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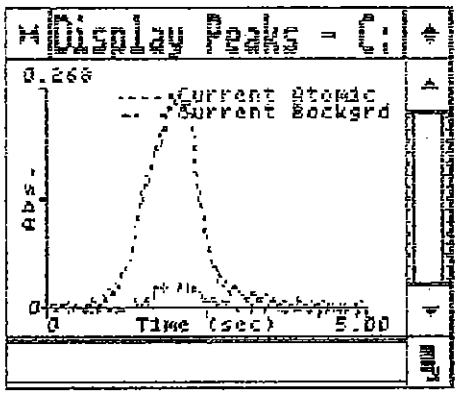
Element File: AS_7060.GEL Element: As Wavelength: 193.7
Date: 04/29/~~99~~ 03 Time: 11:12 Slit: 0.70 L
Data File: 03M1402E.DAT ID/Wt File: 1.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 52

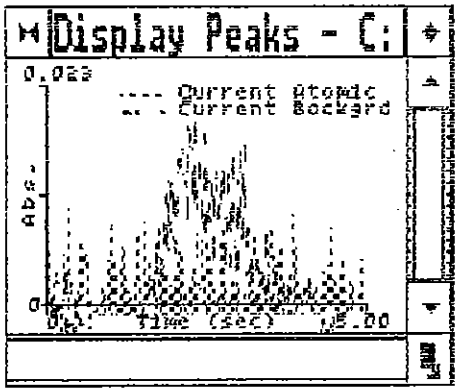
As ID: AS Position 002 Seq. No.: 00001 A/S Pos.: 2 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 2
Replicate 1 Time: 11:14
Peak Area (A-s): 0.271 Peak Height (A): 0.268
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.271



As ID: AS Position 001 Seq. No.: 00002 A/S Pos.: 1 Date: 04/29/99

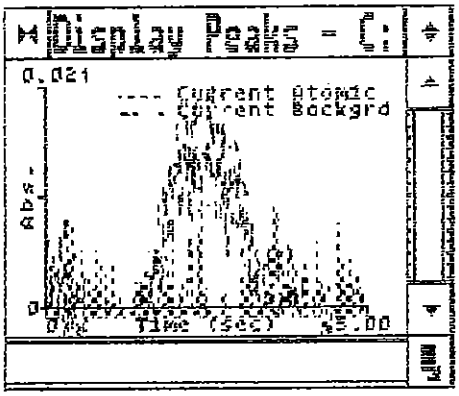
uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 11:17
Peak Area (A-s): 0.001 Peak Height (A): 0.010
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.001



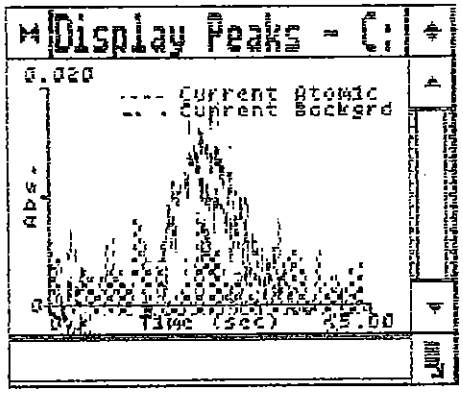
As ID: Calib. Blank Seq. No.: 00003 A/S Pos.: 1 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 11:21
Peak Area (A-s): -0.006 Peak Height (A): 0.013
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.021

Blank Corrected Pk Area (A-s): -0.006



uL dispensed: 5 from 20, 20 from 1
Replicate 2 Time: 11:24
Peak Area (A-s): -0.000 Peak Height (A): 0.009
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): -0.000



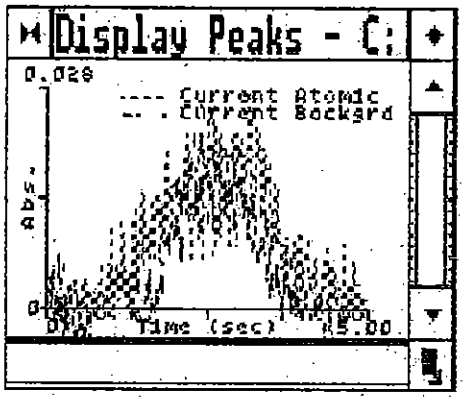
Mean Pk Area (A-s): -0.003 SD: 0.0041 RSD(%): 141.06

Auto-zero performed.

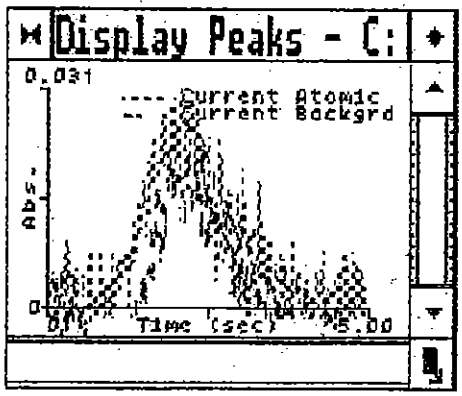
As ID: 1/2 STD1 1472A Seq. No.: 00004 A/S Pos.: 4 Date: 04/29/99

uL dispensed: 10 from 0, 5 from 20, 10 from 4

Peak Area (A-s): 0.038 Peak Height (A): 0.026
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.041



uL dispensed: 10 from 0, 5 from 20, 10 from 4
Replicate 2 Time: 11:31
Peak Area (A-s): 0.038 Peak Height (A): 0.031
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.041

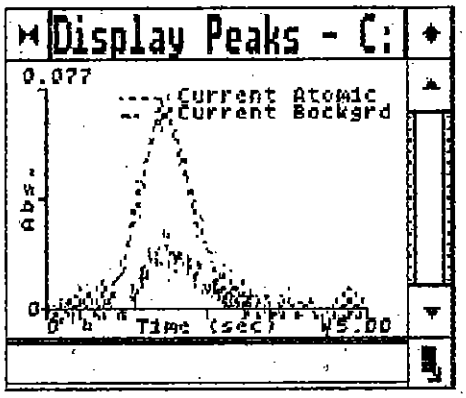


Mean Pk Area (A-s): 0.041 SD: 0.0004 RSD(%): 0.87

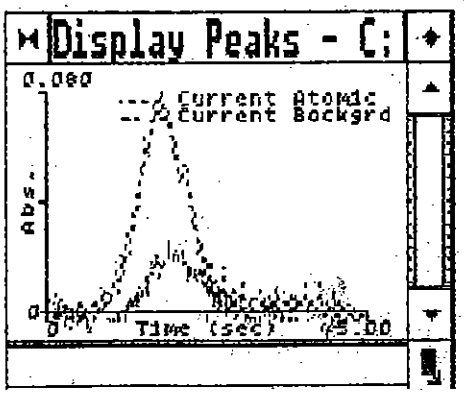
Standard number 1 applied. [0.0125]
Correlation coefficient: 1.00000 Slope: 3.2512

As ID: STD1 1472A Seq. No.: 00005 A/S Pos.: 4 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 4
Replicate 1 Time: 11:34
Peak Area (A-s): 0.072 Peak Height (A): 0.077
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.075
Concentration (mg/L): 0.0229



uL dispensed: 5 from 20, 20 from 4
Replicate 2 Time: 11:37
Peak Area (A-s): 0.072 Peak Height (A): 0.080
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.075
Concentration (mg/L): 0.0231

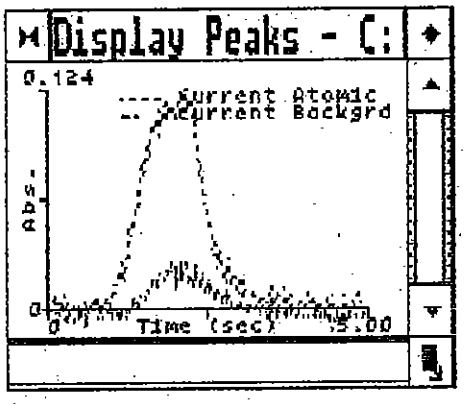


Mean Conc (mg/L): 0.0230 SD: 0.00017 RSD(%): 0.73

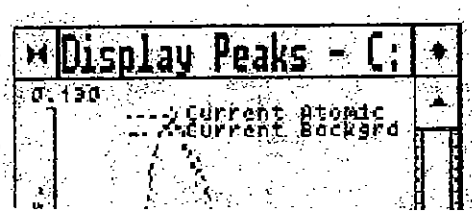
Standard number 2 applied. [0.0250].
Correlation coefficient: 0.99398 Slope: 3.0534

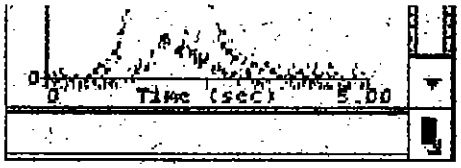
As ID: STD2 1472B Seq. No.: 00006 A/S Pos.: 3 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 3
Replicate 1 Time: 11:40
Peak Area (A-s): 0.143 Peak Height (A): 0.124
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.145
Concentration (mg/L): 0.0476



uL dispensed: 5 from 20, 20 from 3
Replicate 2 Time: 11:43
Peak Area (A-s): 0.146 Peak Height (A): 0.130
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.149
Concentration (mg/L): 0.0487



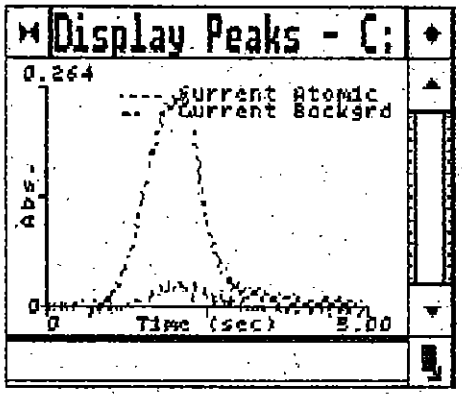


Mean Conc (mg/L): 0.0482 SD: 0.00079 RSD(%): 1.63

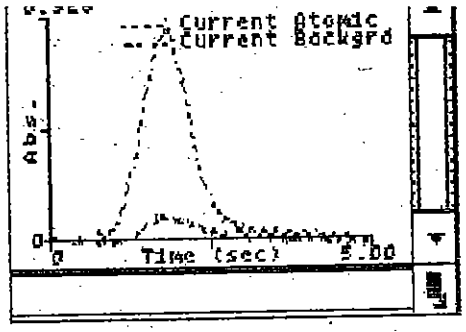
Standard number 3 applied. [0.0500]
Correlation coefficient: 0.99879 Slope: 2.9696

As ID: STD3 1472C Seq. No.: 00007 A/S Pos.: 2 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 2
Replicate 1 Time: 11:46
Peak Area (A-s): 0.287 Peak Height (A): 0.264
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.290
Concentration (mg/L): 0.0975

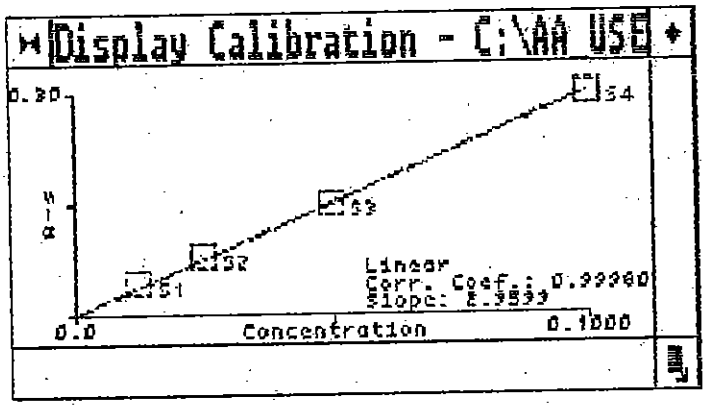


uL dispensed: 5 from 20, 20 from 2
Replicate 2 Time: 11:50
Peak Area (A-s): 0.299 Peak Height (A): 0.328
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.302
Concentration (mg/L): 0.1016



Mean Conc (mg/L): 0.0996 SD: 0.00292 RSD(%): 2.93

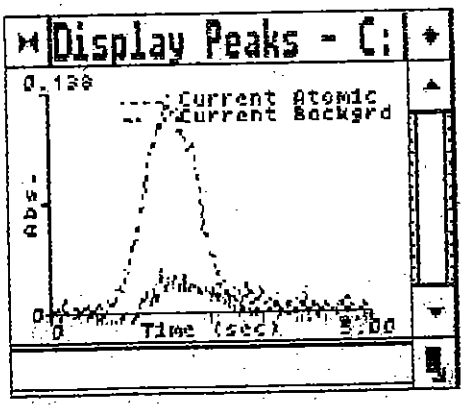
Standard number 4 applied. [0.1000]
Correlation coefficient: 0.99980 Slope: 2.9599



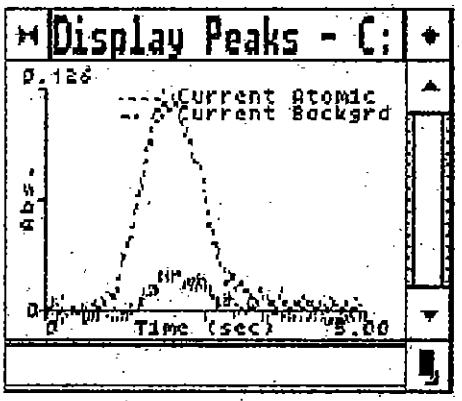
As ID: ICV A1474 Seq. No.: 00008 A/S Pos.: 40 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 40
Replicate 1 Time: 11:55

Peak Area (A-s): 0.142 Peak Height (A): 0.138
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.145
Concentration (mg/L): 0.0490 Corrected Conc (ppm): ---------



uL dispensed: 5 from 20, 20 from 40
Replicate 2 Time: 11:58
Peak Area (A-s): 0.146 Peak Height (A): 0.126
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.149
Concentration (mg/L): 0.0503 Corrected Conc (ppm): ----------

