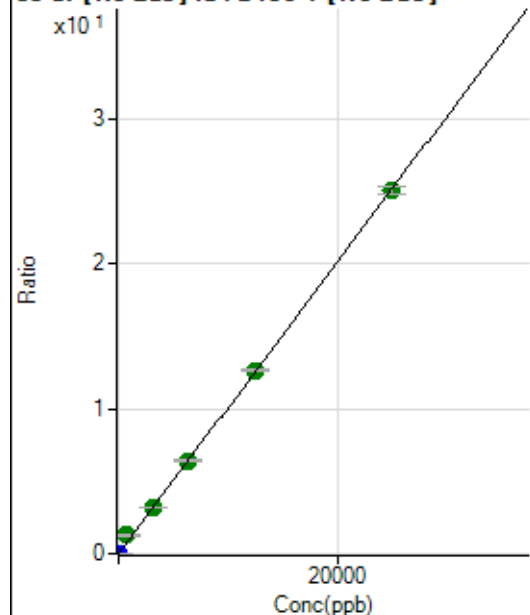
$$DL = 0.0968$$

$$BEC = 0.3239$$

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	502.81	0.0000	P	74.9
2	☐	1.000	0.967	10593.18	0.0010	P	3.9
3	☐	625.000	1256.238	12914281.19	1.2606	A	0.6
4	☐	3125.000	3154.174	32333207.32	3.1651	A	2.9
5	☐	6250.000	6346.601	65144007.71	6.3686	A	2.1
6	☐	12500.000	12584.831	128471052.8	12.6284	A	0.9
7	☐	25000.000	24914.007	256870319.6	25.0002	A	2.0
8	☐			97257.77	0.0093	P	57.9

$$y = 0.0010 * x + 4.9396E-005$$

$$R = 0.9997$$

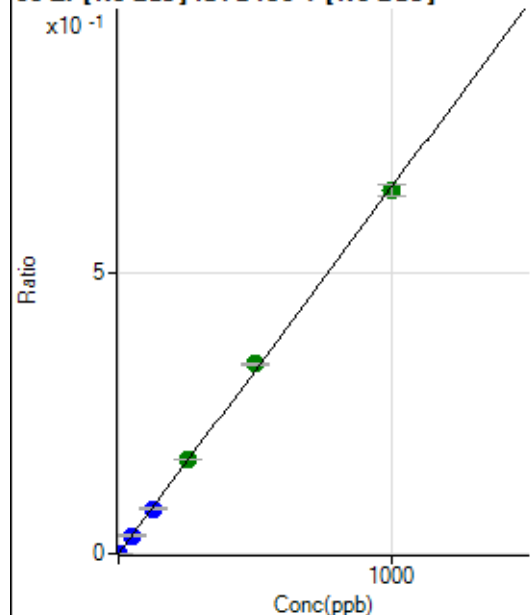
$$DL = 0.1107$$

$$BEC = 0.04923$$

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	405.57	0.0000	P	12.0
2	☐	1.000	0.869	6301.60	0.0006	P	4.1
3	☐	50.000	49.543	331247.67	0.0323	P	1.4
4	☐	125.000	122.947	819229.21	0.0802	P	1.5
5	☐	250.000	256.512	1711087.32	0.1673	A	0.9
6	☐	500.000	517.536	3432622.95	0.3374	A	0.9
7	☐	1000.000	989.884	6629874.50	0.6453	A	3.3
8	☐			4957.68	0.0005	P	29.0

$$y = 6.5189E-004 * x + 3.9657E-005$$

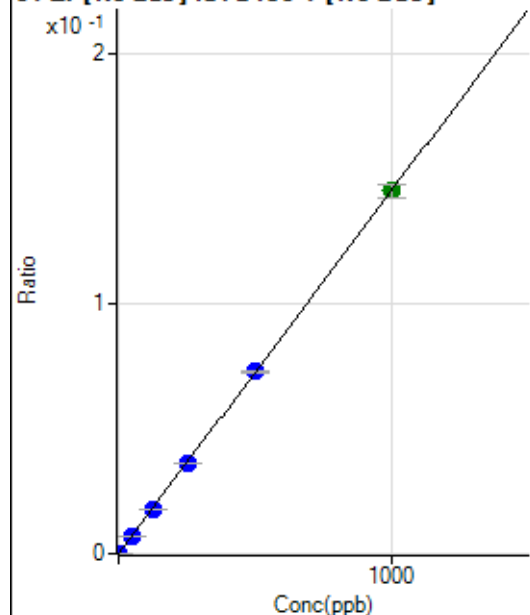
$$R = 0.9997$$

$$DL = 0.02193$$

$$BEC = 0.06083$$

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	61.11	0.0000	P	27.4
2	☐	1.000	0.857	1355.66	0.0001	P	3.8
3	☐	50.000	48.167	71701.17	0.0070	P	2.1
4	☐	125.000	121.615	180473.19	0.0177	P	1.2
5	☐	250.000	249.459	370619.01	0.0362	P	1.1
6	☐	500.000	501.874	741427.08	0.0729	P	1.2
7	☐	1000.000	999.713	1491338.60	0.1452	A	3.5
8	☐			1011.22	0.0001	P	27.9

$$y = 1.4520\text{E-}004 * x + 5.9713\text{E-}006$$

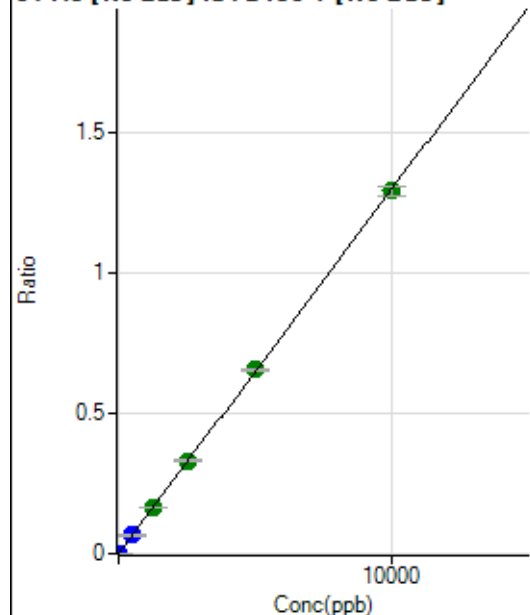
$$R = 1.0000$$

$$DL = 0.03385$$

$$BEC = 0.04112$$

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	125.00	0.0000	P	22.4
2	☐	5.000	5.550	7602.30	0.0007	P	1.6
3	☐	500.000	502.866	667593.08	0.0652	P	1.7
4	☐	1250.000	1264.831	1674617.77	0.1639	A	1.3
5	☐	2500.000	2547.905	3377461.14	0.3302	A	1.9
6	☐	5000.000	5048.685	6656005.62	0.6542	A	1.4
7	☐	10000.000	9961.684	13261602.12	1.2909	A	2.9
8	☐			7973.48	0.0008	P	40.4

$$y = 1.2958\text{E-}004 * x + 1.2209\text{E-}005$$

$$R = 1.0000$$

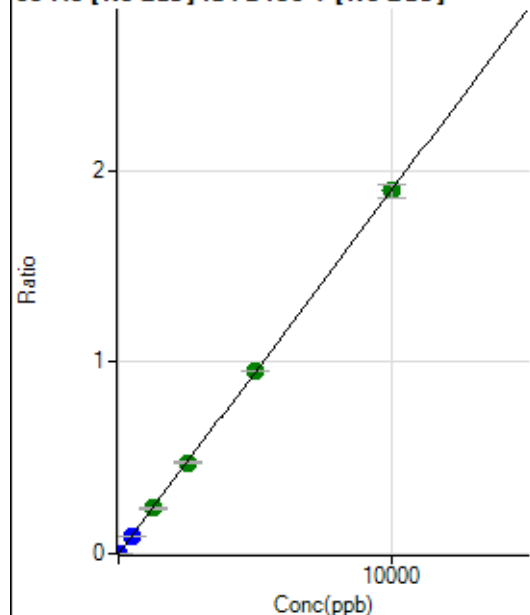
$$DL = 0.0634$$

$$BEC = 0.09422$$

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	55.56	0.0000	P	34.1
2	☐	5.000	4.715	9347.88	0.0009	P	0.9
3	☐	500.000	493.587	958724.26	0.0936	P	2.0
4	☐	1250.000	1252.090	2425687.77	0.2374	A	1.9
5	☐	2500.000	2509.728	4867867.34	0.4759	A	2.1
6	☐	5000.000	5025.726	9695146.74	0.9530	A	0.6
7	☐	10000.000	9984.764	19449999.39	1.8933	A	3.5
8	☐			10159.45	0.0010	P	49.5

$$y = 1.8962\text{E-}004 * x + 5.4284\text{E-}006$$

$$R = 1.0000$$

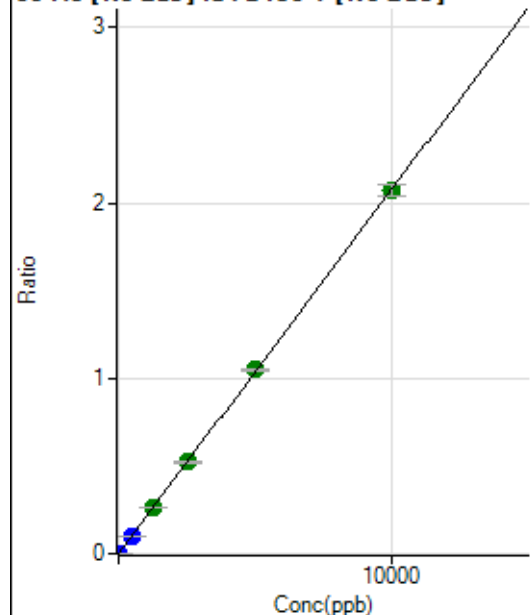
$$DL = 0.02927$$

$$BEC = 0.02863$$

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	97.22	0.0000	P	20.3
2	☐	5.000	4.688	10206.82	0.0010	P	3.3
3	☐	500.000	493.580	1048815.03	0.1024	P	2.2
4	☐	1250.000	1262.053	2674526.06	0.2618	A	2.6
5	☐	2500.000	2513.626	5335011.97	0.5214	A	0.9
6	☐	5000.000	5055.497	10668603.71	1.0487	A	1.0
7	☐	10000.000	9967.659	21241631.20	2.0677	A	3.1
8	☐			14179.16	0.0014	P	38.9

