3 Zn 213.856	35.2	247.6	0.0024 mg/L	0.0024 ppm	

ean Data

D: 3234-2 F=1 Seq. No.: 15 Sample No.: 38 A/S Pos: 47
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 5/19/03 3:10:04 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	14.1	0.0001	0.00027	mg/L	0.0001	0.00027	ppm	268.48%
l 308.215	-104.8	-0.0046	0.00767	mg/L	-0.0046	0.00767	ppm	167.27%
s 188.979	-6.5	-0.0005	0.00235	mg/L	-0.0005	0.00235	ppm	521.06%
a 233.527	6813.4	0.0178	0.00047	mg/L	0.0178	0.00047	ppm	2.62%
e 313.107	-851.4	-0.0004	0.00004	mg/L	-0.0004	0.00004	ppm	12.39%
a 227.547	7257.8	46.95	1.546	mg/L	46.95	1.546	ppm	3.29%
d 228.802	10.3	0.0001	0.00006	mg/L	0.0001	0.00006	ppm	70.60%
o 228.616	18.3	0.0002	0.00007	mg/L	0.0002	0.00007	ppm	34.78%
r 267.716	-35.3	-0.0005	0.00052	mg/L	-0.0005	0.00052	ppm	96.22%
u 324.754	133190.8	0.5635	0.00708	mg/L	0.5635	0.00708	ppm	1.26%
e 273.955	45.2	0.0015	0.00122	mg/L	0.0015	0.00122	ppm	82.92%
766.491	32641.3	2.846	0.0560	mg/L	2.846	0.0560	ppm	1.97%
g 279.079	378396.7	8.681	0.1924	mg/L	8.681	0.1924	ppm	2.22%
n 257.610	-305.2	-0.0003	0.00003	mg/L	-0.0003	0.00003	ppm	11.06%
o 202.030	87.2	0.0063	0.00018	mg/L	0.0063	0.00018	ppm	2.83%
a 330.237	3889.6	8.650	0.1632	mg/L	8.650	0.1632	ppm	1.89%
i 231.604	-14.6	-0.0003	0.00027	mg/L	-0.0003	0.00027	ppm	93.10%
o 220.353	-43.7	-0.0025	0.00091	mg/L	-0.0025	0.00091	ppm	35.89%
o 206.833	-3.5	-0.0009	0.00191	mg/L	-0.0009	0.00191	ppm	224.54%
e 196.026	-6.0	-0.0020	0.00449	mg/L	-0.0020	0.00449	ppm	224.86%
l 190.800	-6.4	-0.0020	0.00093	mg/L	-0.0020	0.00093	ppm	45.85%
292.402	2.1	0.0000	0.00071	mg/L	0.0000	0.00071	ppm	>999.9%
n 213.856	265.5	0.0026	0.00015	mg/L	0.0026	0.00015	ppm	5.85%

eplicate Data

D: ICSA 1441 Date: 5/19/03 3:13:21 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	2625.6	-1166.4	-0.0082	mg/L		
1	Al 308.215	11526549.2	11521895.5	504.3	mg/L		
1	As 188.979	201.6	48.5	0.0119	mg/L		
1	Ba 233.527	2376.1	1605.9	0.0042	mg/L		
1	Be 313.107	1215.8	-866.1	-0.0004	mg/L		
1	Ca 227.547	78126.8	77725.6	507.6	mg/L		
1	Cd 228.802	80.4	-15.5	-0.0001	mg/L		
1	Co 228.616	-285.3	261.2	0.0029	mg/L		
1	Cr 267.716	101.6	293.9	0.0045	mg/L		
1	Cu 324.754	3747.3	796.8	0.0078	mg/L		
1	Fe 273.955	6305302.3	6305207.7	204.5	mg/L		
1	K 766.491	1578.7	2021.7	0.2712	mg/L		
1	Mg 279.079	21882285.9	21880050.7	502.0	mg/L		
1	Mn 257.610	9034.1	6762.8	0.0009	mg/L		
1	Mo 202.030	-633.1	-176.4	-0.0178	mg/L		
1	Na 330.237	-141.7	682.0	1.974	mg/L		
1	Ni 231.604	-646.3	-115.3	-0.0023	mg/L		
1	Pb 220.353	-662.7	-816.3	-0.0119	mg/L		
1	Sb 206.833	136.5	25.8	-0.0126	mg/L		
1	Se 196.026	931.6	290.4	0.0875	mg/L		
1	Tl 190.800	714.7	355.1	0.0016	mg/L		
1	V 292.402	-885.6	-159.7	0.0059	mg/L		
1	Zn 213.856	4313.5	4525.9	0.0187	mg/L		
2	Ag 328.068	2746.1	-1045.9	-0.0074	mg/L		
2	Al 308.215	11413866.7	11409213.0	499.3	mg/L		
2	As 188.979	179.2	26.1	0.0055	mg/L		
2	Ba 233.527	2609.5	1839.3	0.0048	mg/L		
2	Be 313.107	1195.8	-886.1	-0.0004	mg/L		
2	Ca 227.547	78629.6	78228.4	510.8	mg/L		
2	Cd 228.802	7.0	-88.9	-0.0007	mg/L		
2	Co 228.616	-130.5	416.0	0.0045	mg/L		
2	Cr 267.716	94.1	286.4	0.0044	mg/L		

2	Cu 324.754	3286.4	336.0	0.0057	mg/L
2	Fe 273.955	6224730.2	6224635.6	201.9	mg/L
2	K 766.491	961.5	1404.4	0.2182	mg/L
2	Mg 279.079	21557905.9	21555670.7	494.5	mg/L
2	Mn 257.610	8734.8	6463.5	0.0007	mg/L
2	Mo 202.030	-550.0	-93.4	-0.0117	mg/L
2	Na 330.237	-523.4	300.3	1.180	mg/L
2	Ni 231.604	-439.0	92.0	0.0019	mg/L
2	Pb 220.353	-749.5	-903.1	-0.0172	mg/L
2	Sb 206.833	236.9	126.2	0.0123	mg/L
2	Se 196.026	860.1	218.9	0.0636	mg/L
2	Tl 190.800	651.4	291.8	-0.0171	mg/L
2	V 292.402	-799.3	-73.5	0.0069	mg/L
2	Zn 213.856	4682.4	4894.7	0.0226	mg/L
3	Ag 328.068	2748.1	-1043.8	-0.0074	mg/L
3	Al 308.215	11163119.3	11158465.6	488.4	mg/L
3	As 188.979	199.3	46.1	0.0122	mg/L
3	Ba 233.527	2422.6	1652.5	0.0043	mg/L
3	Be 313.107	1191.4	-890.5	-0.0004	mg/L
3	Ca 227.547	80768.3	80367.1	524.6	mg/L
3	Cd 228.802	141.1	45.1	0.0004	mg/L
3	Co 228.616	-137.1	409.4	0.0045	mg/L
3	Cr 267.716	196.2	388.6	0.0059	mg/L
3	Cu 324.754	3449.3	498.8	0.0103	mg/L
3	Fe 273.955	6073914.7	6073820.1	197.0	mg/L
3	K 766.491	1374.9	1817.8	0.2537	mg/L
3	Mg 279.079	20994450.9	20992215.7	481.6	mg/L
3	Mn 257.610	9030.5	6759.3	-0.0019	mg/L
3	Mo 202.030	-535.4	-78.8	-0.0105	mg/L
3	Na 330.237	-523.4	300.3	1.180	mg/L
3	Ni 231.604	-561.4	-30.4	-0.0006	mg/L
3	Pb 220.353	-770.6	-924.2	-0.0191	mg/L
3	Sb 206.833	121.7	11.0	-0.0154	mg/L
3	Se 196.026	929.5	288.3	0.0868	mg/L
3	Tl 190.800	688.4	328.8	-0.0027	mg/L
3	V 292.402	-973.3	-247.4	0.0046	mg/L
3	Zn 213.856	4639.9	4852.2	0.0228	mg/L

ean Data ----------

D: ICSA 1441 Seq. No.: 16 Sample No.: 3 A/S Pos: 7
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 5/19/03 3:13:21 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	-1085.4	-0.0077	0.00050	mg/L				6.46%
l 308.215	11363191.4	497.3	8.14	mg/L				1.64%
s 188.979	40.2	0.0099	0.00380	mg/L				38.61%
a 233.527	1699.2	0.0044	0.00032	mg/L				7.27%
e 313.107	-880.9	-0.0004	0.00001	mg/L				1.48%
a 227.547	78773.7	514.3	8.99	mg/L				1.75%
d 228.802	-19.8	-0.0002	0.00056	mg/L				339.76%
o 228.616	362.2	0.0040	0.00096	mg/L				24.17%
r 267.716	323.0	0.0049	0.00087	mg/L				17.63%
u 324.754	543.9	0.0079	0.00228	mg/L				28.78%
e 273.955	6201221.1	201.2	3.81	mg/L				1.89%
766.491	1748.0	0.2477	0.02702	mg/L				10.91%
g 279.079	21475979.0	492.7	10.31	mg/L				2.09%
n 257.610	6661.9	-0.0001	0.00153	mg/L				>999.9%
o 202.030	-116.2	-0.0133	0.00389	mg/L				29.25%
a 330.237	427.5	1.445	0.4586	mg/L				31.74%
i 231.604	-17.9	-0.0004	0.00210	mg/L				582.69%
b 220.353	-881.2	-0.0161	0.00375	mg/L				23.29%
b 206.833	54.3	-0.0052	0.01526	mg/L				291.52%
e 196.026	265.8	0.0793	0.01360	mg/L				17.16%
l 190.800	325.3	-0.0061	0.00983	mg/L				161.58%
292.402	-160.2	0.0058	0.00115	mg/L				19.81%
n 213.856	4757.6	0.0214	0.00233	mg/L				10.89%

eplicate Data ----------

D: ICSAB 1443 Date: 5/19/03 3:16:08 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	144274.7	140482.7	0.9924	mg/L		
1	Al 308.215	11068809.2	11064155.5	484.2	mg/L		
1	As 188.979	3101.0	2947.9	0.8762	mg/L		
1	Ba 233.527	205775.1	205004.9	0.5344	mg/L		
1	Be 313.107	1145099.4	1143017.5	0.4783	mg/L		
1	Ca 227.547	75224.7	74823.6	488.6	mg/L		
1	Cd 228.802	108526.3	108430.4	0.9080	mg/L		
1	Co 228.616	41008.6	41555.1	0.4543	mg/L		
1	Cr 267.716	33101.7	33294.0	0.5059	mg/L		
1	Cu 324.754	115057.2	112106.7	0.4822	mg/L		
1	Fe 273.955	5891738.5	5891643.9	191.1	mg/L		
1	K 766.491	698.5	1141.5	0.1956	mg/L		
1	Mg 279.079	20547848.8	20545613.6	471.4	mg/L		
1	Mn 257.610	583747.0	581475.8	0.4729	mg/L		
1	Mo 202.030	12417.4	12874.0	0.9279	mg/L		
1	Na 330.237	-340.4	483.3	1.561	mg/L		
1	Ni 231.604	41998.7	42529.7	0.8574	mg/L		
1	Pb 220.353	15282.1	15128.5	0.9099	mg/L		
1	Sb 206.833	3979.0	3868.3	0.9167	mg/L		
1	Se 196.026	3807.2	3166.0	1.047	mg/L		
1	Tl 190.800	3498.3	3138.7	0.8891	mg/L		
1	V 292.402	39979.5	40705.3	0.4983	mg/L		
1	Zn 213.856	99231.1	99443.5	0.9437	mg/L		
2	Ag 328.068	144351.2	140559.3	0.9929	mg/L		
2	Al 308.215	10779599.5	10774945.8	471.6	mg/L		
2	As 188.979	3065.7	2912.6	0.8663	mg/L		
2	Ba 233.527	206567.7	205797.6	0.5365	mg/L		
2	Be 313.107	1147658.6	1145576.8	0.4793	mg/L		
2	Ca 227.547	75411.5	75010.4	489.6	mg/L		
2	Cd 228.802	108383.1	108287.2	0.9068	mg/L		
2	Co 228.616	41002.9	41549.5	0.4543	mg/L		
2	Cr 267.716	33239.5	33431.8	0.5080	mg/L		
2	Cu 324.754	115319.1	112368.6	0.4831	mg/L		
2	Fe 273.955	5740932.2	5740837.6	186.2	mg/L		
2	K 766.491	1084.7	1527.6	0.2288	mg/L		
2	Mg 279.079	19964653.6	19962418.5	458.0	mg/L		
2	Mn 257.610	583983.7	581712.5	0.4733	mg/L		
2	Mo 202.030	12208.2	12664.8	0.9128	mg/L		
2	Na 330.237	-290.1	533.5	1.666	mg/L		
2	Ni 231.604	41788.4	42319.4	0.8531	mg/L		
2	Pb 220.353	15447.4	15293.8	0.9186	mg/L		
2	Sb 206.833	4090.6	3979.8	0.9445	mg/L		
2	Se 196.026	3885.9	3244.7	1.073	mg/L		
2	Tl 190.800	3461.4	3101.8	0.8803	mg/L		
2	V 292.402	39901.5	40627.4	0.4972	mg/L		
2	Zn 213.856	99165.6	99378.0	0.9437	mg/L		
3	Ag 328.068	143858.8	140066.8	0.9895	mg/L		
3	Al 308.215	10863696.7	10859043.0	475.3	mg/L		
3	As 188.979	2968.7	2815.5	0.8373	mg/L		
3	Ba 233.527	206098.2	205328.1	0.5353	mg/L		
3	Be 313.107	1144935.2	1142853.3	0.4782	mg/L		
3	Ca 227.547	75242.4	74841.2	488.6	mg/L		
3	Cd 228.802	108083.9	107988.0	0.9043	mg/L		
3	Co 228.616	40975.2	41521.8	0.4539	mg/L		
3	Cr 267.716	33007.5	33199.8	0.5045	mg/L		
3	Cu 324.754	114914.4	111963.9	0.4815	mg/L		
3	Fe 273.955	5783210.4	5783115.8	187.6	mg/L		
3	K 766.491	1791.2	2234.1	0.2894	mg/L		
3	Mg 279.079	20143650.7	20141415.5	462.1	mg/L		
3	Mn 257.610	582370.3	580099.1	0.4719	mg/L		
3	Mo 202.030	11562.8	12019.5	0.8661	mg/L		
3	Na 330.237	-322.4	501.3	1.598	mg/L		
3	Ni 231.604	41664.1	42195.1	0.8506	mg/L		
3	Pb 220.353	14398.7	14245.1	0.8581	mg/L		
3	Sb 206.833	3779.3	3668.6	0.8681	mg/L		
3	Se 196.026	3657.2	3016.0	0.9967	mg/L		

