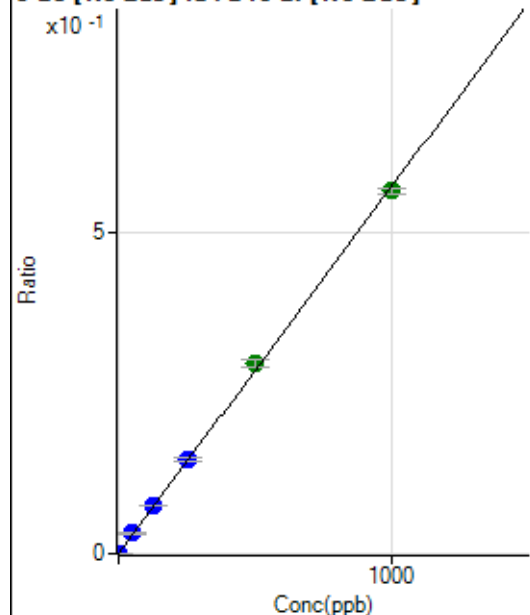


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8020923 MS.b\
Analysis File: P8020923 MS.batch.bin
DA Date-Time: 2023-02-09 16:38:13
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-02-09 08:53:38
2	005CALS.d	S02	2023-02-09 08:56:47
3	006CALS.d	S03	2023-02-09 08:59:59
4	007CALS.d	S04	2023-02-09 09:03:06
5	008CALS.d	S05	2023-02-09 09:06:14
6	009CALS.d	S06	2023-02-09 09:09:20
7	010CALS.d	S07	2023-02-09 09:12:29
8	011CALS.d	S08	2023-02-09 09:15:35

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	67.49	0.0000	P	11.1
2	☐	1.000	1.061	2494.49	0.0006	P	1.3
3	☐	50.000	55.126	120395.55	0.0314	P	5.6
4	☐	125.000	130.319	290831.17	0.0743	P	2.1
5	☐	250.000	256.964	567234.92	0.1464	P	3.1
6	☐	500.000	517.414	1099481.42	0.2948	A	3.8
7	☐	1000.000	988.631	2103786.98	0.5633	A	1.5
8	☐			947.01	0.0003	P	23.5

$$y = 5.6972\text{E-}004 * x + 1.7292\text{E-}005$$

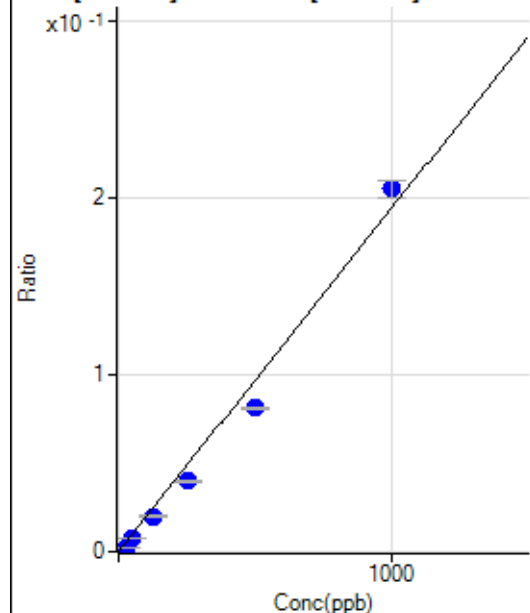
$$R = 0.9997$$

$$DL = 0.01011$$

$$BEC = 0.03035$$

Weight: <None>

Min Conc: 0

10 B [No Gas] ISTD:6 Li [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	231.29	0.0001	P	5.7
2	☐	25.000	8.421	6808.92	0.0017	P	7.2
3	☐	50.000	40.432	30386.00	0.0079	P	0.4
4	☐	125.000	101.301	77321.01	0.0197	P	5.4
5	☐	250.000	204.214	154077.05	0.0397	P	1.9
6	☐	500.000	417.571	303150.87	0.0812	P	1.3
7	☐	1000.000	1056.516	767320.50	0.2054	P	4.6
8	☐			59742.51	0.0162	P	10.8

$$y = 1.9435\text{E-}004 * x + 5.9277\text{E-}005$$

$$R = 0.9945$$

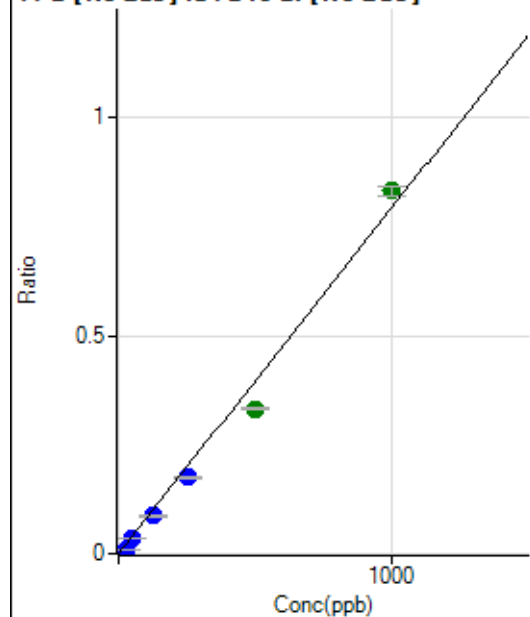
$$DL = 0.05257$$

$$BEC = 0.305$$

Weight: <None>

Min Conc: 0

11 B [No Gas] ISTD:6 Li [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	998.51	0.0003	P	4.1
2	☐	25.000	9.100	29951.14	0.0075	P	2.9
3	☐	50.000	44.386	135867.88	0.0354	P	0.8
4	☐	125.000	109.638	340941.95	0.0871	P	6.5
5	☐	250.000	220.905	679191.27	0.1752	P	1.2
6	☐	500.000	419.926	1242168.17	0.3329	A	1.1
7	☐	1000.000	1049.909	3107333.29	0.8319	A	2.5
8	☐			261549.80	0.0708	P	9.6

$$y = 7.9209\text{E-}004 * x + 2.5587\text{E-}004$$

$$R = 0.9953$$

$$DL = 0.03973$$

$$BEC = 0.323$$

Weight: <None>

Min Conc: 0

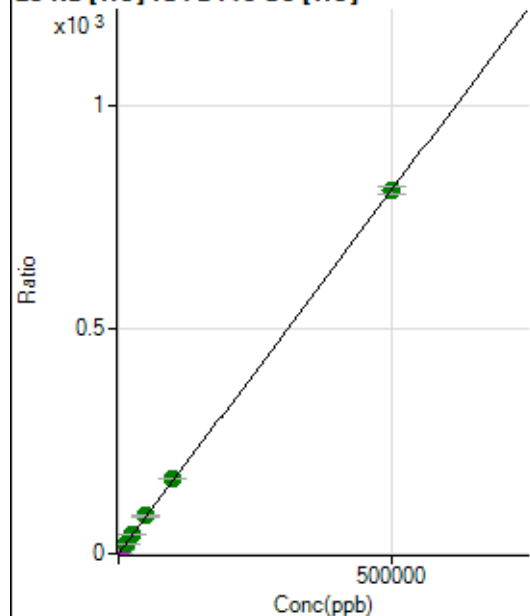
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			5023147.55		A	0.5
2	☐			4909153.80		A	1.9
3	☐			5105526.11		A	1.0
4	☐			5041563.53		A	2.2
5	☐			5206431.76		A	0.7
6	☐			5445834.49		A	1.7
7	☐			5574895.65		A	0.9
8	☐			4999897.07		A	0.3

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			49606.84		P	2.4
2	☐			48901.45		P	2.0
3	☐			50721.22		P	2.0
4	☐			51251.21		P	1.0
5	☐			52725.98		P	1.5
6	☐			56057.47		P	1.3
7	☐			57579.97		P	0.5
8	☐			55101.14		P	0.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11357.46	0.0934	P	2.2
2	☐	500.000	480.034	105803.28	0.8709	P	0.3
3	☐	5000.000	5167.886	1020085.89	8.4639	M	2.8
4	☐	12500.000	12652.617	2456220.09	20.5871	A	2.3
5	☐	25000.000	25695.533	4897085.61	41.7130	A	1.8
6	☐	50000.000	52091.363	9704940.41	84.4668	A	2.3
7	☐	100000.00	102467.54	19345091.06	166.0620	A	0.6
8	☐	500000.00	499257.10	92820586.80	808.7493	A	2.1

$$y = 0.0016 * x + 0.0934$$

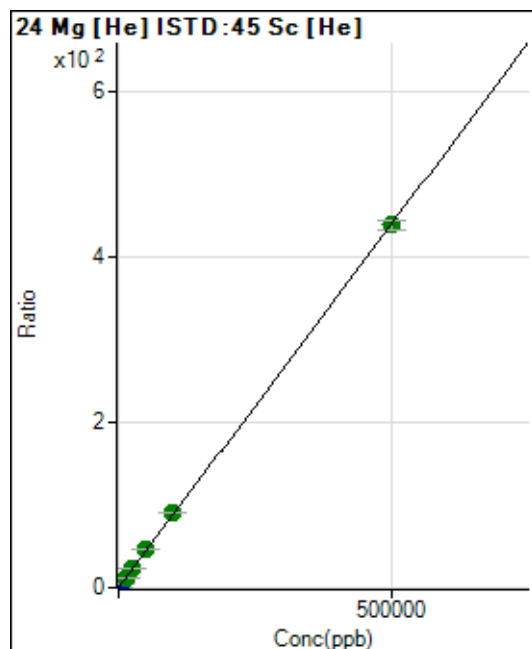
$$R = 1.0000$$

$$DL = 3.826$$

$$BEC = 57.68$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	269.45	0.0022	P	18.0
2	☐	500.000	488.386	52484.29	0.4321	P	1.1
3	☐	5000.000	5211.486	553140.98	4.5894	P	2.8
4	☐	12500.000	12819.098	1346586.93	11.2857	A	1.6
5	☐	25000.000	26174.431	2705250.47	23.0413	A	3.1
6	☐	50000.000	53074.928	5368219.65	46.7194	A	2.1
7	☐	100000.00	103161.19	10577823.94	90.8060	A	0.8
8	☐	500000.00	498991.46	50408905.99	439.2206	A	2.3

$$y = 8.8021\text{E-}004 * x + 0.0022$$

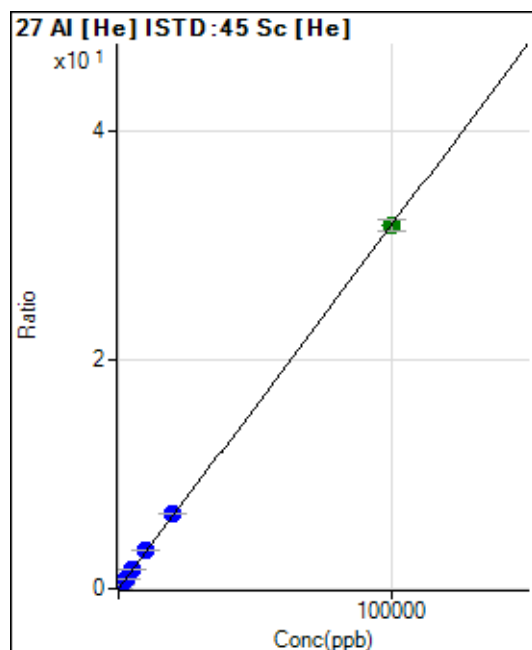
$$R = 1.0000$$

$$DL = 1.36$$

$$BEC = 2.518$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	70.41	0.0006	P	11.0
2	☐	20.000	18.939	800.34	0.0066	P	4.1
3	☐	1000.000	1027.921	39370.04	0.3266	P	2.8
4	☐	2500.000	2516.496	95327.08	0.7988	P	0.6
5	☐	5000.000	5139.507	191474.61	1.6309	P	2.2
6	☐	10000.000	10548.585	384540.64	3.3467	P	2.0
7	☐	20000.000	20649.758	763105.18	6.5508	P	1.4
8	☐	100000.00	99807.523	3634111.83	31.6602	A	3.1

$$y = 3.1721\text{E-}004 * x + 5.7942\text{E-}004$$

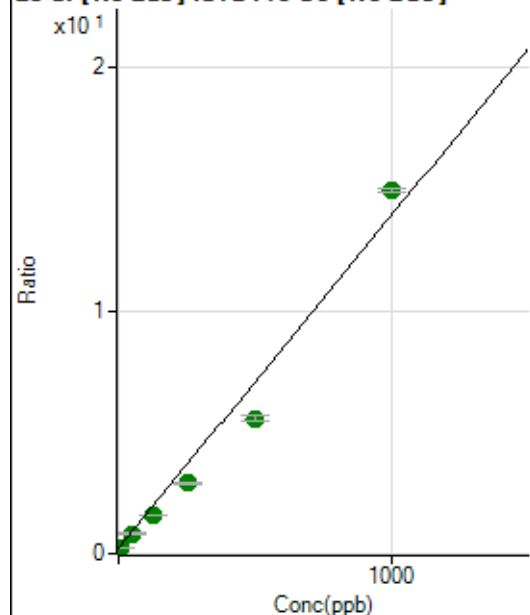
$$R = 1.0000$$

$$DL = 0.603$$

$$BEC = 1.827$$

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	923351.50	0.2335	A	2.2
2	☐	10.000	1.163	979920.44	0.2494	A	0.7
3	☐	50.000	41.905	3139211.10	0.8071	A	6.7
4	☐	125.000	97.723	6284759.95	1.5712	A	0.3
5	☐	250.000	194.668	11252848.34	2.8982	A	3.7
6	☐	500.000	389.261	20930703.42	5.5620	A	4.0
7	☐	1000.000	1073.105	57323910.31	14.9230	A	1.0
8	☐			1041878.76	0.2728	A	1.3

$$y = 0.0137 * x + 0.2335$$

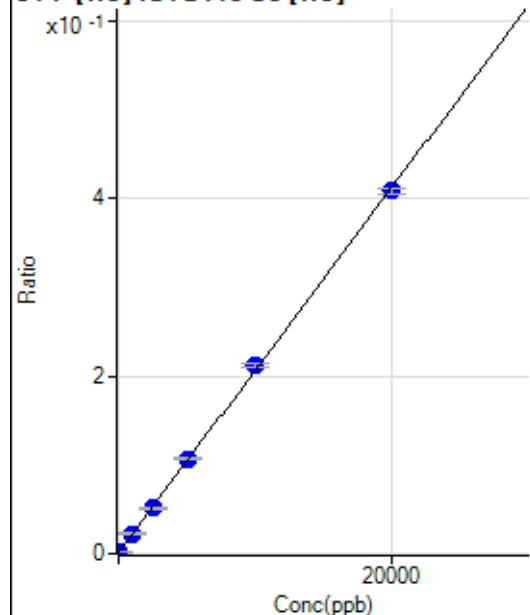
$$R = 0.9904$$

$$DL = 1.133$$

$$BEC = 17.05$$

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	-12.238	113.89	0.0009	P	22.8
2	☐	0.000	12.238	175.01	0.0014	P	12.4
3	☐	1000.000	1035.469	2708.67	0.0225	P	6.7
4	☐	2500.000	2427.786	6098.67	0.0511	P	4.5
5	☐	5000.000	5148.680	12564.09	0.1070	P	1.3
6	☐	10000.000	10262.591	24373.95	0.2121	P	1.5
7	☐	20000.000	19838.787	47640.10	0.4090	P	1.9
8	☐			136.11	0.0012	P	19.1

$$y = 2.0554E-005 * x + 0.0012$$

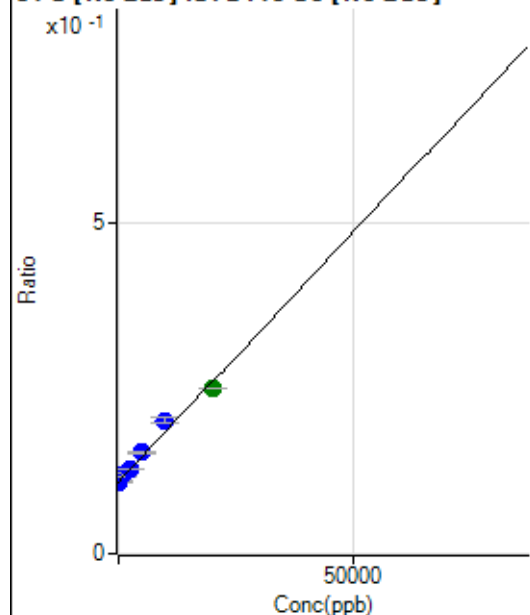
$$R = 0.9998$$

$$DL = 28.68$$

$$BEC = 57.85$$

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	-129.660	427268.72	0.1080	P	1.6
2	☐	0.000	129.660	432173.72	0.1100	P	0.7
3	☐	1000.000	1440.433	466620.89	0.1199	P	5.5
4	☐	2500.000	2567.343	513831.00	0.1285	P	0.8
5	☐	5000.000	5810.653	594357.45	0.1530	P	2.1
6	☐	10000.000	12296.618	760952.90	0.2022	P	3.5
7	☐	20000.000	18618.588	960753.25	0.2501	A	0.3
8	☐			382753.64	0.1002	P	1.0

$$y = 7.5787\text{E-}006 * x + 0.1090$$

$$R = 0.9886$$

$$DL = 495$$

$$BEC = 1.438\text{E}+04$$

Weight: <None>

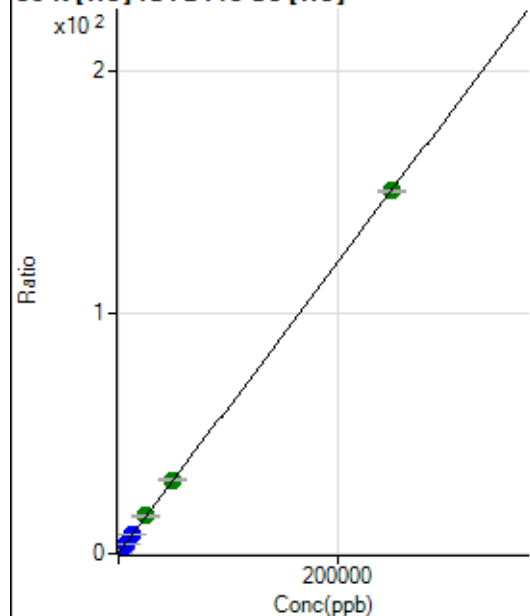
Min Conc: 0

35 Cl [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			185861.87		P	0.9
2	☐			183449.63		P	1.0
3	☐			186078.69		P	0.5
4	☐			181674.09		P	0.4
5	☐			181738.61		P	0.2
6	☐			181676.60		P	0.8
7	☐			186368.79		P	0.5
8	☐			178198.09		P	0.4