$$y = 2.0744\text{E-}004 * x + 9.5004\text{E-}006$$

$$R = 1.0000$$

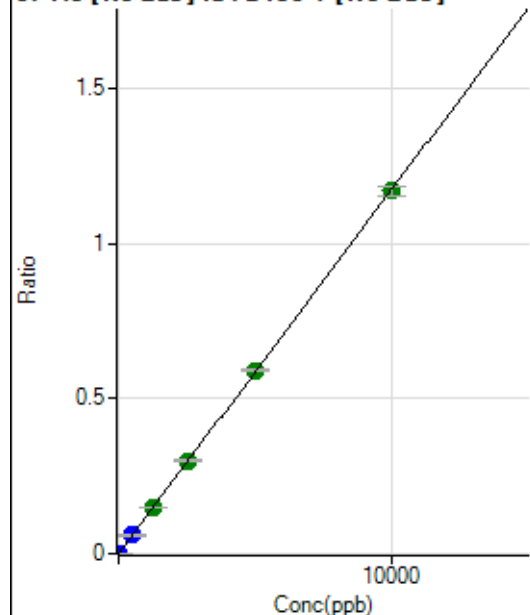
$$DL = 0.02788$$

$$BEC = 0.0458$$

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	13.89	0.0000	P	91.7
2	☐	5.000	4.771	5826.39	0.0006	P	4.5
3	☐	500.000	502.296	603188.81	0.0589	P	2.3
4	☐	1250.000	1256.662	1505059.25	0.1473	A	2.1
5	☐	2500.000	2555.712	3065148.31	0.2996	A	1.6
6	☐	5000.000	5028.078	5996611.33	0.5895	A	1.1
7	☐	10000.000	9971.085	12009580.47	1.1690	A	2.5
8	☐			6242.98	0.0006	P	46.1

$$y = 1.1723\text{E-}004 * x + 1.3723\text{E-}006$$

$$R = 1.0000$$

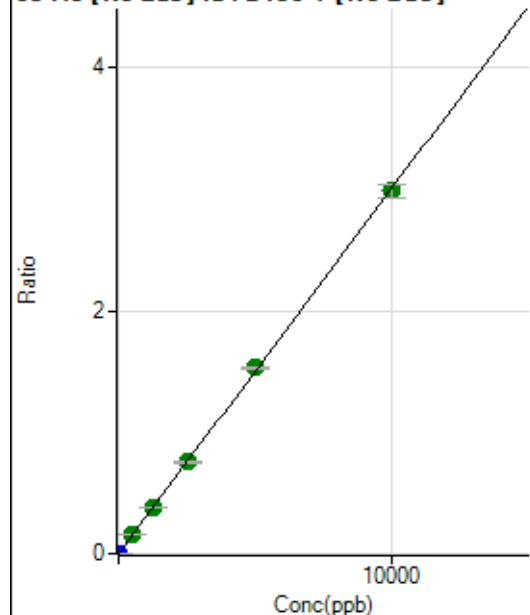
$$DL = 0.03219$$

$$BEC = 0.01171$$

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	77.78	0.0000	P	27.3
2	☐	5.000	4.612	14474.60	0.0014	P	2.2
3	☐	500.000	509.655	1567808.47	0.1531	A	2.6
4	☐	1250.000	1264.890	3881191.97	0.3799	A	0.9
5	☐	2500.000	2526.283	7760727.00	0.7587	A	2.3
6	☐	5000.000	5100.059	15581838.72	1.5317	A	1.4
7	☐	10000.000	9941.056	30669781.59	2.9855	A	3.6
8	☐			16876.86	0.0016	P	38.5

$$y = 3.0032\text{E-}004 * x + 7.6158\text{E-}006$$

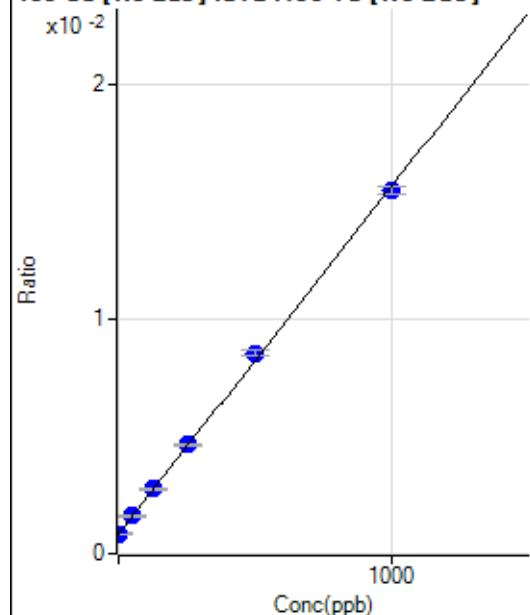
$$R = 0.9999$$

$$DL = 0.0208$$

$$BEC = 0.02536$$

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	6107.10	0.0008	P	6.5
2	☐	1.000	-0.075	6182.09	0.0008	P	2.9
3	☐	50.000	51.581	11744.21	0.0016	P	2.9
4	☐	125.000	129.584	20028.93	0.0028	P	2.1
5	☐	250.000	256.243	34129.02	0.0046	P	1.2
6	☐	500.000	520.946	62129.69	0.0086	P	2.4
7	☐	1000.000	987.315	115022.35	0.0155	P	2.3
8	☐			6287.72	0.0008	P	3.4

$$y = 1.4796\text{E-}005 * x + 8.4244\text{E-}004$$

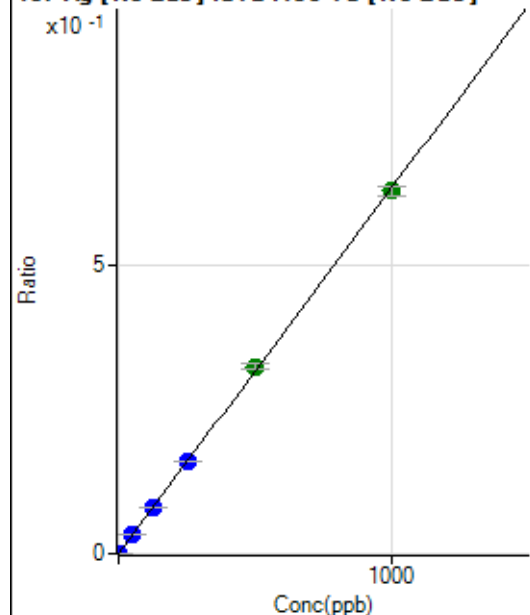
$$R = 0.9996$$

$$DL = 11.16$$

$$BEC = 56.94$$

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	200.01	0.0000	P	8.6
2	☐	1.000	0.961	4670.35	0.0006	P	5.4
3	☐	50.000	51.340	237767.61	0.0325	P	0.8
4	☐	125.000	127.298	584675.50	0.0806	P	1.3
5	☐	250.000	252.762	1177994.22	0.1599	P	1.2
6	☐	500.000	512.526	2355926.77	0.3243	A	2.8
7	☐	1000.000	992.692	4675327.58	0.6280	A	2.6
8	☐			1594.89	0.0002	P	66.2

$$y = 6.3264\text{E-}004 * x + 2.7607\text{E-}005$$

$$R = 0.9999$$

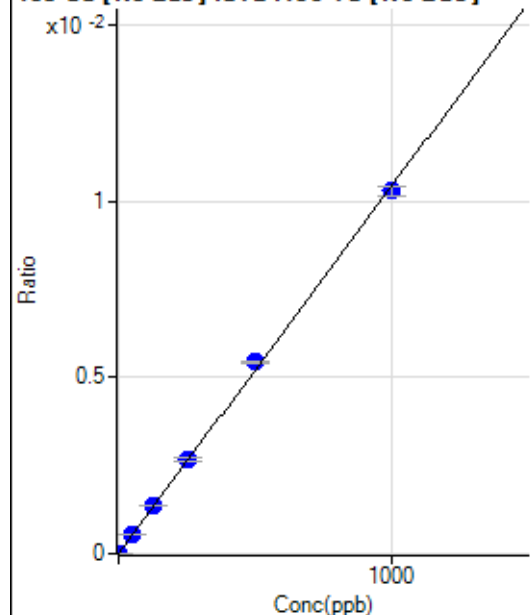
$$DL = 0.01122$$

$$BEC = 0.04364$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19.44	0.0000	P	31.5
2	☐	1.000	1.177	109.72	0.0000	P	8.1
3	☐	50.000	52.637	4028.42	0.0006	P	1.1
4	☐	125.000	130.964	9916.18	0.0014	P	1.7
5	☐	250.000	254.268	19520.89	0.0027	P	4.1
6	☐	500.000	520.936	39450.88	0.0054	P	1.2
7	☐	1000.000	987.588	76565.19	0.0103	P	2.8
8	☐			105.56	0.0000	P	19.5

$$y = 1.0412\text{E-}005 * x + 2.6738\text{E-}006$$

$$R = 0.9997$$

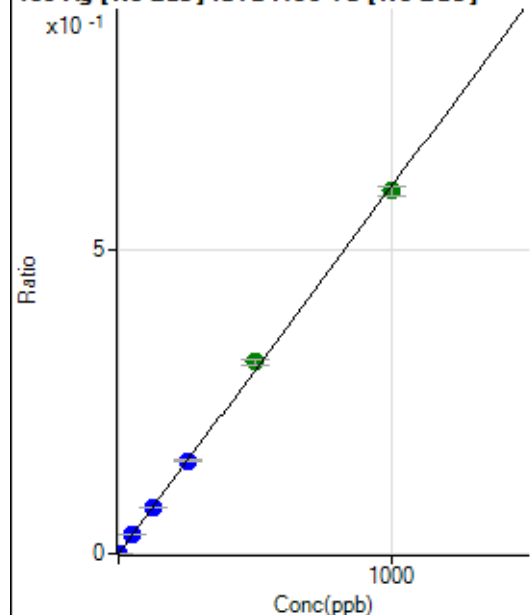
$$DL = 0.2429$$

$$BEC = 0.2568$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	183.34	0.0000	P	20.8
2	☐	1.000	0.976	4525.87	0.0006	P	5.4
3	☐	50.000	51.681	228943.73	0.0313	P	0.4
4	☐	125.000	126.721	556733.03	0.0767	P	2.1
5	☐	250.000	252.554	1125744.90	0.1529	P	1.9
6	☐	500.000	521.651	2293872.81	0.3157	A	2.6
7	☐	1000.000	988.237	4452131.48	0.5981	A	2.9
8	☐			1606.05	0.0002	P	56.9