3 Tl 190.800	3360.6	3001.1	0.8475	mg/L
3 V 292.402	39928.1	40654.0	0.4976	mg/L
3 Zn 213.856	98732.3	98944.6	0.9393	mg/L

ean Data ----------

D: ICSAB 1443 Seq. No.: 17 Sample No.: 4 A/S Pos: 8
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 5/19/03 3:16:08 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	140369.6	0.9916	0.00187	mg/L				0.19%
l 308.215	10899381.4	477.0	6.51	mg/L				1.36%
s 188.979	2892.0	0.8599	0.02024	mg/L				2.35%
a 233.527	205376.9	0.5354	0.00104	mg/L				0.19%
e 313.107	1143815.9	0.4786	0.00064	mg/L				0.13%
a 227.547	74891.7	488.9	0.62	mg/L				0.13%
d 228.802	108235.2	0.9063	0.00189	mg/L				0.21%
o 228.616	41542.1	0.4542	0.00020	mg/L				0.04%
r 267.716	33308.6	0.5061	0.00177	mg/L				0.35%
u 324.754	112146.4	0.4823	0.00083	mg/L				0.17%
e 273.955	5805199.1	188.3	2.52	mg/L				1.34%
766.491	1634.4	0.2379	0.04761	mg/L				20.01%
g 279.079	20216482.5	463.8	6.85	mg/L				1.48%
n 257.610	581095.8	0.4727	0.00072	mg/L				0.15%
o 202.030	12519.5	0.9023	0.03224	mg/L				3.57%
a 330.237	506.0	1.608	0.0530	mg/L				3.29%
i 231.604	42348.1	0.8537	0.00341	mg/L				0.40%
b 220.353	14889.2	0.8955	0.03268	mg/L				3.65%
b 206.833	3838.9	0.9098	0.03869	mg/L				4.25%
e 196.026	3142.2	1.039	0.0388	mg/L				3.73%
l 190.800	3080.5	0.8723	0.02191	mg/L				2.51%
292.402	40662.2	0.4977	0.00057	mg/L				0.12%
n 213.856	99255.4	0.9423	0.00254	mg/L				0.27%

eplicate Data ----------

D: CCV 1447B Date: 5/19/03 3:19:15 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	151325.9	147534.0	1.042	mg/L		
1	Al 308.215	131513.8	126860.1	5.552	mg/L		
1	As 188.979	1694.8	1541.7	0.4634	mg/L		
1	Ba 233.527	2101844.7	2101074.6	5.477	mg/L		
1	Be 313.107	1202323.0	1200241.1	0.5022	mg/L		
1	Ca 227.547	8650.8	8249.7	53.37	mg/L		
1	Cd 228.802	119171.4	119075.5	0.9971	mg/L		
1	Co 228.616	185180.6	185727.2	2.031	mg/L		
1	Cr 267.716	34928.7	35121.0	0.5337	mg/L		
1	Cu 324.754	491619.0	488668.6	2.067	mg/L		
1	Fe 273.955	173829.5	173734.9	5.636	mg/L		
1	K 766.491	213948.5	214391.5	16.38	mg/L		
1	Mg 279.079	1156834.6	1154599.4	26.49	mg/L		
1	Mn 257.610	2512010.3	2509739.1	2.072	mg/L		
1	Mo 202.030	28202.9	28659.6	2.076	mg/L		
1	Na 330.237	50570.0	51393.7	107.6	mg/L		
1	Ni 231.604	98063.0	98594.0	1.988	mg/L		
1	Pb 220.353	8853.0	8699.4	0.5036	mg/L		
1	Sb 206.833	8203.2	8092.4	1.970	mg/L		
1	Se 196.026	2241.4	1600.1	0.5340	mg/L		
1	Tl 190.800	1935.5	1575.9	0.4994	mg/L		
1	V 292.402	177234.4	177960.2	2.146	mg/L		
1	Zn 213.856	209912.8	210125.2	2.044	mg/L		
2	Ag 328.068	154147.0	150355.0	1.062	mg/L		
2	Al 308.215	133605.9	128952.1	5.644	mg/L		
2	As 188.979	1711.2	1558.0	0.4684	mg/L		
2	Ba 233.527	2139230.0	2138459.9	5.575	mg/L		
2	Be 313.107	1224774.4	1222692.5	0.5116	mg/L		
2	Ca 227.547	8774.2	8373.1	54.17	mg/L		
2	Cd 228.802	121633.6	121537.6	1.018	mg/L		

2	Co 228.616	188640.1	189186.6	2.068 mg/L
2	Cr 267.716	35569.7	35762.1	0.5434 mg/L
2	Cu 324.754	501863.1	498912.6	2.111 mg/L
2	Fe 273.955	176201.8	176107.2	5.713 mg/L
2	K 766.491	222017.6	222460.5	16.93 mg/L
2	Mg 279.079	1177996.3	1175761.2	26.97 mg/L
2	Mn 257.610	2554829.4	2552558.1	2.108 mg/L
2	Mo 202.030	28750.2	29206.9	2.116 mg/L
2	Na 330.237	51412.3	52236.0	109.4 mg/L
2	Ni 231.604	99785.6	100316.6	2.022 mg/L
2	Pb 220.353	8921.0	8767.4	0.5075 mg/L
2	Sb 206.833	8253.0	8142.3	1.982 mg/L
2	Se 196.026	2249.4	1608.1	0.5366 mg/L
2	Tl 190.800	1936.5	1577.0	0.4998 mg/L
2	V 292.402	180401.7	181127.5	2.185 mg/L
2	Zn 213.856	214598.3	214810.7	2.090 mg/L

alibration Summary ----------
ethod: 23ME ICP-M Date: 5/19/03 3:23:13 PM

lement	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
g 328.068	3	Linear-thru-Zero	0.0	141560.1	0.00000	0.999728
l 308.215	3	Linear-thru-Zero	0.0	22848.4	0.00000	0.999059
s 188.979	3	Linear-thru-Zero	0.0	3369.3	0.00000	0.999593
a 233.527	3	Linear-thru-Zero	0.0	383601.2	0.00000	0.998246
e 313.107	3	Linear-thru-Zero	0.0	2389988.1	0.00000	0.999199
a 227.547	3	Linear-thru-Zero	0.0	154.6	0.00000	0.999321
d 228.802	3	Linear-thru-Zero	0.0	119422.2	0.00000	0.999514
o 228.616	3	Linear-thru-Zero	0.0	91468.2	0.00000	0.999179
r 267.716	3	Linear-thru-Zero	0.0	65807.8	0.00000	0.999441
u 324.754	3	Linear-thru-Zero	0.0	236369.0	0.00000	0.998962
e 273.955	3	Linear-thru-Zero	0.0	30827.1	0.00000	0.999259
766.491	3	Non-Linear	-1129.1	11592.4	95.59144	0.998189
g 279.079	3	Linear-thru-Zero	0.0	43588.0	0.00000	0.998511
n 257.610	3	Linear-thru-Zero	0.0	1211033.3	0.00000	0.999374
o 202.030	3	Linear-thru-Zero	0.0	13805.6	0.00000	0.999300
a 330.237	3	Non-Linear	-266.9	480.6	-0.00466	0.999913
i 231.604	3	Linear-thru-Zero	0.0	49605.5	0.00000	0.999024
o 220.353	3	Linear-thru-Zero	0.0	17274.3	0.00000	0.999471
o 206.833	3	Linear-thru-Zero	0.0	4074.8	0.00000	0.999516
e 196.026	3	Linear-thru-Zero	0.0	2996.7	0.00000	0.998913
l 190.800	3	Linear-thru-Zero	0.0	3155.4	0.00000	0.999540
292.402	3	Linear-thru-Zero	0.0	82909.5	0.00000	0.999528
n 213.856	3	Linear-thru-Zero	0.0	102792.5	0.00000	0.999523

eplicate Data ----------
): CCV 1447B Date: 5/19/03 3:24:39 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	147931.3	144139.4	1.018	mg/L		
1	Al 308.215	127161.2	122507.5	5.362	mg/L		
1	As 188.979	1661.6	1508.5	0.4535	mg/L		
1	Ba 233.527	2049909.6	2049139.5	5.342	mg/L		
1	Be 313.107	1173027.4	1170945.5	0.4899	mg/L		
1	Ca 227.547	8332.6	7931.4	51.31	mg/L		
1	Cd 228.802	115772.3	115676.4	0.9686	mg/L		
1	Co 228.616	180750.1	181296.7	1.982	mg/L		
1	Cr 267.716	34310.2	34502.6	0.5243	mg/L		
1	Cu 324.754	478920.0	475969.6	2.014	mg/L		
1	Fe 273.955	167989.1	167894.5	5.446	mg/L		
1	K 766.491	217301.8	217744.7	16.61	mg/L		
1	Mg 279.079	1124344.5	1122109.3	25.74	mg/L		
1	Mn 257.610	2447203.7	2444932.4	2.019	mg/L		
1	Mo 202.030	27565.3	28022.0	2.030	mg/L		
1	Na 330.237	49132.3	49956.0	104.6	mg/L		
1	Ni 231.604	95460.8	95991.8	1.935	mg/L		
1	Pb 220.353	8719.3	8565.7	0.4959	mg/L		
1	Sb 206.833	8024.9	7914.2	1.927	mg/L		