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1225.09		P	9.9
2	☐			1138.97		P	8.5
3	☐			1244.53		P	3.7
4	☐			1108.41		P	5.3
5	☐			1113.96		P	13.8
6	☐			1177.86		P	2.9
7	☐			1172.30		P	6.6
8	☐			1061.17		P	6.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22017.27	0.1811	P	2.2
2	☐	500.000	491.799	57992.20	0.4774	P	1.6
3	☐	2500.000	2548.076	206879.55	1.7160	P	0.9
4	☐	6250.000	6170.016	465185.39	3.8977	P	1.2
5	☐	12500.000	12552.790	909029.59	7.7425	P	1.7
6	☐	25000.000	25899.431	1813225.41	15.7820	A	3.0
7	☐	50000.000	50708.632	3579603.07	30.7261	A	1.4
8	☐	250000.00	249767.22	17289870.00	150.6316	A	0.8

$$y = 6.0236E-004 * x + 0.1811$$

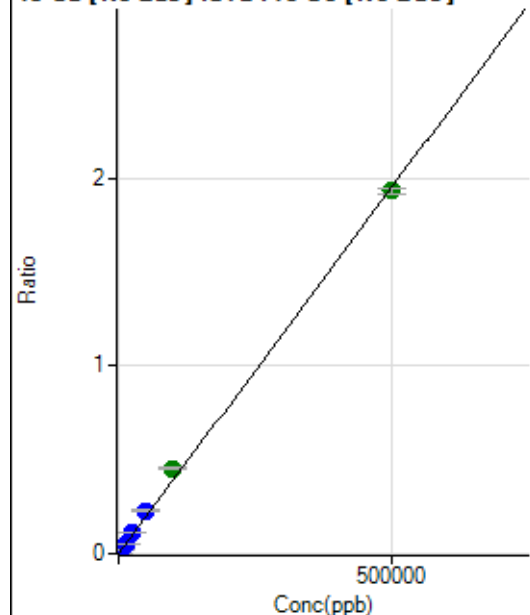
$$R = 1.0000$$

$$DL = 20.12$$

$$BEC = 300.7$$

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	144.56	0.0000	P	7.8
2	☐	500.000	517.919	8081.27	0.0021	P	4.1
3	☐	5000.000	5856.564	89033.88	0.0229	P	5.6
4	☐	12500.000	14040.835	219243.85	0.0548	P	1.2
5	☐	25000.000	28479.698	431629.03	0.1111	P	1.6
6	☐	50000.000	58211.620	854676.99	0.2271	P	3.9
7	☐	100000.00	116779.80	1750096.31	0.4556	A	1.0
8	☐	500000.00	495601.78	7383683.46	1.9333	A	1.9

$$y = 3.9009\text{E-}006 * x + 3.6568\text{E-}005$$

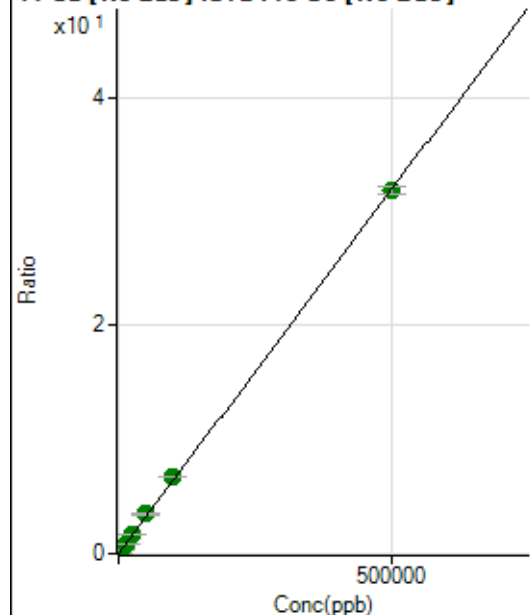
$$R = 0.9993$$

$$\text{DL} = 2.183$$

$$\text{BEC} = 9.374$$

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	11002.84	0.0028	P	1.8
2	☐	500.000	508.352	138361.46	0.0352	P	2.6
3	☐	5000.000	5623.268	1406461.69	0.3616	A	6.5
4	☐	12500.000	13384.199	3427280.32	0.8567	A	2.2
5	☐	25000.000	26730.756	6633981.96	1.7082	A	2.2
6	☐	50000.000	54376.064	13071020.73	3.4721	A	2.2
7	☐	100000.00	105517.35	25870840.15	6.7349	A	1.0
8	☐	500000.00	498344.03	121445240.3	31.7979	A	2.1

$$y = 6.3802\text{E-}005 * x + 0.0028$$

$$R = 0.9999$$

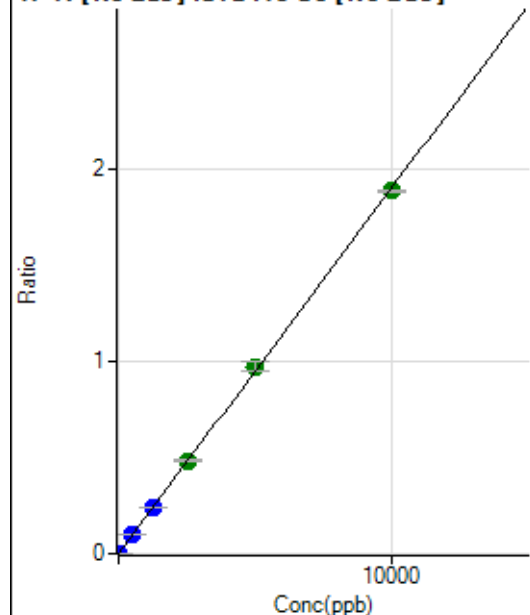
$$\text{DL} = 2.362$$

$$\text{BEC} = 43.6$$

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	194.45	0.0000	P	1.8
2	☐	5.000	4.655	3667.23	0.0009	P	6.9
3	☐	500.000	531.999	393337.03	0.1011	P	6.9
4	☐	1250.000	1259.786	957694.95	0.2394	P	1.0
5	☐	2500.000	2539.548	1873988.47	0.4826	A	2.6
6	☐	5000.000	5119.770	3660591.70	0.9728	A	4.9
7	☐	10000.000	9927.405	7246139.57	1.8863	A	0.8
8	☐			3244.97	0.0008	P	29.3

$$y = 1.9001\text{E-}004 * x + 4.9153\text{E-}005$$

$$R = 0.9999$$

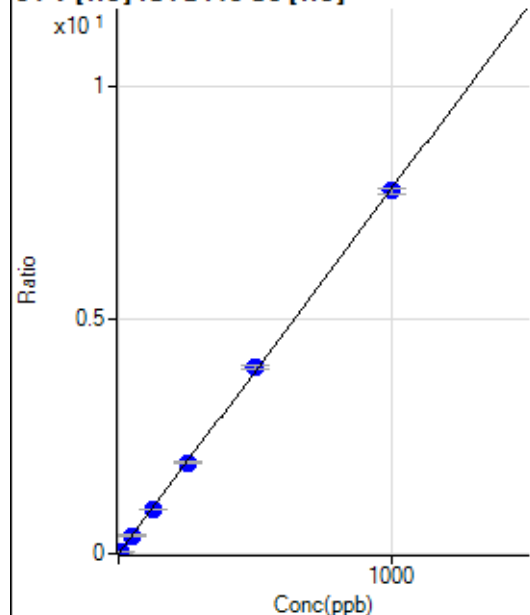
$$DL = 0.01358$$

$$BEC = 0.2587$$

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	12.22	0.0001	P	95.4
2	☐	5.000	4.727	4491.87	0.0369	P	9.3
3	☐	50.000	49.668	46682.73	0.3872	P	1.9
4	☐	125.000	120.541	112133.34	0.9396	P	0.3
5	☐	250.000	249.520	228352.07	1.9450	P	1.4
6	☐	500.000	512.444	458940.14	3.9943	P	1.9
7	☐	1000.000	994.474	903034.51	7.7514	P	1.3
8	☐			314.45	0.0027	P	15.6

$$y = 0.0078 * x + 1.0039\text{E-}004$$

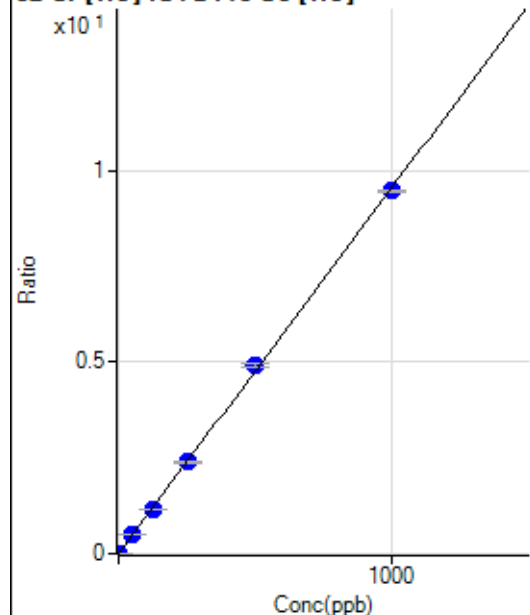
$$R = 0.9999$$

$$DL = 0.03687$$

$$BEC = 0.01288$$

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	370.01	0.0030	P	7.4
2	☐	2.000	1.980	2660.27	0.0219	P	5.5
3	☐	50.000	50.904	58813.73	0.4879	P	1.8
4	☐	125.000	121.759	138737.81	1.1627	P	0.9
5	☐	250.000	250.436	280412.86	2.3882	P	2.1
6	☐	500.000	514.857	563754.70	4.9067	P	2.6
7	☐	1000.000	992.823	1101856.63	9.4589	P	0.4
8	☐			10463.92	0.0912	P	1.4

$$y = 0.0095 * x + 0.0030$$

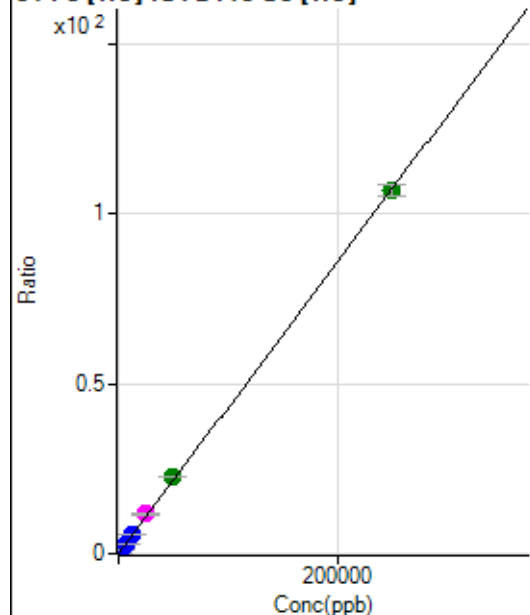
$$R = 0.9998$$

$$DL = 0.0707$$

$$BEC = 0.3195$$

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	487.05	0.0040	P	20.5
2	☐	50.000	51.729	3181.89	0.0262	P	5.4
3	☐	2500.000	2709.598	140496.61	1.1654	P	1.9
4	☐	6250.000	6520.283	333962.40	2.7987	P	0.6
5	☐	12500.000	13182.567	663869.63	5.6543	P	1.7
6	☐	25000.000	27416.014	1350448.11	11.7549	M	5.0
7	☐	50000.000	52876.937	2640579.25	22.6679	A	1.1
8	☐	250000.00	249140.02	12255122.61	106.7894	A	3.3

$$y = 4.2862E-004 * x + 0.0040$$

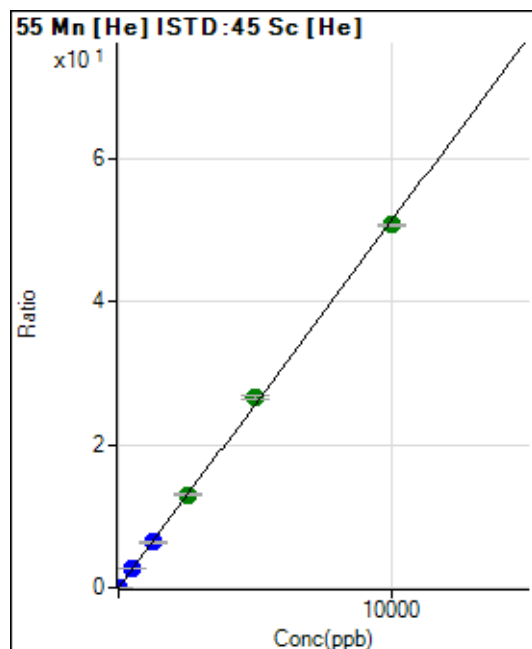
$$R = 0.9999$$

$$DL = 5.742$$

$$BEC = 9.353$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.00	0.0002	P	28.3
2	☐	1.000	0.979	630.02	0.0052	P	11.0
3	☐	500.000	504.932	312359.25	2.5911	P	2.0
4	☐	1250.000	1236.271	757049.59	6.3439	P	0.8
5	☐	2500.000	2538.201	1529194.89	13.0246	A	1.8
6	☐	5000.000	5200.072	3066254.78	26.6836	A	1.5
7	☐	10000.000	9891.883	5912722.41	50.7589	A	0.4
8	☐			6402.60	0.0558	P	3.9

$$y = 0.0051 * x + 1.6439E-004$$

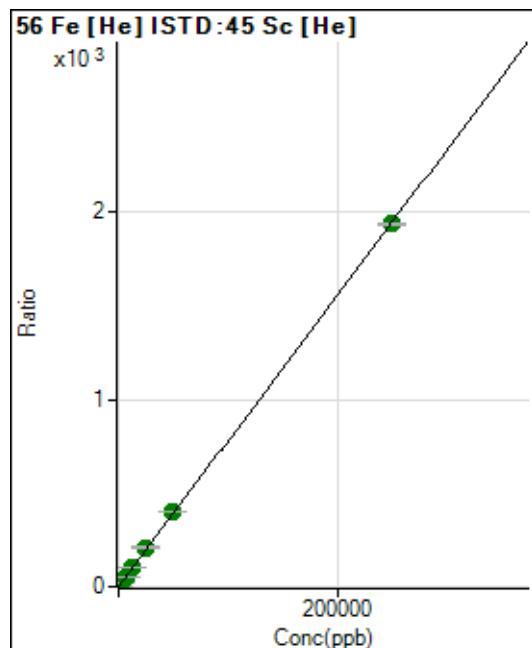
$$R = 0.9997$$

$$DL = 0.02721$$

$$BEC = 0.03204$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2342.82	0.0193	P	4.5
2	☐	50.000	49.408	49019.79	0.4035	P	1.0
3	☐	2500.000	2691.183	2525044.36	20.9464	A	3.9
4	☐	6250.000	6442.045	5980193.19	50.1138	A	0.2
5	☐	12500.000	13287.833	12134535.80	103.3480	A	2.4
6	☐	25000.000	26930.296	24061839.89	209.4344	A	3.4
7	☐	50000.000	51499.999	46653687.62	400.4931	A	0.4
8	☐	250000.00	249460.86	222672547.5	1939.874	A	0.7