$$y = 6.0516\text{E-}004 * x + 2.5328\text{E-}005$$

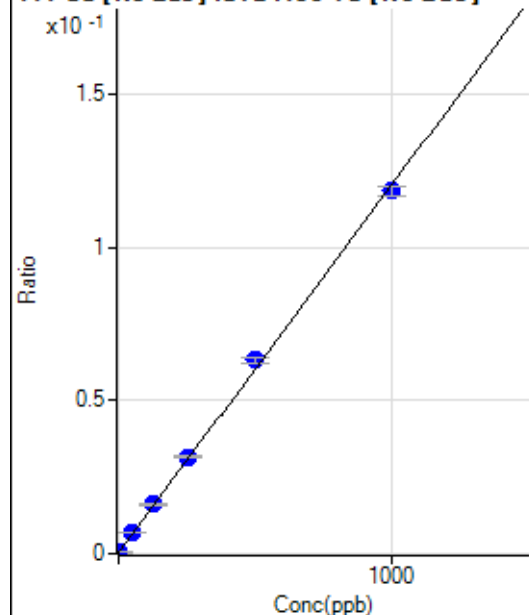
$$R = 0.9996$$

$$DL = 0.02606$$

$$BEC = 0.04185$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2128.04	0.0003	P	6.6
2	☐	1.000	0.995	3034.19	0.0004	P	1.8
3	☐	50.000	52.801	48498.91	0.0066	P	0.6
4	☐	125.000	131.654	116806.13	0.0161	P	1.4
5	☐	250.000	260.301	232232.33	0.0315	P	2.2
6	☐	500.000	523.601	458695.25	0.0631	P	3.0
7	☐	1000.000	984.652	881892.52	0.1185	P	2.3
8	☐			2787.96	0.0004	P	9.1

$$y = 1.2002\text{E-}004 * x + 2.9356\text{E-}004$$

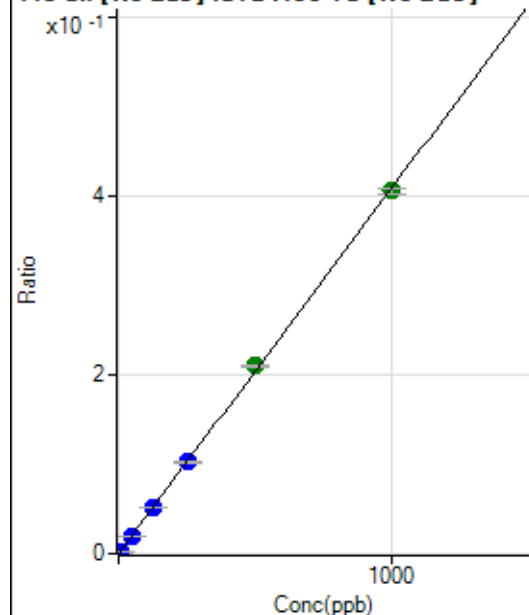
$$R = 0.9995$$

$$DL = 0.4865$$

$$BEC = 2.446$$

Weight: <None>

Min Conc: 0

118 Sn [No Gas] ISTD :159 Tb [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	419.46	0.0001	P	11.9
2	☐	5.000	4.840	14944.69	0.0020	P	2.1
3	☐	50.000	49.321	147701.29	0.0202	P	0.8
4	☐	125.000	125.501	372276.68	0.0513	P	0.6
5	☐	250.000	250.441	753641.50	0.1023	P	0.6
6	☐	500.000	513.446	1523601.49	0.2097	A	1.9
7	☐	1000.000	993.139	3018914.74	0.4055	A	1.6
8	☐			2781.13	0.0004	P	35.1

$$y = 4.0827\text{E-}004 * x + 5.7792\text{E-}005$$

$$R = 0.9999$$

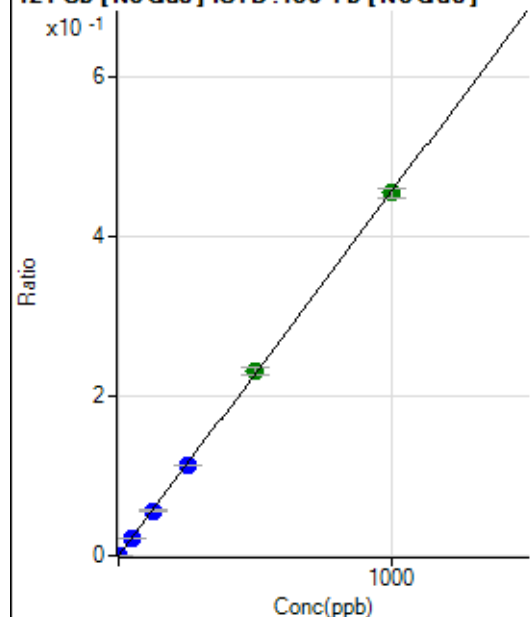
$$DL = 0.05048$$

$$BEC = 0.1416$$

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	20.6
2	☐	2.000	1.889	6354.44	0.0009	P	5.1
3	☐	50.000	49.112	163897.35	0.0224	P	2.1
4	☐	125.000	123.681	409516.63	0.0564	P	1.2
5	☐	250.000	248.750	835890.42	0.1135	P	0.7
6	☐	500.000	508.096	1683907.57	0.2318	A	3.6
7	☐	1000.000	996.474	3383877.90	0.4546	A	2.6
8	☐			3031.21	0.0004	P	24.8

$$y = 4.5620\text{E-}004 * x + 3.0600\text{E-}006$$

$$R = 0.9999$$

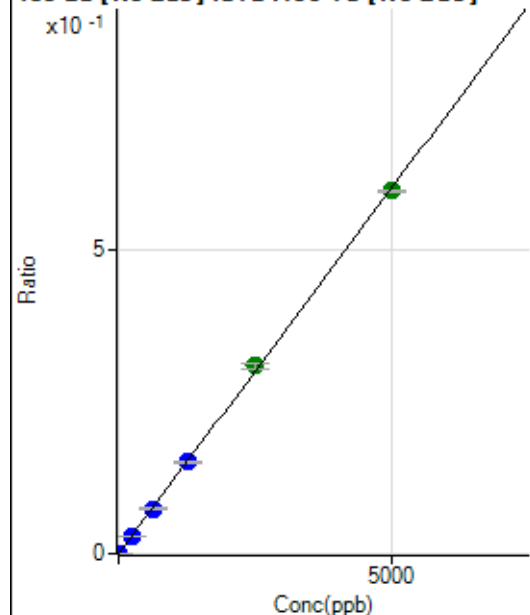
$$DL = 0.00414$$

$$BEC = 0.006708$$

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	19.45	0.0000	P	107.
2	☐	10.000	9.919	8808.66	0.0012	P	3.0
3	☐	250.000	245.981	216978.40	0.0297	P	2.1
4	☐	625.000	615.690	538857.20	0.0742	P	2.1
5	☐	1250.000	1252.430	1112400.01	0.1510	P	1.1
6	☐	2500.000	2570.954	2252449.36	0.3100	A	2.8
7	☐	5000.000	4965.280	4457819.33	0.5988	A	0.5
8	☐			3673.11	0.0005	P	25.3

$$y = 1.2059\text{E-}004 * x + 2.6922\text{E-}006$$

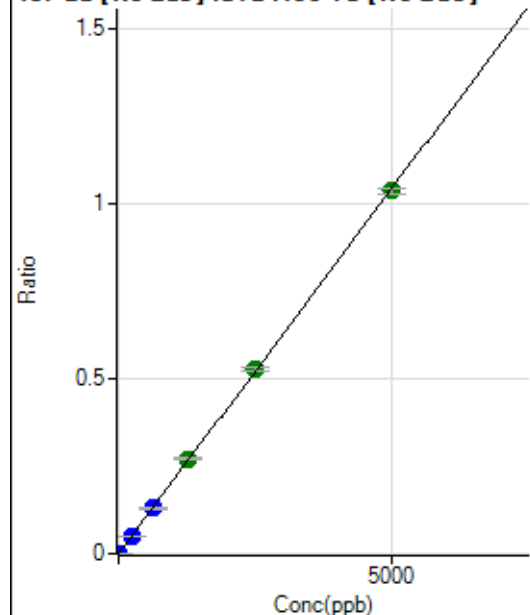
$$R = 0.9998$$

$$DL = 0.07185$$

$$BEC = 0.02233$$

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	33.33	0.0000	P	24.2
2	☐	10.000	9.515	14619.38	0.0020	P	0.8
3	☐	250.000	247.917	378323.54	0.0517	P	1.2
4	☐	625.000	622.719	942858.01	0.1299	P	1.2
5	☐	1250.000	1293.964	1988285.22	0.2699	A	1.8
6	☐	2500.000	2533.371	3840285.07	0.5285	A	2.0
7	☐	5000.000	4972.714	7722746.96	1.0374	A	1.8
8	☐			6341.51	0.0008	P	28.3