1	Se 196.026	2190.6	1549.3	0.5170 mg/L
1	Tl 190.800	1903.0	1543.4	0.4891 mg/L
1	V 292.402	173121.0	173846.8	2.097 mg/L
1	Zn 213.856	204684.0	204896.3	1.993 mg/L
2	Ag 328.068	142701.9	138909.9	0.9813 mg/L
2	Al 308.215	122873.6	118219.8	5.174 mg/L
2	As 188.979	1658.3	1505.1	0.4522 mg/L
2	Ba 233.527	1977170.3	1976400.1	5.152 mg/L
2	Be 313.107	1134043.1	1131961.3	0.4736 mg/L
2	Ca 227.547	8109.0	7707.8	49.86 mg/L
2	Cd 228.802	112437.0	112341.0	0.9407 mg/L
2	Co 228.616	174335.7	174882.3	1.912 mg/L
2	Cr 267.716	32786.3	32978.7	0.5011 mg/L
2	Cu 324.754	464012.0	461061.5	1.951 mg/L
2	Fe 273.955	161980.2	161885.6	5.251 mg/L
2	K 766.491	220324.8	220767.8	16.81 mg/L
2	Mg 279.079	1085026.8	1082791.6	24.84 mg/L
2	Mn 257.610	2359210.0	2356938.7	1.946 mg/L
2	Mo 202.030	26560.2	27016.9	1.957 mg/L
2	Na 330.237	47350.7	48174.4	100.9 mg/L
2	Ni 231.604	92542.7	93073.7	1.876 mg/L
2	Pb 220.353	8668.3	8514.7	0.4929 mg/L
2	Sb 206.833	8021.7	7911.0	1.927 mg/L
2	Se 196.026	2177.3	1536.0	0.5126 mg/L
2	Tl 190.800	1880.8	1521.3	0.4821 mg/L
2	V 292.402	166558.0	167283.9	2.018 mg/L
2	Zn 213.856	198142.5	198354.8	1.930 mg/L
3	Ag 328.068	149995.3	146203.3	1.033 mg/L
3	Al 308.215	129040.0	124386.3	5.444 mg/L
3	As 188.979	1678.3	1525.2	0.4585 mg/L
3	Ba 233.527	2079377.2	2078607.0	5.419 mg/L
3	Be 313.107	1191494.4	1189412.5	0.4977 mg/L
3	Ca 227.547	8532.8	8131.6	52.60 mg/L
3	Cd 228.802	118256.1	118160.2	0.9894 mg/L
3	Co 228.616	183345.3	183891.8	2.010 mg/L
3	Cr 267.716	34607.4	34799.8	0.5288 mg/L
3	Cu 324.754	488368.1	485417.6	2.054 mg/L
3	Fe 273.955	170171.7	170077.1	5.517 mg/L
3	K 766.491	209073.7	209516.6	16.05 mg/L
3	Mg 279.079	1140694.4	1138459.2	26.12 mg/L
3	Mn 257.610	2479604.5	2477333.3	2.046 mg/L
3	Mo 202.030	27948.6	28405.2	2.058 mg/L
3	Na 330.237	50172.3	50996.0	106.8 mg/L
3	Ni 231.604	97218.8	97749.8	1.971 mg/L
3	Pb 220.353	8676.0	8522.4	0.4934 mg/L
3	Sb 206.833	8037.2	7926.5	1.930 mg/L
3	Se 196.026	2187.1	1545.8	0.5158 mg/L
3	Tl 190.800	1897.2	1537.7	0.4873 mg/L
3	V 292.402	174705.3	175431.2	2.116 mg/L
3	Zn 213.856	208983.2	209195.6	2.035 mg/L

ean Data ----------

): CCV 1447B Seq. No.: 18 Sample No.: 5 A/S Pos: 6
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 5/19/03 3:24:39 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	143084.2	1.011	0.0266	mg/L				2.63%
l 308.215	121704.5	5.327	0.1383	mg/L				2.60%
s 188.979	1512.9	0.4547	0.00331	mg/L				0.73%
a 233.527	2034715.5	5.304	0.1371	mg/L				2.59%
e 313.107	1164106.4	0.4871	0.01227	mg/L				2.52%
a 227.547	7923.6	51.26	1.372	mg/L				2.68%
d 228.802	115392.5	0.9663	0.02445	mg/L				2.53%
o 228.616	180023.6	1.968	0.0507	mg/L				2.58%
r 267.716	34093.7	0.5181	0.01485	mg/L				2.87%
u 324.754	474149.6	2.006	0.0520	mg/L				2.59%
e 273.955	166619.1	5.405	0.1376	mg/L				2.55%
766.491	216009.7	16.49	0.395	mg/L				2.40%

g 279.079	1114453.4	25.57	0.656	mg/L	2.57%
n 257.610	2426401.5	2.004	0.0514	mg/L	2.57%
o 202.030	27814.7	2.015	0.0519	mg/L	2.58%
a 330.237	49708.8	104.1	2.98	mg/L	2.86%
i 231.604	95605.1	1.927	0.0476	mg/L	2.47%
b 220.353	8534.3	0.4940	0.00159	mg/L	0.32%
b 206.833	7917.2	1.928	0.0017	mg/L	0.09%
e 196.026	1543.7	0.5151	0.00231	mg/L	0.45%
l 190.800	1534.1	0.4862	0.00365	mg/L	0.75%
292.402	172187.3	2.077	0.0521	mg/L	2.51%
n 213.856	204148.9	1.986	0.0531	mg/L	2.67%

eplicate Data ----------
D: CCB Date: 5/19/03 3:28:09 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	3921.8	129.8	0.0009	mg/L		
1	Al 308.215	4657.6	3.8	0.0002	mg/L		
1	As 188.979	144.6	-8.6	-0.0025	mg/L		
1	Ba 233.527	907.1	137.0	0.0004	mg/L		
1	Be 313.107	2306.8	224.9	0.0001	mg/L		
1	Ca 227.547	323.4	-77.8	-0.5031	mg/L		
1	Cd 228.802	141.3	45.4	0.0004	mg/L		
1	Co 228.616	-463.5	83.0	0.0009	mg/L		
1	Cr 267.716	-223.7	-31.3	-0.0005	mg/L		
1	Cu 324.754	3530.2	579.7	0.0025	mg/L		
1	Fe 273.955	577.2	482.6	0.0157	mg/L		
1	K 766.491	86.6	529.6	0.1429	mg/L		
1	Mg 279.079	5136.2	2901.0	0.0666	mg/L		
1	Mn 257.610	2701.3	430.0	0.0004	mg/L		
1	Mo 202.030	-424.4	32.3	0.0023	mg/L		
1	Na 330.237	-893.6	-70.0	0.4097	mg/L		
1	Ni 231.604	-520.5	10.5	0.0002	mg/L		
1	Pb 220.353	98.3	-55.3	-0.0032	mg/L		
1	Sb 206.833	115.5	4.8	0.0012	mg/L		
1	Se 196.026	608.5	-32.7	-0.0109	mg/L		
1	Tl 190.800	343.0	-16.6	-0.0053	mg/L		
1	V 292.402	-810.5	-84.7	-0.0010	mg/L		
1	Zn 213.856	-201.1	11.3	0.0001	mg/L		
2	Ag 328.068	4046.4	254.5	0.0018	mg/L		
2	Al 308.215	4667.8	14.1	0.0006	mg/L		
2	As 188.979	151.1	-2.1	-0.0006	mg/L		
2	Ba 233.527	877.3	107.2	0.0003	mg/L		
2	Be 313.107	2058.5	-23.4	0.0000	mg/L		
2	Ca 227.547	318.6	-82.5	-0.5338	mg/L		
2	Cd 228.802	158.3	62.4	0.0005	mg/L		
2	Co 228.616	-469.0	77.5	0.0008	mg/L		
2	Cr 267.716	-143.8	48.6	0.0007	mg/L		
2	Cu 324.754	3323.8	373.3	0.0016	mg/L		
2	Fe 273.955	501.9	407.3	0.0132	mg/L		
2	K 766.491	-5.6	437.4	0.1350	mg/L		
2	Mg 279.079	5602.6	3367.4	0.0773	mg/L		
2	Mn 257.610	2310.5	39.2	0.0000	mg/L		
2	Mo 202.030	-431.1	25.5	0.0019	mg/L		
2	Na 330.237	-753.4	70.2	0.7014	mg/L		
2	Ni 231.604	-503.0	28.0	0.0006	mg/L		
2	Pb 220.353	107.8	-45.8	-0.0027	mg/L		
2	Sb 206.833	122.7	12.0	0.0029	mg/L		
2	Se 196.026	615.9	-25.3	-0.0084	mg/L		
2	Tl 190.800	331.4	-28.2	-0.0089	mg/L		
2	V 292.402	-853.8	-127.9	-0.0015	mg/L		
2	Zn 213.856	-203.3	9.1	0.0001	mg/L		
3	Ag 328.068	3962.7	170.7	0.0012	mg/L		
3	Al 308.215	4746.9	93.1	0.0041	mg/L		
3	As 188.979	147.3	-5.8	-0.0017	mg/L		
3	Ba 233.527	641.9	-128.2	-0.0003	mg/L		
3	Be 313.107	2172.2	90.4	0.0000	mg/L		
3	Ca 227.547	318.5	-82.7	-0.5347	mg/L		

3 Cd 228.802	153.3	57.4	0.0005	mg/L
3 Co 228.616	-470.6	75.9	0.0008	mg/L
3 Cr 267.716	-199.5	-7.2	-0.0001	mg/L
3 Cu 324.754	2899.6	-50.9	-0.0002	mg/L
3 Fe 273.955	446.6	352.0	0.0114	mg/L
3 K 766.491	-107.9	335.1	0.1262	mg/L
3 Mg 279.079	5556.1	3321.0	0.0762	mg/L
3 Mn 257.610	2249.7	-21.5	0.0000	mg/L
3 Mo 202.030	-428.2	28.5	0.0021	mg/L
3 Na 330.237	-826.3	-2.6	0.5499	mg/L
3 Ni 231.604	-526.4	4.6	0.0001	mg/L
3 Pb 220.353	103.3	-50.3	-0.0029	mg/L
3 Sb 206.833	112.4	1.7	0.0004	mg/L
3 Se 196.026	617.8	-23.4	-0.0078	mg/L
3 Tl 190.800	346.8	-12.8	-0.0041	mg/L
3 V 292.402	-615.5	110.4	0.0013	mg/L
3 Zn 213.856	-220.4	-8.0	-0.0001	mg/L

ean Data ----------

D: CCB Seq. No.: 19 Sample No.: 6 A/S Pos: 1
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 5/19/03 3:28:09 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	185.0	0.0013	0.00045	mg/L				34.34%
l 308.215	37.0	0.0016	0.00214	mg/L				132.01%
s 188.979	-5.5	-0.0016	0.00097	mg/L				59.35%
a 233.527	38.6	0.0001	0.00038	mg/L				375.88%
e 313.107	97.3	0.0000	0.00005	mg/L				127.77%
a 227.547	-81.0	-0.5239	0.01801	mg/L				3.44%
d 228.802	55.0	0.0005	0.00007	mg/L				15.87%
o 228.616	78.8	0.0009	0.00004	mg/L				4.71%
r 267.716	3.4	0.0001	0.00062	mg/L				>999.9%
u 324.754	300.7	0.0013	0.00136	mg/L				106.90%
e 273.955	414.0	0.0134	0.00213	mg/L				15.83%
766.491	434.0	0.1347	0.00837	mg/L				6.22%
g 279.079	3196.5	0.0733	0.00589	mg/L				8.04%
n 257.610	149.3	0.0001	0.00020	mg/L				164.18%
o 202.030	28.8	0.0021	0.00024	mg/L				11.70%
a 330.237	-0.8	0.5537	0.14592	mg/L				26.35%
i 231.604	14.3	0.0003	0.00025	mg/L				84.76%
b 220.353	-50.5	-0.0029	0.00027	mg/L				9.36%
b 206.833	6.1	0.0015	0.00130	mg/L				86.18%
e 196.026	-27.2	-0.0091	0.00164	mg/L				18.12%
QC exceeds lower limit for Se 196.026		Action = Continue						
l 190.800	-19.2	-0.0061	0.00254	mg/L				41.77%
292.402	-34.1	-0.0004	0.00153	mg/L				372.66%
n 213.856	4.1	0.0000	0.00010	mg/L				255.74%

eplicate Data ----------

D: DLC A1427 Date: 5/19/03 3:31:48 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	3233.3	-558.6	-0.0039	mg/L	-0.0039	ppm
1 Al 308.215	15459.1	10805.4	0.4729	mg/L	0.4729	ppm
1 As 188.979	30055.1	29902.0	9.278	mg/L	9.278	ppm
1 Ba 233.527	21694220.4	21693450.3	56.55	mg/L	56.55	ppm
1 Be 313.107	498.0	-1583.9	-0.0007	mg/L	-0.0007	ppm
1 Ca 227.547	1919.7	1518.5	9.824	mg/L	9.824	ppm
1 Cd 228.802	1217240.4	1217144.5	10.19	mg/L	10.19	ppm
1 Co 228.616	1851596.2	1852142.7	20.25	mg/L	20.25	ppm
1 Cr 267.716	3374955.0	3375147.4	51.29	mg/L	51.29	ppm
1 Cu 324.754	12577467.3	12574516.8	53.20	mg/L	53.20	ppm
1 Fe 273.955	-21885.2	-21979.8	-0.7130	mg/L	-0.7130	ppm
1 K 766.491	3237.3	3680.2	0.4135	mg/L	0.4135	ppm
1 Mg 279.079	1574.4	-660.8	-0.0152	mg/L	-0.0152	ppm
1 Mn 257.610	22560815.5	22558544.3	18.63	mg/L	18.63	ppm
1 Mo 202.030	144342.5	144799.2	10.49	mg/L	10.49	ppm
1 Na 330.237	341445.7	342269.4	717.8	mg/L	717.8	ppm