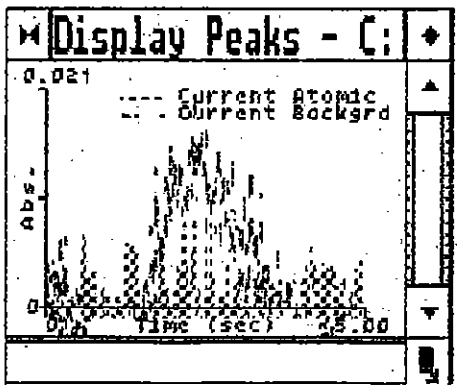


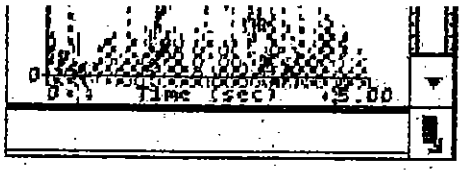
Mean Conc (mg/L): 0.0496 SD: 0.00095 RSD(%): 1.92
Corrected Conc (ppm): ----------

QC sample is within range 0.045 - 0.055

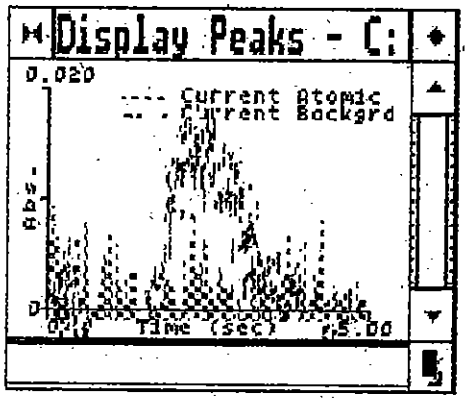
As ID: ICB Seq. No.: 00009 A/S Pos.: 1 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 12:01
Peak Area (A-s): -0.003 Peak Height (A): 0.009
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): -0.000
Concentration (mg/L): -0.0001 Corrected Conc (ppm): ----------





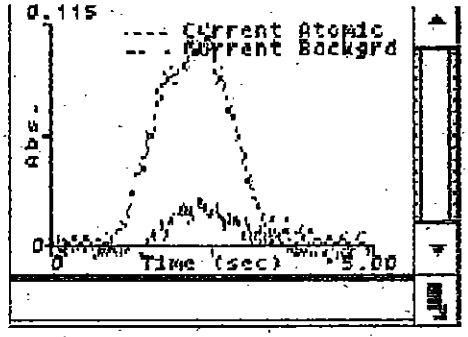
uL dispensed: 5 from 20, 20 from 5
Replicate 2 Time: 12:11
Peak Area (A-s): -0.004 Peak Height (A): 0.009
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): -0.001
Concentration (mg/L): -0.0002 Corrected Conc (ppm): -0.0002



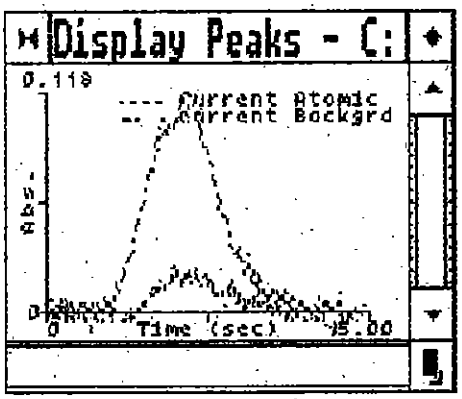
Mean Conc (mg/L): 0.0003 SD: 0.00076 RSD(%): 233.25
Corrected Conc (ppm): 0.0003

As ID: LCS-03M1402 Seq. No.: 00011 A/S Pos.: 6 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 6
Replicate 1 Time: 12:14
Peak Area (A-s): 0.157 Peak Height (A): 0.115
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.160
Concentration (mg/L): 0.0541 Corrected Conc (ppm): 0.0541



uL dispensed: 5 from 20, 20 from 6
Replicate 2 Time: 12:17
Peak Area (A-s): 0.151 Peak Height (A): 0.118
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.154
Concentration (mg/L): 0.0521 Corrected Conc (ppm): 0.0521

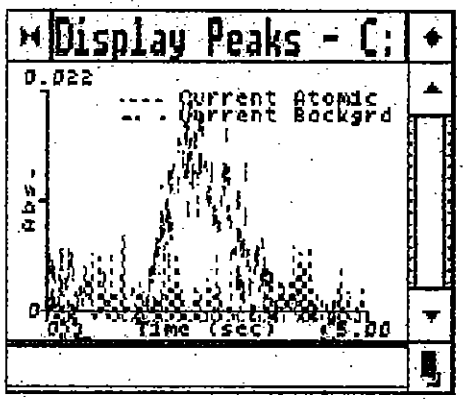


Mean Conc (mg/L): 0.0531 SD: 0.00141 RSD(%): 2.65
Corrected Conc (ppm): 0.0531

As ID: LCSD-03M1402 Seq. No.: 00012 A/S Pos.: 7 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 7
Replicate 1 Time: 12:21
Peak Area (A-s): 0.157 Peak Height (A): 0.107
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.159
Concentration (mg/L): 0.0539 Corrected Conc (ppm): 0.0539

uL dispensed: 5 from 20, 20 from 1
Replicate 2 Time: 12:05
Peak Area (A-s): -0.007 Peak Height (A): 0.008
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): -0.004
Concentration (mg/L): -0.0014 Corrected Conc (ppm): ----------

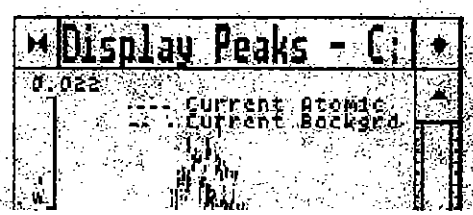


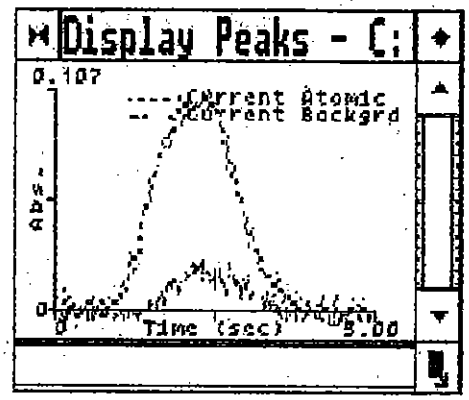
Mean Conc (mg/L): -0.0007 SD: 0.00093 RSD(%): 124.05
Corrected Conc (ppm): ----------

QC sample is within range

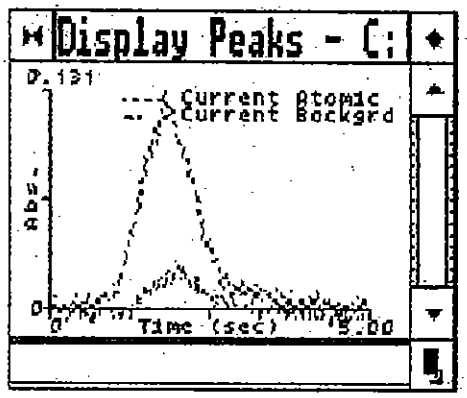
As ID: M-BL 03M1402 Seq. No.: 00010 A/S Pos.: 5 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 5
Replicate 1 Time: 12:08
Peak Area (A-s): -0.000 Peak Height (A): 0.009
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.003
Concentration (mg/L): 0.0009 Corrected Conc (ppm): 0.0009





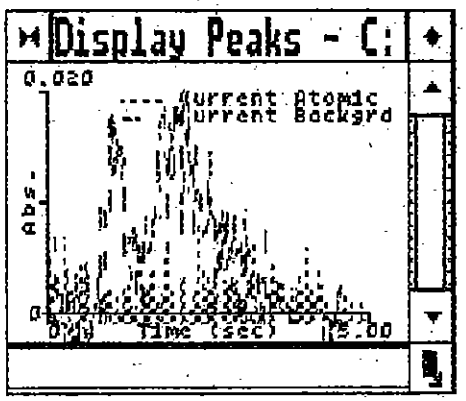
uL dispensed: 5 from 20, 20 from 7
Replicate 2 Time: 12:24
Peak Area (A-s): 0.133 Peak Height (A): 0.131
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.136
Concentration (mg/L): 0.0458 Corrected Conc (ppm): 0.0458



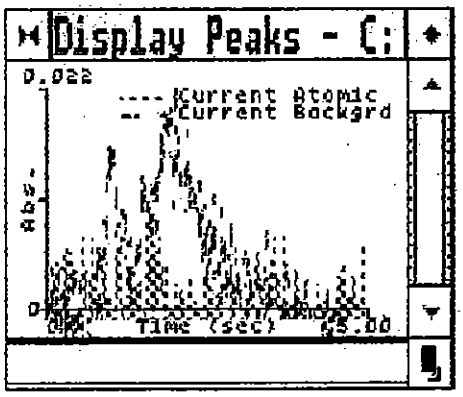
Mean Conc (mg/L): 0.0498 SD: 0.00570 RSD(%): 11.44
Corrected Conc (ppm): 0.0498

As ID: 2933-3 S F=1 Seq. No.: 00013 A/S Pos.: 8 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 8
Replicate 1 Time: 12:27
Peak Area (A-s): -0.006 Peak Height (A): 0.013
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): -0.003
Concentration (mg/L): -0.0010 Corrected Conc (ppm): -0.0010



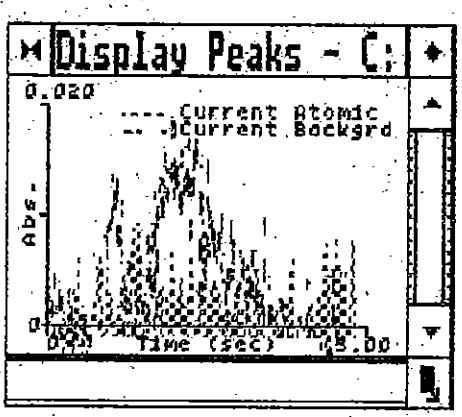
uL dispensed: 5 from 20, 20 from 8
Replicate 2 Time: 12:30
Peak Area (A-s): -0.003 Peak Height (A): 0.010
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): -0.000
Concentration (mg/L): -0.0000 Corrected Conc (ppm): -0.0000



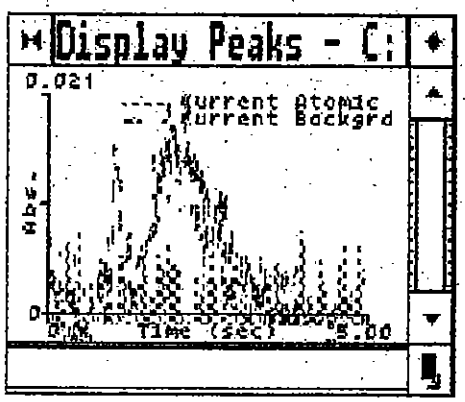
Mean Conc (mg/L): -0.0005 SD: 0.00072 RSD(%): 138.52
Corrected Conc (ppm): -0.0005

As ID: 2933-3 D F=1 Seq. No.: 00014 A/S Pos.: 9 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 9
Replicate 1 Time: 12:34
Peak Area (A-s): 0.001 Peak Height (A): 0.013
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): 0.004
Concentration (mg/L): 0.0013 Corrected Conc (ppm): 0.0013



uL dispensed: 5 from 20, 20 from 9
Replicate 2 Time: 12:37
Peak Area (A-s): -0.002 Peak Height (A): 0.009
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0002 Corrected Conc (ppm): 0.0002

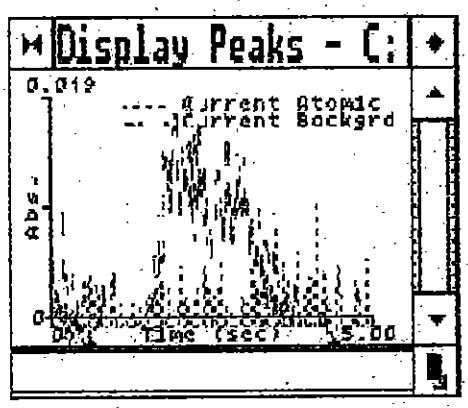


Mean Conc. (mg/L): 0.0007 SD: 0.00082 RSD(%): 109.34
Corrected Conc (ppm): 0.0007

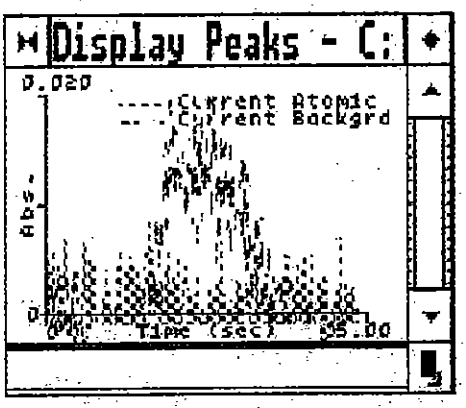
As ID: 2933-3 1/5 F=5 Seq. No.: 00015 A/S Pos.: 10 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 10
Replicate 1 Time: 12:40
Peak Area (A-s): -0.009 Peak Height (A): 0.010

Blank Corrected Pk Area (A-s): -0.000
Concentration (mg/L): -0.0019 Corrected Conc (ppm): -0.010



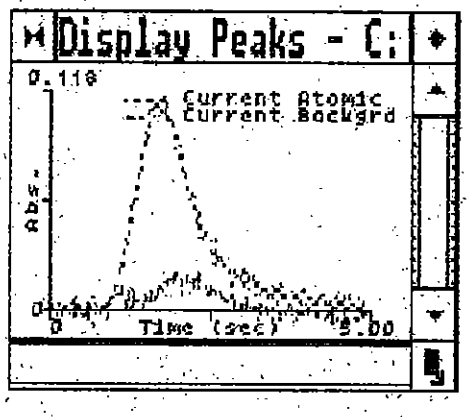
uL dispensed: 5 from 20, 20 from 10
Replicate 2 Time: 12:43
Peak Area (A-s): -0.003 Peak Height (A): 0.009
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): -0.000
Concentration (mg/L): -0.0002 Corrected Conc (ppm): -0.001