$$y = 2.0862E-004 * x + 4.5933E-006$$

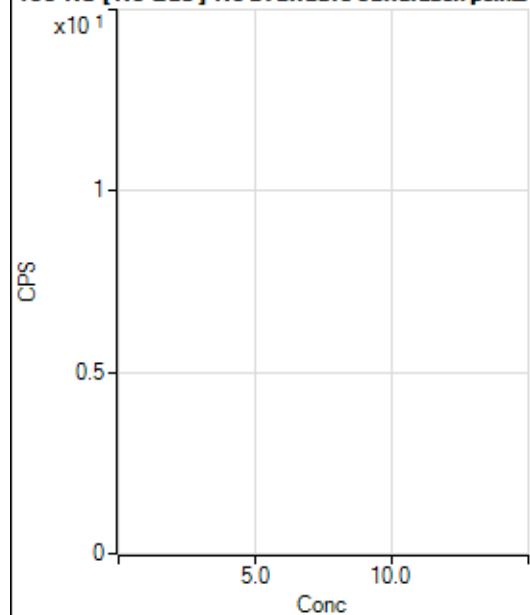
$$R = 0.9999$$

$$DL = 0.01601$$

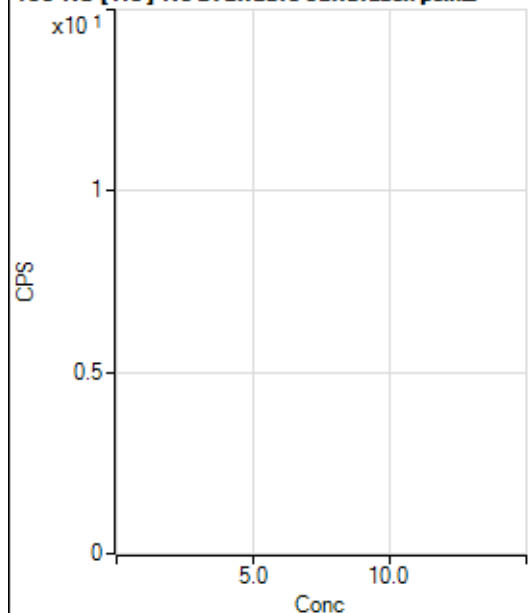
$$BEC = 0.02202$$

Weight: <None>

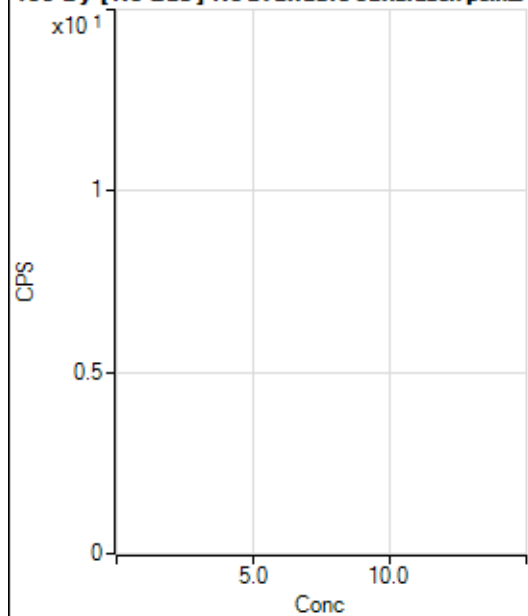
Min Conc: 0

150 Nd [No Gas] No available calibration points

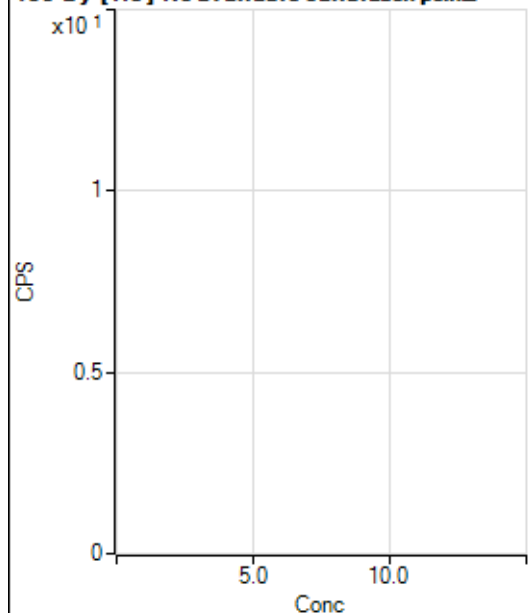
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			6.67		P	100.
3	☐			48.89		P	28.4
4	☐			133.33		P	17.3
5	☐			257.79		P	21.5
6	☐			531.13		P	11.0
7	☐			1015.62		P	9.9
8	☐			142.23		P	21.1

150 Nd [He] No available calibration points

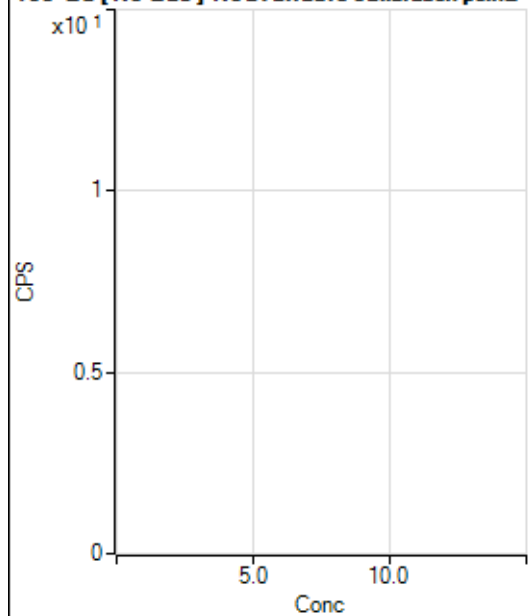
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	34.7
2	☐			1.11		P	173.
3	☐			6.67		P	100.
4	☐			5.56		P	173.
5	☐			24.45		P	15.8
6	☐			47.78		P	28.2
7	☐			65.56		P	33.1
8	☐			47.78		P	8.1

156 Dy [No Gas] No available calibration points

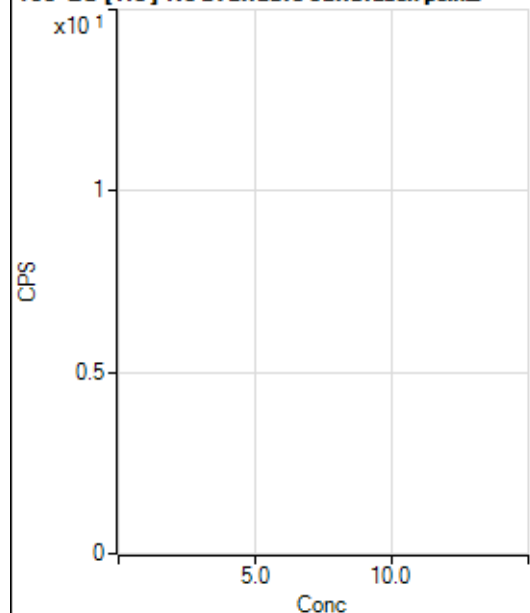
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐			11.11		P	114.
3	☐			30.55		P	15.7
4	☐			50.00		P	28.9
5	☐			86.11		P	43.6
6	☐			152.78		P	38.3
7	☐			355.57		P	17.3
8	☐			963.95		P	12.3

156 Dy [He] No available calibration points

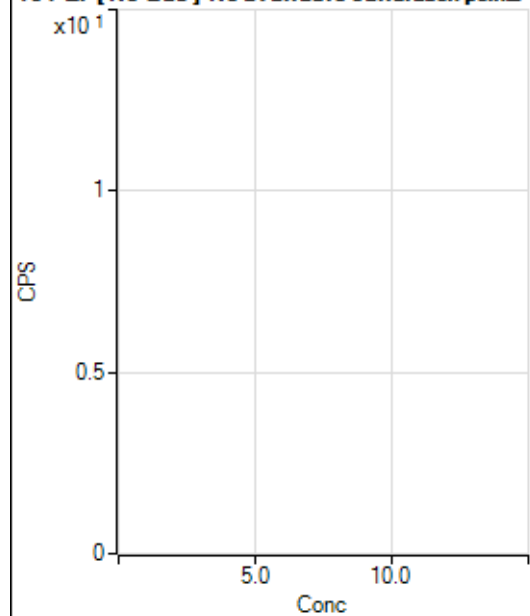
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			1.11		P	173.
3	☐			6.67		P	50.0
4	☐			15.56		P	65.5
5	☐			44.45		P	15.6
6	☐			70.00		P	17.2
7	☐			161.11		P	13.8
8	☐			397.79		P	2.1

160 Gd [No Gas] Noavailable calibration poin_

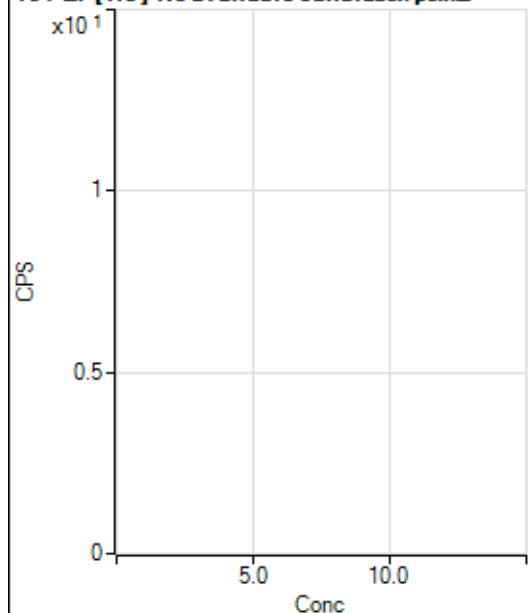
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.11		P	13.3
2	☐			75.00		P	48.4
3	☐			72.22		P	35.2
4	☐			80.56		P	41.8
5	☐			125.01		P	35.3
6	☐			213.90		P	14.8
7	☐			330.57		P	8.1
8	☐			877.83		P	4.8

160 Gd [He] No available calibration points

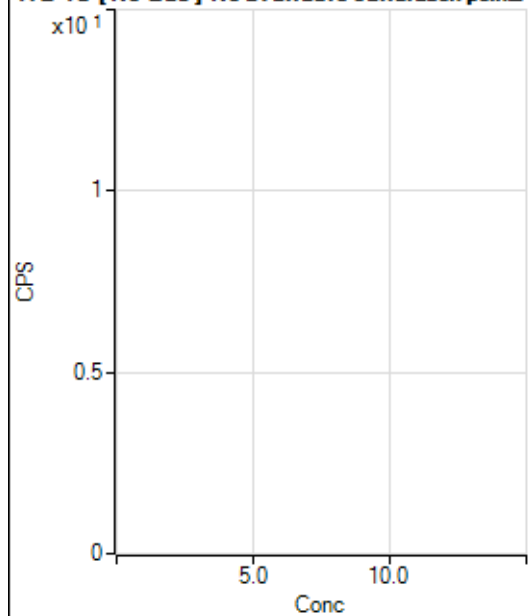
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			118.89		P	9.0
2	☐			98.89		P	29.1
3	☐			137.78		P	18.5
4	☐			118.89		P	9.0
5	☐			143.34		P	6.2
6	☐			157.78		P	23.3
7	☐			233.34		P	10.8
8	☐			562.24		P	3.4