1	Ni 231.604	990736.3	991267.3	19.98	mg/L	19.98 ppm
1	Pb 220.353	1440729.7	1440576.1	83.39	mg/L	83.39 ppm
1	Sb 206.833	4292.5	4181.8	-0.4698	mg/L	-0.4698 ppm
1	Se 196.026	649.0	7.7	-0.0010	mg/L	-0.0010 ppm
1	Tl 190.800	767.0	407.5	0.1089	mg/L	0.1089 ppm
1	V 292.402	1669363.9	1670089.7	20.23	mg/L	20.23 ppm
1	Zn 213.856	4068606.6	4068819.0	39.58	mg/L	39.58 ppm
2	Ag 328.068	3209.2	-582.8	-0.0041	mg/L	-0.0041 ppm
2	Al 308.215	16234.4	11580.7	0.5068	mg/L	0.5068 ppm
2	As 188.979	31159.4	31006.2	9.591	mg/L	9.591 ppm
2	Ba 233.527	21481893.7	21481123.6	56.00	mg/L	56.00 ppm
2	Be 313.107	848.6	-1233.3	-0.0005	mg/L	-0.0005 ppm
2	Ca 227.547	1957.1	1555.9	10.07	mg/L	10.07 ppm
2	Cd 228.802	1175745.1	1175649.1	9.844	mg/L	9.844 ppm
2	Co 228.616	1790697.6	1791244.2	19.58	mg/L	19.58 ppm
2	Cr 267.716	3254730.8	3254923.1	49.46	mg/L	49.46 ppm
2	Cu 324.754	12469666.8	12466716.3	52.74	mg/L	52.74 ppm
2	Fe 273.955	-22873.9	-22968.5	-0.7451	mg/L	-0.7451 ppm
2	K 766.491	2638.0	3081.0	0.3621	mg/L	0.3621 ppm
2	Mg 279.079	1084.9	-1150.3	-0.0264	mg/L	-0.0264 ppm
2	Mn 257.610	22346425.2	22344153.9	18.45	mg/L	18.45 ppm
2	Mo 202.030	149760.6	150217.2	10.88	mg/L	10.88 ppm
2	Na 330.237	328462.6	329286.2	690.4	mg/L	690.4 ppm
2	Ni 231.604	959293.5	959824.5	19.35	mg/L	19.35 ppm
2	Pb 220.353	1392962.1	1392808.5	80.63	mg/L	80.63 ppm
2	Sb 206.833	4282.9	4172.1	-0.4189	mg/L	-0.4189 ppm
2	Se 196.026	631.7	-9.6	-0.0066	mg/L	-0.0066 ppm
2	Tl 190.800	794.8	435.2	0.1184	mg/L	0.1184 ppm
2	V 292.402	1610515.5	1611241.4	19.52	mg/L	19.52 ppm
2	Zn 213.856	3938680.7	3938893.1	38.32	mg/L	38.32 ppm
3	Ag 328.068	3283.1	-508.8	-0.0036	mg/L	-0.0036 ppm
3	Al 308.215	15700.2	11046.5	0.4835	mg/L	0.4835 ppm
3	As 188.979	30339.5	30186.4	9.372	mg/L	9.372 ppm
3	Ba 233.527	21127636.7	21126866.6	55.08	mg/L	55.08 ppm
3	Be 313.107	839.8	-1242.1	-0.0005	mg/L	-0.0005 ppm
3	Ca 227.547	1879.9	1478.7	9.566	mg/L	9.566 ppm
3	Cd 228.802	1254391.9	1254296.0	10.50	mg/L	10.50 ppm
3	Co 228.616	1904540.2	1905086.7	20.83	mg/L	20.83 ppm
3	Cr 267.716	3459088.2	3459280.6	52.57	mg/L	52.57 ppm
3	Cu 324.754	12266671.7	12263721.2	51.88	mg/L	51.88 ppm
3	Fe 273.955	-22168.5	-22263.1	-0.7222	mg/L	-0.7222 ppm
3	K 766.491	3088.0	3530.9	0.4007	mg/L	0.4007 ppm
3	Mg 279.079	717.6	-1517.5	-0.0348	mg/L	-0.0348 ppm
3	Mn 257.610	22009420.8	22007149.6	18.17	mg/L	18.17 ppm
3	Mo 202.030	146097.1	146553.7	10.62	mg/L	10.62 ppm
3	Na 330.237	349366.7	350190.3	734.5	mg/L	734.5 ppm
3	Ni 231.604	1021274.8	1021805.8	20.60	mg/L	20.60 ppm
3	Pb 220.353	1485589.8	1485436.3	85.99	mg/L	85.99 ppm
3	Sb 206.833	4249.0	4138.3	-0.5177	mg/L	-0.5177 ppm
3	Se 196.026	633.6	-7.6	-0.0062	mg/L	-0.0062 ppm
3	Tl 190.800	781.2	421.7	0.1129	mg/L	0.1129 ppm
3	V 292.402	1711760.0	1712485.8	20.75	mg/L	20.75 ppm
3	Zn 213.856	4190528.0	4190740.4	40.77	mg/L	40.77 ppm

ean Data ----------

D: DLC A1427 Seq. No.: 20 Sample No.: 39 A/S Pos: 48
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 5/19/03 3:31:48 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-550.1	-0.0039	0.00027	mg/L	-0.0039	0.00027	ppm	6.86%
l 308.215	11144.2	0.4877	0.01737	mg/L	0.4877	0.01737	ppm	3.56%
s 188.979	30364.9	9.414	0.1607	mg/L	9.414	0.1607	ppm	1.71%
a 233.527	21433813.5	55.88	0.746	mg/L	55.88	0.746	ppm	1.34%
e 313.107	-1353.1	-0.0006	0.00008	mg/L	-0.0006	0.00008	ppm	14.78%
a 227.547	1517.7	9.818	0.2497	mg/L	9.818	0.2497	ppm	2.54%
d 228.802	1215696.5	10.18	0.328	mg/L	10.18	0.328	ppm	3.23%
o 228.616	1849491.2	20.22	0.623	mg/L	20.22	0.623	ppm	3.08%
r 267.716	3363117.0	51.11	1.561	mg/L	51.11	1.561	ppm	3.05%

u 324.754	12434984.8	52.61	0.668 mg/L	52.61	0.668 ppm	1.27%
e 273.955	-22403.8	-0.7268	0.01652 mg/L	-0.7268	0.01652 ppm	2.27%
. 766.491	3430.7	0.3921	0.02674 mg/L	0.3921	0.02674 ppm	6.82%
g 279.079	-1109.5	-0.0255	0.00986 mg/L	-0.0255	0.00986 ppm	38.74%
n 257.610	22303282.6	18.42	0.230 mg/L	18.42	0.230 ppm	1.25%
o 202.030	147190.1	10.66	0.200 mg/L	10.66	0.200 ppm	1.88%
a 330.237	340582.0	714.2	22.27 mg/L	714.2	22.27 ppm	3.12%
i 231.604	990965.9	19.98	0.625 mg/L	19.98	0.625 ppm	3.13%
b 220.353	1439606.9	83.33	2.681 mg/L	83.33	2.681 ppm	3.22%
b 206.833	4164.1	-0.4688	0.04946 mg/L	-0.4688	0.04946 ppm	10.55%
e 196.026	-3.2	-0.0046	0.00315 mg/L	-0.0046	0.00315 ppm	68.81%
l 190.800	421.4	0.1134	0.00477 mg/L	0.1134	0.00477 ppm	4.20%
292.402	1664605.6	20.17	0.616 mg/L	20.17	0.616 ppm	3.05%
n 213.856	4066150.8	39.56	1.225 mg/L	39.56	1.225 ppm	3.10%

Y2K non-co
Software. The da
should be 5/19/
not 5/19/99.

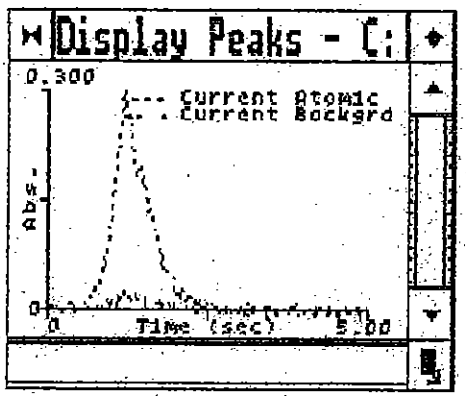
gw 5/19/03

Element File: AS_7060.GEL Element: As Wavelength: 193.7
Date: 05/19/~~99~~ 03 Time: 10:58 Slit: 0.70 L
Data File: 03M1481E.DAT ID/Wt File: 1.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 53

As ID: AS Position 002 Seq. No.: 00001 A/S Pos.: 2 Date: 05/19/99

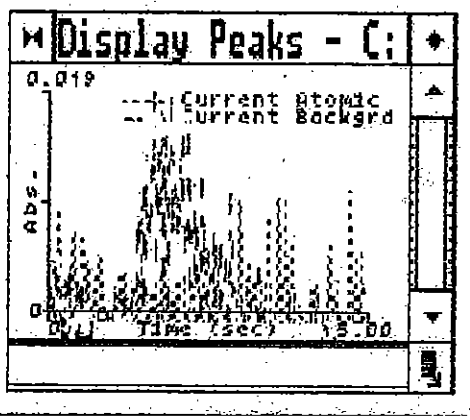
uL dispensed: 5 from 20, 20 from 2
Replicate 1 Time: 11:00
Peak Area (A-s): 0.191 Peak Height (A): 0.300
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.191

gw 5/19/0



As ID: AS Position 001 Seq. No.: 00002 A/S Pos.: 1 Date: 05/19/99

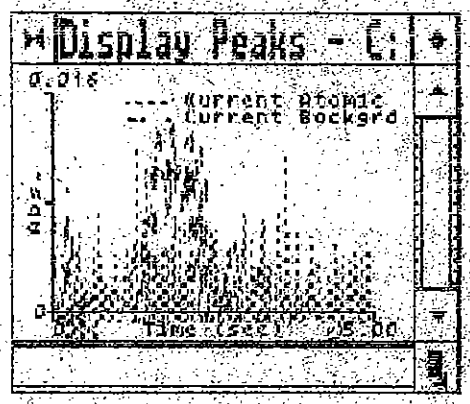
uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 11:06
Peak Area (A-s): -0.002 Peak Height (A): 0.010
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): -0.002



As ID: Calib. Blank Seq. No.: 00003 A/S Pos.: 1 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 11:09
Peak Area (A-s): 0.002 Peak Height (A): 0.013
Background Pk Area (A-s): -0.010 Background Pk Height (A): 0.016

Blank Corrected Pk Area (A-s): 0.002



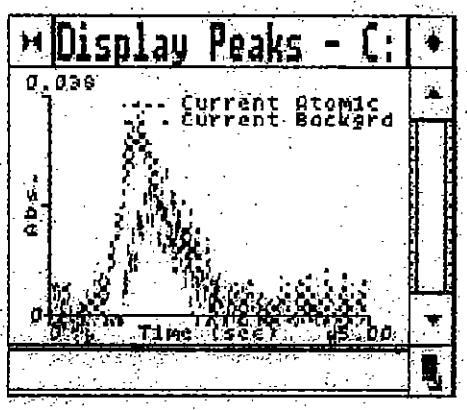
uL dispensed: 5 from 20, 20 from 1
Replicate 2 Time: 11:12
Peak Area (A-s): -0.002 Peak Height (A): 0.009
Background Pk Area (A-s): -0.009 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): -0.002