$$y = 0.0078 * x + 0.0193$$

$$R = 1.0000$$

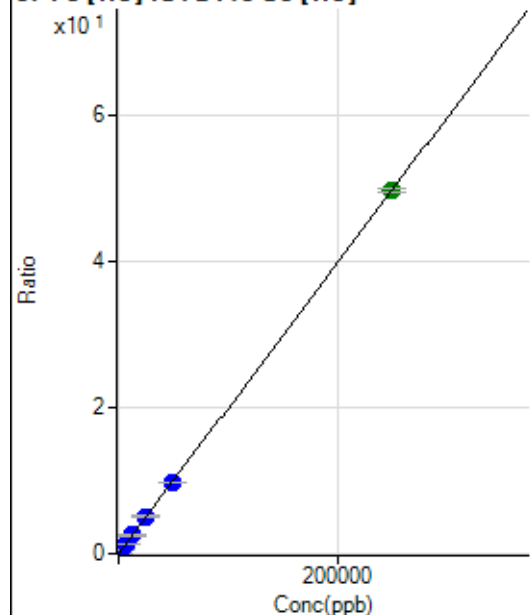
$$DL = 0.3321$$

$$BEC = 2.478$$

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	275.93	0.0023	P	14.3
2	☐	50.000	50.300	1488.99	0.0123	P	6.7
3	☐	2500.000	2567.511	61722.52	0.5120	P	1.1
4	☐	6250.000	6275.831	148943.22	1.2483	P	1.2
5	☐	12500.000	12702.686	296385.39	2.5243	P	2.1
6	☐	25000.000	25788.807	588557.39	5.1224	P	1.9
7	☐	50000.000	49402.213	1142861.59	9.8107	P	0.6
8	☐	250000.00	250029.22	5698492.60	49.6435	A	1.0

$$y = 1.9854E-004 * x + 0.0023$$

$$R = 1.0000$$

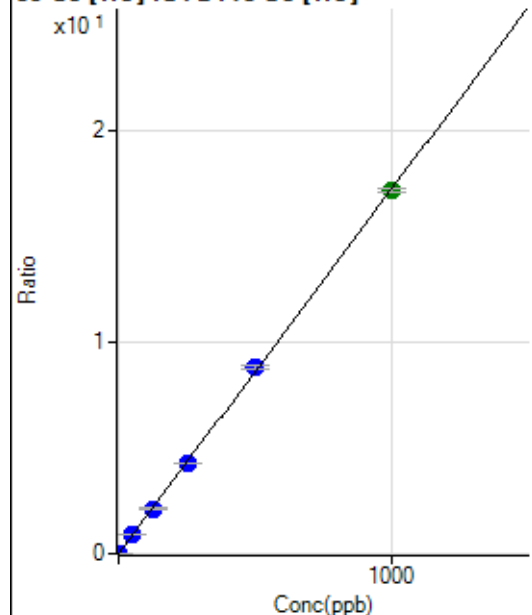
$$DL = 4.915$$

$$BEC = 11.44$$

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	82.22	0.0007	P	17.0
2	☐	1.000	0.993	2162.41	0.0178	P	5.9
3	☐	50.000	50.941	105896.61	0.8785	P	1.7
4	☐	125.000	123.684	254376.97	2.1319	P	1.3
5	☐	250.000	248.161	502133.64	4.2768	P	1.2
6	☐	500.000	509.898	1009625.28	8.7869	P	2.2
7	☐	1000.000	995.628	1998527.61	17.1567	A	1.1
8	☐			1984.60	0.0173	P	4.9

$$y = 0.0172 * x + 6.7683E-004$$

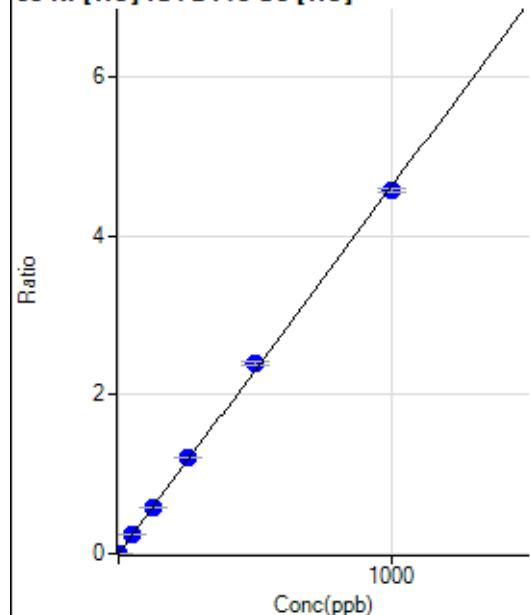
$$R = 0.9999$$

$$DL = 0.02003$$

$$BEC = 0.03928$$

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	24.44	0.0002	P	47.4
2	☐	1.000	1.013	593.35	0.0049	P	5.3
3	☐	50.000	52.029	29006.41	0.2406	P	2.9
4	☐	125.000	126.221	69635.54	0.5835	P	0.9
5	☐	250.000	259.740	140942.52	1.2005	P	0.1
6	☐	500.000	518.340	275233.96	2.3955	P	2.2
7	☐	1000.000	988.141	531974.19	4.5665	P	1.2
8	☐			1632.33	0.0142	P	7.8

$$y = 0.0046 * x + 2.0070E-004$$

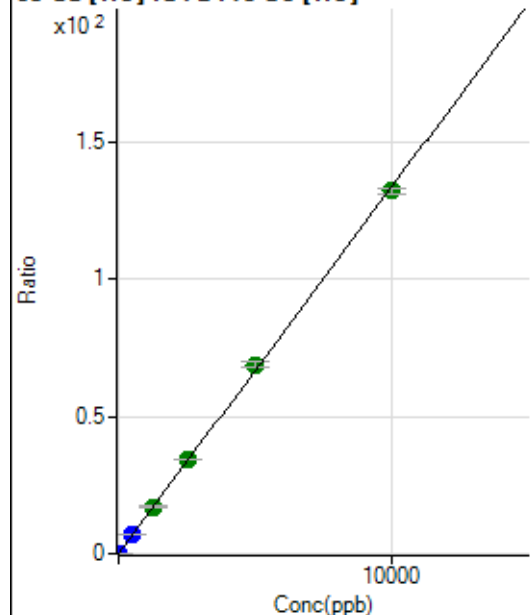
$$R = 0.9997$$

$$DL = 0.06174$$

$$BEC = 0.04343$$

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	592.24	0.0049	P	4.2
2	☐	2.000	1.958	3769.43	0.0310	P	2.5
3	☐	500.000	516.683	832902.54	6.9089	P	2.2
4	☐	1250.000	1277.857	2037856.53	17.0798	A	1.6
5	☐	2500.000	2589.467	4062825.67	34.6057	A	0.5
6	☐	5000.000	5151.404	7909087.94	68.8387	A	2.8
7	☐	10000.000	9897.615	15407585.47	132.2584	A	1.6
8	☐			5992.45	0.0522	P	9.1

$$y = 0.0134 * x + 0.0049$$

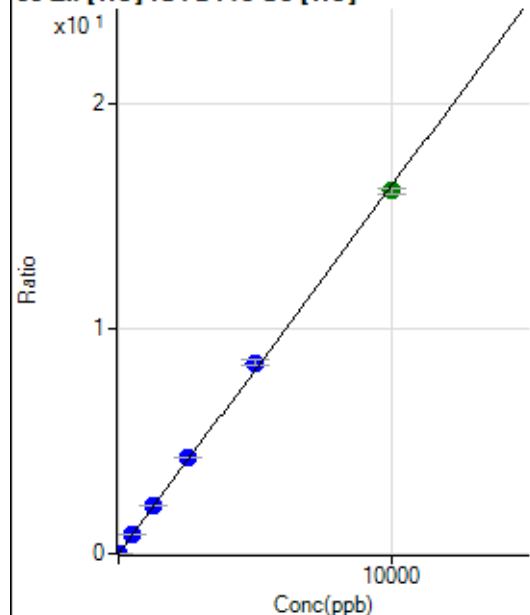
$$R = 0.9998$$

$$DL = 0.04577$$

$$BEC = 0.3645$$

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	128.89	0.0011	P	9.8
2	☐	2.000	2.453	614.47	0.0051	P	8.5
3	☐	500.000	537.348	105817.55	0.8778	P	0.4
4	☐	1250.000	1282.658	249855.28	2.0937	P	0.1
5	☐	2500.000	2615.112	501048.71	4.2677	P	0.2
6	☐	5000.000	5201.936	975271.51	8.4881	P	2.2
7	☐	10000.000	9864.304	1874823.17	16.0948	A	1.5
8	☐			2112.40	0.0184	P	1.3

$$y = 0.0016 * x + 0.0011$$

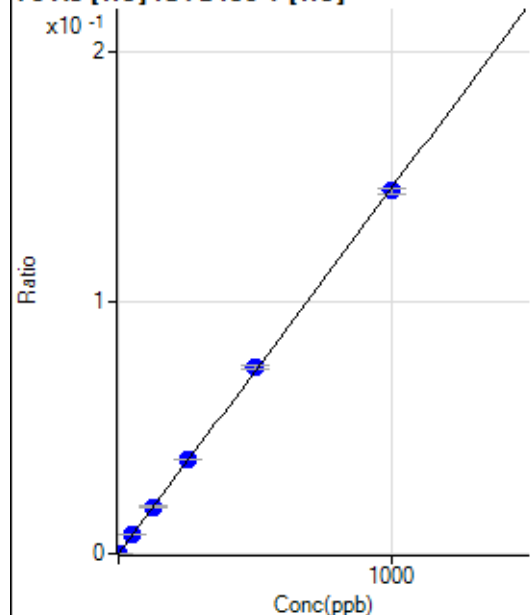
$$R = 0.9996$$

$$DL = 0.1918$$

$$BEC = 0.6499$$

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	4.33	0.0000	P	56.8
2	☐	1.000	1.066	136.01	0.0002	P	10.3
3	☐	50.000	52.616	6448.13	0.0077	P	0.3
4	☐	125.000	126.751	15229.40	0.0184	P	3.5
5	☐	250.000	257.268	30247.58	0.0374	P	1.1
6	☐	500.000	509.754	60174.94	0.0741	P	1.5
7	☐	1000.000	992.956	117786.86	0.1444	P	1.9
8	☐			43.67	0.0001	P	18.7

$$y = 1.4542E-004 * x + 5.1968E-006$$

$$R = 0.9999$$

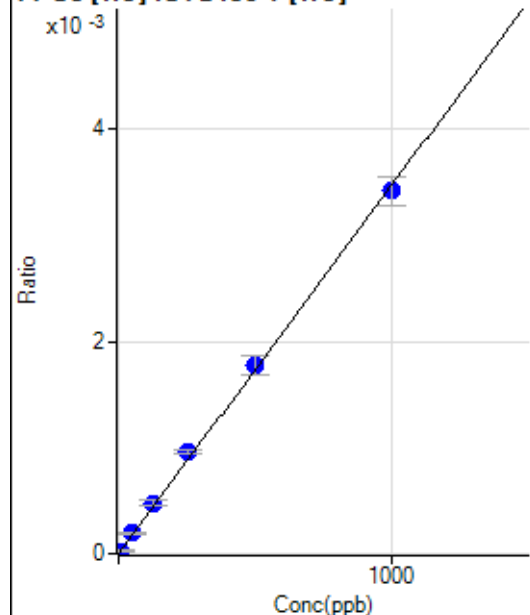
$$DL = 0.06092$$

$$BEC = 0.03574$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	6.051	17.78	0.0000	P	61.0
3	☐	50.000	55.180	161.11	0.0002	P	14.3
4	☐	125.000	137.873	395.56	0.0005	P	9.8
5	☐	250.000	274.906	771.14	0.0010	P	4.0
6	☐	500.000	512.963	1444.53	0.0018	P	10.7
7	☐	1000.000	985.418	2789.19	0.0034	P	7.9
8	☐			3.33	0.0000	P	173.

$$y = 3.4697\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9995$$

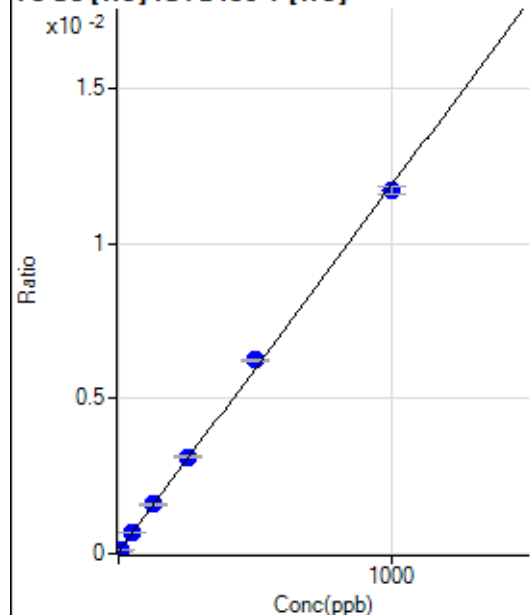
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	51.01	0.0001	P	12.3
2	☐	5.000	4.967	102.01	0.0001	P	7.6
3	☐	50.000	53.828	587.74	0.0007	P	2.1
4	☐	125.000	129.011	1310.53	0.0016	P	6.8
5	☐	250.000	259.662	2531.16	0.0031	P	2.0
6	☐	500.000	523.228	5070.76	0.0062	P	1.0
7	☐	1000.000	985.278	9551.54	0.0117	P	2.0
8	☐			47.67	0.0001	P	12.7

$$y = 1.1822\text{E-}005 * x + 6.1470\text{E-}005$$

$$R = 0.9995$$

$$DL = 1.921$$

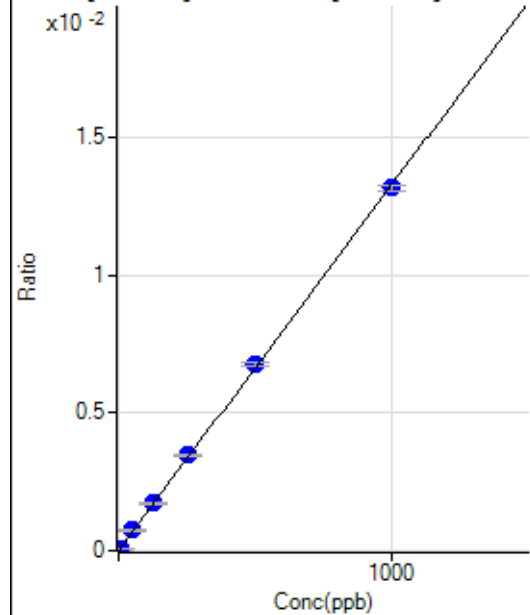
$$BEC = 5.2$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36143.96		P	1.1
2	☐			38057.58		P	1.7
3	☐			36947.06		P	0.5
4	☐			37027.30		P	1.5
5	☐			35836.67		P	2.2
6	☐			34835.97		P	1.5
7	☐			35635.25		P	1.3
8	☐			33932.99		P	2.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	26.67	0.0000	P	115.
2	☐	5.000	5.269	558.29	0.0001	P	9.0
3	☐	50.000	55.386	5504.71	0.0007	P	3.5
4	☐	125.000	129.352	13219.92	0.0017	P	1.7
5	☐	250.000	260.476	25892.03	0.0035	P	0.3
6	☐	500.000	508.497	49969.94	0.0067	P	2.2
7	☐	1000.000	992.318	97573.24	0.0131	P	1.6
8	☐			174.15	0.0000	P	10.7