164 Er [No Gas] No available calibration points

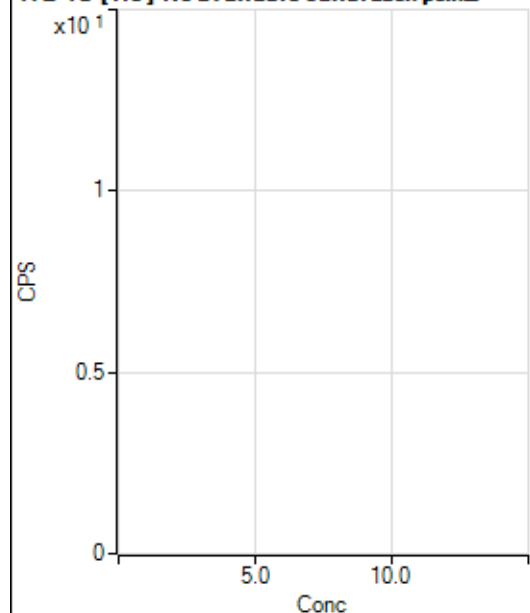
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.22		P	27.0
2	☐			38.89		P	12.4
3	☐			52.78		P	9.1
4	☐			75.00		P	40.1
5	☐			61.11		P	28.4
6	☐			111.11		P	24.1
7	☐			125.01		P	23.1
8	☐			155.56		P	16.4

164 Er [He] No available calibration points

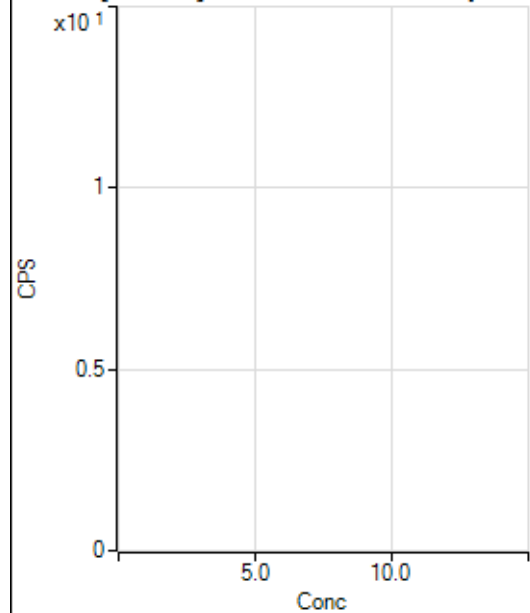
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			20.00		P	28.9
2	☐			12.22		P	41.7
3	☐			24.44		P	20.8
4	☐			26.67		P	12.5
5	☐			40.00		P	28.9
6	☐			54.44		P	34.8
7	☐			55.56		P	34.1
8	☐			85.56		P	21.5

172 Yb [No Gas] No available calibration points

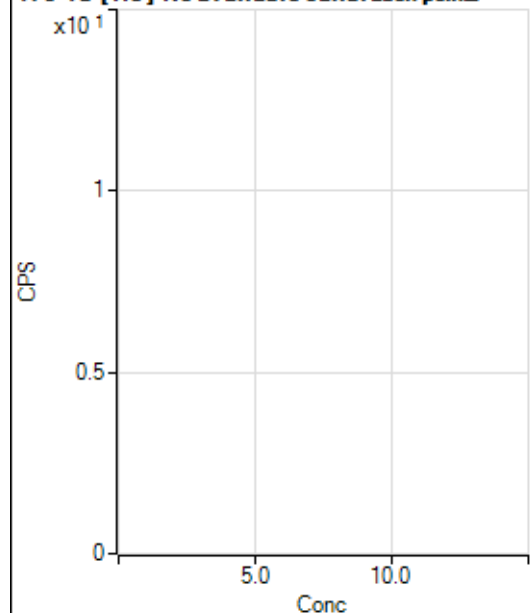
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.67		P	52.9
2	☐			52.78		P	39.7
3	☐			58.34		P	14.3
4	☐			83.34		P	20.0
5	☐			80.56		P	11.9
6	☐			141.67		P	10.2
7	☐			186.12		P	9.3
8	☐			111.11		P	11.5

172 Yb [He] No available calibration points

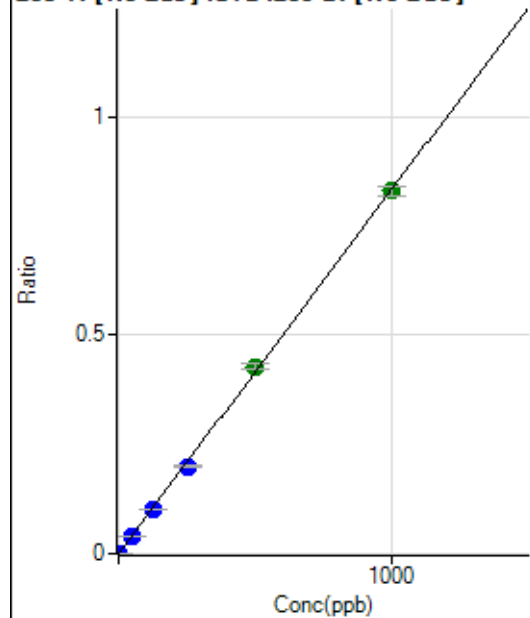
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18.52		P	45.8
2	☐			35.18		P	9.1
3	☐			22.22		P	75.0
4	☐			42.60		P	7.5
5	☐			48.15		P	17.6
6	☐			50.00		P	22.2
7	☐			79.63		P	10.7
8	☐			59.26		P	35.5

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1691.82		P	10.7
2	☐			1727.94		P	3.9
3	☐			2536.43		P	5.7
4	☐			3670.05		P	3.9
5	☐			5643.05		P	5.2
6	☐			9375.80		P	1.1
7	☐			17648.36		P	2.3
8	☐			1783.51		P	11.9

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8778.98		P	2.7
2	☐			7774.63		P	6.2
3	☐			8467.67		P	0.5
4	☐			9440.57		P	0.5
5	☐			10250.43		P	2.2
6	☐			12153.91		P	1.7
7	☐			16521.65		P	0.9
8	☐			8495.47		P	5.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	94.45	0.0000	P	6.8
2	☐	1.000	0.897	3678.40	0.0008	P	8.0
3	☐	50.000	46.982	187669.29	0.0392	P	0.8
4	☐	125.000	119.769	473937.19	0.0998	P	1.3
5	☐	250.000	238.790	962555.17	0.1990	P	1.6
6	☐	500.000	513.035	2016887.83	0.4276	A	3.1
7	☐	1000.000	997.090	3953936.89	0.8311	A	2.8
8	☐			1522.61	0.0003	P	53.8

$$y = 8.3349E-004 * x + 1.9516E-005$$

$$R = 0.9998$$

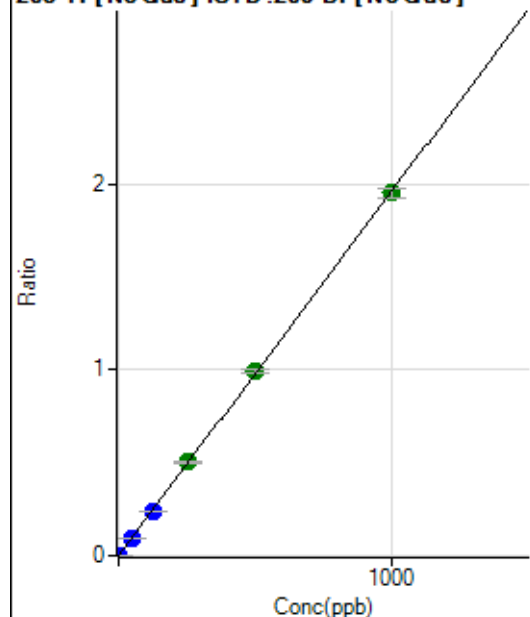
$$DL = 0.00475$$

$$BEC = 0.02341$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	147.23	0.0000	P	14.9
2	☐	1.000	0.972	9278.57	0.0019	P	4.6
3	☐	50.000	48.100	451744.17	0.0943	P	2.3
4	☐	125.000	122.240	1137415.43	0.2396	P	1.1
5	☐	250.000	256.201	2428572.04	0.5022	A	1.8
6	☐	500.000	505.239	4671723.06	0.9904	A	2.5
7	☐	1000.000	996.270	9290899.08	1.9529	A	2.8
8	☐			3904.93	0.0009	P	58.6

$$y = 0.0020 * x + 3.0419E-005$$

$$R = 0.9999$$

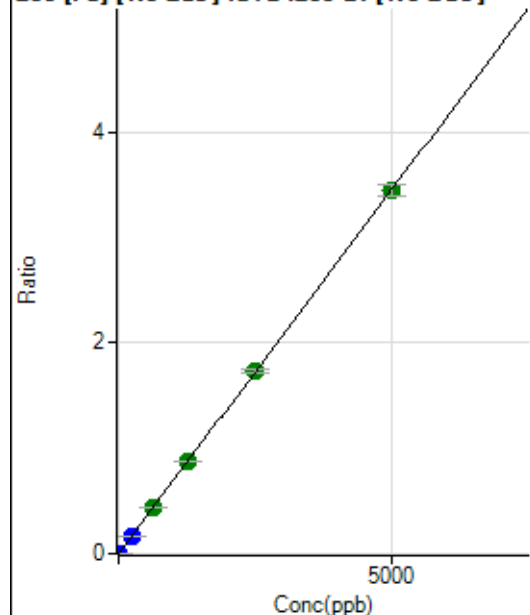
$$DL = 0.006956$$

$$BEC = 0.01552$$

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	435.20	0.0001	P	4.5
2	☐	1.000	0.896	3393.11	0.0007	P	4.9
3	☐	250.000	230.821	763252.67	0.1594	P	2.4
4	☐	625.000	635.514	2081701.48	0.4386	A	1.6
5	☐	1250.000	1268.700	4234105.59	0.8755	A	0.9
6	☐	2500.000	2512.712	8177988.44	1.7338	A	2.8
7	☐	5000.000	4988.614	16376153.03	3.4422	A	3.2
8	☐			10450.76	0.0023	P	28.1