Mean Pk Area (A-s): -0.000 SD: 0.0029 RSD(%): 1344.40

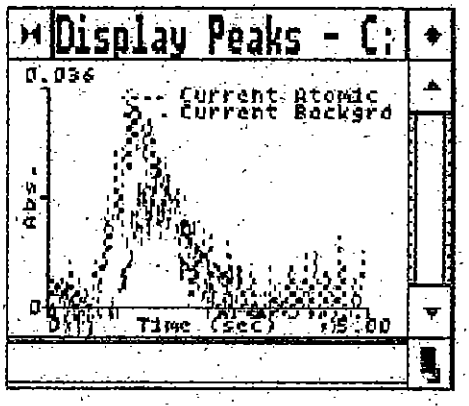
Auto-zero performed

As ID: 1/2 STD1 1472A Seq. No.: 00004 A/S Pos.: 4 Date: 05/19/99

Replicate 1 Time: 11:16
Peak Area (A-s): 0.032 Peak Height (A): 0.038
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.032



uL dispensed: 10 from 0, 5 from 20, 10 from 4
Replicate 2 Time: 11:19
Peak Area (A-s): 0.036 Peak Height (A): 0.036
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.036

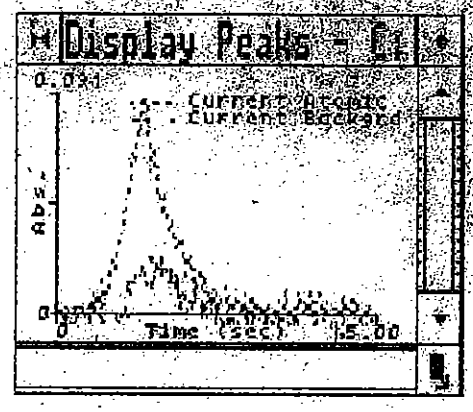


Mean Pk Area (A-s): 0.034 SD: 0.0029 RSD(%): 8.46

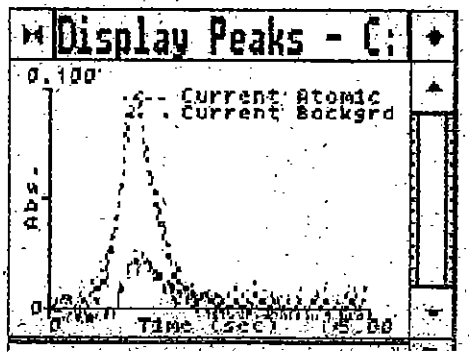
Standard number 1 applied (0.0125)

As ID: STD1 1472A Seq. No.: 00005 A/S Pos.: 4 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 4
Replicate 1 Time: 11:22
Peak Area (A-s): 0.071 Peak Height (A): 0.091
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.071
Concentration (mg/L): 0.0261



uL dispensed: 5 from 20, 20 from 4
Replicate 2 Time: 11:25
Peak Area (A-s): 0.073 Peak Height (A): 0.100
Background Pk Area (A-s): 0.000 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.073
Concentration (mg/L): 0.0271

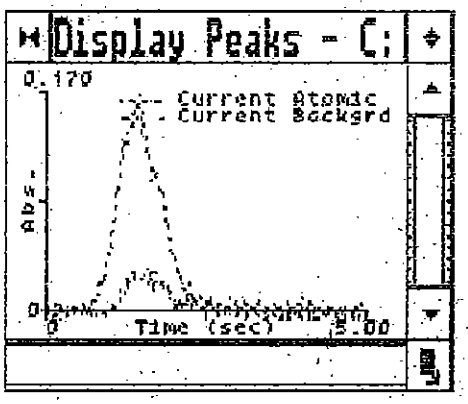


Mean Conc (mg/L): 0.0266 SD: 0.00069 RSD(%): 2.59

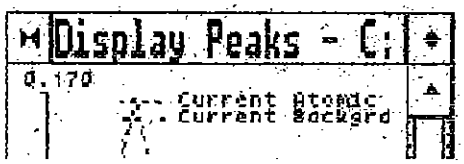
Standard number 2 applied. [0.0250]
Correlation coefficient: 0.99711 Slope: 2.8517

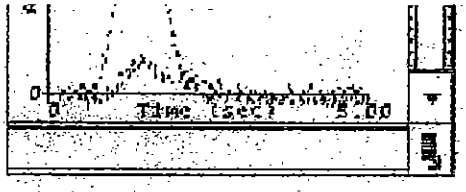
As ID: STD2 1472B Seq. No.: 00006 A/S Pos.: 3 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 3
Replicate 1 Time: 11:28
Peak Area (A-s): 0.128 Peak Height (A): 0.170
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.129
Concentration (mg/L): 0.0451



uL dispensed: 5 from 20, 20 from 3
Replicate 2 Time: 11:31
Peak Area (A-s): 0.125 Peak Height (A): 0.170
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.125
Concentration (mg/L): 0.0437



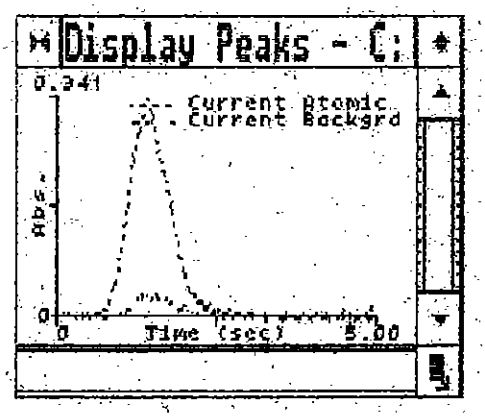


Mean Conc (mg/L): 0.0444 SD: 0.00095 RSD(%): 2.14

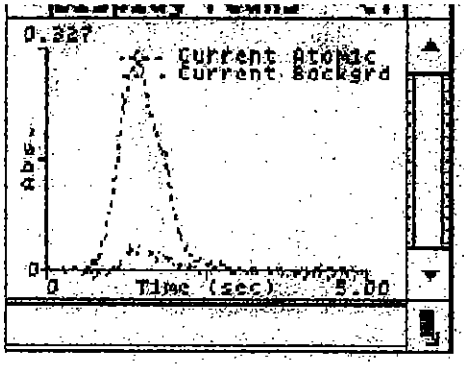
Standard number 3 applied. [0.0500]
Correlation coefficient: 0.99360 Slope: 2.6159

As ID: STD3 1472C Seq. No.: 00007 A/S Pos.: 2 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 2
Replicate 1 Time: 11:34
Peak Area (A-s): 0.251 Peak Height (A): 0.341
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.251
Concentration (mg/L): 0.0959

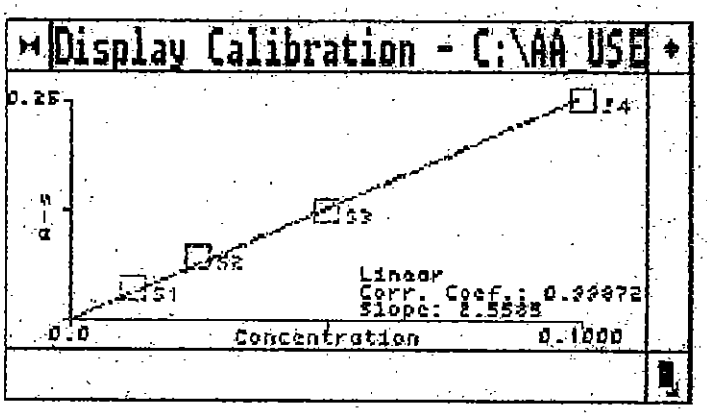


uL dispensed: 5 from 20, 20 from 2
Replicate 2 Time: 11:38
Peak Area (A-s): 0.257 Peak Height (A): 0.327
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.257
Concentration (mg/L): 0.0982



Mean Conc (mg/L): 0.0971 SD: 0.00159 RSD(%): 1.63

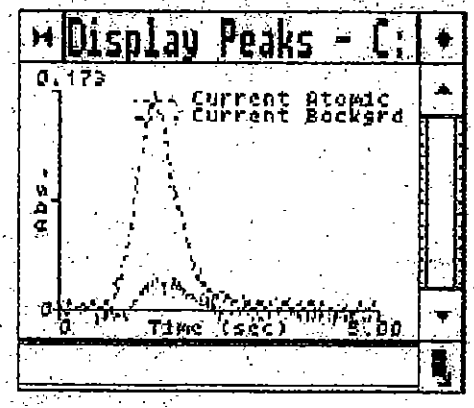
Standard number 4 applied. [0.1000]
Correlation coefficient: 0.99872 Slope: 2.5585



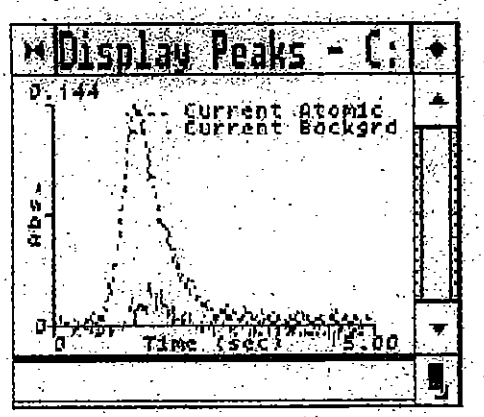
As ID: ICV A1474 Seq. No.: 00008 A/S Pos.: 40 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 40
Replicate 1 Time: 11:44

Peak Area (A-s): 0.138 Peak Height (A): 0.173
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.138
Concentration (mg/L): 0.0539 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 40
Replicate 2 Time: 11:48
Peak Area (A-s): 0.117 Peak Height (A): 0.144
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.117
Concentration (mg/L): 0.0459 Corrected Conc (ppm): ----------

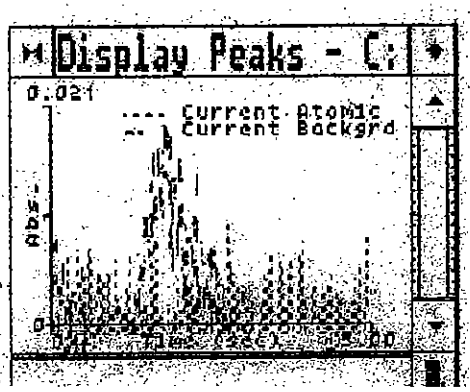


Mean Conc (mg/L): 0.0499 SD: 0.00565 RSD(%): 11.34
Corrected Conc (ppm): ----------

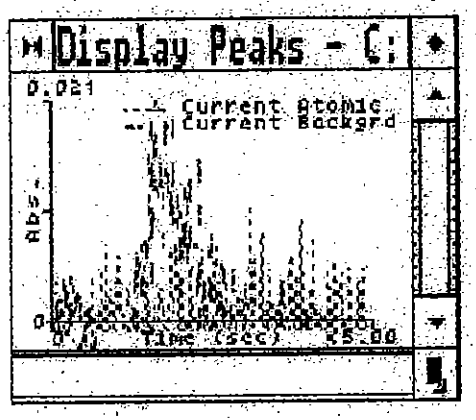
QC sample is within range 0.045 - 0.055

As ID: ICB Seq. No.: 00009 A/S Pos.: 1 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 11:51
Peak Area (A-s): -0.004 Peak Height (A): 0.010
Background Pk Area (A-s): -0.007 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): -0.003
Concentration (mg/L): -0.0013 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 1
Replicate 2 Time: 11:54
Peak Area (A-s): -0.004 Peak Height (A): 0.011
Background Pk Area (A-s): -0.007 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): -0.004
Concentration (mg/L): -0.0015 Corrected Conc (ppm): ----------

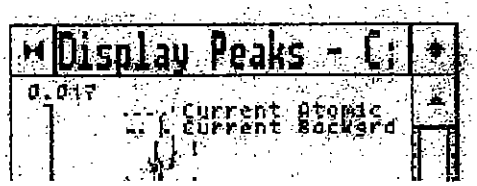


Mean Conc. (mg/L): -0.0014 SD: 0.00018 RSD(%): 12.53
Corrected Conc (ppm): ----------