$$y = 1.3247E-005 * x + 3.5165E-006$$

$$R = 0.9999$$

$$DL = 0.9191$$

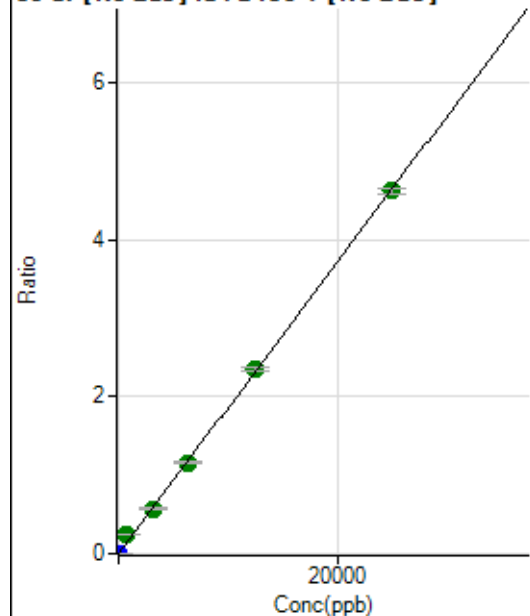
$$BEC = 0.2655$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			366.63		P	5.5
2	☐			354.13		P	9.3
3	☐			372.04		P	4.2
4	☐			363.29		P	1.7
5	☐			350.79		P	8.3
6	☐			346.21		P	7.1
7	☐			379.96		P	2.8
8	☐			366.21		P	3.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	547.25	0.0001	P	9.0
2	☐	1.000	1.110	2111.33	0.0003	P	11.1
3	☐	625.000	1319.822	1827337.43	0.2448	A	5.2
4	☐	3125.000	3093.611	4417787.25	0.5738	A	1.5
5	☐	6250.000	6260.967	8705243.86	1.1612	A	1.8
6	☐	12500.000	12638.672	17379754.55	2.3439	A	2.4
7	☐	25000.000	24914.475	34287696.25	4.6205	A	1.8
8	☐			16919.14	0.0023	P	24.8

$$y = 1.8545E-004 * x + 7.1315E-005$$

$$R = 0.9996$$

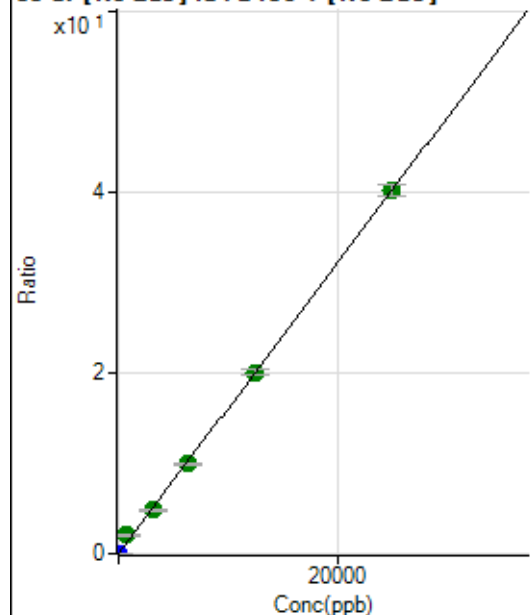
$$DL = 0.1034$$

$$BEC = 0.3845$$

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	122.22	0.0000	P	36.5
2	☐	1.000	0.975	12030.49	0.0016	P	0.8
3	☐	625.000	1291.608	15466462.33	2.0730	A	6.2
4	☐	3125.000	3003.692	37116549.79	4.8208	A	1.4
5	☐	6250.000	6204.523	74656260.00	9.9580	A	1.8
6	☐	12500.000	12503.898	148782243.6	20.0682	A	3.0
7	☐	25000.000	25007.919	297787453.8	40.1366	A	3.0
8	☐			143513.95	0.0196	P	27.2

$$y = 0.0016 * x + 1.5895E-005$$

$$R = 0.9996$$

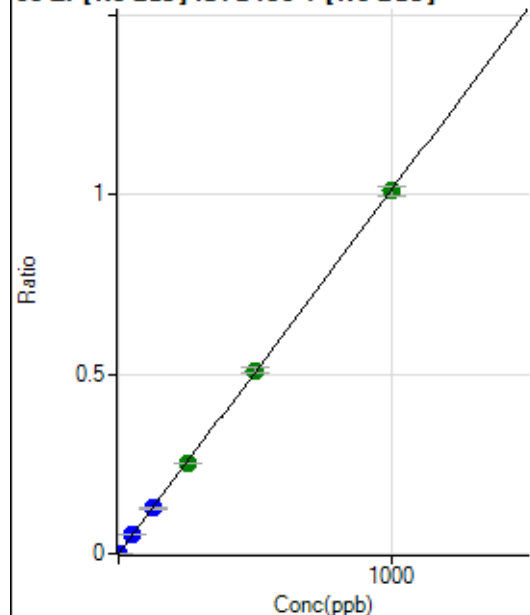
$$DL = 0.01084$$

$$BEC = 0.009903$$

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	297.23	0.0000	P	16.6
2	☐	1.000	0.951	7616.18	0.0010	P	1.4
3	☐	50.000	52.629	397164.24	0.0532	P	6.6
4	☐	125.000	124.427	968680.77	0.1258	P	0.9
5	☐	250.000	250.214	1896415.23	0.2530	A	0.7
6	☐	500.000	503.655	3774723.26	0.5092	A	3.0
7	☐	1000.000	998.059	7486460.84	1.0089	A	2.6
8	☐			3753.58	0.0005	P	34.8

$$y = 0.0010 * x + 3.8770E-005$$

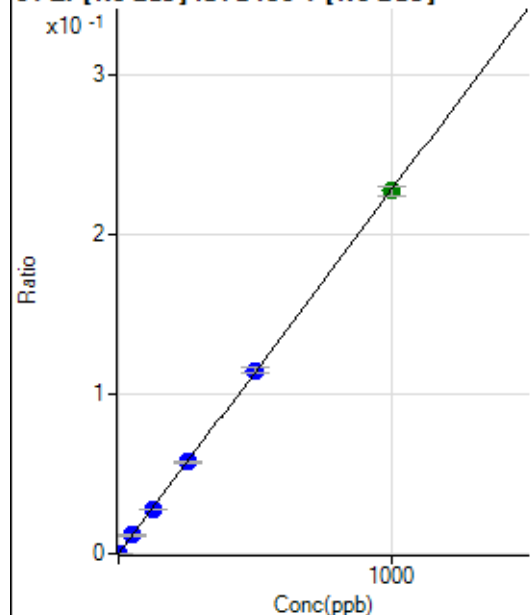
$$R = 1.0000$$

$$DL = 0.01908$$

$$BEC = 0.03835$$

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	63.89	0.0000	P	16.4
2	☐	1.000	0.936	1686.26	0.0002	P	6.8
3	☐	50.000	51.463	87505.84	0.0117	P	6.3
4	☐	125.000	122.361	214613.91	0.0279	P	0.4
5	☐	250.000	251.738	429818.75	0.0573	P	1.3
6	☐	500.000	504.178	851245.61	0.1148	P	3.2
7	☐	1000.000	997.733	1686134.07	0.2272	A	2.4
8	☐			777.82	0.0001	P	23.8

$$y = 2.2773\text{E-}004 * x + 8.3381\text{E-}006$$

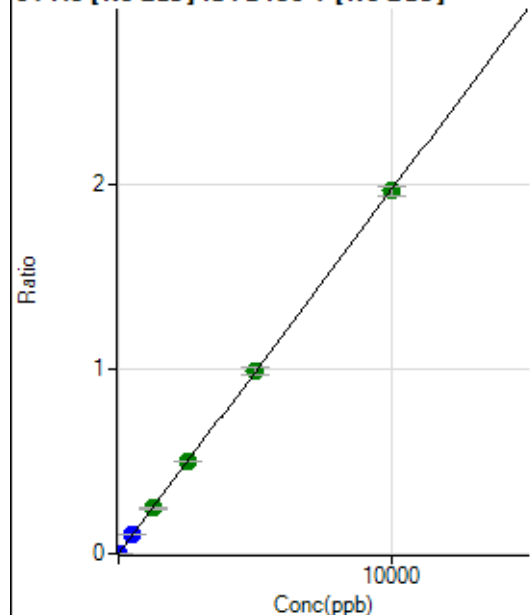
$$R = 1.0000$$

$$DL = 0.01799$$

$$BEC = 0.03661$$

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	100.00	0.0000	P	43.6
2	☐	5.000	5.794	8789.10	0.0012	P	0.7
3	☐	500.000	531.761	781647.66	0.1048	P	6.5
4	☐	1250.000	1244.445	1887706.90	0.2452	A	0.9
5	☐	2500.000	2535.658	3745048.61	0.4996	A	1.8
6	☐	5000.000	5032.002	7348810.93	0.9914	A	3.6
7	☐	10000.000	9974.190	14579939.04	1.9650	A	2.7
8	☐			7480.48	0.0010	P	27.4

$$y = 1.9701\text{E-}004 * x + 1.3014\text{E-}005$$

$$R = 1.0000$$

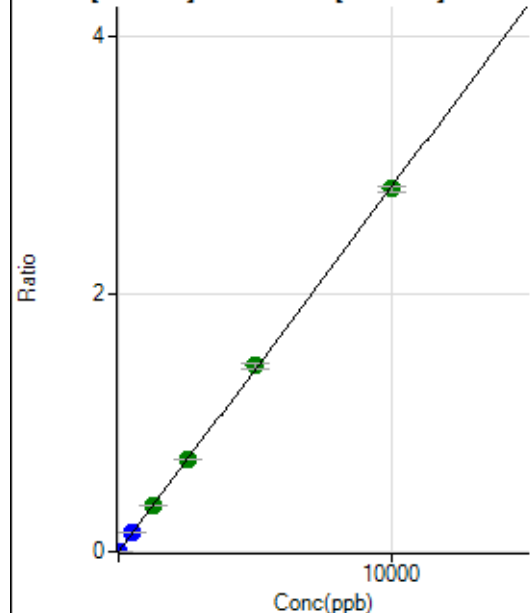
$$DL = 0.08637$$

$$BEC = 0.06606$$

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	22.22	0.0000	P	56.5
2	☐	5.000	5.097	11007.42	0.0014	P	3.3
3	☐	500.000	523.639	1105935.22	0.1482	P	6.6
4	☐	1250.000	1253.636	2732573.26	0.3549	A	1.2
5	☐	2500.000	2526.479	5362044.09	0.7153	A	0.3
6	☐	5000.000	5088.207	10679697.98	1.4405	A	3.1
7	☐	10000.000	9947.640	20898654.46	2.8162	A	1.8
8	☐			9937.86	0.0014	P	23.0

$$y = 2.8311\text{E-}004 * x + 2.8881\text{E-}006$$

$$R = 0.9999$$

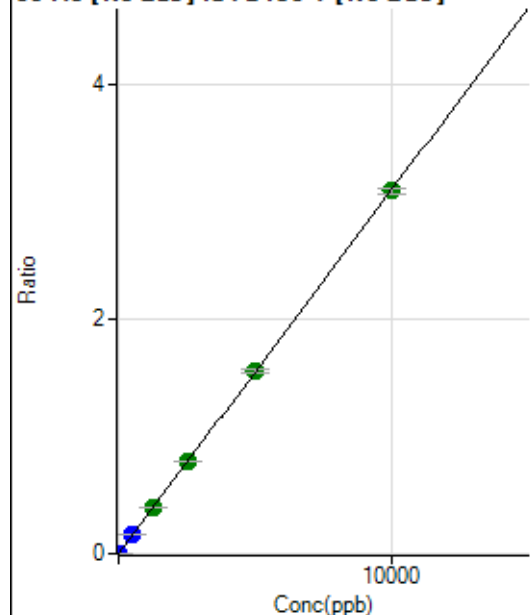
$$DL = 0.01729$$

$$BEC = 0.0102$$

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	102.78	0.0000	P	19.2
2	☐	5.000	4.885	11616.26	0.0015	P	1.5
3	☐	500.000	525.251	1213566.31	0.1626	P	5.6
4	☐	1250.000	1254.934	2991467.73	0.3885	A	1.4
5	☐	2500.000	2533.175	5878989.33	0.7843	A	1.0
6	☐	5000.000	5025.018	11533275.95	1.5557	A	3.1
7	☐	10000.000	9977.318	22922590.96	3.0889	A	1.6
8	☐			18550.29	0.0025	P	16.2

$$y = 3.0959\text{E-}004 * x + 1.3377\text{E-}005$$

$$R = 1.0000$$

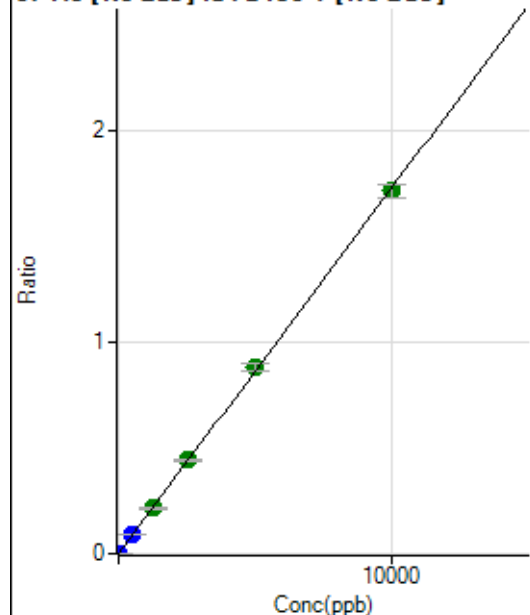
$$DL = 0.02486$$

$$BEC = 0.04321$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11.11	0.0000	P	86.6
2	☐	5.000	5.048	6640.65	0.0009	P	3.8
3	☐	500.000	534.537	688369.44	0.0922	P	4.3
4	☐	1250.000	1253.927	1665231.23	0.2163	A	3.3
5	☐	2500.000	2555.036	3304370.21	0.4407	A	1.6
6	☐	5000.000	5108.777	6533406.70	0.8813	A	3.3
7	☐	10000.000	9929.635	12706732.06	1.7129	A	3.9
8	☐			6599.27	0.0009	P	26.8

$$y = 1.7250\text{E-}004 * x + 1.4609\text{E-}006$$

$$R = 0.9999$$

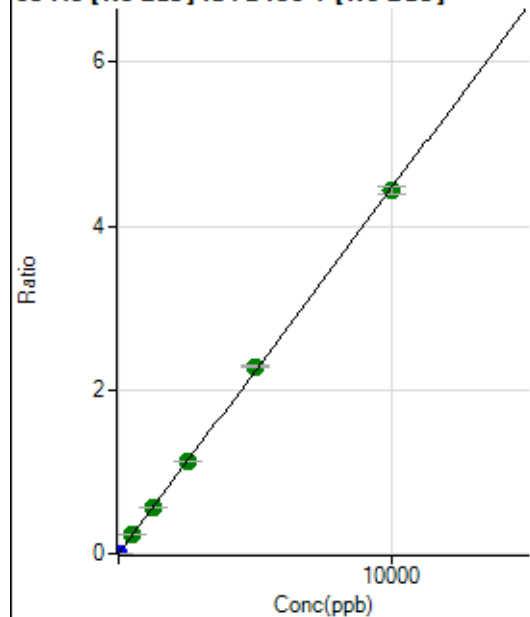
$$DL = 0.022$$

$$BEC = 0.008469$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22.22	0.0000	P	21.5
2	☐	5.000	5.054	17197.20	0.0023	P	1.9
3	☐	500.000	527.376	1756004.27	0.2354	A	6.6
4	☐	1250.000	1256.103	4316333.52	0.5606	A	2.2
5	☐	2500.000	2531.637	8470388.56	1.1299	A	0.4
6	☐	5000.000	5128.592	16973297.60	2.2889	A	1.7
7	☐	10000.000	9925.663	32870927.47	4.4299	A	2.3
8	☐			16097.89	0.0022	P	23.7

$$y = 4.4631\text{E-}004 * x + 2.8957\text{E-}006$$

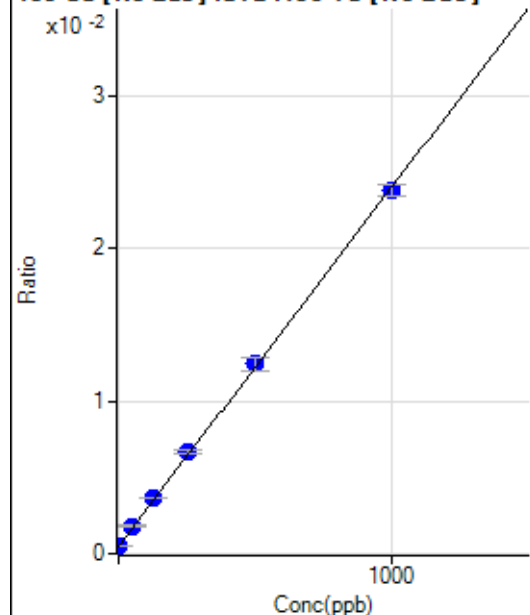
$$R = 0.9999$$

$$DL = 0.004184$$

$$BEC = 0.006488$$

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	2478.08	0.0005	P	8.0
2	☐	1.000	1.674	2636.44	0.0005	P	7.5
3	☐	50.000	56.055	9150.49	0.0018	P	6.1
4	☐	125.000	135.340	19021.94	0.0037	P	2.0
5	☐	250.000	263.472	35067.64	0.0067	P	3.1
6	☐	500.000	508.679	64806.16	0.0124	P	7.1
7	☐	1000.000	990.697	124575.48	0.0238	P	3.0
8	☐			2739.23	0.0005	P	3.2