$$y = 6.8999E-004 * x + 8.9900E-005$$

$$R = 1.0000$$

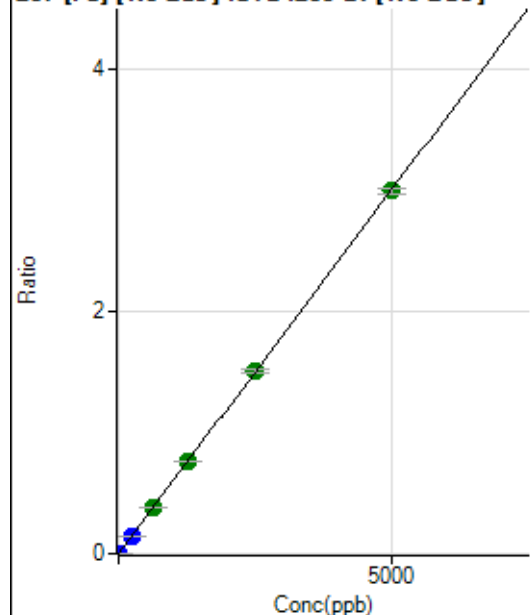
$$DL = 0.01755$$

$$BEC = 0.1303$$

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	348.16	0.0001	P	13.3
2	☐	1.000	0.882	2887.41	0.0006	P	0.6
3	☐	250.000	232.682	670716.59	0.1400	P	2.1
4	☐	625.000	636.016	1816498.39	0.3826	A	1.3
5	☐	1250.000	1261.638	3671024.45	0.7590	A	0.4
6	☐	2500.000	2517.181	7142063.64	1.5142	A	2.6
7	☐	5000.000	4987.989	14275383.77	3.0004	A	1.8
8	☐			8642.83	0.0019	P	30.7

$$y = 6.0150\text{E-}004 * x + 7.1915\text{E-}005$$

$$R = 1.0000$$

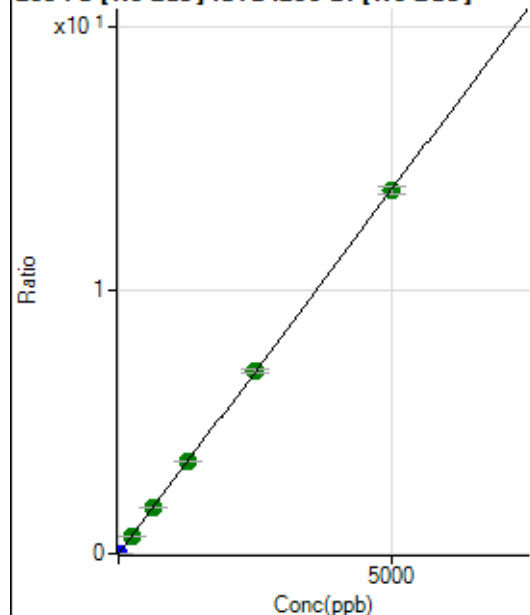
$$DL = 0.04784$$

$$BEC = 0.1196$$

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	1659.34	0.0003	P	4.9
2	☐	1.000	0.882	13308.47	0.0028	P	1.2
3	☐	250.000	240.199	3176117.30	0.6631	A	2.5
4	☐	625.000	631.658	8275006.66	1.7433	A	0.2
5	☐	1250.000	1261.294	16834435.33	3.4806	A	0.6
6	☐	2500.000	2521.510	32823200.74	6.9580	A	2.2
7	☐	5000.000	4986.079	65459627.62	13.7585	A	2.1
8	☐			40861.12	0.0090	P	31.3

$$y = 0.0028 * x + 3.4244\text{E-}004$$

$$R = 1.0000$$

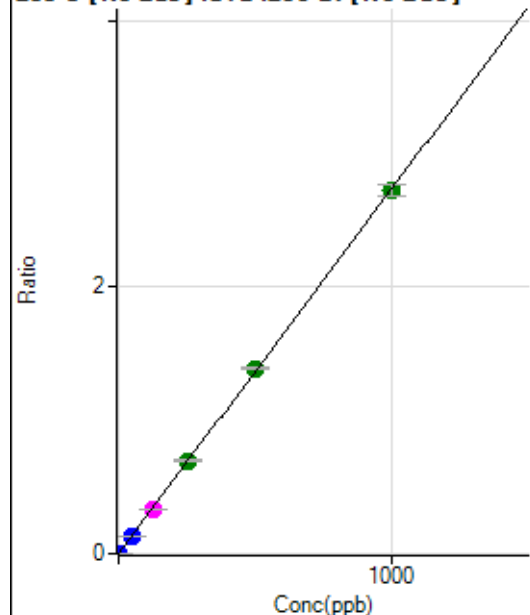
$$DL = 0.01807$$

$$BEC = 0.1241$$

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	41.67	0.0000	P	126.
2	☐	1.000	0.916	12056.05	0.0025	P	1.6
3	☐	50.000	46.699	612009.29	0.1278	P	1.8
4	☐	125.000	122.118	1586284.95	0.3341	M	2.4
5	☐	250.000	253.397	3352970.19	0.6933	A	2.2
6	☐	500.000	508.868	6568823.67	1.3922	A	1.2
7	☐	1000.000	995.242	12953918.78	2.7229	A	3.2
8	☐			4453.94	0.0010	P	60.2

$$y = 0.0027 * x + 8.6874E-006$$

$$R = 0.9999$$

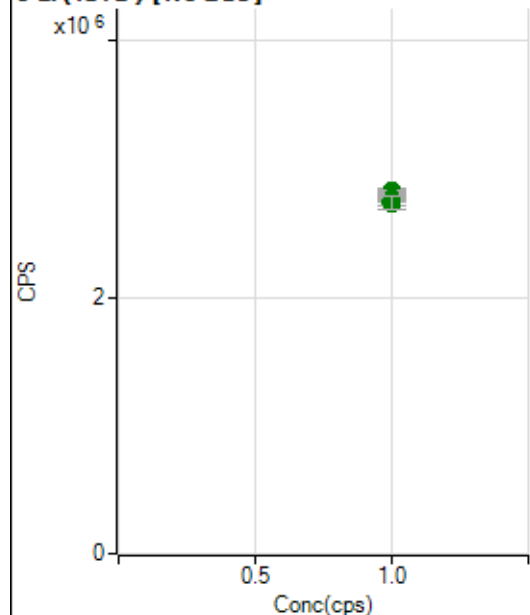
$$DL = 0.01203$$

$$BEC = 0.003175$$

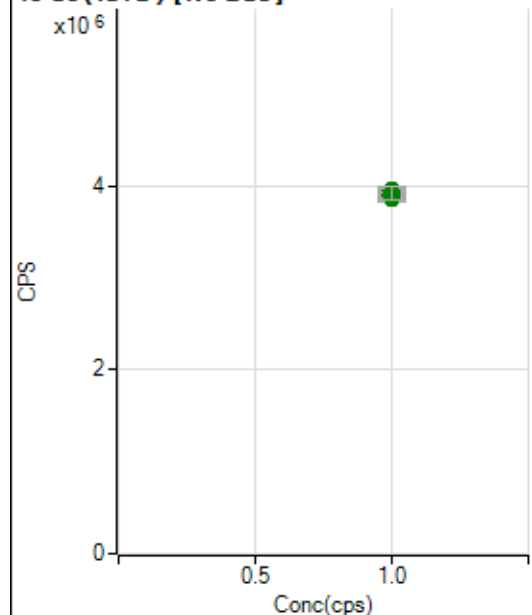
Weight: <None>

Min Conc: 0

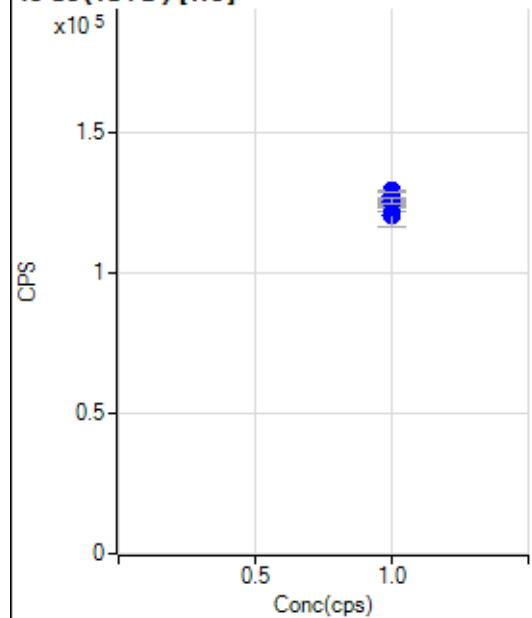
6 Li (ISTD) [No Gas]



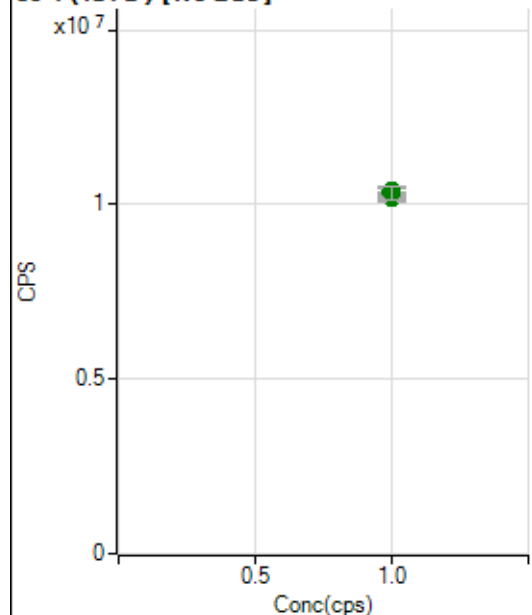
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2784334.31		A	1.7
2	☐	1.000		2827633.14		A	1.6
3	☐	1.000		2831354.42		A	0.7
4	☐	1.000		2781969.39		A	1.4
5	☐	1.000		2753639.13		A	0.7
6	☐	1.000		2736340.44		A	1.3
7	☐	1.000		2761909.37		A	0.9
8	☐	1.000		2741181.58		A	3.7