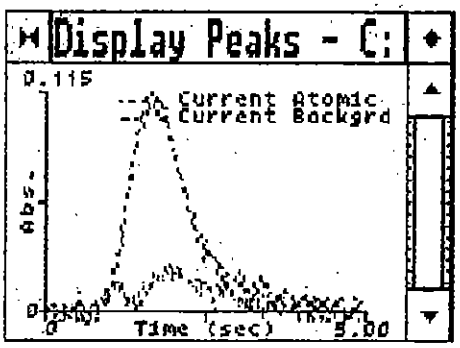
Mean Conc (mg/L): -0.0010 SD: 0.00125 RSD(%): 120.47
Corrected Conc (ppm): -0.005

As ID: 2933-3 MS P=1 Seq. No.: 00016 A/S Pos.: 11 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 11
Replicate 1 Time: 12:47
Peak Area (A-s): 0.133 Peak Height (A): 0.118
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.136
Concentration (mg/L): 0.0459 Corrected Conc (ppm): 0.0459



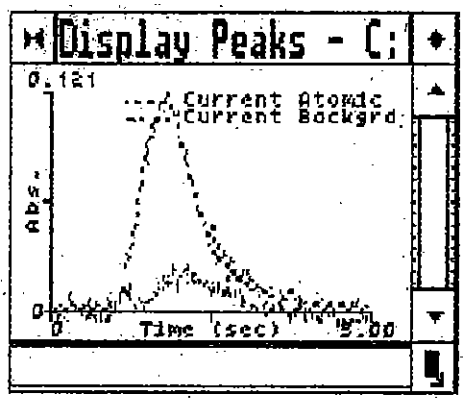
uL dispensed: 5 from 20, 20 from 11
Replicate 2 Time: 12:50
Peak Area (A-s): 0.131 Peak Height (A): 0.115
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.134
Concentration (mg/L): 0.0452 Corrected Conc (ppm): 0.0452



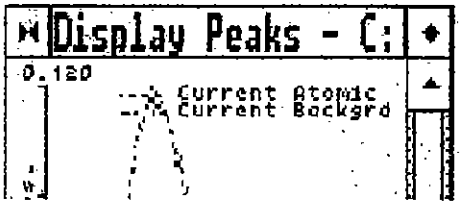
Mean Conc (mg/L): 0.0456 SD: 0.00047 RSD(%): 1.02
Corrected Conc (ppm): 0.0456

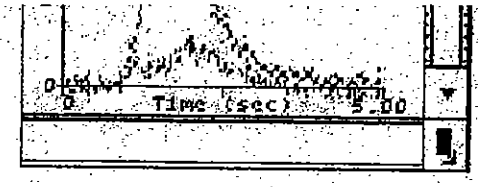
As ID: 2933-3 MSD F=1 Seq. No.: 00017 A/S Pos.: 12 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 12
Replicate 1 Time: 12:53
Peak Area (A-s): 0.136 Peak Height (A): 0.121
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.139
Concentration (mg/L): 0.0469 Corrected Conc (ppm): 0.0469



uL dispensed: 5 from 20, 20 from 12
Replicate 2 Time: 12:56
Peak Area (A-s): 0.133 Peak Height (A): 0.121
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.135
Concentration (mg/L): 0.0458 Corrected Conc (ppm): 0.0458

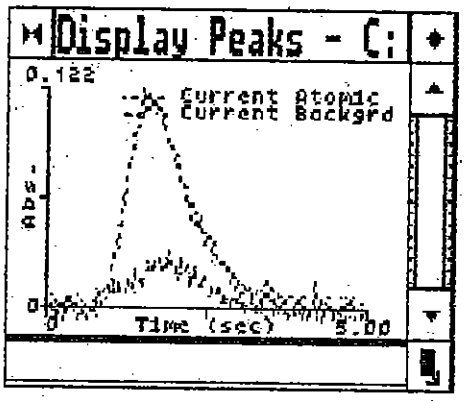




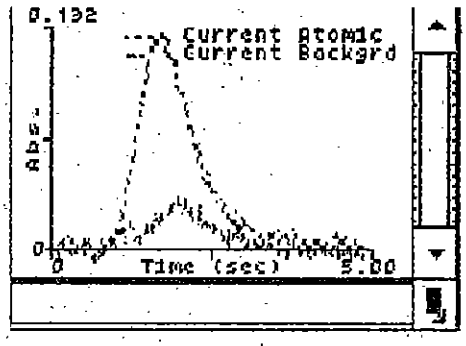
Mean Conc (mg/L): 0.0463 SD: 0.00082 RSD(%): 1.77
Corrected Conc (ppm): 0.0463

As ID: 2933-3 PS F=1 Seq. No.: 00018 A/S Pos.: 13 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 13
Replicate 1 Time: 13:00
Peak Area (A-s): 0.142 Peak Height (A): 0.122
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.144
Concentration (mg/L): 0.0488 Corrected Conc (ppm): 0.0488



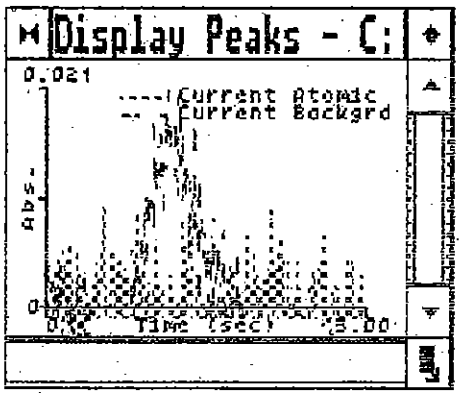
uL dispensed: 5 from 20, 20 from 13
Replicate 2 Time: 13:03
Peak Area (A-s): 0.141 Peak Height (A): 0.132
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.144
Concentration (mg/L): 0.0485 Corrected Conc (ppm): 0.0485



Mean Conc (mg/L): 0.0486 SD: 0.00020 RSD(%): 0.42
Corrected Conc (ppm): 0.0486

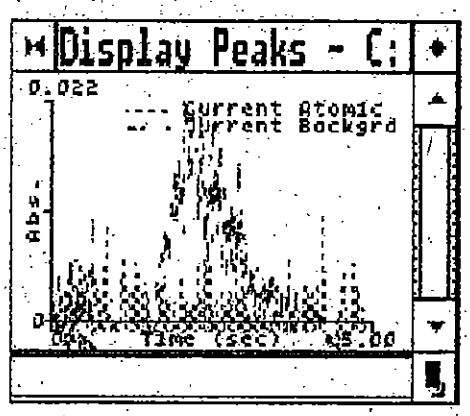
As ID: 2933-1 F=1 Seq. No.: 00019 A/S Pos.: 14 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 14
Replicate 1 Time: 13:06
Peak Area (A-s): -0.001 Peak Height (A): 0.013
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.002
Concentration (mg/L): 0.0006 Corrected Conc (ppm): 0.0006



uL dispensed: 5 from 20, 20 from 14
Replicate 2 Time: 13:09
Peak Area (A-s): -0.003 Peak Height (A): 0.011

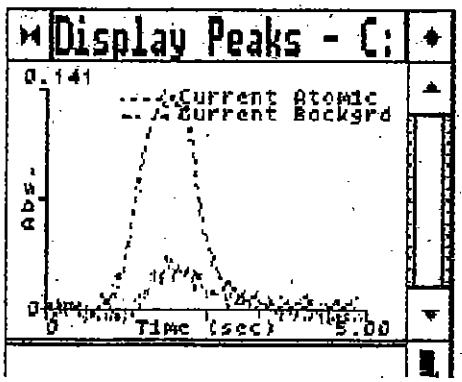
Blank Corrected Pk Area (A-s): -0.000
Concentration (mg/L): -0.0001 Corrected Conc (ppm): -0.0001



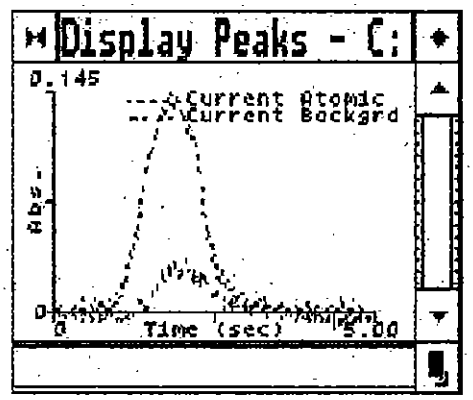
Mean Conc (mg/L): 0.0002 SD: 0.00050 RSD(%): 218.14
Corrected Conc (ppm): 0.0002

As ID: CCV A1474 Seq. No.: 00020 A/S Pos.: 40 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 40
Replicate 1 Time: 13:13
Peak Area (A-s): 0.154 Peak Height (A): 0.141
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.157
Concentration (mg/L): 0.0531 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 40
Replicate 2 Time: 13:16
Peak Area (A-s): 0.149 Peak Height (A): 0.145
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.152
Concentration (mg/L): 0.0515 Corrected Conc (ppm): ----------

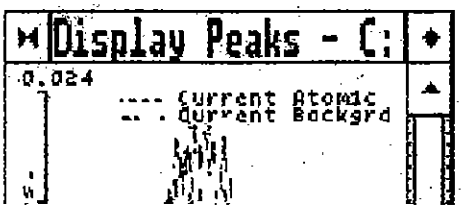


Mean Conc (mg/L): 0.0523 SD: 0.00118 RSD(%): 2.25
Corrected Conc (ppm): ----------

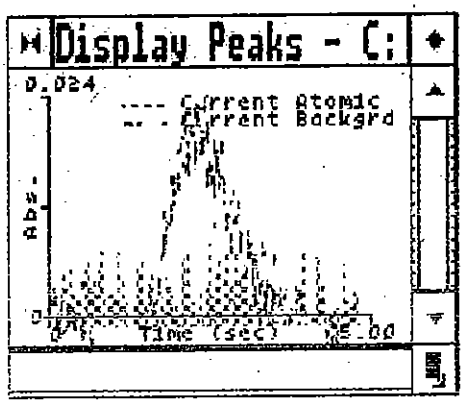
QC sample is within range 0.0425 - 0.0575

As ID: CCB Seq. No.: 00021 A/S Pos.: 1 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 13:19
Peak Area (A-s): 0.000 Peak Height (A): 0.010
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.003
Concentration (mg/L): 0.0010 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 1
Replicate 2 Time: 13:22
Peak Area (A-s): -0.003 Peak Height (A): 0.008
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): -0.001
Concentration (mg/L): -0.0002 Corrected Conc (ppm): ----------

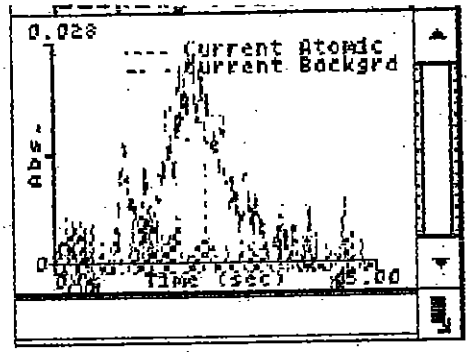


Mean Conc (mg/L): 0.0004 SD: 0.00086 RSD(%): 197.02
Corrected Conc (ppm): ----------

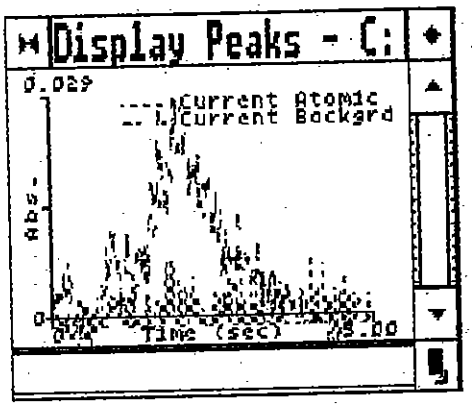
QC sample is within range

As ID: 2933-2 F=1 Seq. No.: 00022 A/S Pos.: 15 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 15
Replicate 1 Time: 13:25
Peak Area (A-s): -0.004 Peak Height (A): 0.010
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): -0.001
Concentration (mg/L): -0.0003 Corrected Conc (ppm): -0.0003



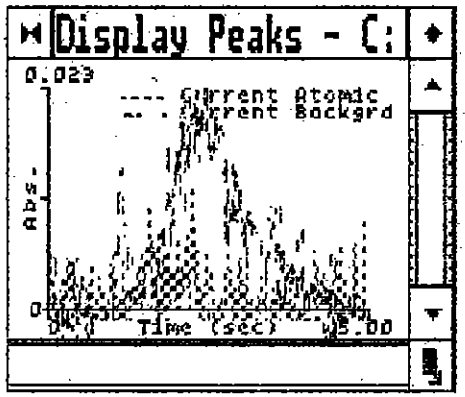
uL dispensed: 5 from 20, 20 from 15
Replicate 2 Time: 13:28
Peak Area (A-s): -0.004 Peak Height (A): 0.009
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): -0.001
Concentration (mg/L): -0.0003 Corrected Conc (ppm): -0.0003



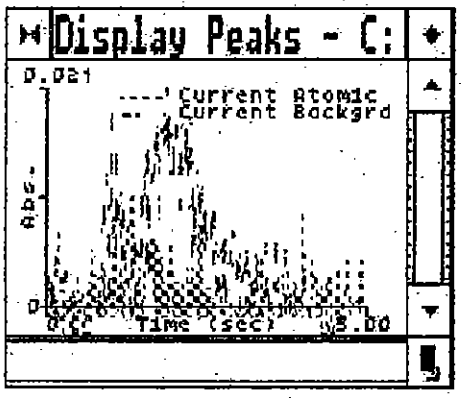
Mean Conc (mg/L): -0.0003 SD: 0.00002 RSD(%): 5.48
Corrected Conc (ppm): -0.0003

As ID: 2933-4 F=1 Seq. No.: 00023 A/S Pos.: 16 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 16
Replicate 1 Time: 13:31
Peak Area (A-s): 0.003 Peak Height (A): 0.013
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.006
Concentration (mg/L): 0.0021 Corrected Conc (ppm): 0.0021