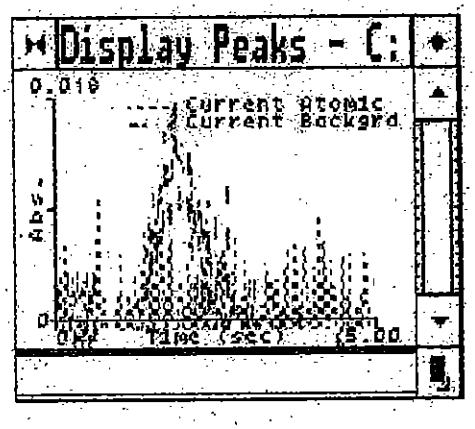
QC sample is within range

As ID: M-BL 03M1481 Seq. No.: 00010 A/S Pos.: 5 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 5
Replicate 1 Time: 11:57
Peak Area (A-s): -0.001 Peak Height (A): 0.012
Background Pk Area (A-s): -0.009 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): -0.001
Concentration (mg/L): -0.0004 Corrected Conc (ppm): -0.0004



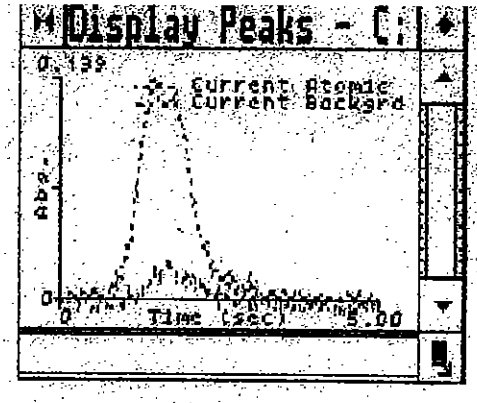
uL dispensed: 5 from 20, 20 from 5
Replicate 2 Time: 12:00
Peak Area (A-s): -0.001 Peak Height (A): 0.010
Background Pk Area (A-s): -0.007 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): -0.001
Concentration (mg/L): -0.0003 Corrected Conc (ppm): -0.0003



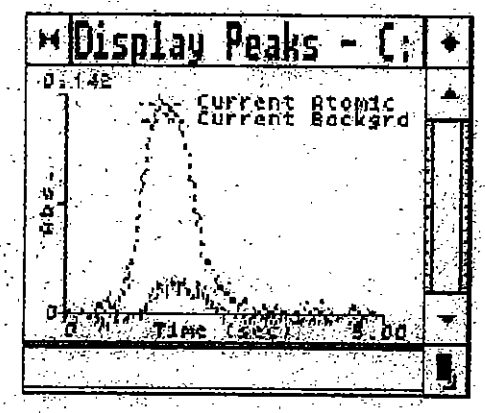
Mean Conc (mg/L): -0.0004 SD: 0.00012 RSD(%): 33.75
Corrected Conc (ppm): -0.0004

As ID: LCS-03N1481 Seq. No.: 00011 A/S Pos.: 6 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 6
Replicate 1 Time: 12:03
Peak Area (A-s): 0.136 Peak Height (A): 0.139
Background Pk Area (A-s): -0.000 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.136
Concentration (mg/L): 0.0532 Corrected Conc (ppm): 0.0532



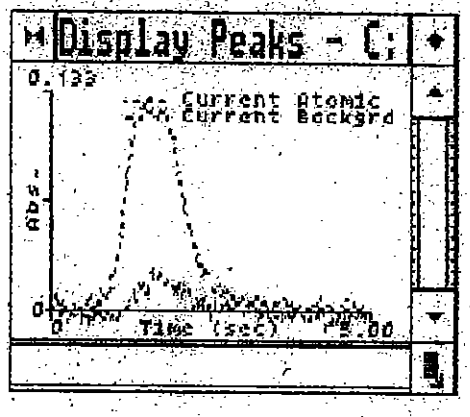
uL dispensed: 5 from 20, 20 from 6
Replicate 2 Time: 12:07
Peak Area (A-s): 0.136 Peak Height (A): 0.142
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.136
Concentration (mg/L): 0.0533 Corrected Conc (ppm): 0.0533



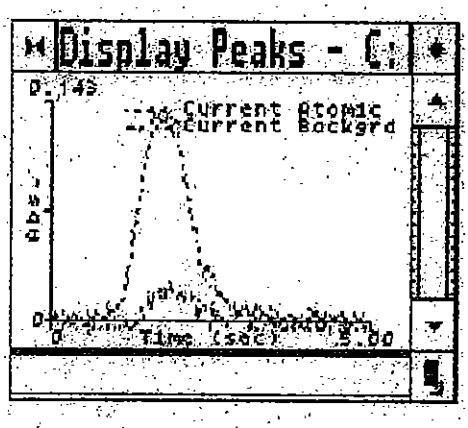
Mean Conc (mg/L): 0.0532 SD: 0.00007 RSD(%): 0.13
Corrected Conc (ppm): 0.0532

As ID: LCSD-03M1481 Seq. No.: 00012 A/S Pos.: 7 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 7
Replicate 1 Time: 12:10
Peak Area (A-s): 0.139 Peak Height (A): 0.133
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.139
Concentration (mg/L): 0.0544 Corrected Conc (ppm): 0.0544



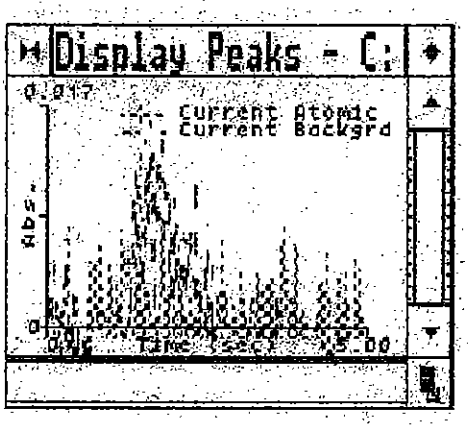
uL dispensed: 5 from 20, 20 from 7
Replicate 2 Time: 12:13
Peak Area (A-s): 0.133 Peak Height (A): 0.143
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.133
Concentration (mg/L): 0.0521 Corrected Conc (ppm): 0.0521



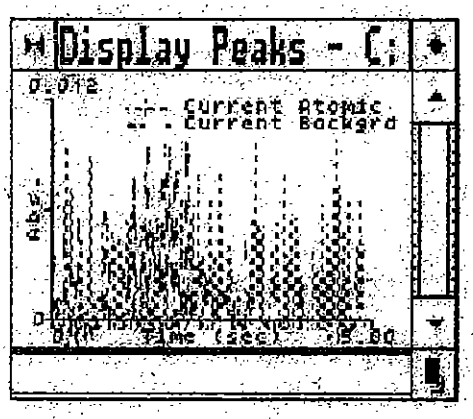
Mean Conc (mg/L): 0.0532 SD: 0.00162 RSD(%): 3.05
Corrected Conc (ppm): 0.0532

As ID: 3205-1 S F=1 Seq. No.: 00013 A/S Pos.: 8 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 8
Replicate 1 Time: 12:16
Peak Area (A-s): -0.001 Peak Height (A): 0.011
Background Pk Area (A-s): -0.008 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): -0.000
Concentration (mg/L): -0.0001 Corrected Conc (ppm): -0.0001



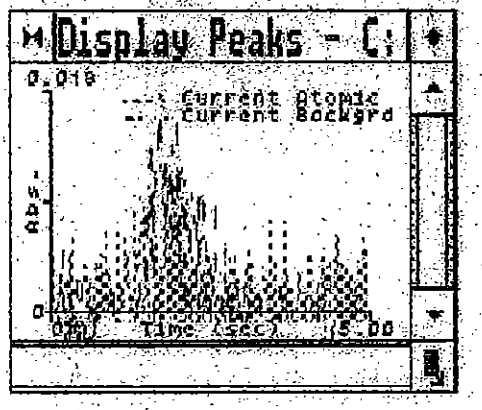
uL dispensed: 5 from 20, 20 from 8
Replicate 2 Time: 12:20
Peak Area (A-s): 0.001 Peak Height (A): 0.010
Background Pk Area (A-s): -0.012 Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0005 Corrected Conc (ppm): 0.0005



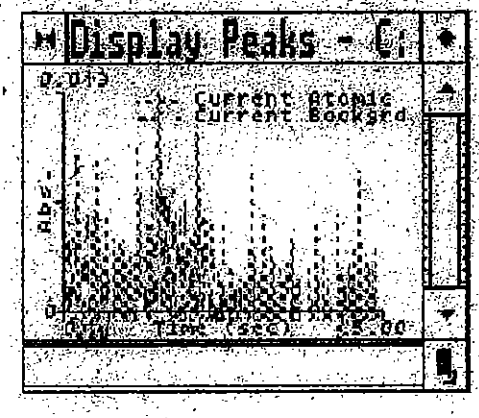
Mean Conc (mg/L): 0.0002 SD: 0.00042 RSD(%): 270.02
Corrected Conc (ppm): 0.0002

As ID: 3205-1 D F=1 Seq. No.: 00014 A/S Pos.: 9 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 9
Replicate 1 Time: 12:23
Peak Area (A-s): 0.003 Peak Height (A): 0.011
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.004
Concentration (mg/L): 0.0014 Corrected Conc (ppm): 0.0014



uL dispensed: 5 from 20, 20 from 9
Replicate 2 Time: 12:26
Peak Area (A-s): -0.001 Peak Height (A): 0.013
Background Pk Area (A-s): -0.017 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): -0.001
Concentration (mg/L): -0.0002 Corrected Conc (ppm): -0.0002

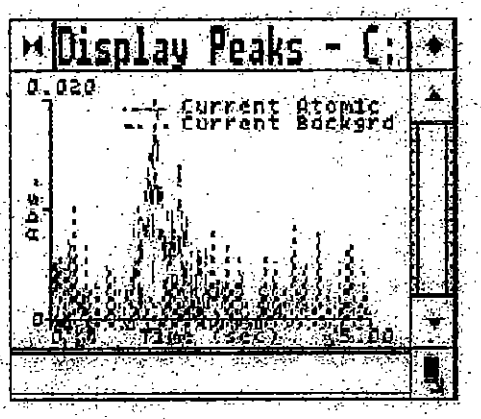


Mean Conc (mg/L): 0.0006 SD: 0.00114 RSD(%): 200.80
Corrected Conc (ppm): 0.0006

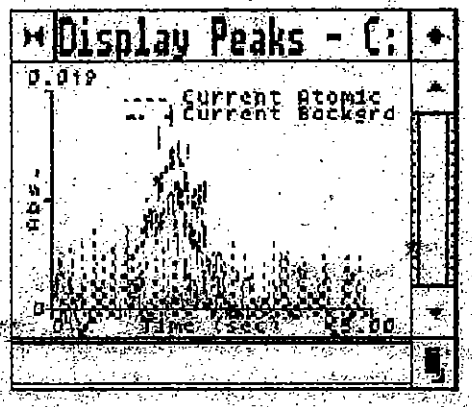
As ID: 3205-1 1/5 F=5 Seq. No.: 00015 A/S Pos.: 10 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 10
Replicate: 1 Time: 12:29

Background Pk Area (A-s): -0.010 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): -0.000
Concentration (mg/L): -0.0001 Corrected Conc (ppm): -4.03E-004



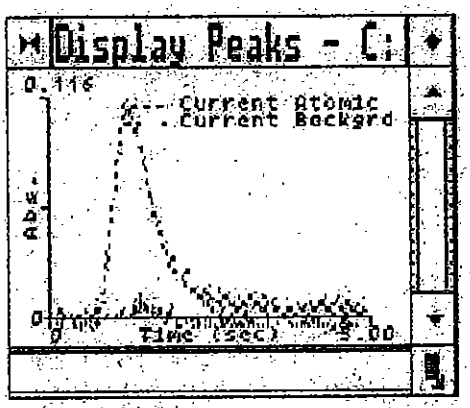
uL dispensed: 5 from 20, 20 from 10
Replicate 2 Time: 12:33
Peak Area (A-s): -0.003 Peak Height (A): 0.008
Background Pk Area (A-s): -0.008 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): -0.003
Concentration (mg/L): -0.0013 Corrected Conc (ppm): -0.006