45 Sc (ISTD) [No Gas]

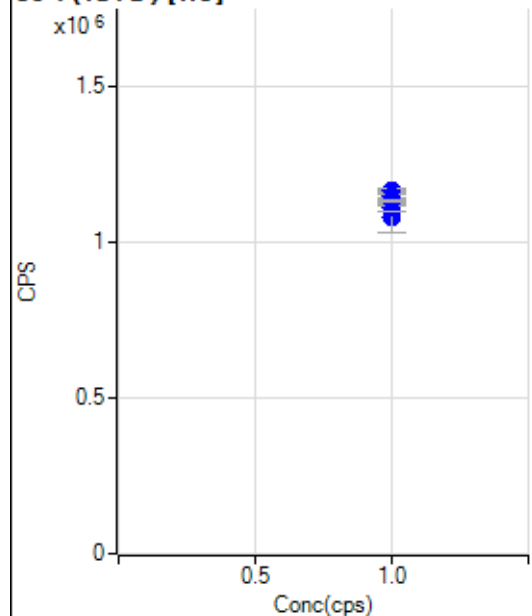
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3911698.48		A	1.9
2	☐	1.000		3934387.93		A	0.8
3	☐	1.000		3950153.55		A	1.2
4	☐	1.000		3919642.13		A	1.0
5	☐	1.000		3894155.05		A	1.6
6	☐	1.000		3882094.59		A	2.2
7	☐	1.000		3901616.89		A	1.8
8	☐	1.000		3919155.60		A	3.6

45 Sc (ISTD) [He]

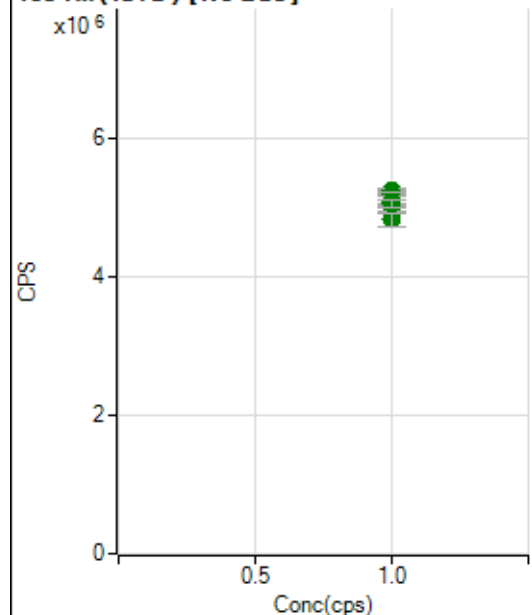
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		129145.20		P	0.8
2	☐	1.000		120801.44		P	7.4
3	☐	1.000		123582.37		P	2.9
4	☐	1.000		127575.16		P	1.7
5	☐	1.000		125033.74		P	0.4
6	☐	1.000		123397.49		P	0.8
7	☐	1.000		125588.43		P	1.0
8	☐	1.000		125551.61		P	1.4

89 Y (ISTD) [No Gas]

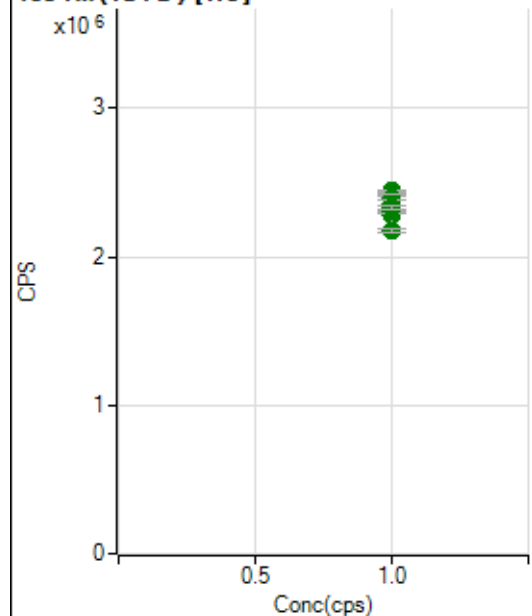
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10216261.31		A	1.6
2	☐	1.000		10393565.75		A	1.1
3	☐	1.000		10244605.13		A	1.3
4	☐	1.000		10217368.87		A	1.0
5	☐	1.000		10231250.13		A	1.8
6	☐	1.000		10173937.76		A	1.3
7	☐	1.000		10275782.90		A	1.2
8	☐	1.000		10343895.68		A	3.8

89 Y (ISTD) [He]

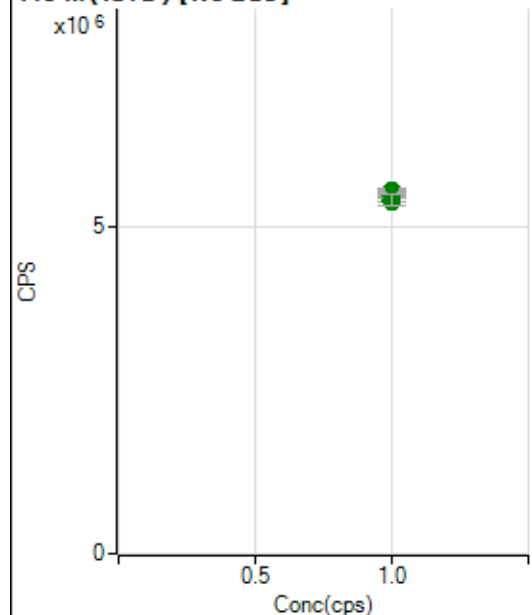
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1159694.16		P	0.7
2	☐	1.000		1078900.63		P	9.3
3	☐	1.000		1110371.99		P	2.5
4	☐	1.000		1163507.67		P	1.0
5	☐	1.000		1135777.01		P	0.4
6	☐	1.000		1125698.61		P	1.3
7	☐	1.000		1146902.34		P	0.9
8	☐	1.000		1134467.43		P	0.5

103 Rh (ISTD) [No Gas]

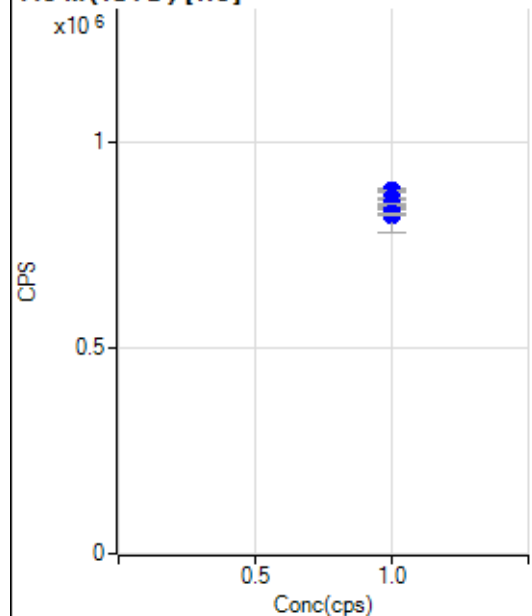
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5149344.30		A	2.0
2	☐	1.000		5232612.40		A	0.2
3	☐	1.000		5235949.90		A	1.1
4	☐	1.000		5187421.12		A	1.1
5	☐	1.000		5069368.21		A	1.0
6	☐	1.000		4989842.69		A	1.7
7	☐	1.000		5040750.63		A	2.1
8	☐	1.000		4818508.49		A	4.2

103 Rh (ISTD) [He]

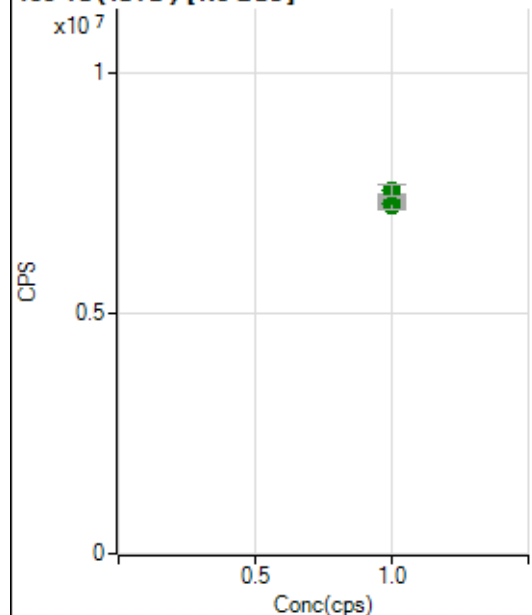
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2444255.07		A	0.8
2	☐	1.000		2284805.04		A	10.5
3	☐	1.000		2340255.31		A	3.3
4	☐	1.000		2399401.18		A	1.5
5	☐	1.000		2360697.03		A	1.4
6	☐	1.000		2307319.32		A	1.5
7	☐	1.000		2329544.31		A	1.1
8	☐	1.000		2173924.24		A	1.0

115 In (ISTD) [No Gas]

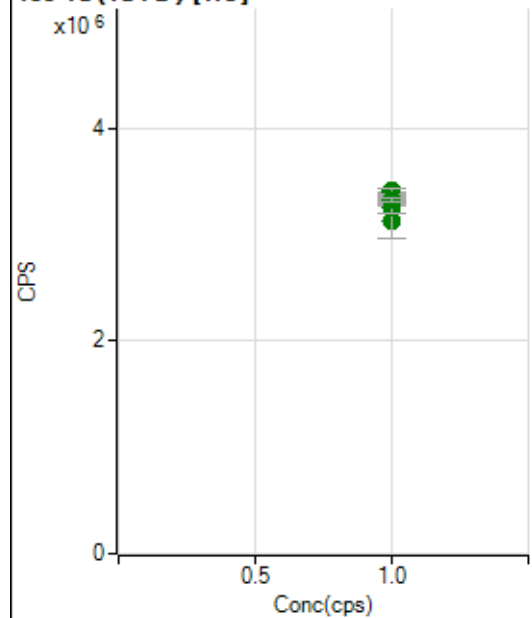
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5532904.60		A	0.1
2	☐	1.000		5501614.07		A	2.4
3	☐	1.000		5497010.28		A	1.2
4	☐	1.000		5469111.85		A	1.7
5	☐	1.000		5403662.44		A	0.8
6	☐	1.000		5366703.83		A	1.8
7	☐	1.000		5362959.06		A	2.2
8	☐	1.000		5398833.47		A	3.1