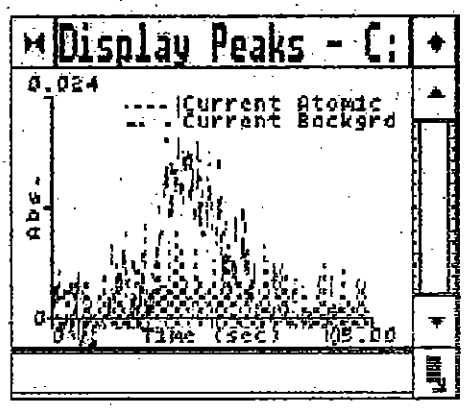
uL dispensed: 5 from 20, 20 from 16
Replicate 2 Time: 13:35
Peak Area (A-s): 0.001 Peak Height (A): 0.012
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.004
Concentration (mg/L): 0.0014 Corrected Conc (ppm): 0.0014



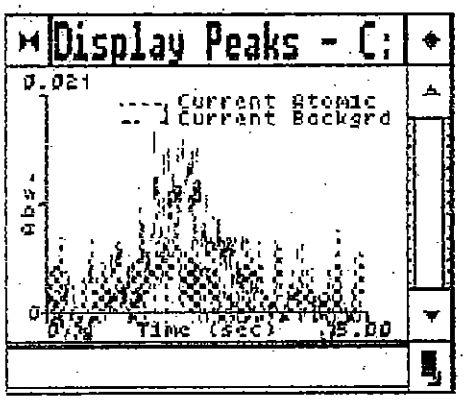
Mean Conc (mg/L): 0.0017 SD: 0.00044 RSD(%): 25.43
Corrected Conc (ppm): 0.0017

As ID: 2933-5 P=1 Seq. No.: 00024 A/S Pos.: 17 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 17
Replicate 1 Time: 13:38
Peak Area (A-s): 0.002 Peak Height (A): 0.011
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.005
Concentration (mg/L): 0.0016 Corrected Conc (ppm): 0.0016



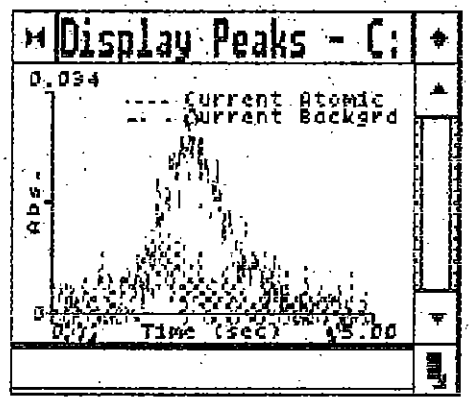
uL dispensed: 5 from 20, 20 from 17
Replicate 2 Time: 13:41
Peak Area (A-s): 0.005 Peak Height (A): 0.012
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.008
Concentration (mg/L): 0.0028 Corrected Conc (ppm): 0.0028



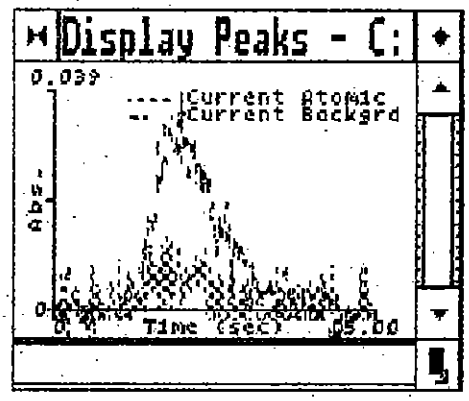
Mean Conc (mg/L): 0.0022 SD: 0.00088 RSD(%): 39.99
Corrected Conc (ppm): 0.0022

As ID: 2933-6 F=1 Seq. No.: 00025 A/S Pos.: 18 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 18
Replicate 1 Time: 13:44
Peak Area (A-s): 0.006 Peak Height (A): 0.014
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.009
Concentration (mg/L): 0.0031 Corrected Conc (ppm): 0.0031



uL dispensed: 5 from 20, 20 from 18
Replicate 2 Time: 13:47
Peak Area (A-s): 0.007 Peak Height (A): 0.014
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.010
Concentration (mg/L): 0.0033 Corrected Conc (ppm): 0.0033

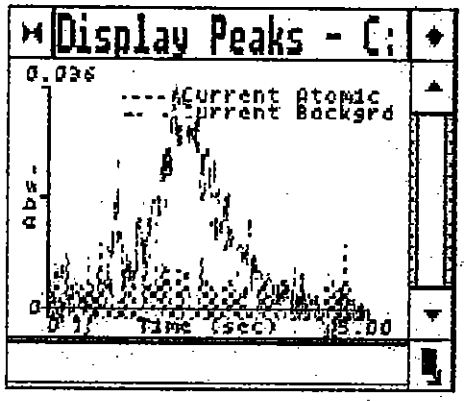


Mean Conc (mg/L): 0.0032 SD: 0.00013 RSD(%): 3.99
Corrected Conc (ppm): 0.0032

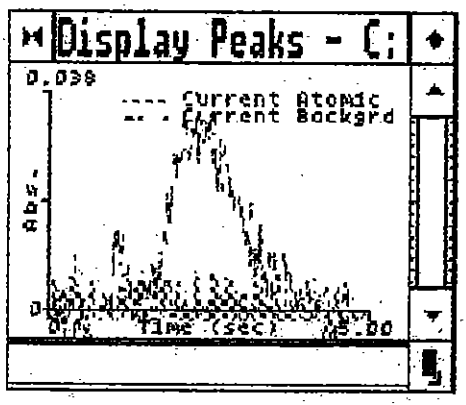
As ID: 2866-1 P=1 Seq. No.: 00026 A/S Pos.: 19 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 19
Replicate 1 Time: 13:50
Peak Area (A-s): 0.000 Peak Height (A): 0.011

Concentration (mg/L): 0.0010 Corrected Conc (ppm): 0.0010

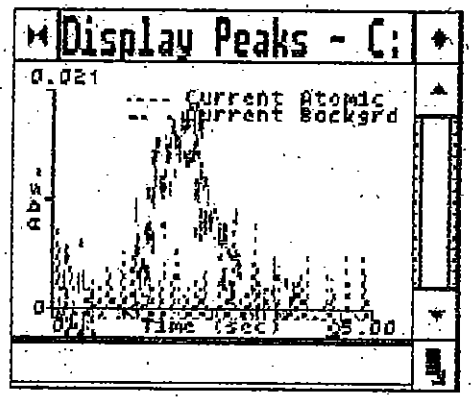


uL dispensed: 5 from 20, 20 from 19
Replicate 2 Time: 13:53
Peak Area (A-s): -0.001 Peak Height (A): 0.011
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.002
Concentration (mg/L): 0.0008 Corrected Conc (ppm): 0.0008

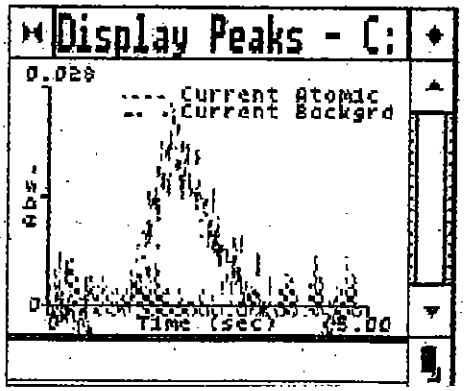


Mean Conc (mg/L): 0.0009 SD: 0.00020 RSD(%): 22.23
Corrected Conc (ppm): 0.0009

uL dispensed: 5 from 20, 20 from 21
Replicate 1 Time: 13:56
Peak Area (A-s): -0.007 Peak Height (A): 0.009
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): -0.004
Concentration (mg/L): -0.0012 Corrected Conc (ppm): -0.0012



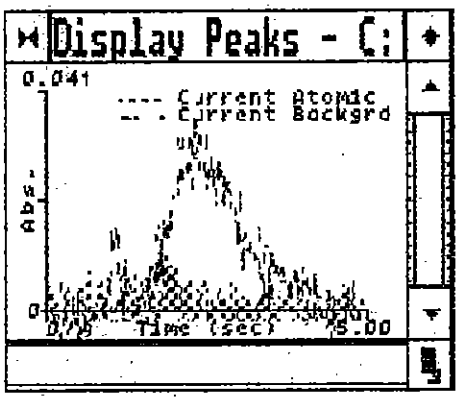
uL dispensed: 5 from 20, 20 from 21
Replicate 2 Time: 14:00
Peak Area (A-s): -0.007 Peak Height (A): 0.007
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): -0.004
Concentration (mg/L): -0.0014 Corrected Conc (ppm): -0.0014



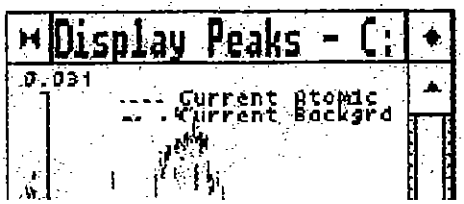
Mean Conc (mg/L): -0.0013 SD: 0.00012 RSD(%): 8.87
Corrected Conc (ppm): -0.0013

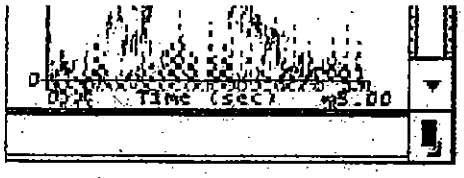
As ID: 2866-3 F=1 Seq. No.: 00028 A/S Pos.: 22 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 22
Replicate 1 Time: 14:03
Peak Area (A-s): 0.001 Peak Height (A): 0.012
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.004
Concentration (mg/L): 0.0013 Corrected Conc (ppm): 0.0013



uL dispensed: 5 from 20, 20 from 22
Replicate 2 Time: 14:06
Peak Area (A-s): -0.003 Peak Height (A): 0.010
Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): -0.000
Concentration (mg/L): -0.0001 Corrected Conc (ppm): -0.0001

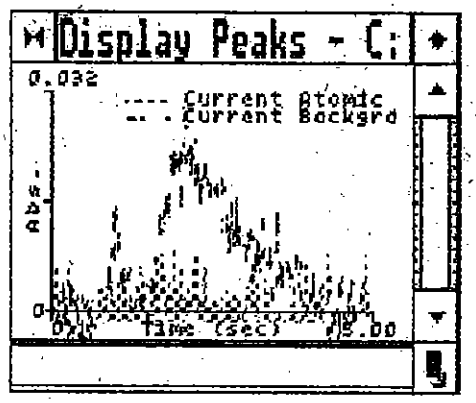




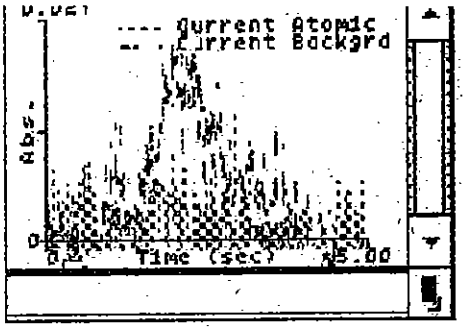
Mean Conc (mg/L): 0.0006 SD: 0.00100 RSD(%): 162.45
Corrected Conc (ppm): 0.0006

As ID: 2866-4 F=1 Seq. No.: 00029 A/S Pos.: 23 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 23
Replicate 1 Time: 14:09
Peak Area (A-s): -0.002 Peak Height (A): 0.009
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.000
Concentration (mg/L): 0.0001 Corrected Conc (ppm): 0.0001



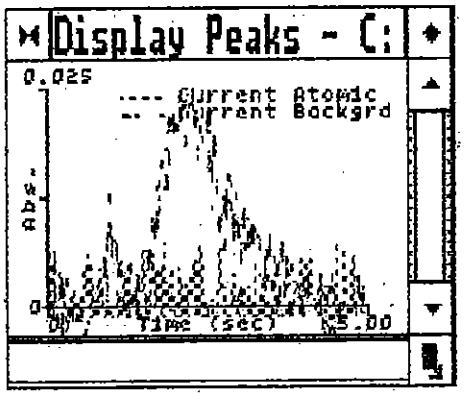
uL dispensed: 5 from 20, 20 from 23
Replicate 2 Time: 14:12
Peak Area (A-s): 0.004 Peak Height (A): 0.013
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.006
Concentration (mg/L): 0.0022 Corrected Conc (ppm): 0.0022



Mean Conc (mg/L): 0.0012 SD: 0.00143 RSD(%): 123.96
Corrected Conc (ppm): 0.0012

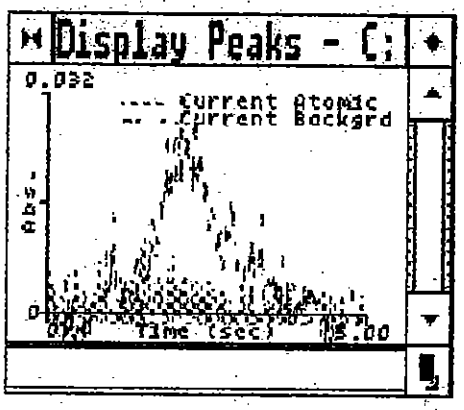
As ID: 2866-5 F=1 Seq. No.: 00030 A/S Pos.: 24 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 24
Replicate 1 Time: 14:15
Peak Area (A-s): -0.001 Peak Height (A): 0.008
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.002
Concentration (mg/L): 0.0006 Corrected Conc (ppm): 0.0006



uL dispensed: 5 from 20, 20 from 24
Replicate 2 Time: 14:19
Peak Area (A-s): -0.002 Peak Height (A): 0.011