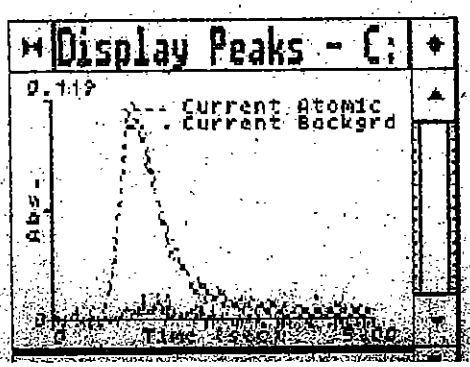
Mean Conc (mg/L): -0.0007 SD: 0.00084 RSD(%): 124.57
Corrected Conc (ppm): -0.003

As ID: 3205-1 MS F=1 Seq. No.: 00016 A/S Pos.: 11 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 11
Replicate 1 Time: 12:36
Peak Area (A-s): 0.103 Peak Height (A): 0.116
Background Pk Area (A-s): -0.013 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.103
Concentration (mg/L): 0.0403 Corrected Conc (ppm): 0.0403



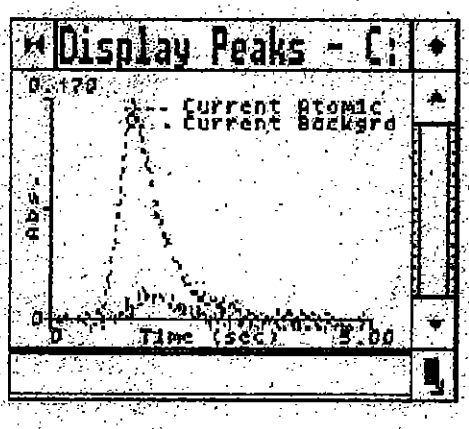
uL dispensed: 5 from 20, 20 from 11
Replicate 2 Time: 12:39
Peak Area (A-s): 0.103 Peak Height (A): 0.119
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.104
Concentration (mg/L): 0.0405 Corrected Conc (ppm): 0.0405



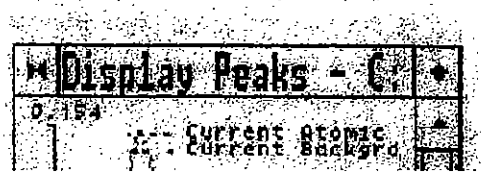
Mean Conc (mg/L): 0.0404 SD: 0.00013 RSD(%): 0.33
Corrected Conc (ppm): 0.0404

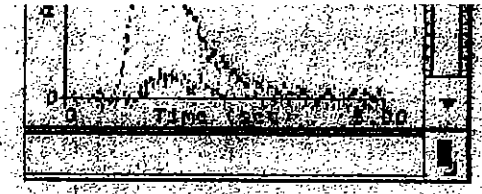
As ID: 3205-1 MSD F=1 Seq. No.: 00017 A/S Pos.: 12 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 12
Replicate 1 Time: 12:42
Peak Area (A-s): 0.131 Peak Height (A): 0.170
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.131
Concentration (mg/L): 0.0514 Corrected Conc (ppm): 0.0514



uL dispensed: 5 from 20, 20 from 12
Replicate 2 Time: 12:46
Peak Area (A-s): 0.143 Peak Height (A): 0.154
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.143
Concentration (mg/L): 0.0559 Corrected Conc (ppm): 0.0559

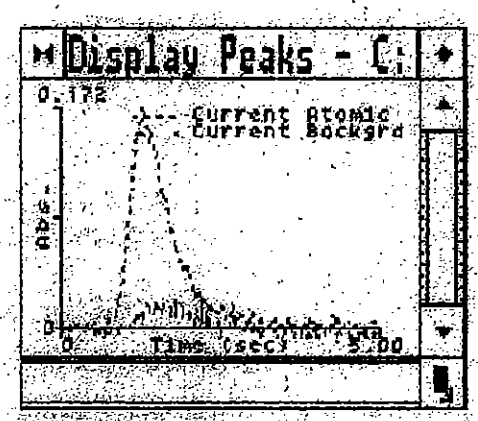




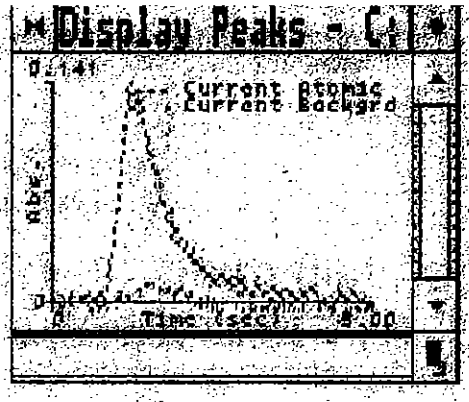
Mean Conc (mg/L): 0.0536 SD: 0.00321 RSD(%): 5.98
Corrected Conc (ppm): 0.0536

As ID: 3205-1 PS F=1 Seq. No.: 00018 A/S Pos.: 13 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 13
Replicate 1 Time: 12:49
Peak Area (A-s): 0.132 Peak Height (A): 0.172
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.132
Concentration (mg/L): 0.0516 Corrected Conc (ppm): 0.0516



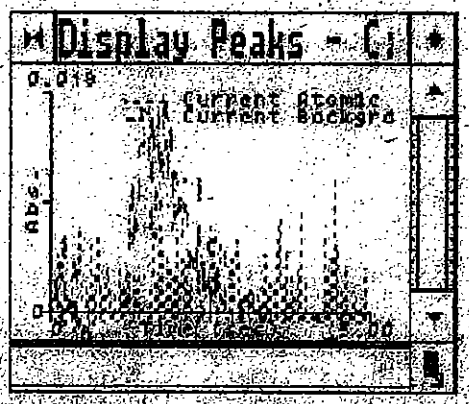
uL dispensed: 5 from 20, 20 from 13
Replicate 2 Time: 12:57
Peak Area (A-s): 0.125 Peak Height (A): 0.141
Background Pk Area (A-s): -0.007 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.125
Concentration (mg/L): 0.0490 Corrected Conc (ppm): 0.0490



Mean Conc (mg/L): 0.0503 SD: 0.00187 RSD(%): 3.72
Corrected Conc (ppm): 0.0503

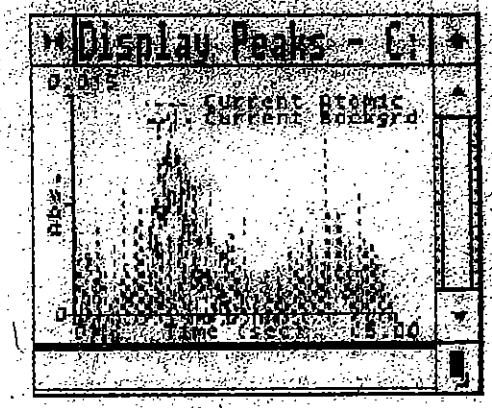
As ID: 3205-2 F=1 Seq. No.: 00019 A/S Pos.: 14 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 14
Replicate 1 Time: 12:55
Peak Area (A-s): -0.002 Peak Height (A): 0.011
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): -0.002
Concentration (mg/L): -0.0007 Corrected Conc (ppm): -0.0007



uL dispensed: 5 from 20, 20 from 14

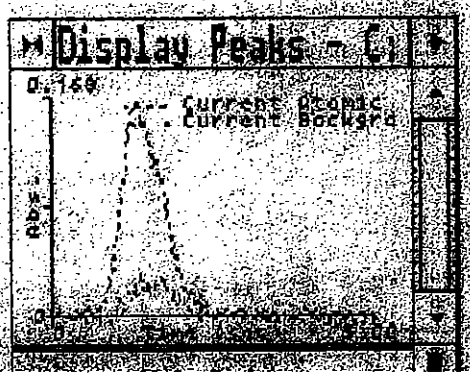
Blank Corrected Pk Area (A-s): -0.000
Concentration (mg/L): -0.0000 Corrected Conc (ppm): -0.0000



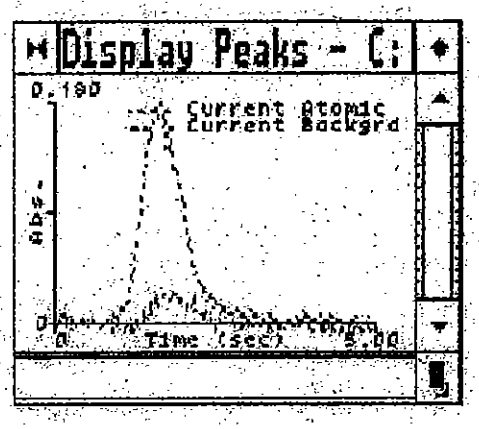
Mean Conc (mg/L): -0.0004 SD: 0.00046 RSD(%): 131.39
Corrected Conc (ppm): -0.0004

As ID: CCV A1474 Seq. No.: 00020 A/S Pos.: 40 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 40
Replicate 1 Time: 13:02
Peak Area (A-s): 0.127 Peak Height (A): 0.168
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.127
Concentration (mg/L): 0.0498 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 40
Replicate 2 Time: 13:05
Peak Area (A-s): 0.138 Peak Height (A): 0.180
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.138
Concentration (mg/L): 0.0539 Corrected Conc (ppm): ---------

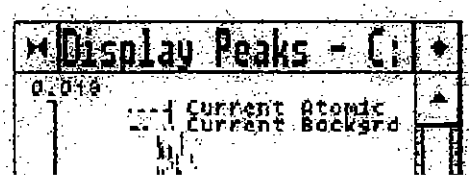


Mean Conc (mg/L): 0.0518 SD: 0.00294 RSD(%): 5.67
Corrected Conc (ppm): ----------

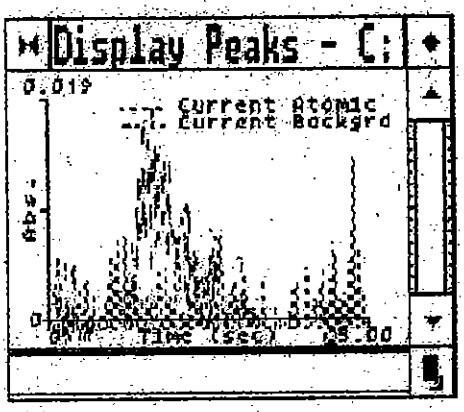
QC sample is within range 0.0425 - 0.0575

As ID: CCB Seq. No.: 00021 A/S Pos.: 1 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 13:08
Peak Area (A-s): 0.000 Peak Height (A): 0.011
Background Pk Area (A-s): -0.011 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.000
Concentration (mg/L): 0.0002 Corrected Conc (ppm): ---------



uL dispensed: 5 from 20, 20 from 1
Replicate 2 Time: 13:11
Peak Area (A-s): -0.003 Peak Height (A): 0.013
Background Pk Area (A-s): -0.009 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): -0.002
Concentration (mg/L): -0.0009 Corrected Conc (ppm): ----------

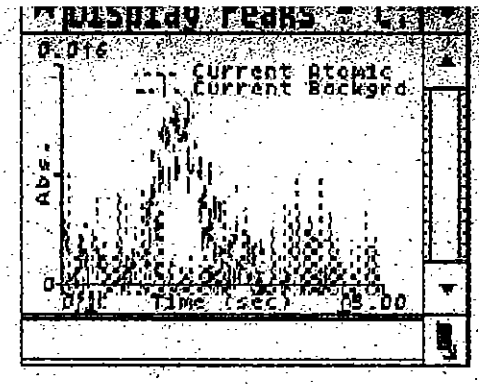


Mean Conc (mg/L): -0.0004 SD: 0.00075 RSD(%): 199.33
Corrected Conc (ppm): ----------

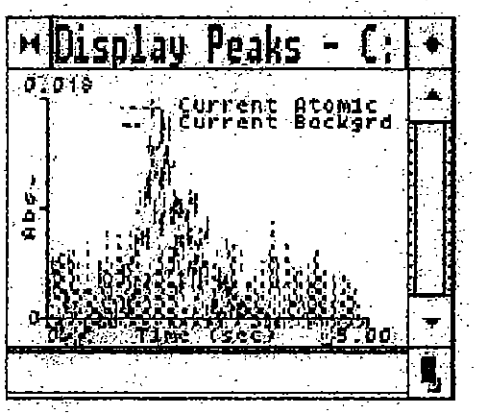
QC sample is within range

As ID: 3205-3 F=1 Seq. No.: 00022 A/S Pos.: 15 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 15
Replicate 1 Time: 13:14
Peak Area (A-s): -0.002 Peak Height (A): 0.008
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): -0.002
Concentration (mg/L): -0.0009 Corrected Conc (ppm): -0.0009