115 In (ISTD) [He]

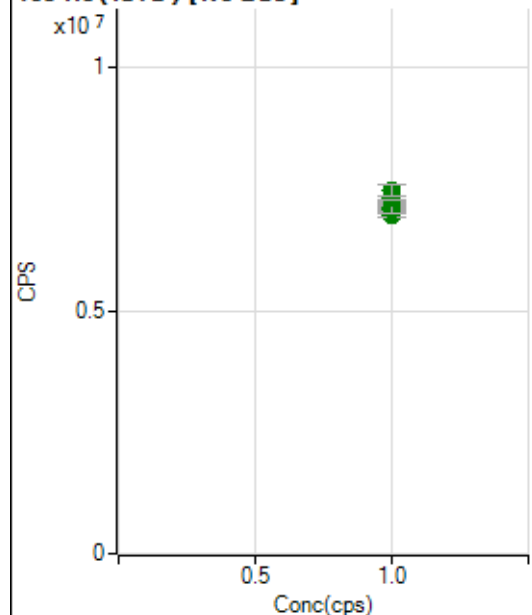
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		880473.91		P	0.9
2	☐	1.000		819077.52		P	10.2
3	☐	1.000		846655.72		P	2.6
4	☐	1.000		880358.86		P	0.7
5	☐	1.000		862285.39		P	0.3
6	☐	1.000		844640.38		P	0.9
7	☐	1.000		847030.43		P	0.5
8	☐	1.000		825543.39		P	0.5

159 Tb (ISTD) [No Gas]

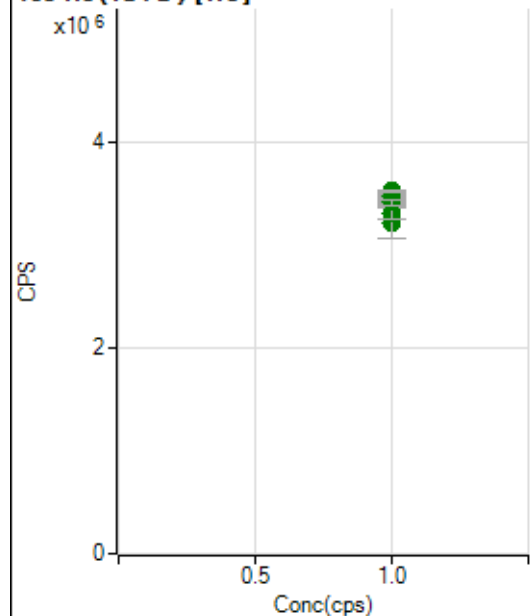
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7250158.02		A	1.4
2	☐	1.000		7347728.85		A	0.3
3	☐	1.000		7314280.52		A	0.1
4	☐	1.000		7257507.67		A	0.1
5	☐	1.000		7366223.92		A	2.0
6	☐	1.000		7268786.00		A	2.7
7	☐	1.000		7445348.02		A	1.3
8	☐	1.000		7554033.99		A	3.2

159 Tb (ISTD) [He]

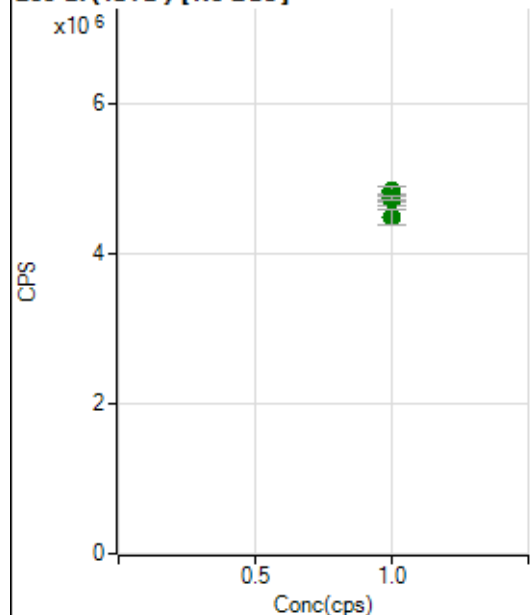
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3388782.48		A	0.5
2	☐	1.000		3122815.75		A	9.5
3	☐	1.000		3249485.13		A	2.9
4	☐	1.000		3400984.64		A	1.8
5	☐	1.000		3335910.33		A	1.4
6	☐	1.000		3355332.90		A	1.7
7	☐	1.000		3412688.04		A	1.7
8	☐	1.000		3327941.72		A	1.4

165 Ho (ISTD) [No Gas]

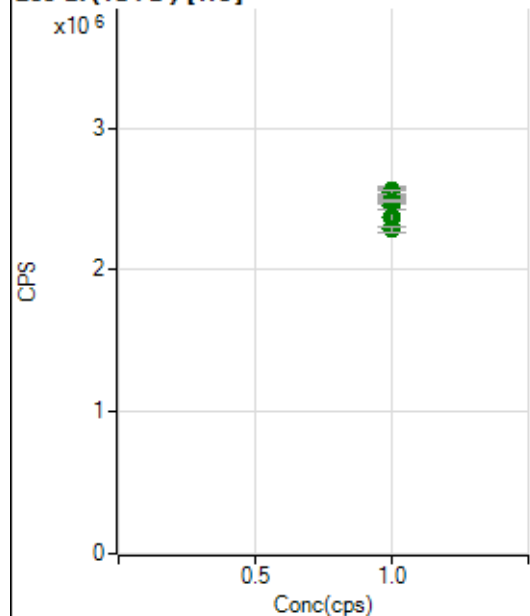
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7111898.42		A	1.0
2	☐	1.000		6975534.44		A	1.5
3	☐	1.000		7087208.66		A	0.7
4	☐	1.000		7071948.42		A	1.2
5	☐	1.000		7243963.62		A	0.9
6	☐	1.000		7136184.36		A	3.3
7	☐	1.000		7318425.17		A	1.2
8	☐	1.000		7460408.41		A	3.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3390402.24		A	1.0
2	☐	1.000		3214835.72		A	9.3
3	☐	1.000		3309250.30		A	3.4
4	☐	1.000		3449652.93		A	1.7
5	☐	1.000		3436765.95		A	1.8
6	☐	1.000		3475193.01		A	1.0
7	☐	1.000		3521390.57		A	0.6
8	☐	1.000		3415425.06		A	1.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4843187.05		A	2.0
2	☐	1.000		4792260.35		A	0.4
3	☐	1.000		4790305.90		A	0.9
4	☐	1.000		4746812.57		A	1.7
5	☐	1.000		4836945.80		A	2.3
6	☐	1.000		4719228.61		A	2.9
7	☐	1.000		4758454.62		A	1.1
8	☐	1.000		4502602.68		A	4.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2534323.73		A	3.4
2	☐	1.000		2369942.33		A	9.0
3	☐	1.000		2453073.03		A	1.8
4	☐	1.000		2557322.18		A	2.6
5	☐	1.000		2546956.18		A	1.0
6	☐	1.000		2485912.20		A	1.5
7	☐	1.000		2482770.50		A	0.6
8	☐	1.000		2286708.72		A	1.8

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8061323-MS.b

Acq. Date-Time 2023-06-13 10:17:20

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		12188	121884.12			3.391	5.000
24		86492	864924.22			2.650	5.000
25		11682	116816.80			3.644	5.000
26		13330	133297.74			3.229	5.000
59		64390	643904.89			4.669	5.000
113		7205	72048.81			3.308	5.000
115		91246	912457.36			3.260	5.000
206		23242	232416.52			3.146	5.000
207		21050	210503.49			2.584	5.000
208		50581	505811.44			3.141	5.000
220		0	2.90			50.855	

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

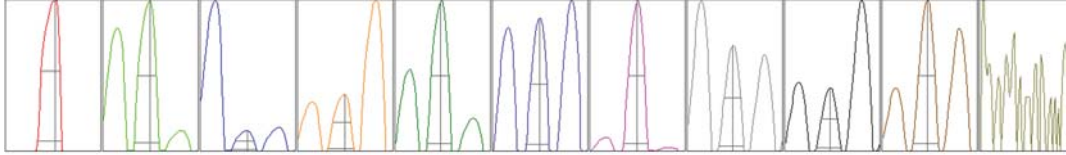
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	12185	12275	12669	11529	12284
24	87367	86217	89192	82915	86771
25	11664	11656	12281	11080	11728
26	13412	13302	13895	12687	13353
59	64349	63978	68872	60402	64352
113	7222	7138	7521	6863	7281
115	92157	91467	94895	86645	91065
206	23267	23065	24247	22210	23420
207	21192	20933	21761	20250	21116
208	50969	50129	52812	48398	50597

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	21456.26	9.10	8.90 - 9.10	
24	155233.41	24.00	23.90 - 24.10	
25	20730.92	25.00	24.90 - 25.10	
26	24186.71	26.00	25.90 - 26.10	
59	121710.97	58.95	58.90 - 59.10	
113	14446.54	113.00	112.90 - 113.10	
115	183890.09	115.00	114.90 - 115.10	
206	45774.22	205.95	205.90 - 206.10	
207	41890.04	206.95	206.90 - 207.10	
208	99475.96	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.763	0.900	
24	0.59	0.782	0.900	
25	0.59	0.782	0.900	
26	0.58	0.816	0.900	
59	0.55	0.774	0.900	
113	0.52	0.721	0.900	
115	0.51	0.764	0.900	
206	0.52	0.783	0.900	
207	0.51	0.776	0.900	
208	0.51	0.805	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.84 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	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.0 V	Deflect	15.6 V
Extract 2	-195.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.1 mm	Torch V	-1.0 mm
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EM

Discriminator	4.5 mV	Analog HV	2319 V	Pulse HV	1684 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		13351	133506.44			2.194	
89		11074	110739.68			1.573	
205		17192	171916.98			1.924	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	13605	13591	13402	12892	13263
89	11237	11227	11108	10831	10968
205	17476	17546	17230	16837	16870

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.84 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.0 V	Deflect	4.4 V
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US EPA Tune Check Report

Extract 2	-195.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.1 mm	Torch V	-1.0 mm
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EM

Discriminator	4.5 mV	Analog HV	2319 V	Pulse HV	1684 V
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