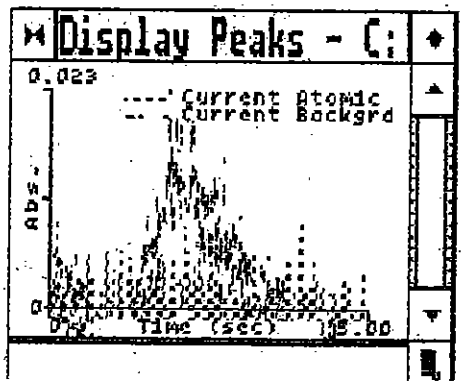
Concentration (mg/L): 0.0002 Corrected Conc (ppm): 0.0002



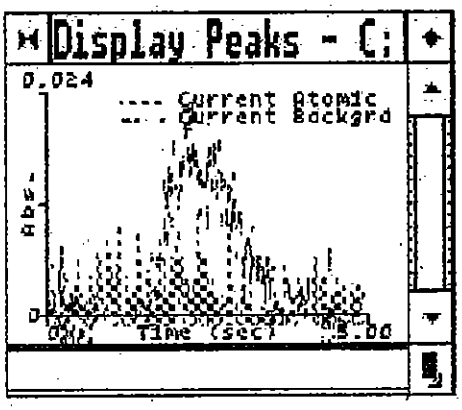
Mean Conc (mg/L): 0.0004 SD: 0.00029 RSD(%): 68.89
Corrected Conc (ppm): 0.0004

As ID: 2866-6 F=1 Seq. No.: 00031 A/S Pos.: 25 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 25
Replicate 1 Time: 14:22
Peak Area (A-s): -0.003 Peak Height (A): 0.010
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.000
Concentration (mg/L): 0.0001 Corrected Conc (ppm): 0.0001



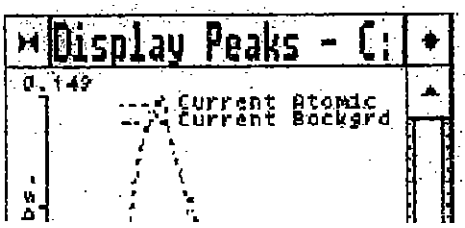
uL dispensed: 5 from 20, 20 from 25
Replicate 2 Time: 14:25
Peak Area (A-s): -0.001 Peak Height (A): 0.011
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.002
Concentration (mg/L): 0.0008 Corrected Conc (ppm): 0.0008



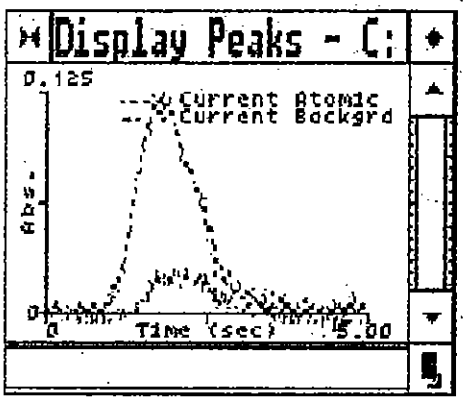
Mean Conc (mg/L): 0.0004 SD: 0.00049 RSD(%): 112.63
Corrected Conc (ppm): 0.0004

As ID: CCV A1474 Seq. No.: 00032 A/S Pos.: 40 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 40
Replicate 1 Time: 14:28
Peak Area (A-s): 0.149 Peak Height (A): 0.149
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.152
Concentration (mg/L): 0.0514 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 40
Replicate 2 Time: 14:32
Peak Area (A-s): 0.142 Peak Height (A): 0.125
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.145
Concentration (mg/L): 0.0491 Corrected Conc (ppm): ----------

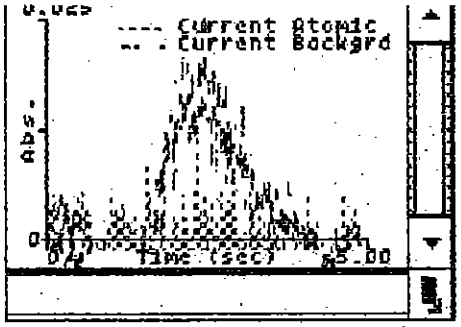


Mean Conc (mg/L): 0.0502 SD: 0.00166 RSD(%): 3.30
Corrected Conc (ppm): ----------

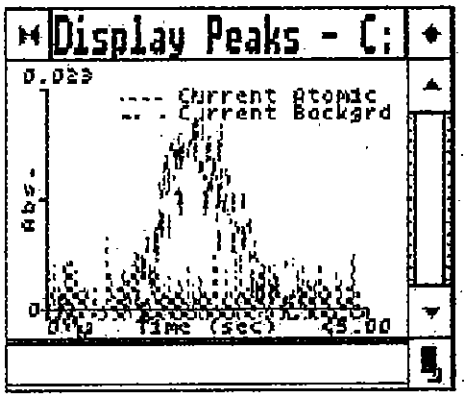
QC sample is within range 0.0425 - 0.0575

As ID: CCB Seq. No.: 00033 A/S Pos.: 1 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 14:35
Peak Area (A-s): -0.006 Peak Height (A): 0.012
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): -0.003
Concentration (mg/L): -0.0011 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 1
Replicate 2 Time: 14:38
Peak Area (A-s): -0.001 Peak Height (A): 0.008
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0005 Corrected Conc (ppm): ----------

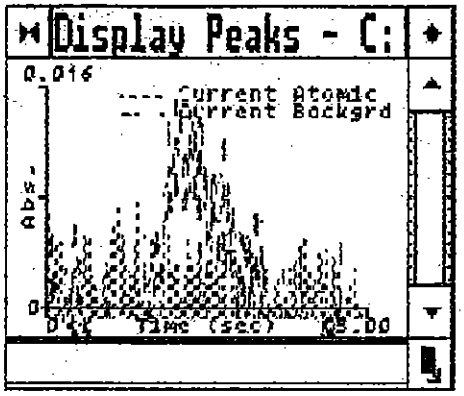


Mean Conc (mg/L): -0.0003 SD: 0.00113 RSD(%): 353.69
Corrected Conc (ppm): ----------

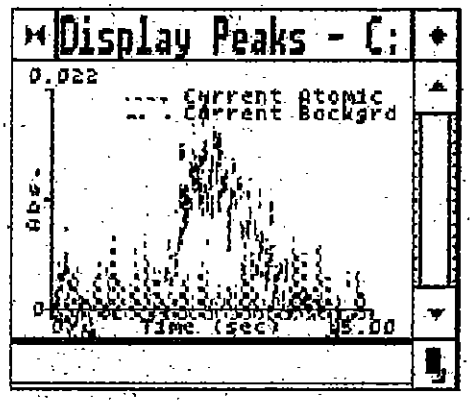
QC sample is within range

As ID: 2866-7 F=1 Seq. No.: 00034 A/S Pos.: 26 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 26
Replicate 1 Time: 14:41
Peak Area (A-s): -0.003 Peak Height (A): 0.008
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): -0.000
Concentration (mg/L): -0.0001 Corrected Conc (ppm): -0.0001



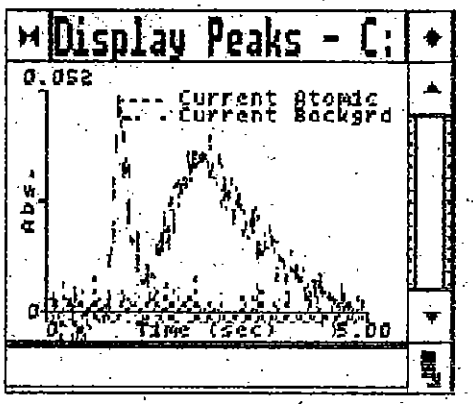
uL dispensed: 5 from 20, 20 from 26
Replicate 2 Time: 14:44
Peak Area (A-s): -0.002 Peak Height (A): 0.008
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0002 Corrected Conc (ppm): 0.0002



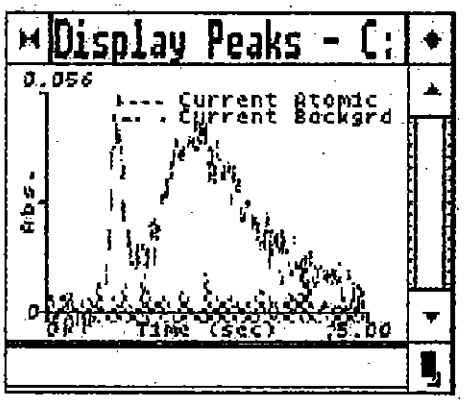
Mean Conc (mg/L): 0.0001 SD: 0.00024 RSD(%): 312.98
Corrected Conc (ppm): 0.0001

As ID: 2843-1 F=1 Seq. No.: 00035 A/S Pos.: 27 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 27
Replicate 1 Time: 14:47
Peak Area (A-s): -0.004 Peak Height (A): 0.010
Background Pk Area (A-s): 0.071 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): -0.001
Concentration (mg/L): -0.0004 Corrected Conc (ppm): -0.0004



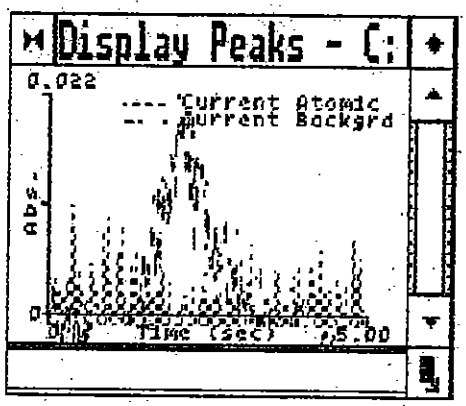
uL dispensed: 5 from 20, 20 from 27
Replicate 2 Time: 14:51
Peak Area (A-s): -0.001 Peak Height (A): 0.014
Background Pk Area (A-s): 0.093 Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0005 Corrected Conc (ppm): 0.0005



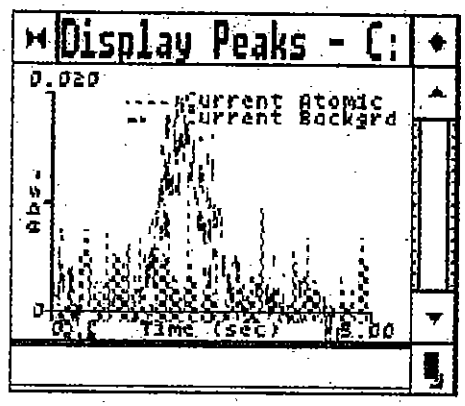
Mean Conc (mg/L): 0.0000 SD: 0.00063 RSD(%): 1687.63
Corrected Conc (ppm): 0.0000

As ID: 2843-2 F=1 Seq. No.: 00036 A/S Pos.: 28 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 28
Replicate 1 Time: 14:54
Peak Area (A-s): -0.002 Peak Height (A): 0.011
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.022
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 28
Replicate 2 Time: 14:57
Peak Area (A-s): -0.002 Peak Height (A): 0.010
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0002 Corrected Conc (ppm): 0.0002

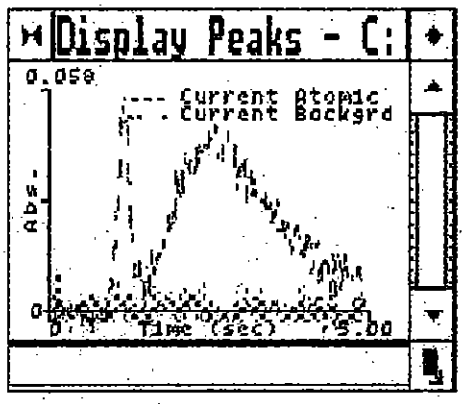


Mean Conc (mg/L): 0.0003 SD: 0.00018 RSD(%): 53.40
Corrected Conc (ppm): 0.0003

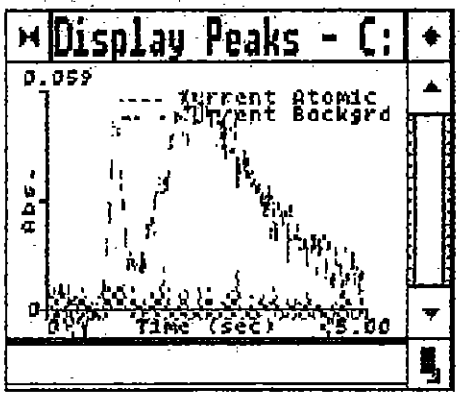
As ID: 2843-3 F=1 Seq. No.: 00037 A/S Pos.: 29 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 29
Replicate 1 Time: 15:01

Concentration (mg/L): 0.0007 Corrected Conc (ppm): 0.0007

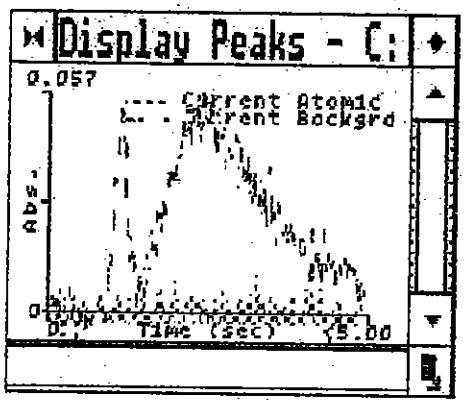


uL dispensed: 5 from 20, 20 from 29
Replicate 2 Time: 15:04
Peak Area (A-s): -0.002 Peak Height (A): 0.012
Background Pk Area (A-s): 0.121 Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0002 Corrected Conc (ppm): 0.0002

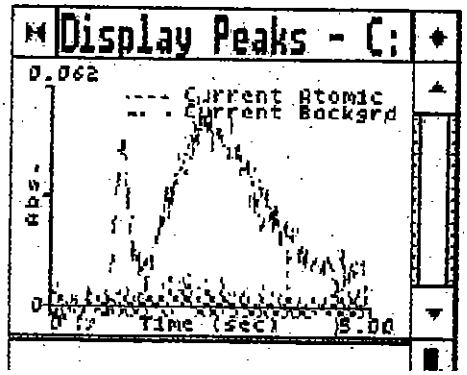


Mean Conc (mg/L): 0.0004 SD: 0.00030 RSD(%): 67.41
Corrected Conc (ppm): 0.0004

uL dispensed: 5 from 20, 20 from 30
Replicate 1 Time: 15:07
Peak Area (A-s): -0.004 Peak Height (A): 0.010
Background Pk Area (A-s): 0.111 Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): -0.001
Concentration (mg/L): -0.0004 Corrected Conc (ppm): -0.0004