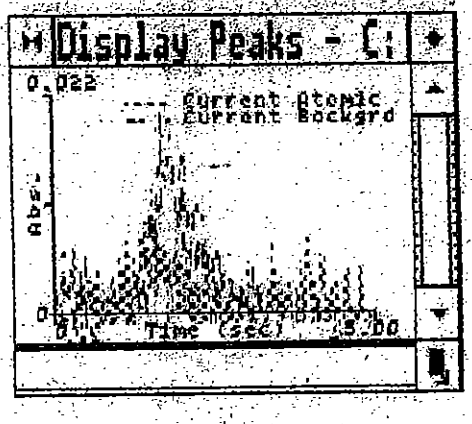
uL dispensed: 5 from 20, 20 from 15
Replicate 2 Time: 13:17
Peak Area (A-s): -0.001 Peak Height (A): 0.011
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): -0.001
Concentration (mg/L): -0.0005 Corrected Conc (ppm): -0.0005



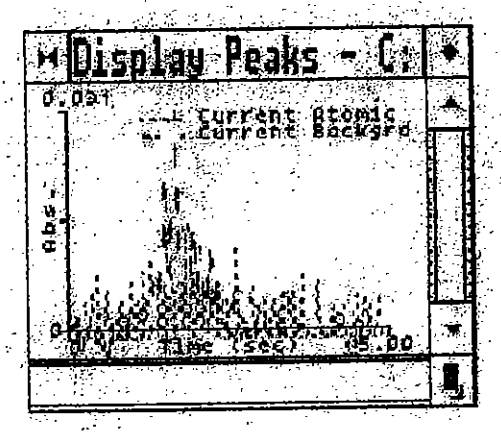
Mean Conc (mg/L): -0.0007 SD: 0.00027 RSD(%): 39.13
Corrected Conc (ppm): -0.0007

As ID: 3205-4 F=1 Seq. No.: 00023 A/S Pos.: 16 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 16
Replicate 1 Time: 13:21
Peak Area (A-s): 0.005 Peak Height (A): 0.013
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.005
Concentration (mg/L): 0.0021 Corrected Conc (ppm): 0.0021



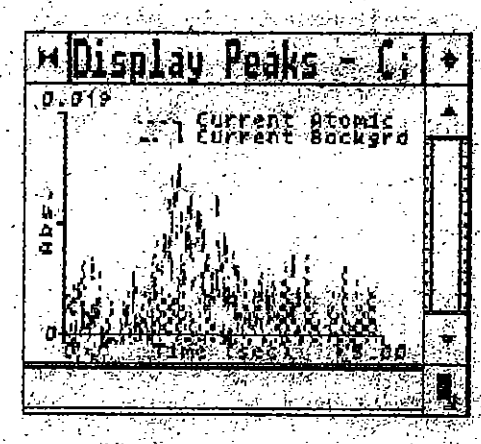
uL dispensed: 5 from 20, 20 from 16
Replicate 2 Time: 13:24
Peak Area (A-s): 0.002 Peak Height (A): 0.012
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.003
Concentration (mg/L): 0.0010 Corrected Conc (ppm): 0.0010



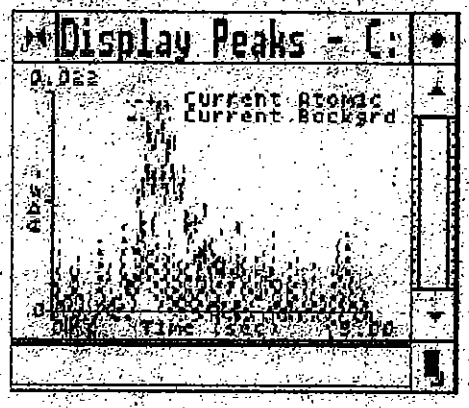
Mean Conc (mg/L): 0.0016 SD: 0.00071 RSD(%): 45.92
Corrected Conc (ppm): 0.0016

As ID: 3205-5 P=1 Seq. No.: 00024 A/S Pos.: 17 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 17
Replicate 1 Time: 13:27
Peak Area (A-s): -0.001 Peak Height (A): 0.007
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): -0.001
Concentration (mg/L): -0.0005 Corrected Conc (ppm): -0.0005



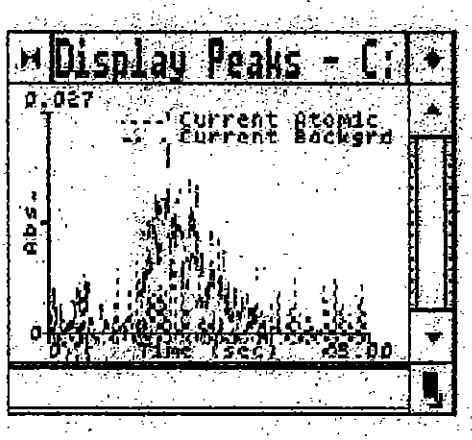
uL dispensed: 5 from 20, 20 from 17
Replicate 2 Time: 13:30
Peak Area (A-s): 0.004 Peak Height (A): 0.011
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.004
Concentration (mg/L): 0.0016 Corrected Conc (ppm): 0.0016



Mean Conc (mg/L): 0.0006 SD: 0.00150 RSD(%): 268.01
Corrected Conc (ppm): 0.0006

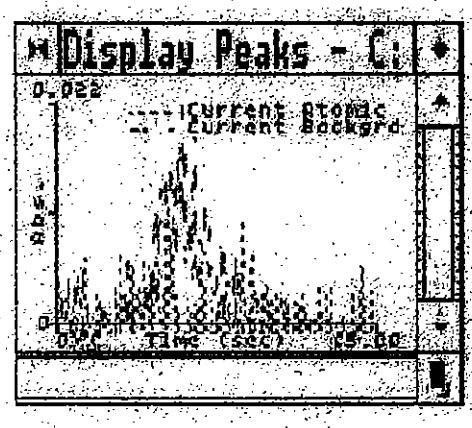
As ID: 3205-6 P=1 Seq. No.: 00025 A/S Pos.: 18 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 18
Replicate 1 Time: 13:33
Peak Area (A-s): -0.003 Peak Height (A): 0.011
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): -0.003
Concentration (mg/L): -0.0011 Corrected Conc (ppm): -0.0011



uL dispensed: 5 from 20, 20 from 18

Replicate 2	Time: 13:36
Peak Area (A-s): -0.004	Peak Height (A): 0.010
Background Pk Area (A-s): -0.000	Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): -0.004	
Concentration (mg/L): -0.0016	Corrected Conc (ppm): -0.0016

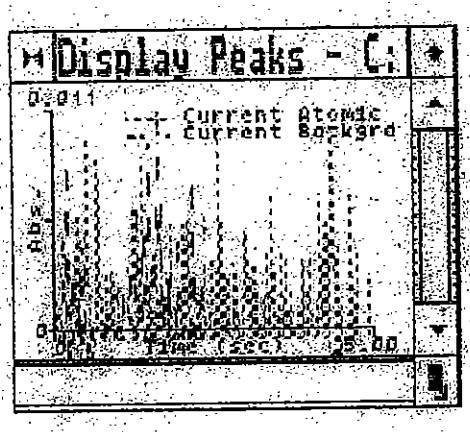


Mean Conc (mg/L): -0.0013 SD: 0.00033 RSD(%): 24.56
Corrected Conc (ppm): -0.0013

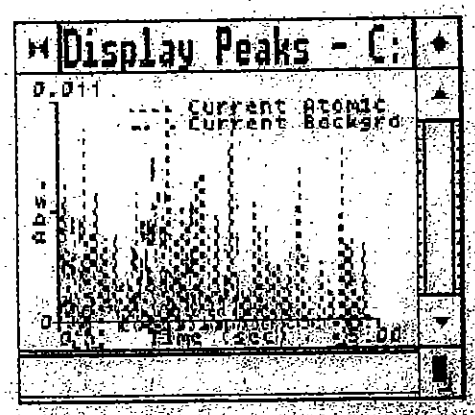
As ID: 1205-1 F=1 Seq. No. 00028 A/S Pos. 19 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 19

Background Pk Area (A-s): [illegible]
Blank Corrected Pk Area (A-s): -0.003
Concentration (mg/L): -0.0010 Corrected Conc (ppm): -0.0010



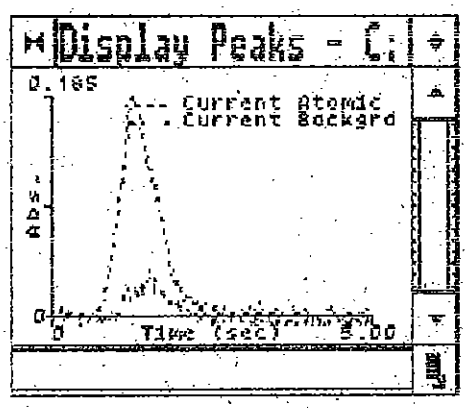
uL dispensed: 5 from 20, 20 from 19
Replicate 2 Time: 13:42
Peak Area (A-s): 0.002 Peak Height (A): 0.011
Background Pk Area (A-s): -0.019 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.002
Concentration (mg/L): 0.0008 Corrected Conc (ppm): 0.0008



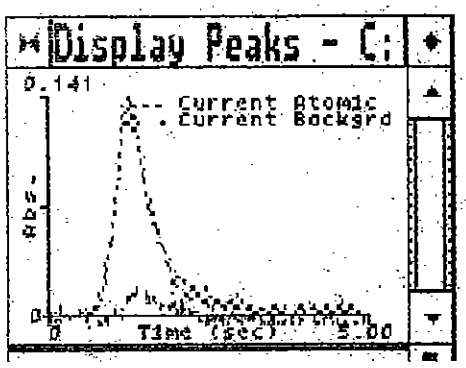
[illegible] -0.0001 SD: 0.00129 RSD(%): 1550.12
[illegible] -0.0001

As ID: CCV A1474 Seq. No.: 00027 A/S Pos.: 40 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 40
Replicate 1 Time: 13:46
Peak Area (A-s): 0.129 Peak Height (A): 0.185
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.129
Concentration (mg/L): 0.0506 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 40
Replicate 2 Time: 13:49
Peak Area (A-s): 0.105 Peak Height (A): 0.141
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.105
Concentration (mg/L): 0.0412 Corrected Conc (ppm): ----------

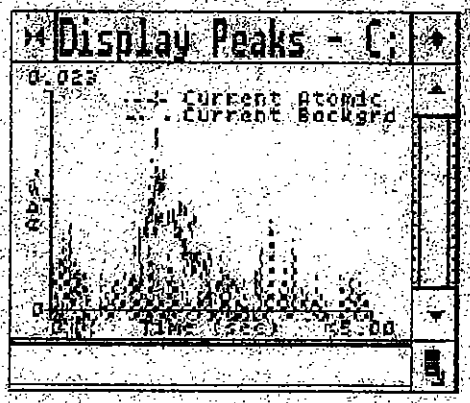


Mean Conc (mg/L): 0.0459 SD: 0.00665 RSD(%): 14.50
Corrected Conc (ppm): ----------

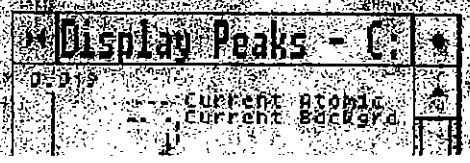
QC sample is within range 0.0425 - 0.0575

As ID: CCB Seq. No.: 00028 A/S Pos.: 1 Date: 05/19/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 13:52
Peak Area (A-s): -0.002 Peak Height (A): 0.014
Background Pk Area (A-s): -0.007 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): -0.002
Concentration (mg/L): -0.0008 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 1
Replicate 2 Time: 13:55
Peak Area (A-s): -0.004 Peak Height (A): 0.009
Background Pk Area (A-s): -0.009 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): -0.004
Concentration (mg/L): -0.0015 Corrected Conc (ppm): ----------



Mean Conc (mg/L): -0.0012 SD: 0.00046 RSD(%): 39.56
Corrected Conc (ppm): ----------

QC sample is within range