$$y = 2.3523E-005 * x + 4.7473E-004$$

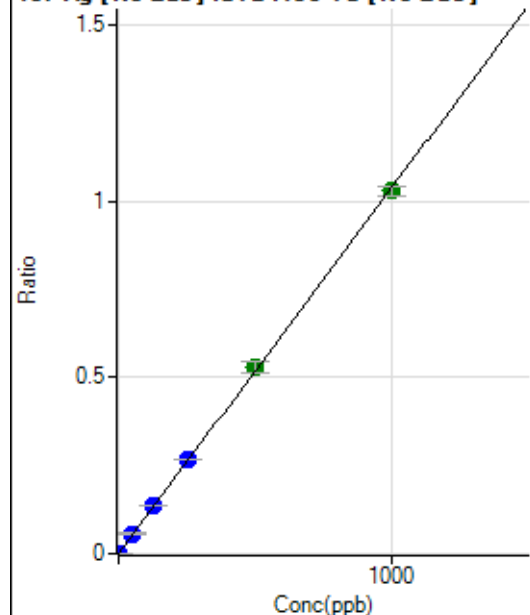
$$R = 0.9998$$

$$DL = 4.815$$

$$BEC = 20.18$$

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	186.12	0.0000	P	17.6
2	☐	1.000	1.057	5806.96	0.0011	P	3.8
3	☐	50.000	53.969	284842.84	0.0560	P	8.5
4	☐	125.000	130.685	704365.47	0.1355	P	2.0
5	☐	250.000	256.823	1398726.45	0.2662	P	0.8
6	☐	500.000	510.009	2754006.42	0.5285	A	6.5
7	☐	1000.000	992.381	5387190.05	1.0283	A	2.6
8	☐			3920.15	0.0008	P	9.3

$$y = 0.0010 * x + 3.5636E-005$$

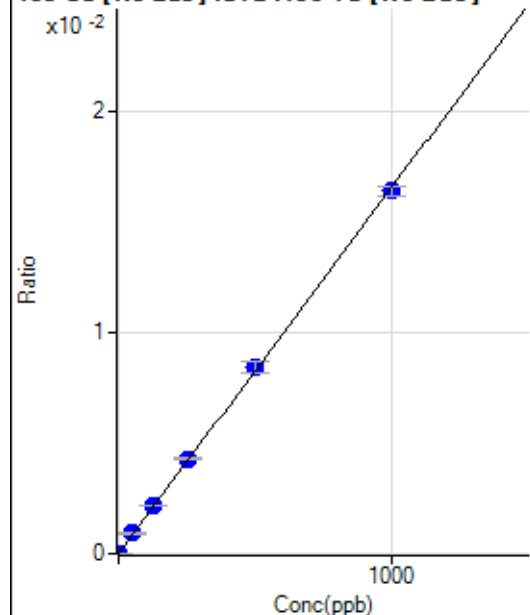
$$R = 0.9999$$

$$DL = 0.01816$$

$$BEC = 0.03439$$

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	16.66	0.0000	P	41.9
2	☐	1.000	1.020	102.78	0.0000	P	15.3
3	☐	50.000	55.591	4707.80	0.0009	P	4.9
4	☐	125.000	131.681	11349.21	0.0022	P	2.3
5	☐	250.000	259.280	22570.03	0.0043	P	1.1
6	☐	500.000	510.169	44023.05	0.0084	P	6.6
7	☐	1000.000	991.481	85982.90	0.0164	P	2.8
8	☐			79.16	0.0000	P	7.7

$$y = 1.6552\text{E-}005 * x + 3.1684\text{E-}006$$

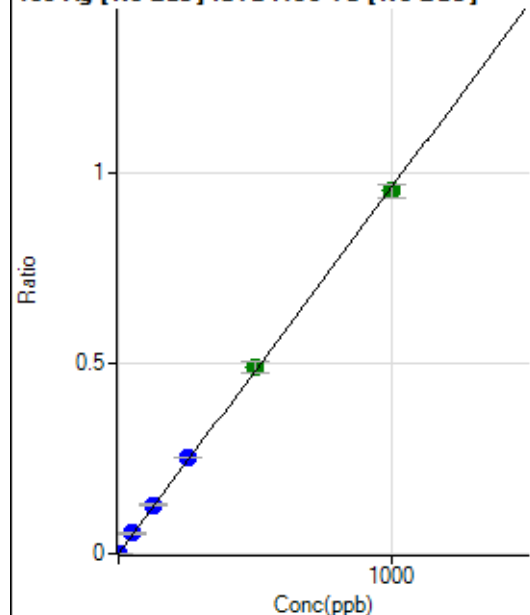
$$R = 0.9999$$

$$DL = 0.2407$$

$$BEC = 0.1914$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	163.89	0.0000	P	12.3
2	☐	1.000	1.063	5406.75	0.0011	P	5.2
3	☐	50.000	55.581	272495.94	0.0535	P	8.3
4	☐	125.000	132.506	663191.33	0.1276	P	3.7
5	☐	250.000	261.413	1322311.14	0.2516	P	0.5
6	☐	500.000	509.580	2556125.19	0.4905	A	6.2
7	☐	1000.000	991.139	4996833.70	0.9540	A	3.6
8	☐			3950.72	0.0008	P	14.7

$$y = 9.6245\text{E-}004 * x + 3.1299\text{E-}005$$

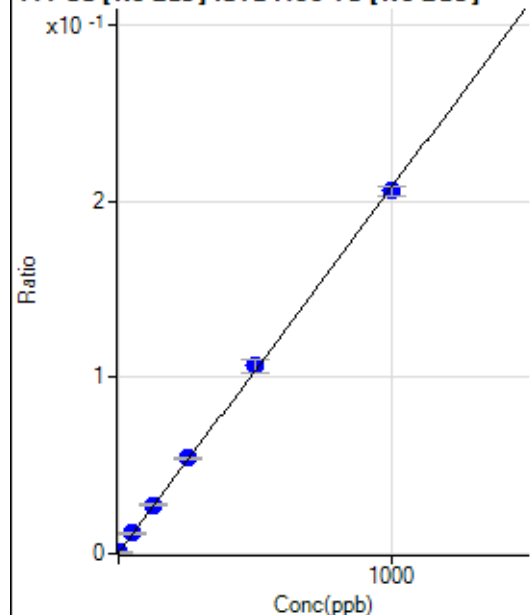
$$R = 0.9998$$

$$DL = 0.01202$$

$$BEC = 0.03252$$

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	1738.27	0.0003	P	8.2
2	☐	1.000	1.086	2862.51	0.0006	P	7.6
3	☐	50.000	55.244	59965.90	0.0118	P	9.0
4	☐	125.000	132.259	144256.10	0.0277	P	2.5
5	☐	250.000	259.111	283953.79	0.0540	P	0.5
6	☐	500.000	511.634	554285.46	0.1064	P	6.4
7	☐	1000.000	990.736	1077372.05	0.2057	P	2.6
8	☐			2459.30	0.0005	P	8.2

$$y = 2.0725E-004 * x + 3.3302E-004$$

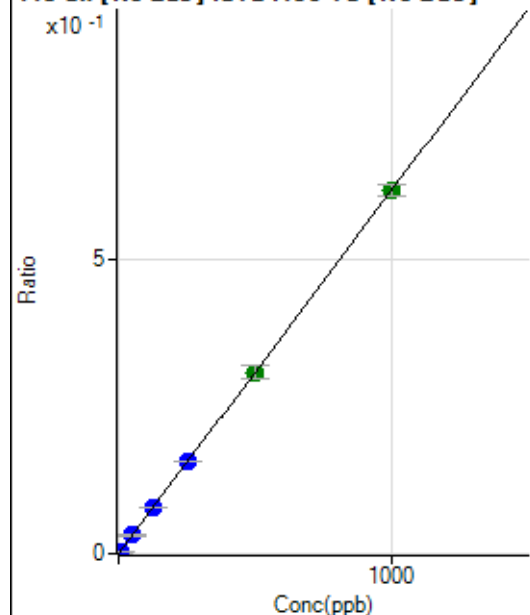
$$R = 0.9998$$

$$DL = 0.3957$$

$$BEC = 1.607$$

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	308.34	0.0001	P	24.0
2	☐	5.000	5.017	16204.42	0.0032	P	3.6
3	☐	50.000	51.417	161873.23	0.0318	P	9.9
4	☐	125.000	126.803	407582.39	0.0784	P	2.0
5	☐	250.000	253.398	822801.53	0.1566	P	1.2
6	☐	500.000	500.130	1609598.41	0.3090	A	7.2
7	☐	1000.000	998.789	3231851.94	0.6170	A	3.2
8	☐			4450.88	0.0009	P	6.6

$$y = 6.1768E-004 * x + 5.9225E-005$$

$$R = 1.0000$$

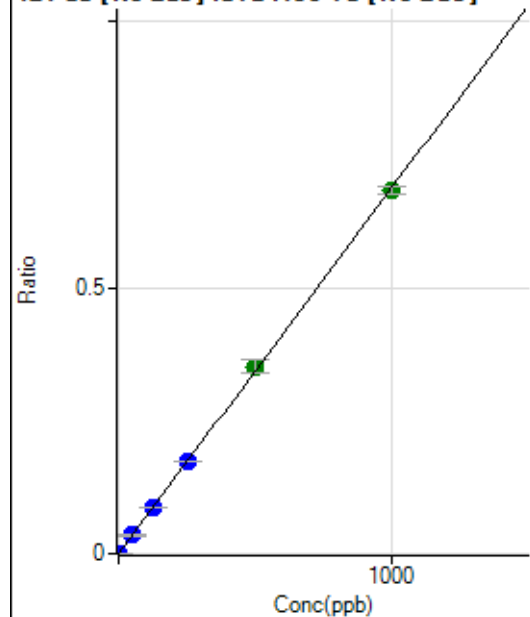
$$DL = 0.06917$$

$$BEC = 0.09588$$

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	44.44	0.0000	P	28.2
2	☐	2.000	2.020	7154.81	0.0014	P	5.6
3	☐	50.000	51.870	181222.07	0.0356	P	8.9
4	☐	125.000	126.848	452734.49	0.0871	P	1.9
5	☐	250.000	253.838	915526.46	0.1742	P	0.8
6	☐	500.000	512.118	1831255.97	0.3515	A	6.9
7	☐	1000.000	992.657	3569266.40	0.6813	A	2.0
8	☐			3297.76	0.0006	P	28.9

$$y = 6.8632E-004 * x + 8.4923E-006$$

$$R = 0.9999$$

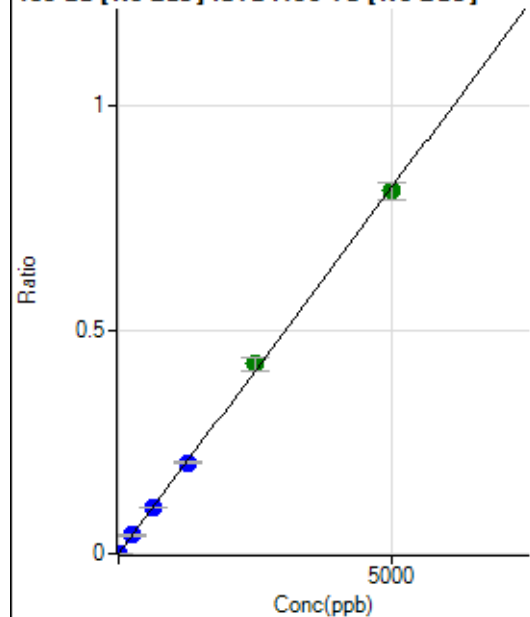
$$DL = 0.01046$$

$$BEC = 0.01237$$

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	13.89	0.0000	P	69.3
2	☐	10.000	9.808	8244.39	0.0016	P	1.6
3	☐	250.000	254.033	211624.78	0.0415	P	6.5
4	☐	625.000	624.370	530830.89	0.1021	P	1.7
5	☐	1250.000	1245.851	1070453.88	0.2037	P	0.4
6	☐	2500.000	2588.030	2204019.60	0.4231	A	7.5
7	☐	5000.000	4956.900	4244384.77	0.8105	A	4.6
8	☐			3039.35	0.0006	P	12.6

$$y = 1.6350E-004 * x + 2.6577E-006$$

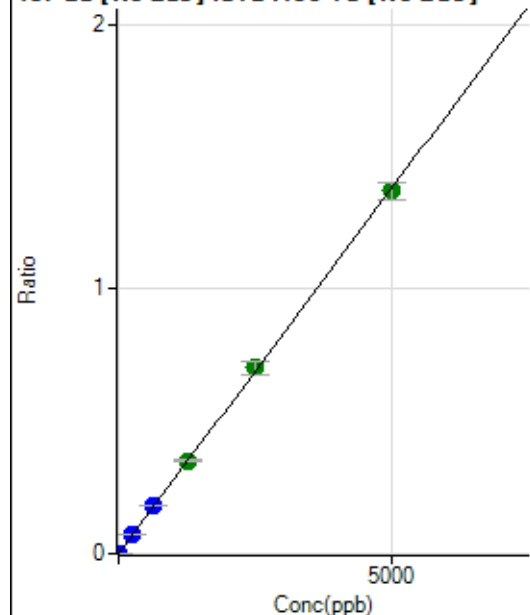
$$R = 0.9998$$

$$DL = 0.0338$$

$$BEC = 0.01626$$

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	25.00	0.0000	P	88.5
2	☐	10.000	10.178	14449.87	0.0028	P	1.7
3	☐	250.000	264.079	371046.08	0.0729	P	9.0
4	☐	625.000	653.237	937701.44	0.1803	P	2.2
5	☐	1250.000	1272.781	1846462.02	0.3514	A	1.1
6	☐	2500.000	2544.024	3658089.92	0.7023	A	7.7
7	☐	5000.000	4968.059	7182709.97	1.3715	A	4.7
8	☐			5501.34	0.0011	P	16.4