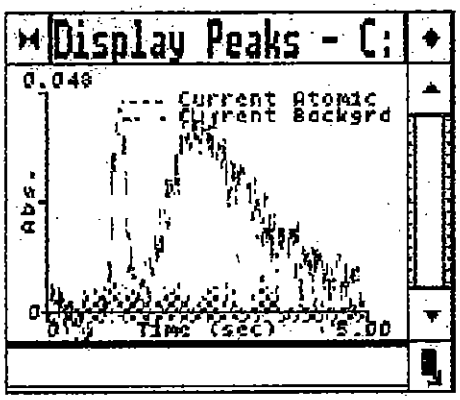
uL dispensed: 5 from 20, 20 from 30
Replicate 2 Time: 15:10
Peak Area (A-s): 0.001 Peak Height (A): 0.010
Background Pk Area (A-s): 0.107 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.004
Concentration (mg/L): 0.0014 Corrected Conc (ppm): 0.0014



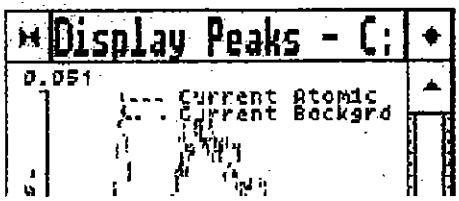
Mean Conc (mg/L): 0.0005 SD: 0.00133 RSD(%): 263.39
Corrected Conc (ppm): 0.0005

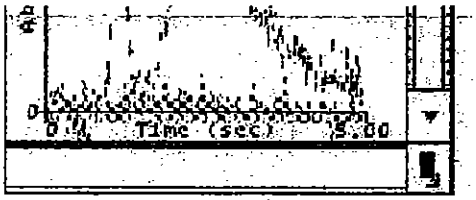
As ID: 2843-5 F=1 Seq. No.: 00039 A/S Pos.: 31 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 31
Replicate 1 Time: 15:14
Peak Area (A-s): -0.001 Peak Height (A): 0.009
Background Pk Area (A-s): 0.083 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.002
Concentration (mg/L): 0.0006 Corrected Conc (ppm): 0.0006



uL dispensed: 5 from 20, 20 from 31
Replicate 2 Time: 15:17
Peak Area (A-s): -0.002 Peak Height (A): 0.009
Background Pk Area (A-s): 0.087 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0005 Corrected Conc (ppm): 0.0005

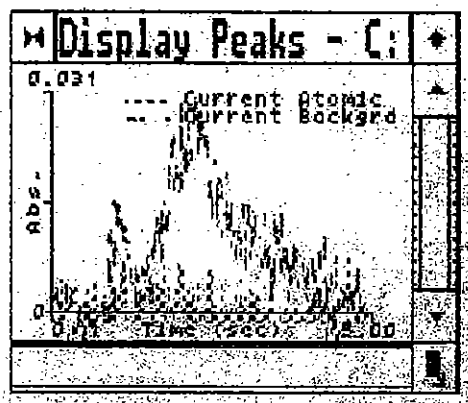




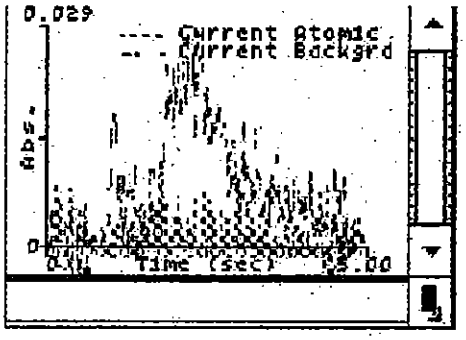
Mean Conc (mg/L): 0.0005 SD: 0.00008 RSD(%): 15.52
Corrected Conc (ppm): 0.0005

As ID: 2843-6 F=1 Seq. No.: 00040 A/S Pos.: 32 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 32
Replicate 1 Time: 15:20
Peak Area (A-s): -0.004 Peak Height (A): 0.008
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): -0.001
Concentration (mg/L): -0.0002 Corrected Conc (ppm): -0.0002



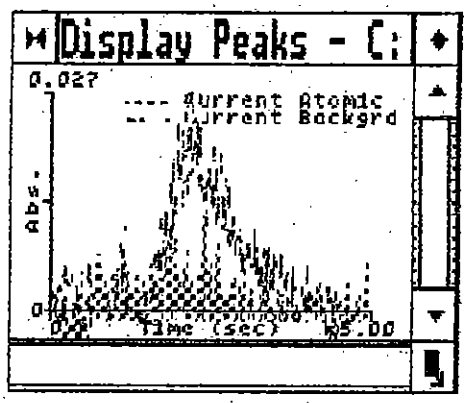
uL dispensed: 5 from 20, 20 from 32
Replicate 2 Time: 15:23
Peak Area (A-s): 0.001 Peak Height (A): 0.011
Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.004
Concentration (mg/L): 0.0013 Corrected Conc (ppm): 0.0013



Mean Conc (mg/L): 0.0005 SD: 0.00107 RSD(%): 206.36
Corrected Conc (ppm): 0.0005

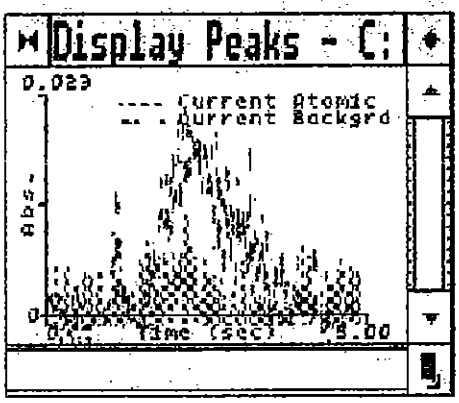
As ID: 2843-7 F=1 Seq. No.: 00041 A/S Pos.: 33 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 33
Replicate 1 Time: 15:26
Peak Area (A-s): 0.001 Peak Height (A): 0.013
Background Pk Area (A-s): 0.020 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 33
Replicate 2 Time: 15:30
Peak Area (A-s): -0.001 Peak Height (A): 0.010

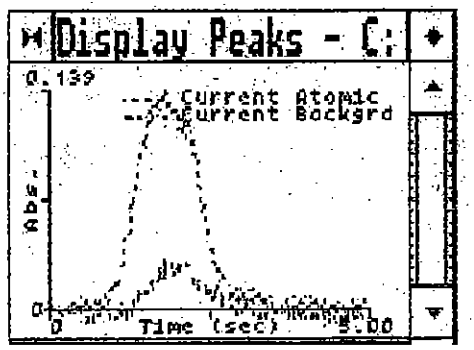
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.002
Concentration (mg/L): 0.0006 Corrected Conc (ppm): 0.0006



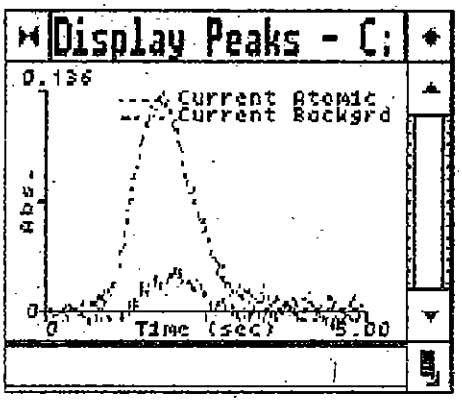
Mean Conc (mg/L): 0.0009 SD: 0.00035 RSD(%): 39.69
Corrected Conc (ppm): 0.0009

As ID: CCV A1474 Seq. No.: 00042 A/S Pos.: 40 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 40
Replicate 1 Time: 15:33
Peak Area (A-s): 0.158 Peak Height (A): 0.139
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.161
Concentration (mg/L): 0.0544 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 40
Replicate 2 Time: 15:36
Peak Area (A-s): 0.155 Peak Height (A): 0.136
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.157
Concentration (mg/L): 0.0532 Corrected Conc (ppm): ----------

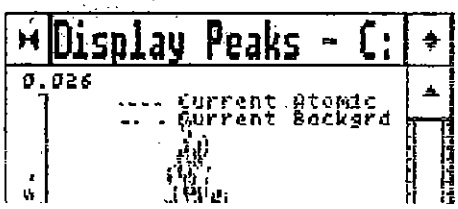


Mean Conc (mg/L): 0.0538 SD: 0.00083 RSD(%): 1.55
Corrected Conc (ppm): ----------

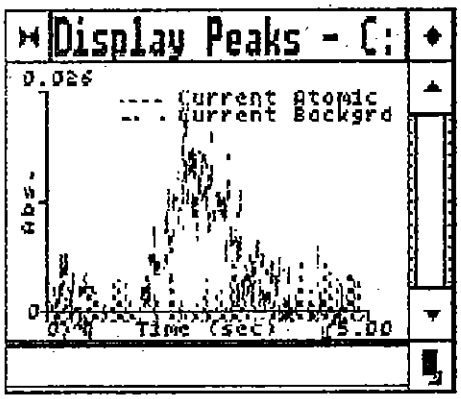
QC sample is within range 0.0425 - 0.0575

As ID: CCB Seq. No.: 00043 A/S Pos.: 1 Date: 04/29/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 15:39
Peak Area (A-s): -0.001 Peak Height (A): 0.010
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.002
Concentration (mg/L): 0.0006 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 1
Replicate 2 Time: 15:42
Peak Area (A-s): -0.011 Peak Height (A): 0.006
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): -0.008
Concentration (mg/L): -0.0026 Corrected Conc (ppm): ----------



Mean Conc (mg/L): -0.0010 SD: 0.00231 RSD(%): 233.85
Corrected Conc (ppm): ----------

QC sample is within range

Level C Data Package Deliverables

Wet Chemistry

Applied P & Ch Laboratory

Applied P & Ch Laboratory

Wet Analysis Results for Method SM2320B

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	SM2320B
Project ID:	JPL	Service ID:	32866	Collected by:	Leo Williamson

Component Name: Bicarbonate
CAS No:

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-2866-1	DUPE-3-2Q03	Water	04/24/03	04/24/03	04/29/03	03W2617	mg/L	2	166	
03-2866-2	EB-5-4/24/03	Water	04/24/03	04/24/03	04/29/03	03W2617	mg/L	2	<2	U
03-2866-3	MW-20-1	Water	04/24/03	04/24/03	04/29/03	03W2617	mg/L	2	164	
03-2866-4	MW-20-2	Water	04/24/03	04/24/03	04/29/03	03W2617	mg/L	2	153	
03-2866-5	MW-20-3	Water	04/24/03	04/24/03	04/29/03	03W2617	mg/L	2	202	
03-2866-6	MW-20-4	Water	04/24/03	04/24/03	04/29/03	03W2617	mg/L	2	115	
03-2866-7	MW-20-5	Water	04/24/03	04/24/03	04/29/03	03W2617	mg/L	2	114	
03W2617-MB-01	03W2617-MB-01	Water	04/29/03	04/29/03	04/29/03	03W2617	mg/L	2	<2	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory

Wet Analysis Results for Method SM2320B

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	SM2320B
Project ID:	JPL	Service ID:	32866	Collected by:	Leo Williamson

Component Name: Carbonate
CAS No:

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-2866-1	DUPE-3-2Q03	Water	04/24/03	04/24/03	04/29/03	03W2617	mg-$CaCO_3$/L	2	<2	U
03-2866-2	EB-5-4/24/03	Water	04/24/03	04/24/03	04/29/03	03W2617	mg-$CaCO_3$/L	2	<2	U
03-2866-3	MW-20-1	Water	04/24/03	04/24/03	04/29/03	03W2617	mg-$CaCO_3$/L	2	<2	U
03-2866-4	MW-20-2	Water	04/24/03	04/24/03	04/29/03	03W2617	mg-$CaCO_3$/L	2	<2	U
03-2866-5	MW-20-3	Water	04/24/03	04/24/03	04/29/03	03W2617	mg-$CaCO_3$/L	2	<2	U
03-2866-6	MW-20-4	Water	04/24/03	04/24/03	04/29/03	03W2617	mg-$CaCO_3$/L	2	20.4	
03-2866-7	MW-20-5	Water	04/24/03	04/24/03	04/29/03	03W2617	mg-$CaCO_3$/L	2	38.4	
03W2617-MB-01	03W2617-MB-01	Water	04/29/03	04/29/03	04/29/03	03W2617	mg-$CaCO_3$/L	2	<2	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory

Wet Analysis Results for Method 9040B

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	9040B
Project ID:	JPL	Service ID:	32866	Collected by:	Leo Williamson

Component Name: pH
CAS No: 10-29-7

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-2866-1	DUPE-3-2Q03	Water	04/24/03	04/24/03	04/24/03	03W2546	pH unit	0.01	7.66	
03-2866-2	EB-5-4/24/03	Water	04/24/03	04/24/03	04/24/03	03W2546	pH unit	0.01	6.21	
03-2866-3	MW-20-1	Water	04/24/03	04/24/03	04/24/03	03W2546	pH unit	0.01	7.64	
03-2866-4	MW-20-2	Water	04/24/03	04/24/03	04/24/03	03W2546	pH unit	0.01	7.71	
03-2866-5	MW-20-3	Water	04/24/03	04/24/03	04/24/03	03W2546	pH unit	0.01	7.90	
03-2866-6	MW-20-4	Water	04/24/03	04/24/03	04/24/03	03W2546	pH unit	0.01	8.79	
03-2866-7	MW-20-5	Water	04/24/03	04/24/03	04/24/03	03W2546	pH unit	0.01	9.08	
03W2546-MB-01	03W2546-MB-01	Water	04/24/03	04/24/03	04/24/03	03W2546	pH unit	0.01	6.83	

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory

Wet Analysis Results for Method 160.1

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	160.1
Project ID:	JPL	Service ID:	32866	Collected by:	Leo Williamson

Component Name: Solids, Total Dissolved (TDS)
CAS No: 10-33-3

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-2866-1	DUPE-3-2Q03	Water	04/24/03	04/24/03	04/28/03	03W2607	mg/L	10	298	
03-2866-2	EB-5-4/24/03	Water	04/24/03	04/24/03	04/28/03	03W2607	mg/L	10	<10	U
03-2866-3	MW-20-1	Water	04/24/03	04/24/03	04/28/03	03W2607	mg/L	10	311	
03-2866-4	MW-20-2	Water	04/24/03	04/24/03	04/28/03	03W2607	mg/L	10	235	
03-2866-5	MW-20-3	Water	04/24/03	04/24/03	04/28/03	03W2607	mg/L	10	333	
03-2866-6	MW-20-4	Water	04/24/03	04/24/03	04/28/03	03W2607	mg/L	10	201	
03-2866-7	MW-20-5	Water	04/24/03	04/24/03	04/28/03	03W2607	mg/L	10	347	
03W2607-MB-01	03W2607-MB-01	Water	04/28/03	04/28/03	04/28/03	03W2607	mg/L	10	<10	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory

Wet Analysis Results for Method 7196

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	7196
Project ID:	JPL	Service ID:	32866	Collected by:	Leo Williamson

Component Name: Chromium (VI)
CAS No: 1333-82-0

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-2866-1	DUPE-3-2Q03	Water	04/24/03	04/24/03	04/24/03	03W2542	mg/L	0.01	<0.01	U
03-2866-2	EB-5-4/24/03	Water	04/24/03	04/24/03	04/24/03	03W2542	mg/L	0.01	<0.01	U
03-2866-3	MW-20-1	Water	04/24/03	04/24/03	04/24/03	03W2542	mg/L	0.01	<0.01	U
03-2866-4	MW-20-2	Water	04/24/03	04/24/03	04/24/03	03W2542	mg/L	0.01	<0.01	U
03-2866-5	MW-20-3	Water	04/24/03	04/24/03	04/24/03	03W2542	mg/L	0.01	<0.01	U
03-2866-6	MW-20-4	Water	04/24/03	04/24/03	04/24/03	03W2542	mg/L	0.01	<0.01	U
03-2866-7	MW-20-5	Water	04/24/03	04/24/03	04/24/03	03W2542	mg/L	0.01	<0.01	U
03W2542-MB-01	03W2542-MB-01	Water	04/24/03	04/24/03	04/24/03	03W2542	mg/L	0.01	<0.01	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory

Wet Analysis Results for Method 314.0

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	314.0
Project ID:	JPL	Service ID:	32866	Collected by:	Leo Williamson

Component Name: Perchlorate
CAS No:

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-2866-1	DUPE-3-2Q03	Water	04/24/03	04/24/03	04/24/03	03W2531	μg/L	4	<4	U
03-2866-2	EB-5-4/24/03	Water	04/24/03	04/24/03	04/24/03	03W2531	μg/L	4	<4	U
03-2866-3	MW-20-1	Water	04/24/03	04/24/03	04/24/03	03W2531	μg/L	4	<4	U
03-2866-4	MW-20-2	Water	04/24/03	04/24/03	04/24/03	03W2531	μg/L	4	<4	U
03-2866-5	MW-20-3	Water	04/24/03	04/24/03	04/29/03	03W2612	μg/L	4	<4	U
03-2866-6	MW-20-4	Water	04/24/03	04/24/03	04/29/03	03W2612	μg/L	8	124	
03-2866-7	MW-20-5	Water	04/24/03	04/24/03	04/29/03	03W2612	μg/L	4	<4	U
03W2531-MB-01	03W2531-MB-01	Water	04/24/03	04/24/03	04/24/03	03W2531	μg/L	4	<4	U
03W2612-MB-01	03W2612-MB-01	Water	04/29/03	04/29/03	04/29/03	03W2612	μg/L	4	<4	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

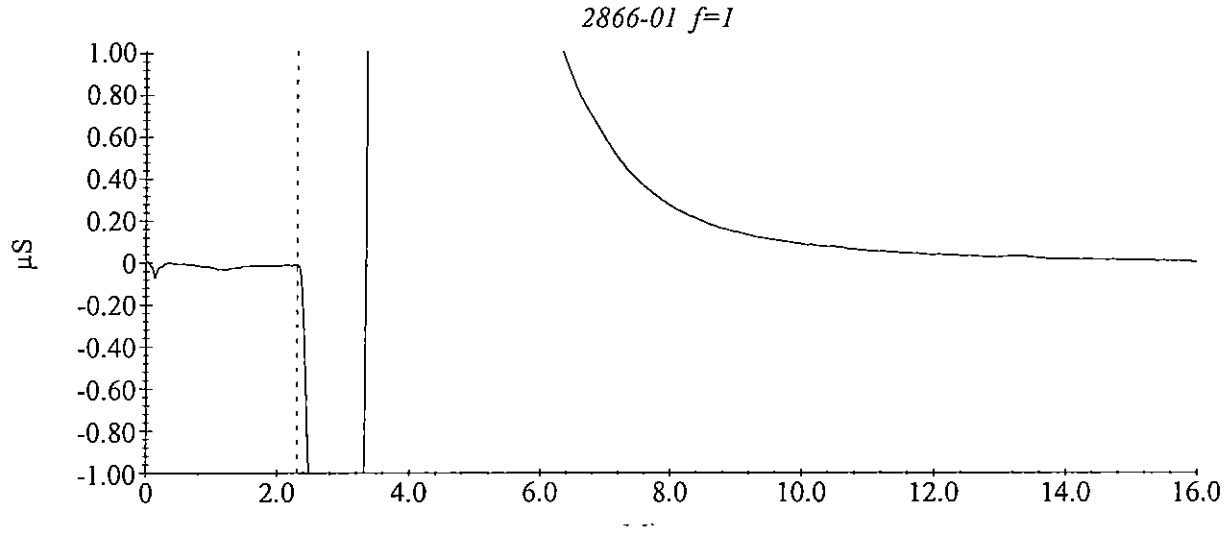
APCL Perchlorate Analysis Report

Sample Name : 2866-01 f=1
Data File Name : C:\DATA\03W2531K\2866-01_030.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 04/24/2003 9:10:42 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height



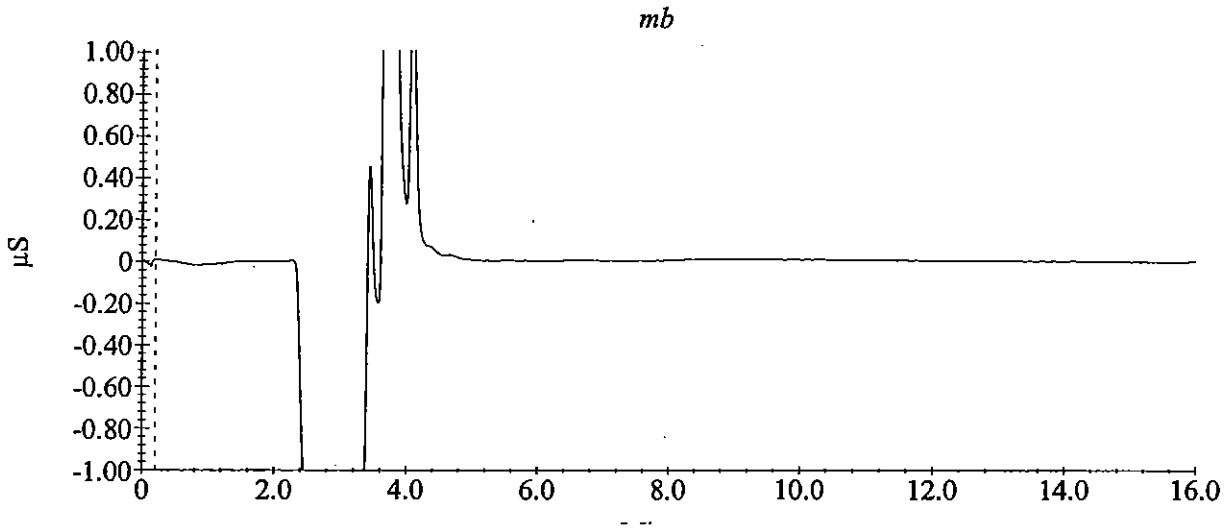
APCL Perchlorate Analysis Report

Sample Name : mb
Data File Name : C:\DATA\03W2531K\W2531K K01_007.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 04/24/2003 1:11:50 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height



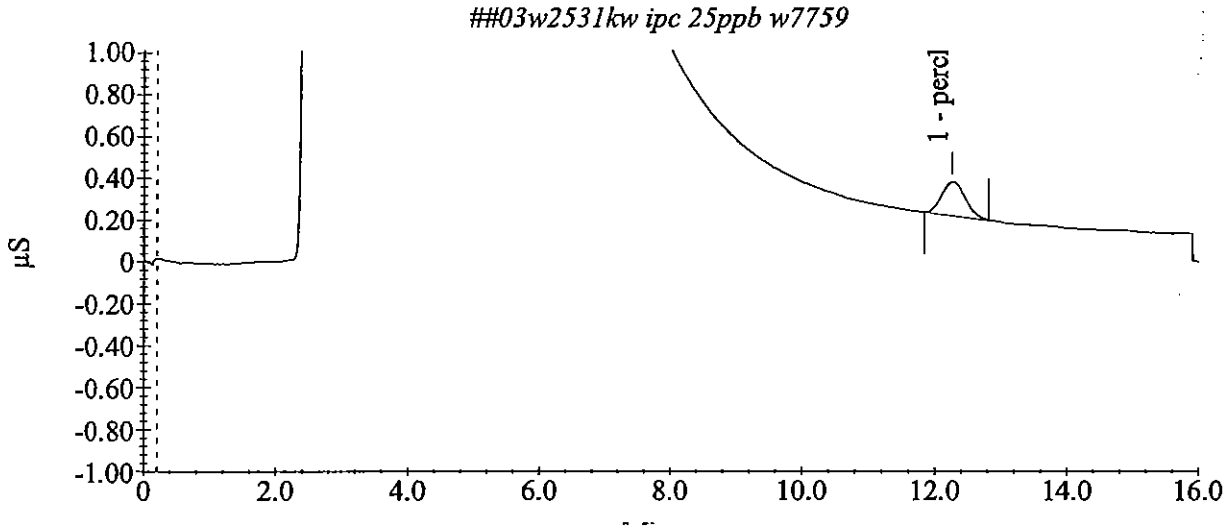
APCL Perchlorate Analysis Report

Sample Name : ##03w2531kw ipc 25ppb w7759
Data File Name : C:\DATA\03W2531K\W2531K IPC 25PPB_001.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 04/24/2003 11:18:40 AM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	perchlorate	12.25	23.67	40165.10	1608.14



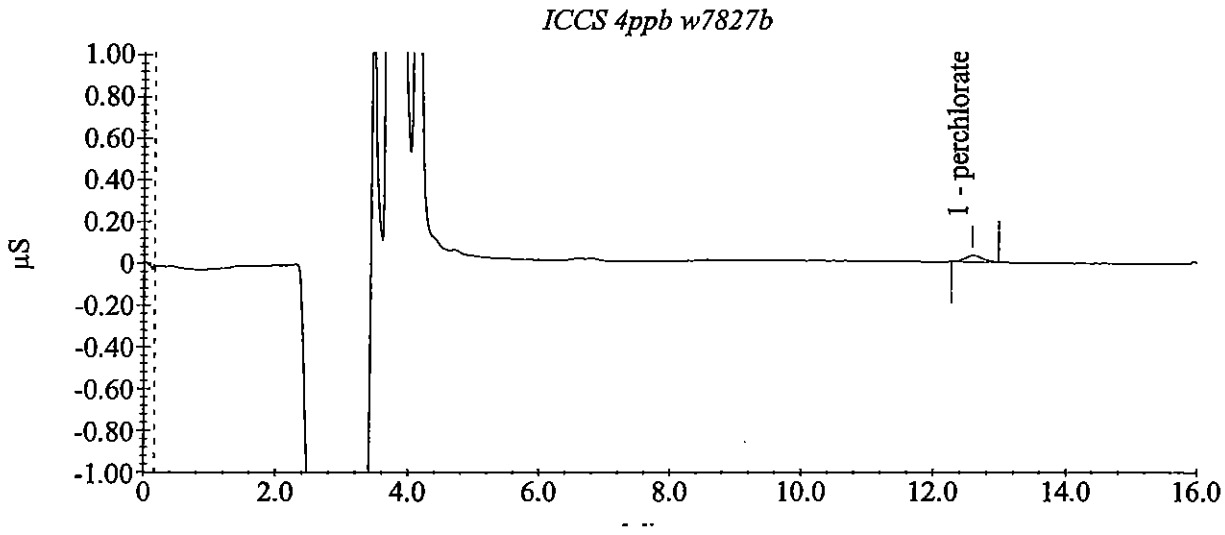
APCL Perchlorate Analysis Report

Sample Name : ICCS 4ppb w7827b
Data File Name : C:\DATA\03W2531K\W2531K ICCS 4PPB_006.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 04/24/2003 12:53:01 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	perchlorate	12.58	3.56	6033.30	308.44