$$y = 2.7607E-004 * x + 4.7707E-006$$

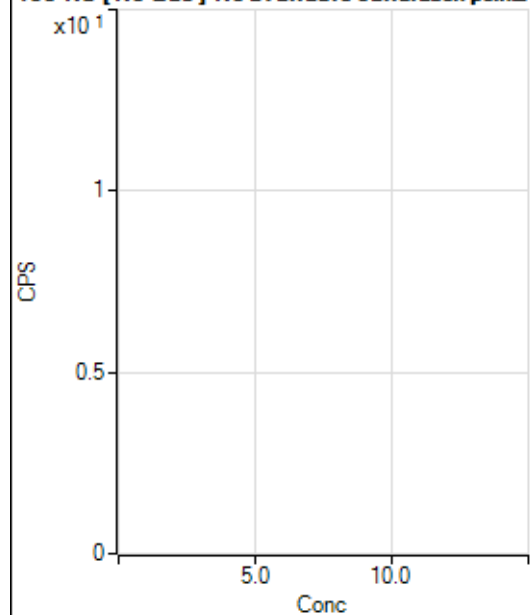
$$R = 0.9999$$

$$DL = 0.04586$$

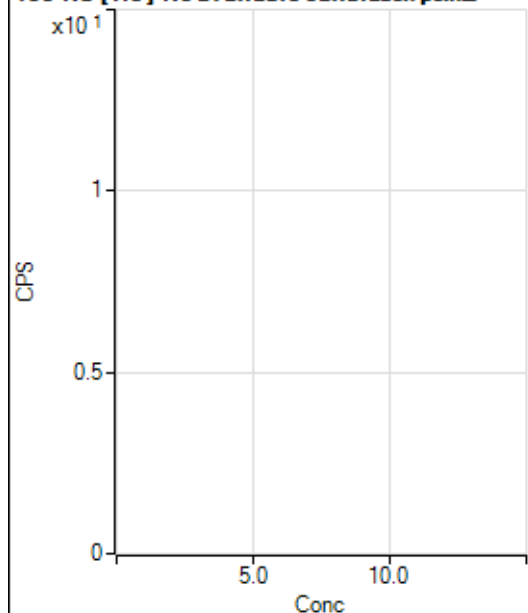
$$BEC = 0.01728$$

Weight: <None>

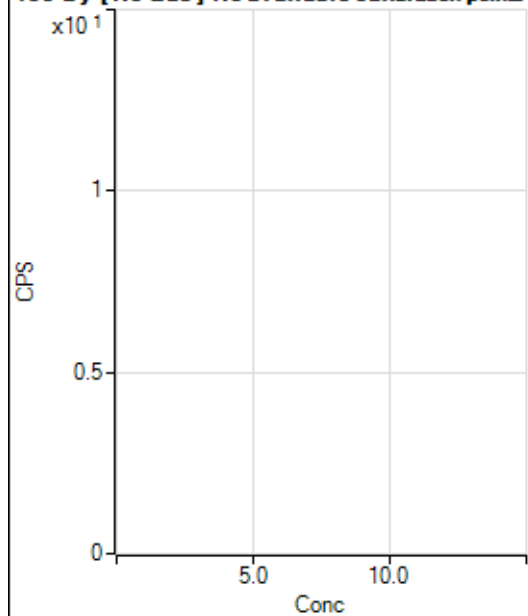
Min Conc: 0

150 Nd [No Gas] No available calibration points

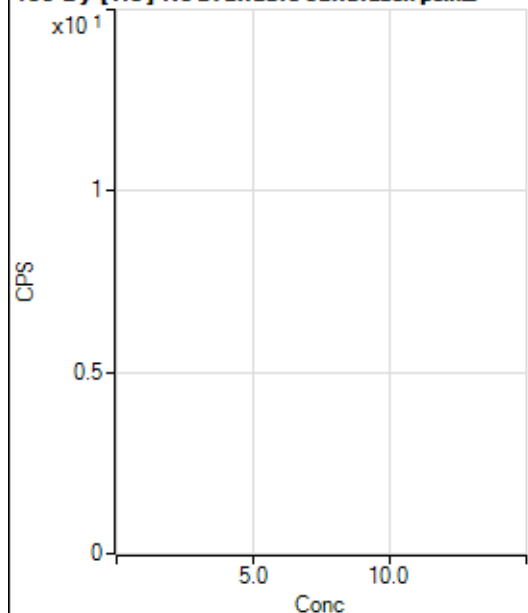
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			11.11		P	69.3
2	☐			15.55		P	24.8
3	☐			44.44		P	43.3
4	☐			62.22		P	27.0
5	☐			133.34		P	22.9
6	☐			260.01		P	31.1
7	☐			513.36		P	14.0
8	☐			24.45		P	15.8

150 Nd [He] No available calibration points

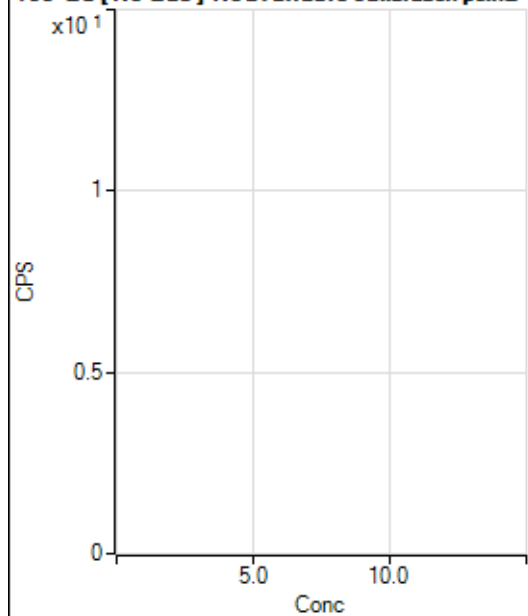
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			2.22		P	86.6
3	☐			8.89		P	21.6
4	☐			7.78		P	65.5
5	☐			4.45		P	86.6
6	☐			25.55		P	27.1
7	☐			32.22		P	15.8
8	☐			8.89		P	43.3

156 Dy [No Gas] No available calibration points

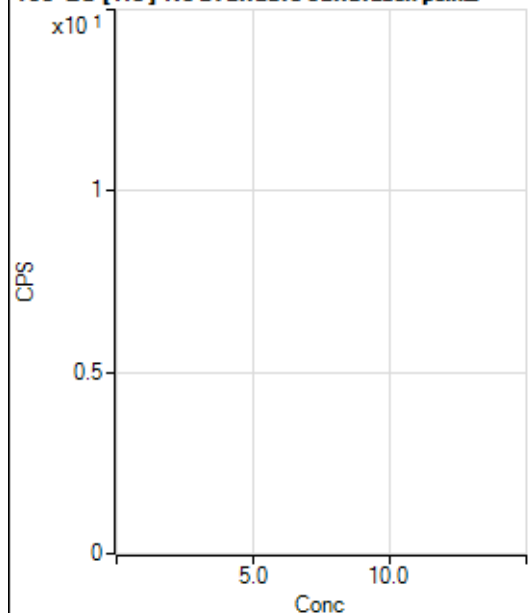
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.
2	☐			2.78		P	173.
3	☐			19.44		P	65.5
4	☐			44.45		P	39.0
5	☐			72.22		P	24.0
6	☐			138.89		P	9.2
7	☐			247.23		P	1.9
8	☐			727.82		P	9.9

156 Dy [He] No available calibration points

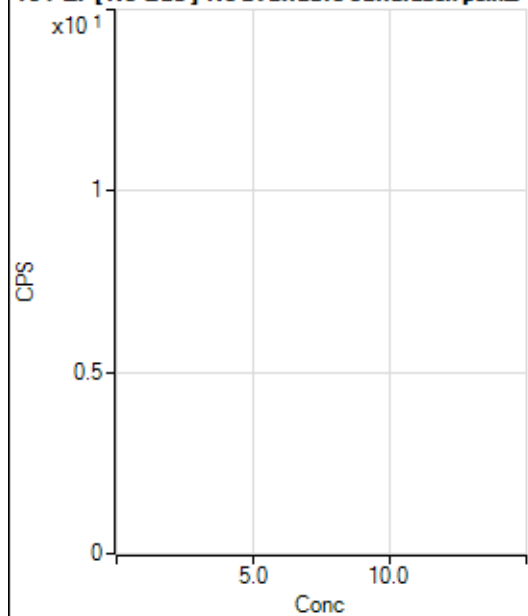
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			2.22		P	86.6
3	☐			3.33		P	100.
4	☐			12.22		P	15.7
5	☐			37.78		P	36.7
6	☐			87.78		P	17.9
7	☐			123.34		P	17.7
8	☐			334.45		P	9.0

160 Gd [No Gas] Noavailable calibration poin_

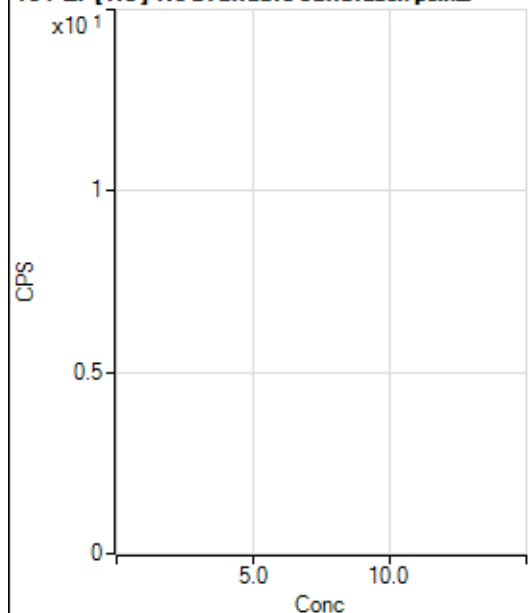
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.11		P	26.7
2	☐			69.44		P	38.6
3	☐			69.45		P	18.3
4	☐			75.00		P	22.2
5	☐			88.89		P	10.8
6	☐			130.56		P	25.8
7	☐			252.79		P	13.7
8	☐			794.49		P	3.7

160 Gd [He] No available calibration points

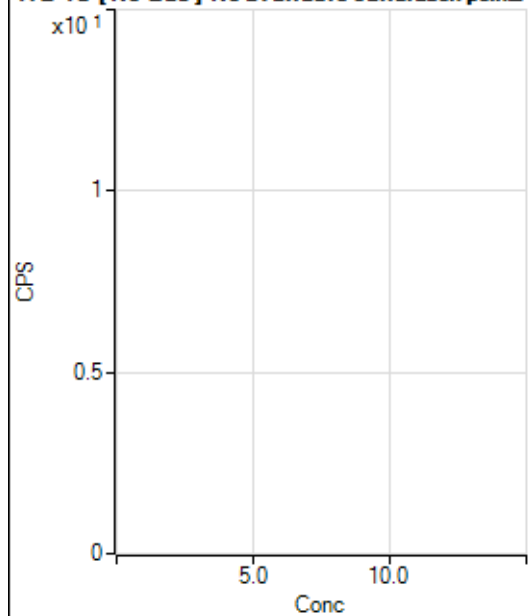
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			71.11		P	28.6
2	☐			80.00		P	14.4
3	☐			75.56		P	28.4
4	☐			117.78		P	20.1
5	☐			102.22		P	19.9
6	☐			113.33		P	2.9
7	☐			193.34		P	11.9
8	☐			448.90		P	10.3

164 Er [No Gas] No available calibration points

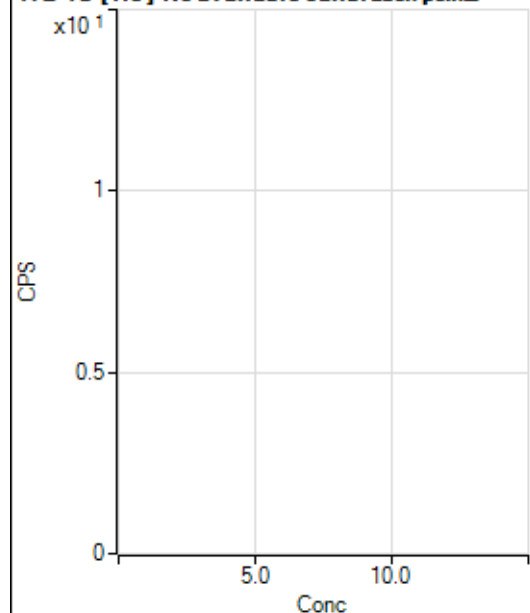
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.45		P	10.8
2	☐			41.67		P	40.0
3	☐			13.89		P	91.6
4	☐			22.22		P	57.3
5	☐			52.78		P	32.9
6	☐			86.11		P	20.1
7	☐			66.67		P	0.0
8	☐			80.56		P	15.8

164 Er [He] No available calibration points

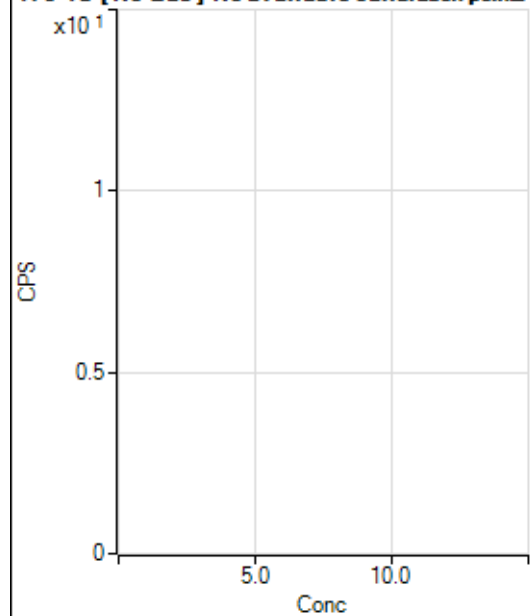
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15.56		P	32.7
2	☐			15.56		P	75.3
3	☐			20.00		P	66.7
4	☐			27.78		P	45.4
5	☐			20.00		P	44.1
6	☐			24.45		P	28.4
7	☐			43.33		P	42.8
8	☐			33.33		P	20.0

172 Yb [No Gas] No available calibration points

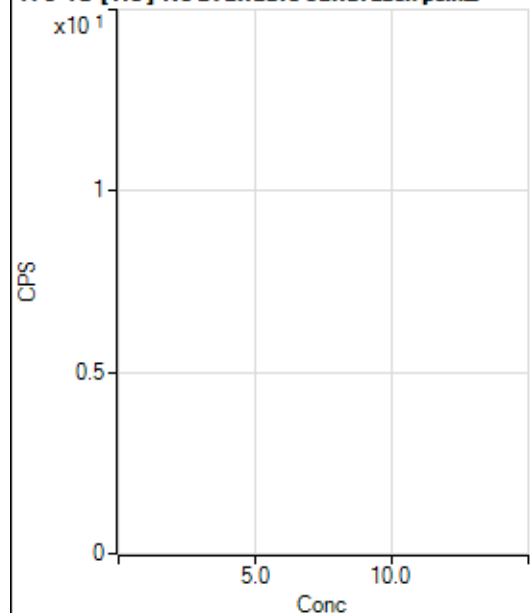
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.11		P	13.3
2	☐			61.11		P	7.9
3	☐			47.23		P	71.3
4	☐			36.11		P	48.0
5	☐			55.56		P	22.9
6	☐			80.56		P	15.8
7	☐			130.56		P	13.3
8	☐			283.35		P	17.9

172 Yb [He] No available calibration points

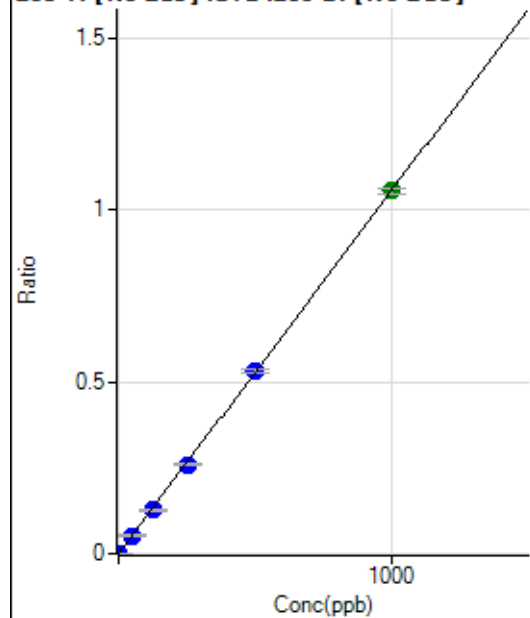
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24.07		P	48.0
2	☐			9.26		P	34.6
3	☐			22.22		P	25.0
4	☐			31.48		P	71.3
5	☐			25.93		P	65.5
6	☐			31.48		P	10.2
7	☐			61.11		P	18.2
8	☐			135.19		P	18.5

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			836.16		P	11.5
2	☐			858.39		P	12.4
3	☐			1447.34		P	5.8
4	☐			2508.65		P	2.8
5	☐			4225.81		P	7.9
6	☐			7824.83		P	5.3
7	☐			14402.77		P	6.8
8	☐			1008.40		P	14.1

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6270.12		P	3.5
2	☐			5940.34		P	3.1
3	☐			6133.01		P	2.9
4	☐			6942.70		P	1.3
5	☐			7650.50		P	3.1
6	☐			9321.99		P	2.0
7	☐			12558.02		P	1.6
8	☐			6438.72		P	4.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	116.67	0.0000	P	25.5
2	☐	1.000	0.939	3036.57	0.0010	P	0.9
3	☐	50.000	49.419	147243.33	0.0522	P	11.4
4	☐	125.000	120.339	377814.10	0.1270	P	2.9
5	☐	250.000	244.465	759040.09	0.2579	P	2.1
6	☐	500.000	504.717	1513857.92	0.5324	P	1.6
7	☐	1000.000	999.637	3046335.42	1.0544	A	1.3
8	☐			1594.59	0.0006	P	23.1

$$y = 0.0011 * x + 3.9901E-005$$

$$R = 1.0000$$

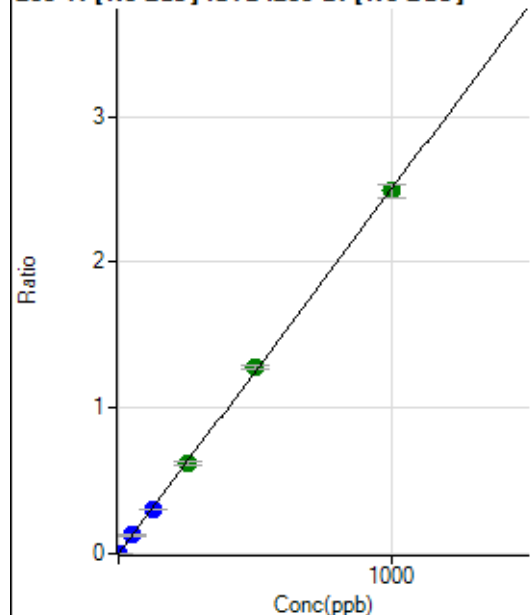
$$DL = 0.02897$$

$$BEC = 0.03783$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	255.56	0.0001	P	21.5
2	☐	1.000	0.927	7088.29	0.0024	P	3.1
3	☐	50.000	50.162	354815.91	0.1255	P	8.6
4	☐	125.000	120.461	896940.25	0.3013	P	1.6
5	☐	250.000	246.420	1813364.69	0.6163	A	4.5
6	☐	500.000	512.744	3646364.97	1.2823	A	1.9
7	☐	1000.000	995.082	7187444.08	2.4884	A	3.4
8	☐			3725.72	0.0014	P	26.9

$$y = 0.0025 * x + 8.7398E-005$$

$$R = 0.9999$$

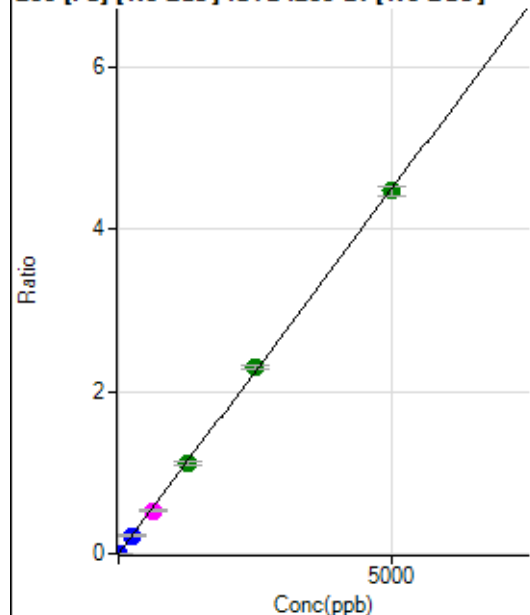
$$DL = 0.0225$$

$$BEC = 0.03495$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	262.97	0.0001	P	1.5
2	☐	1.000	0.892	2631.79	0.0009	P	5.9
3	☐	250.000	246.906	627624.04	0.2222	P	10.2
4	☐	625.000	591.471	1583926.64	0.5322	M	3.0
5	☐	1250.000	1243.538	3293006.27	1.1189	A	3.6
6	☐	2500.000	2559.960	6549190.77	2.3033	A	1.3
7	☐	5000.000	4975.981	12933461.52	4.4770	A	2.4
8	☐			5212.45	0.0020	P	29.2

$$y = 8.9970E-004 * x + 8.9973E-005$$

$$R = 0.9999$$

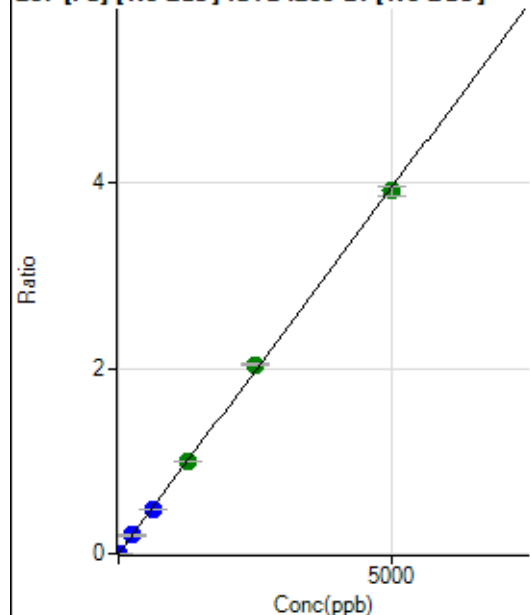
$$DL = 0.004576$$

$$BEC = 0.1$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	237.04	0.0001	P	15.7
2	☐	1.000	0.935	2411.38	0.0008	P	3.4
3	☐	250.000	250.027	557146.83	0.1973	P	10.5
4	☐	625.000	599.802	1408533.74	0.4732	P	0.9
5	☐	1250.000	1260.483	2927492.57	0.9944	A	1.0
6	☐	2500.000	2584.993	5799585.37	2.0392	A	1.4
7	☐	5000.000	4958.031	11299968.77	3.9111	A	2.5
8	☐			4801.16	0.0018	P	27.5

$$y = 7.8882\text{E-}004 * x + 8.1074\text{E-}005$$

$$R = 0.9998$$

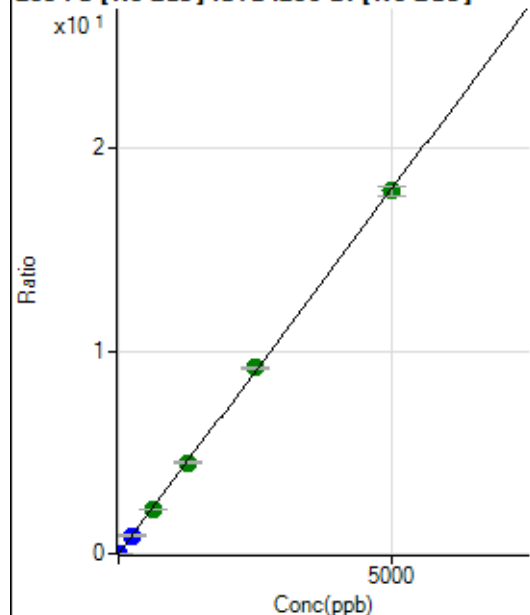
$$DL = 0.04835$$

$$BEC = 0.1028$$

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	1031.52	0.0004	P	7.5
2	☐	1.000	0.904	10616.69	0.0036	P	1.2
3	☐	250.000	249.780	2538261.59	0.8985	P	9.7
4	☐	625.000	609.277	6521758.58	2.1911	A	1.4
5	☐	1250.000	1248.814	13218469.77	4.4907	A	1.8
6	☐	2500.000	2548.591	26061095.20	9.1642	A	1.5
7	☐	5000.000	4977.977	51707684.14	17.8994	A	2.7
8	☐			21555.20	0.0082	P	29.4

$$y = 0.0036 * x + 3.5287\text{E-}004$$

$$R = 0.9999$$

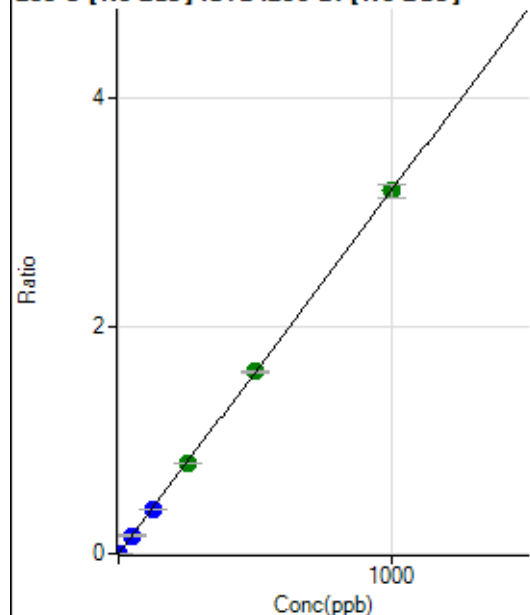
$$DL = 0.02221$$

$$BEC = 0.09814$$

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	22.22	0.0000	P	21.4
2	☐	1.000	0.875	8252.95	0.0028	P	3.8
3	☐	50.000	49.586	447742.20	0.1583	P	6.6
4	☐	125.000	119.615	1136413.16	0.3817	P	0.4
5	☐	250.000	249.771	2346905.67	0.7971	A	0.5
6	☐	500.000	503.069	4565625.71	1.6055	A	1.0
7	☐	1000.000	999.217	9209952.03	3.1888	A	3.9
8	☐			2414.33	0.0009	P	54.9

$$y = 0.0032 * x + 7.6000E-006$$

$$R = 1.0000$$

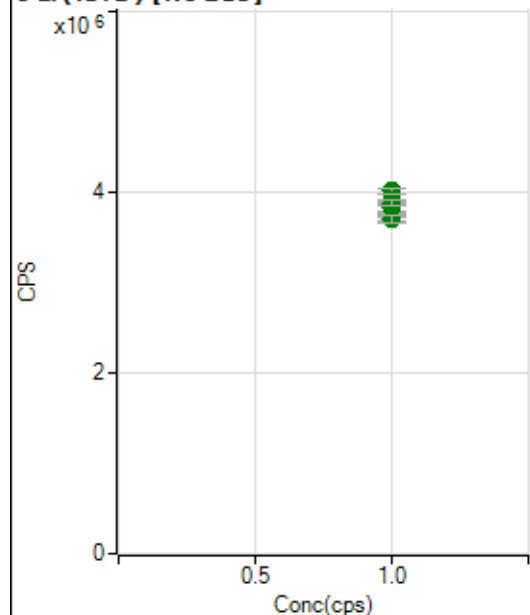
$$DL = 0.001528$$

$$BEC = 0.002381$$

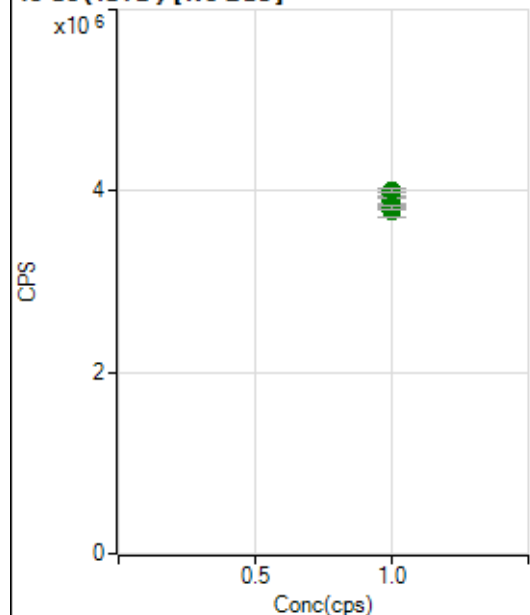
Weight: <None>

Min Conc: 0

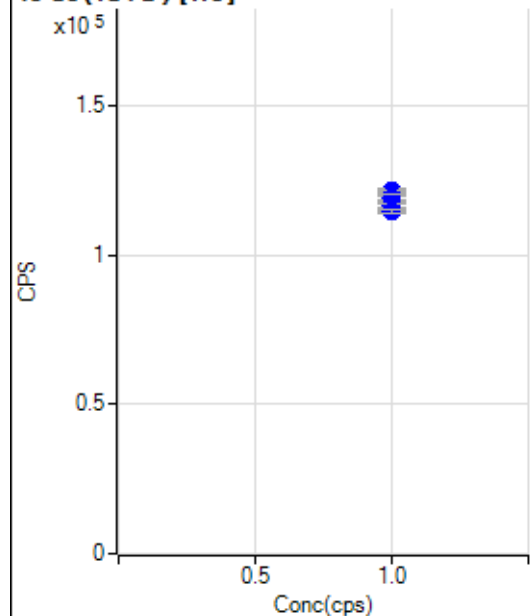
6 Li (ISTD) [No Gas]



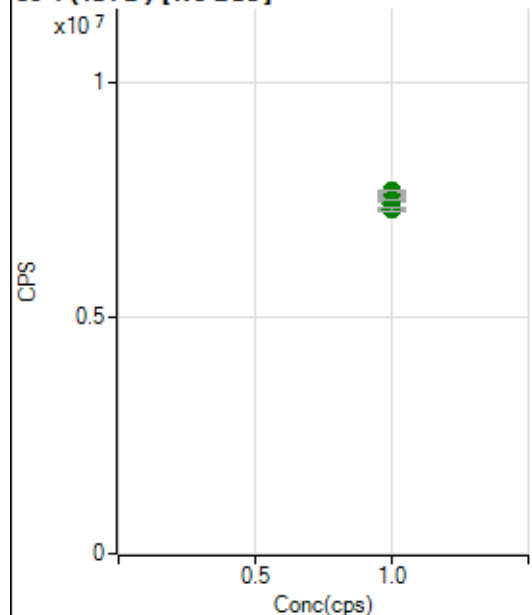
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3902668.50		A	1.0
2	☐	1.000		4011694.67		A	1.6
3	☐	1.000		3837490.71		A	4.3
4	☐	1.000		3917779.61		A	2.8
5	☐	1.000		3875572.85		A	1.8
6	☐	1.000		3732168.51		A	2.7
7	☐	1.000		3735392.46		A	1.3
8	☐	1.000		3696033.94		A	2.5

45 Sc (ISTD) [No Gas]

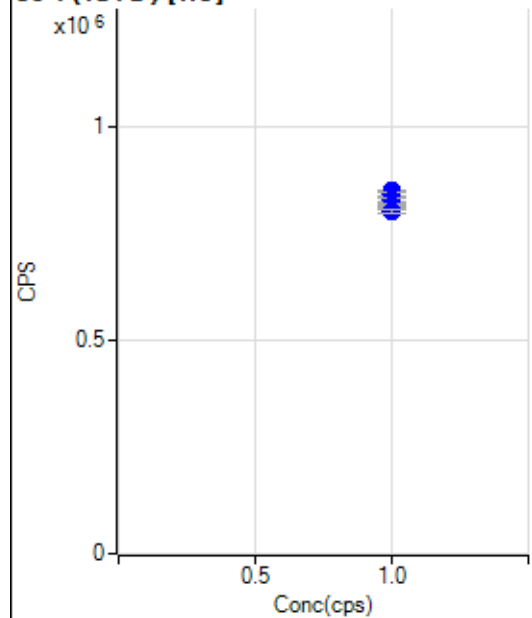
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3955889.11		A	1.3
2	☐	1.000		3929438.35		A	0.8
3	☐	1.000		3898145.63		A	5.0
4	☐	1.000		4000075.05		A	1.2
5	☐	1.000		3884864.11		A	2.4
6	☐	1.000		3765976.09		A	2.9
7	☐	1.000		3841314.42		A	0.5
8	☐	1.000		3819729.04		A	1.3

45 Sc (ISTD) [He]

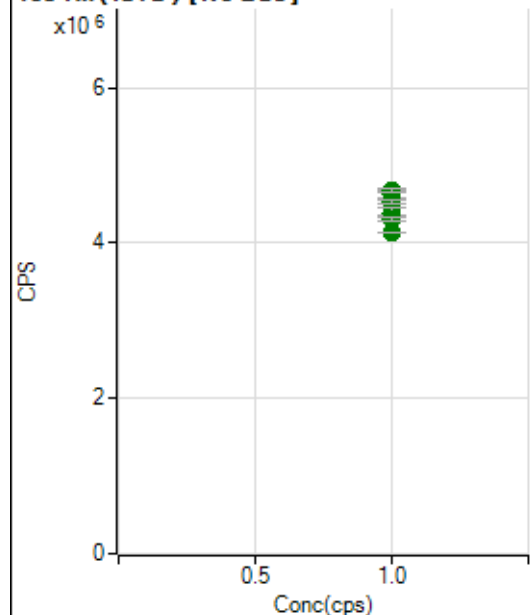
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		121564.86		P	0.6
2	☐	1.000		121478.14		P	1.7
3	☐	1.000		120554.77		P	1.5
4	☐	1.000		119335.02		P	1.7
5	☐	1.000		117405.34		P	0.6
6	☐	1.000		114908.93		P	0.8
7	☐	1.000		116488.41		P	1.1
8	☐	1.000		114788.16		P	1.1

89 Y (ISTD) [No Gas]

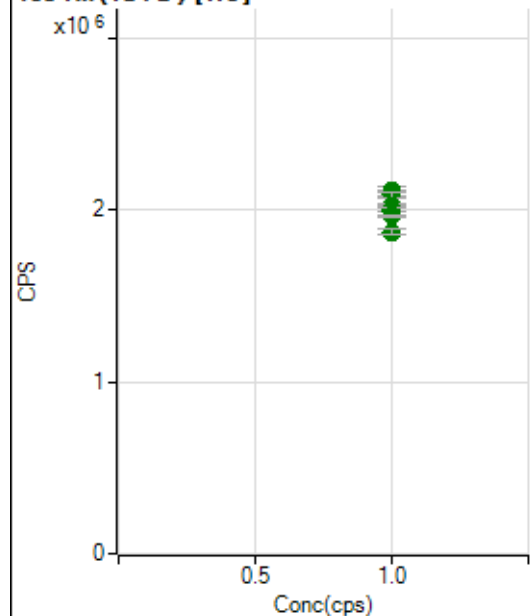
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7673026.48		A	1.6
2	☐	1.000		7613493.64		A	0.4
3	☐	1.000		7475037.18		A	4.6
4	☐	1.000		7699571.83		A	0.7
5	☐	1.000		7496484.06		A	0.9
6	☐	1.000		7417428.92		A	2.6
7	☐	1.000		7422790.58		A	2.3
8	☐	1.000		7304591.35		A	1.0

89 Y (ISTD) [He]

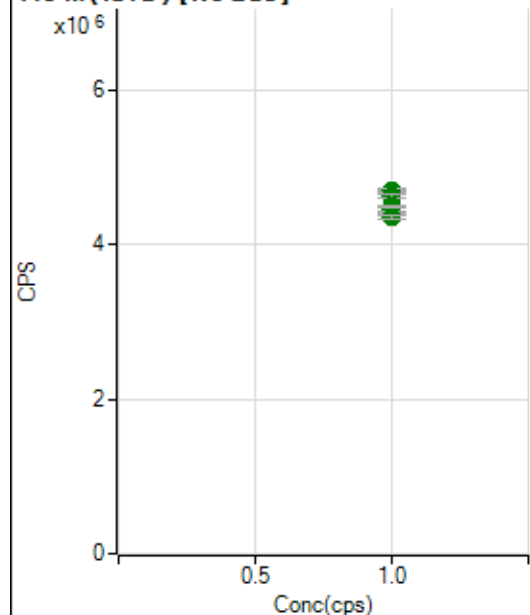
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		828875.04		P	1.7
2	☐	1.000		849012.81		P	0.8
3	☐	1.000		842148.11		P	0.8
4	☐	1.000		826238.18		P	1.6
5	☐	1.000		808344.65		P	0.6
6	☐	1.000		811709.21		P	0.2
7	☐	1.000		815722.92		P	0.6
8	☐	1.000		802531.02		P	1.3

103 Rh (ISTD) [No Gas]

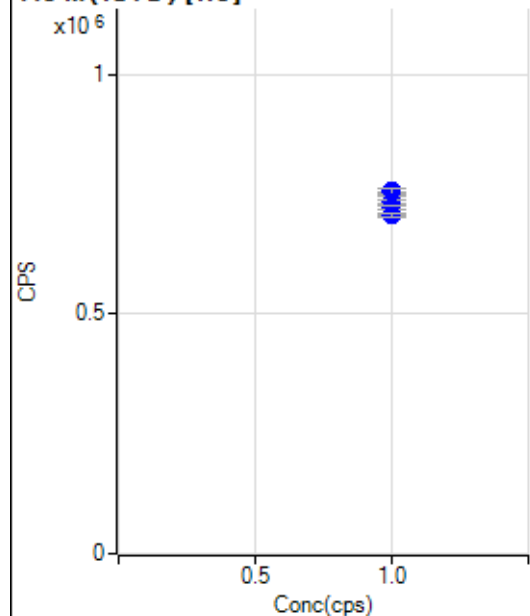
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4668300.75		A	0.7
2	☐	1.000		4620707.53		A	1.7
3	☐	1.000		4448671.63		A	4.5
4	☐	1.000		4671615.56		A	1.2
5	☐	1.000		4528870.33		A	1.0
6	☐	1.000		4393621.71		A	3.3
7	☐	1.000		4314820.80		A	1.2
8	☐	1.000		4135419.41		A	0.4

103 Rh (ISTD) [He]

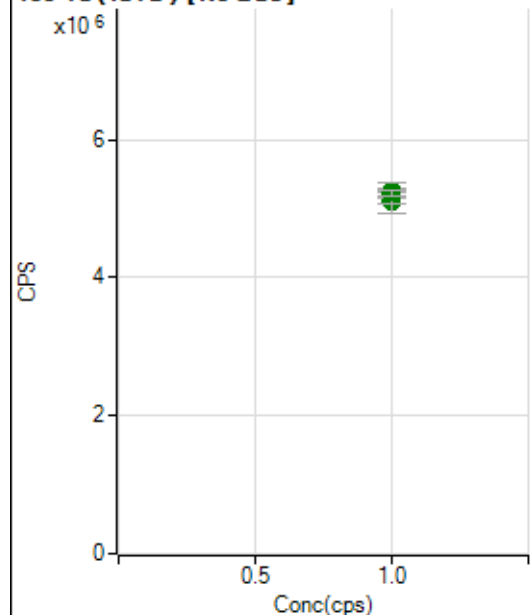
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2107209.39		A	2.7
2	☐	1.000		2109633.04		A	0.8
3	☐	1.000		2088331.06		A	1.5
4	☐	1.000		2027425.40		A	0.8
5	☐	1.000		1999494.62		A	1.3
6	☐	1.000		1989799.83		A	2.1
7	☐	1.000		1965763.01		A	0.5
8	☐	1.000		1867700.28		A	1.8

115 In (ISTD) [No Gas]

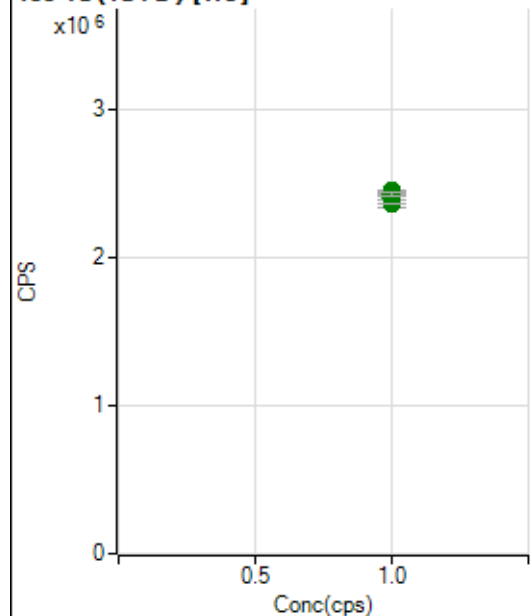
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4675741.76		A	1.5
2	☐	1.000		4661094.19		A	2.2
3	☐	1.000		4501839.65		A	4.9
4	☐	1.000		4693664.08		A	0.9
5	☐	1.000		4622415.39		A	1.2
6	☐	1.000		4454767.02		A	1.6
7	☐	1.000		4496654.78		A	0.4
8	☐	1.000		4357682.75		A	0.9

115 In (ISTD) [He]

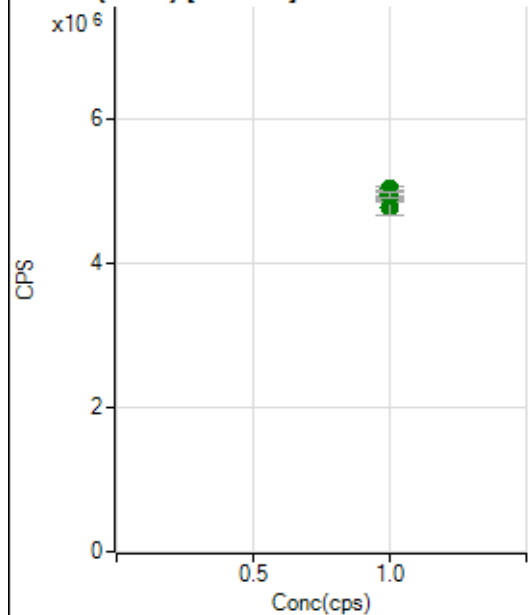
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		752146.00		P	0.8
2	☐	1.000		756432.80		P	1.1
3	☐	1.000		753199.28		P	1.8
4	☐	1.000		733346.05		P	0.9
5	☐	1.000		722596.43		P	1.3
6	☐	1.000		721045.01		P	0.8
7	☐	1.000		703714.30		P	0.0
8	☐	1.000		706817.89		P	0.9

159 Tb (ISTD) [No Gas]

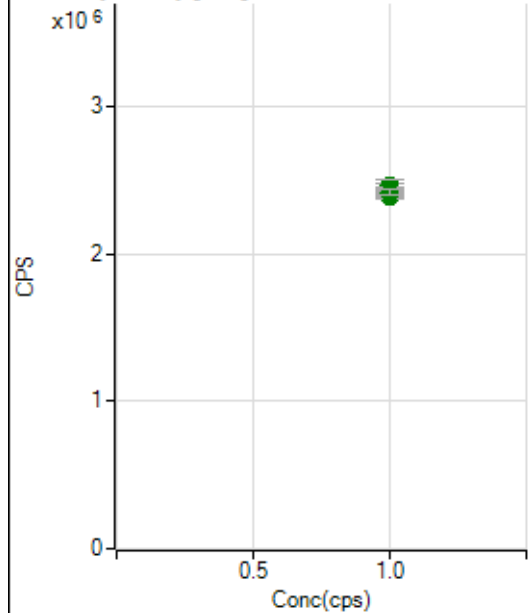
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5227124.75		A	2.6
2	☐	1.000		5133948.05		A	2.3
3	☐	1.000		5109535.72		A	6.6
4	☐	1.000		5200488.22		A	1.2
5	☐	1.000		5255097.15		A	0.6
6	☐	1.000		5224761.55		A	6.2
7	☐	1.000		5240325.20		A	2.0
8	☐	1.000		5230128.74		A	1.6

159 Tb (ISTD) [He]

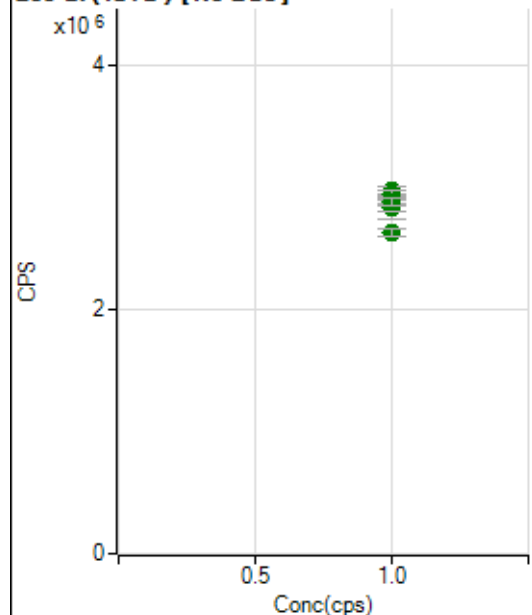
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2403494.81		A	1.4
2	☐	1.000		2421799.76		A	1.3
3	☐	1.000		2410512.78		A	2.4
4	☐	1.000		2359742.86		A	2.4
5	☐	1.000		2361641.61		A	0.1
6	☐	1.000		2446508.33		A	0.8
7	☐	1.000		2424169.50		A	0.4
8	☐	1.000		2420333.97		A	1.1

165 Ho (ISTD) [No Gas]

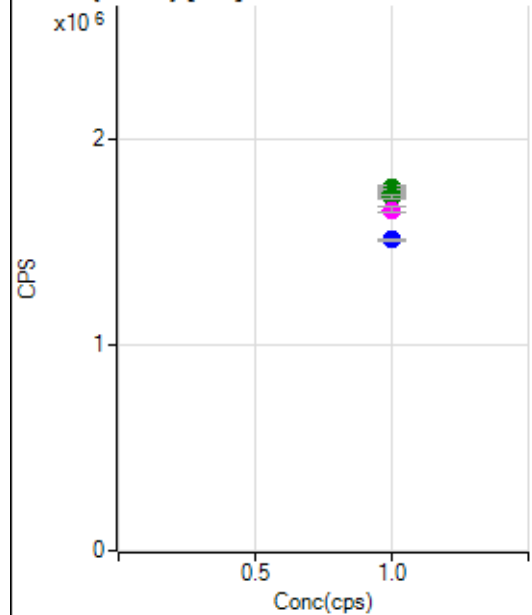
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4875804.88		A	1.2
2	☐	1.000		4928530.75		A	2.8
3	☐	1.000		4767362.39		A	4.7
4	☐	1.000		4961131.06		A	1.4
5	☐	1.000		5027555.54		A	1.3
6	☐	1.000		5002124.11		A	2.8
7	☐	1.000		5004734.75		A	0.7
8	☐	1.000		4938008.88		A	1.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2395675.28		A	0.4
2	☐	1.000		2451152.08		A	2.3
3	☐	1.000		2386802.93		A	1.2
4	☐	1.000		2421651.59		A	0.8
5	☐	1.000		2465377.97		A	3.7
6	☐	1.000		2417744.76		A	1.8
7	☐	1.000		2443258.16		A	1.4
8	☐	1.000		2423954.18		A	1.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2922857.42		A	0.3
2	☐	1.000		2947550.27		A	2.6
3	☐	1.000		2837584.28		A	7.0
4	☐	1.000		2976839.68		A	2.1
5	☐	1.000		2944069.85		A	2.1
6	☐	1.000		2843962.39		A	2.3
7	☐	1.000		2889794.51		A	2.5
8	☐	1.000		2636691.73		A	2.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1764356.55		A	0.6
2	☐	1.000		1757990.75		A	1.9
3	☐	1.000		1733879.56		A	1.1
4	☐	1.000		1734421.71		A	1.8
5	☐	1.000		1737854.12		A	2.7
6	☐	1.000		1722891.14		A	1.1
7	☐	1.000		1656978.90		M	1.7
8	☐	1.000		1511673.81		P	0.2

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8020923 MS.b

Acq. Date-Time 2023-02-09 08:09:52

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		9280	92799.54			0.837	5.000
24		54658	546582.17			1.710	5.000
25		7398	73976.23			1.301	5.000
26		8719	87193.67			0.930	5.000
59		38325	383252.39			1.014	5.000
113		3694	36935.21			1.329	5.000
115		46497	464974.81			0.994	5.000
206		8524	85241.72			0.784	5.000
207		7664	76639.80			1.364	5.000
208		18560	185601.99			1.790	5.000
220		1	6.50			29.291	

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

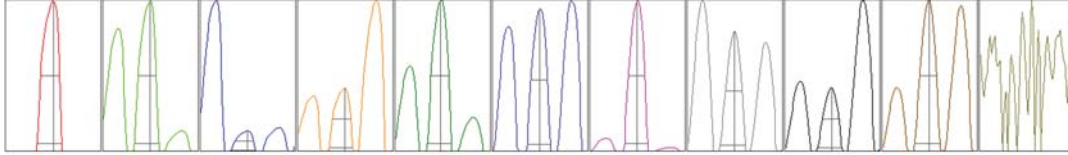
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	9403	9292	9217	9211	9277
24	56281	54022	54588	54076	54323
25	7547	7427	7363	7292	7360
26	8820	8690	8603	8721	8763
59	39016	38162	38209	38082	38158
113	3752	3742	3653	3657	3664
115	47214	46554	46014	46176	46530
206	8612	8478	8497	8457	8576
207	7773	7603	7537	7636	7770
208	18737	18538	18013	18628	18885

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	16368.52	9.05	8.90 - 9.10	
24	100438.21	24.00	23.90 - 24.10	
25	13483.61	25.00	24.90 - 25.10	
26	15356.69	26.00	25.90 - 26.10	
59	72319.35	58.95	58.90 - 59.10	
113	7441.23	113.00	112.90 - 113.10	
115	94020.53	115.00	114.90 - 115.10	
206	16901.23	206.00	205.90 - 206.10	
207	15287.74	207.00	206.90 - 207.10	
208	36224.79	208.00	207.90 - 208.10	
220	0.00	220.25	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.778	0.900	
24	0.57	0.777	0.900	
25	0.58	0.744	0.900	
26	0.60	0.741	0.900	
59	0.56	0.765	0.900	
113	0.52	0.726	0.900	
115	0.51	0.729	0.900	
206	0.52	0.798	0.900	
207	0.52	0.747	0.900	
208	0.53	0.805	0.900	
220	0.75	0.750		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 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	8.6 V	Deflect	16.0 V
Extract 2	-160.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-90 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	140 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.9 mm
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EM

Discriminator	4.3 mV	Analog HV	2311 V	Pulse HV	1674 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		7882	78816.74			2.114	
89		8797	87970.29			2.424	
205		6302	63023.22			2.918	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	7906	7911	7595	7979	8016
89	8796	8751	8471	8937	9029
205	6318	6315	6006	6361	6512

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 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	8.6 V	Deflect	4.6 V
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US EPA Tune Check Report

Extract 2	-160.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-90 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	123	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.9 mm
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EM

Discriminator	4.3 mV	Analog HV	2311 V	Pulse HV	1674 V
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