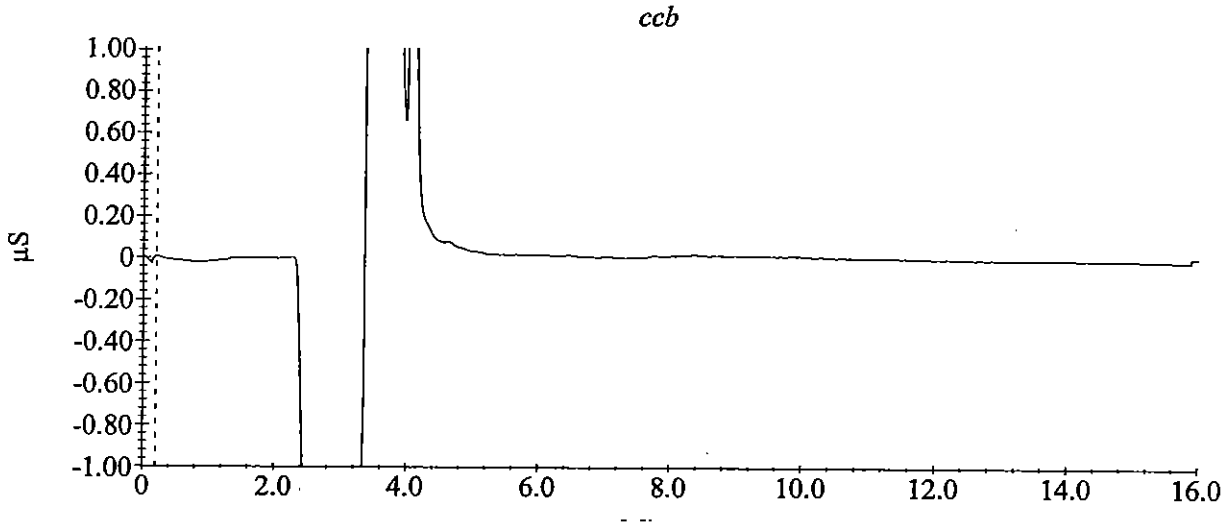
APCL Perchlorate Analysis Report

Sample Name : ccb
Data File Name : C:\DATA\03W2531K\W2531K CCB01_003.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 04/24/2003 11:55:53 AM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height



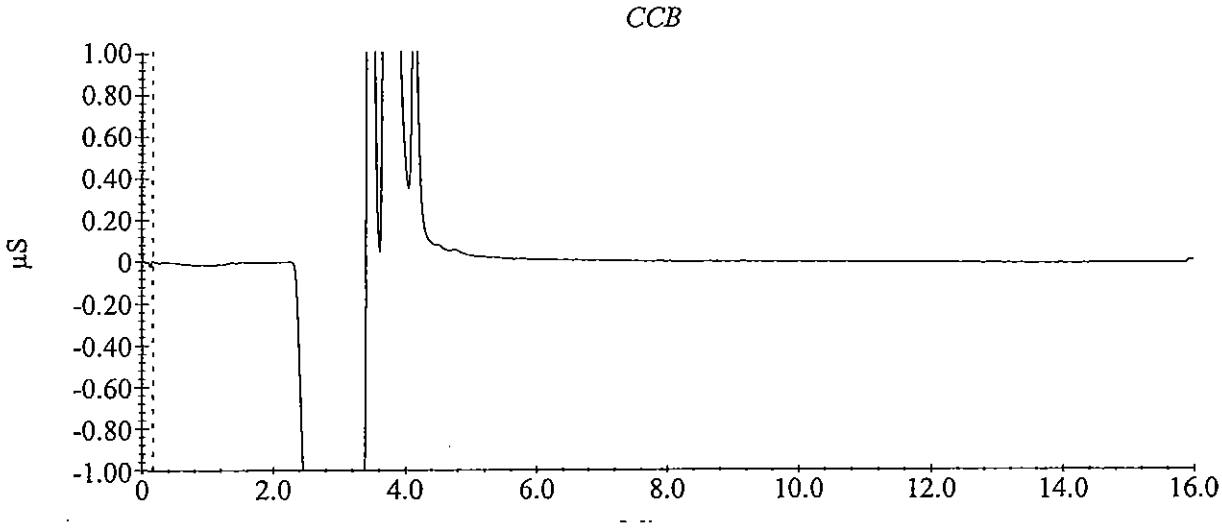
APCL Perchlorate Analysis Report

Sample Name : CCB
Data File Name : C:\DATA\03W2531K\W2531K K03_025.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 04/24/2003 7:37:00 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height



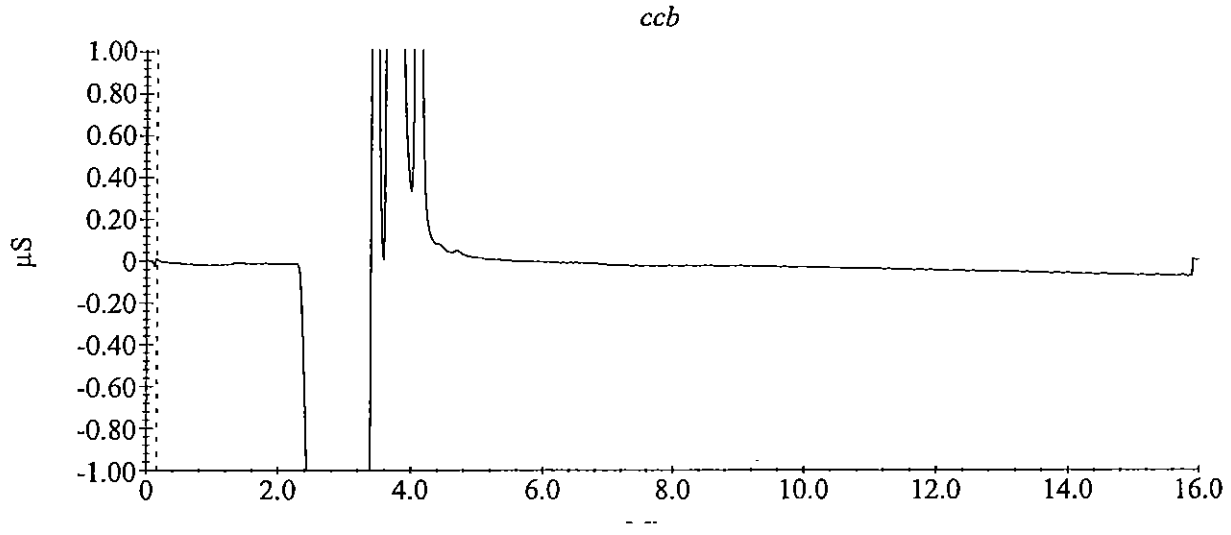
APCL Perchlorate Analysis Report

Sample Name : ccb
Data File Name : C:\DATA\03W2531K\W2531K K02_014.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 04/24/2003 4:12:05 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height



Applied P & Ch Laboratory

Wet Analysis Results for Method 300.0

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	300.0
Project ID:	JPL	Service ID:	32866	Collected by:	Leo Williamson

Component Name: Chloride Cl^-
CAS No: 16887-00-6

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-2866-1	DUPE-3-2Q03	Water	04/24/03	04/24/03	04/25/03	03W2550	mg/L	0.5	18.9	
03-2866-2	EB-5-4/24/03	Water	04/24/03	04/24/03	04/25/03	03W2550	mg/L	0.25	0.24	B
03-2866-3	MW-20-1	Water	04/24/03	04/24/03	04/25/03	03W2550	mg/L	0.5	18.5	
03-2866-4	MW-20-2	Water	04/24/03	04/24/03	04/25/03	03W2550	mg/L	0.25	7.6	
03-2866-5	MW-20-3	Water	04/24/03	04/24/03	04/25/03	03W2550	mg/L	1	37.0	
03-2866-6	MW-20-4	Water	04/24/03	04/24/03	04/25/03	03W2550	mg/L	0.4	10	
03-2866-7	MW-20-5	Water	04/24/03	04/24/03	04/25/03	03W2550	mg/L	0.4	8.9	
03W2550-MB-01	03W2550-MB-01	Water	04/25/03	04/25/03	04/25/03	03W2550	mg/L	0.2	<0.2	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory

Wet Analysis Results for Method 300.0

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	300.0
Project ID:	JPL	Service ID:	32866	Collected by:	Leo Williamson

Component Name: Nitrate as N
CAS No: 14797-55-8

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-2866-1	DUPE-3-2Q03	Water	04/24/03	04/24/03	04/25/03	03W2550	mg/L	0.1	2.9	
03-2866-2	EB-5-4/24/03	Water	04/24/03	04/24/03	04/25/03	03W2550	mg/L	0.05	0.070	
03-2866-3	MW-20-1	Water	04/24/03	04/24/03	04/25/03	03W2550	mg/L	0.1	2.8	
03-2866-4	MW-20-2	Water	04/24/03	04/24/03	04/25/03	03W2550	mg/L	0.05	0.98	
03-2866-5	MW-20-3	Water	04/24/03	04/24/03	04/25/03	03W2550	mg/L	0.2	3.0	
03-2866-6	MW-20-4	Water	04/24/03	04/24/03	04/25/03	03W2550	mg/L	0.08	<0.08	U
03-2866-7	MW-20-5	Water	04/24/03	04/24/03	04/25/03	03W2550	mg/L	0.08	0.12	
03W2550-MB-01	03W2550-MB-01	Water	04/25/03	04/25/03	04/25/03	03W2550	mg/L	0.04	<0.04	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory

Wet Analysis Results for Method 300.0

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	300.0
Project ID:	JPL	Service ID:	32866	Collected by:	Leo Williamson

Component Name: Sulfate SO_4^{--}
CAS No: 14808-79-8

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-2866-1	DUPE-3-2Q03	Water	04/24/03	04/24/03	04/25/03	03W2550	mg/L	1.3	56.2	
03-2866-2	EB-5-4/24/03	Water	04/24/03	04/24/03	04/25/03	03W2550	mg/L	0.63	0.69	
03-2866-3	MW-20-1	Water	04/24/03	04/24/03	04/25/03	03W2550	mg/L	1.3	54.5	
03-2866-4	MW-20-2	Water	04/24/03	04/24/03	04/25/03	03W2550	mg/L	0.63	28.9	
03-2866-5	MW-20-3	Water	04/24/03	04/24/03	04/25/03	03W2550	mg/L	2.5	30.4	
03-2866-6	MW-20-4	Water	04/24/03	04/24/03	04/25/03	03W2550	mg/L	1	10.3	
03-2866-7	MW-20-5	Water	04/24/03	04/24/03	04/25/03	03W2550	mg/L	1	5.4	
03W2550-MB-01	03W2550-MB-01	Water	04/25/03	04/25/03	04/25/03	03W2550	mg/L	0.5	<0.5	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

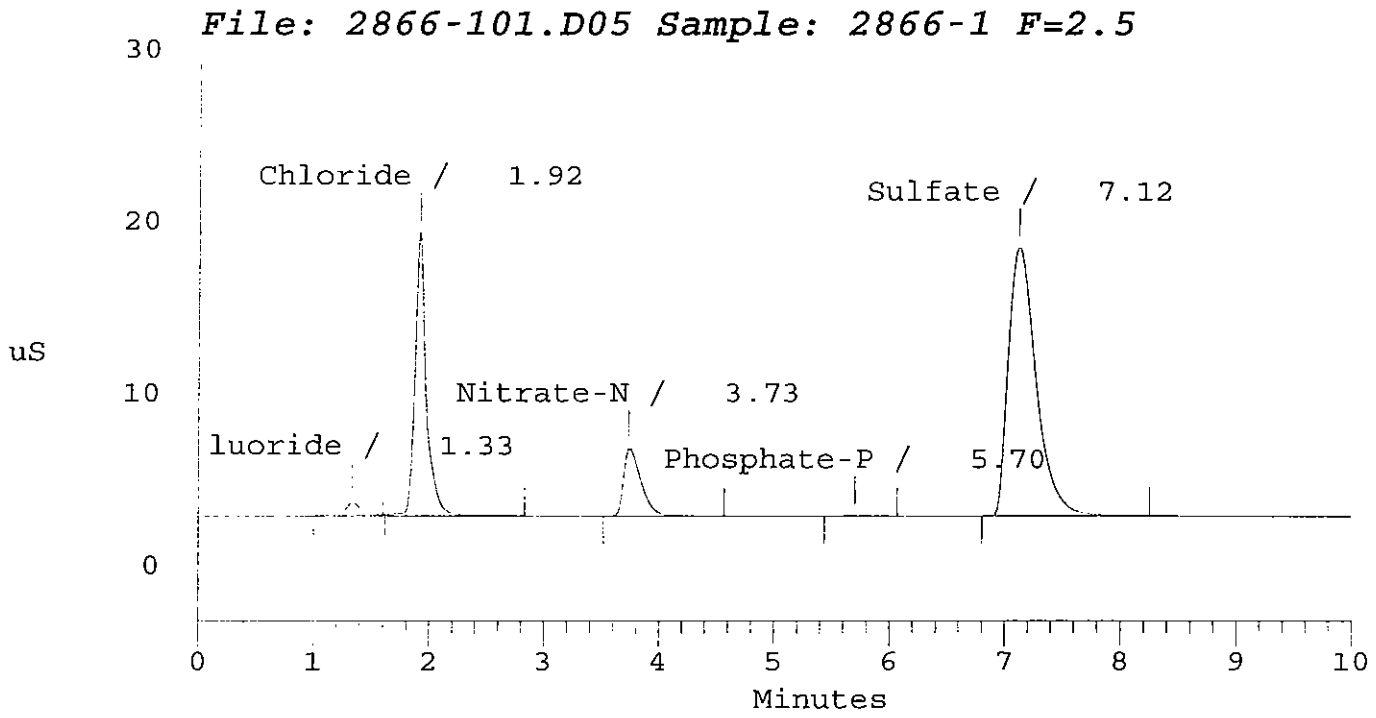
Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

```
==========================================================================
| Sample Name: 2866-1 F=2.5                    Date: 04/25/2003 10:27:15  |
| Data File  : C:\DX\DATA\03W2550\2866-101.D05                            |
| Method     : C:\DX\METHOD\E300-063.MET                                  |
| ACI Address: 1  System: 1  Inject#: 5                  Detector:COND    |
| Analyst    : David          Column: Dionex AS4A-SC                      |
==========================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	2.5	3000	5Hz	0.00	10.00	1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.33	Fluoride	1.078	26456	313945	2	0.00
2	1.92	Chloride	18.935	548824	3812834	2	0.00
0	0.00	Nitrite-N	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
3	3.73	Nitrate-N	2.851	128499	1362709	1	0.00
4	5.70	Phosphate-P	0.273	551	10444	1	0.00
5	7.12	Sulfate	56.185	518282	8664007	1	0.00
		Totals	79.321	1222613	14163939		

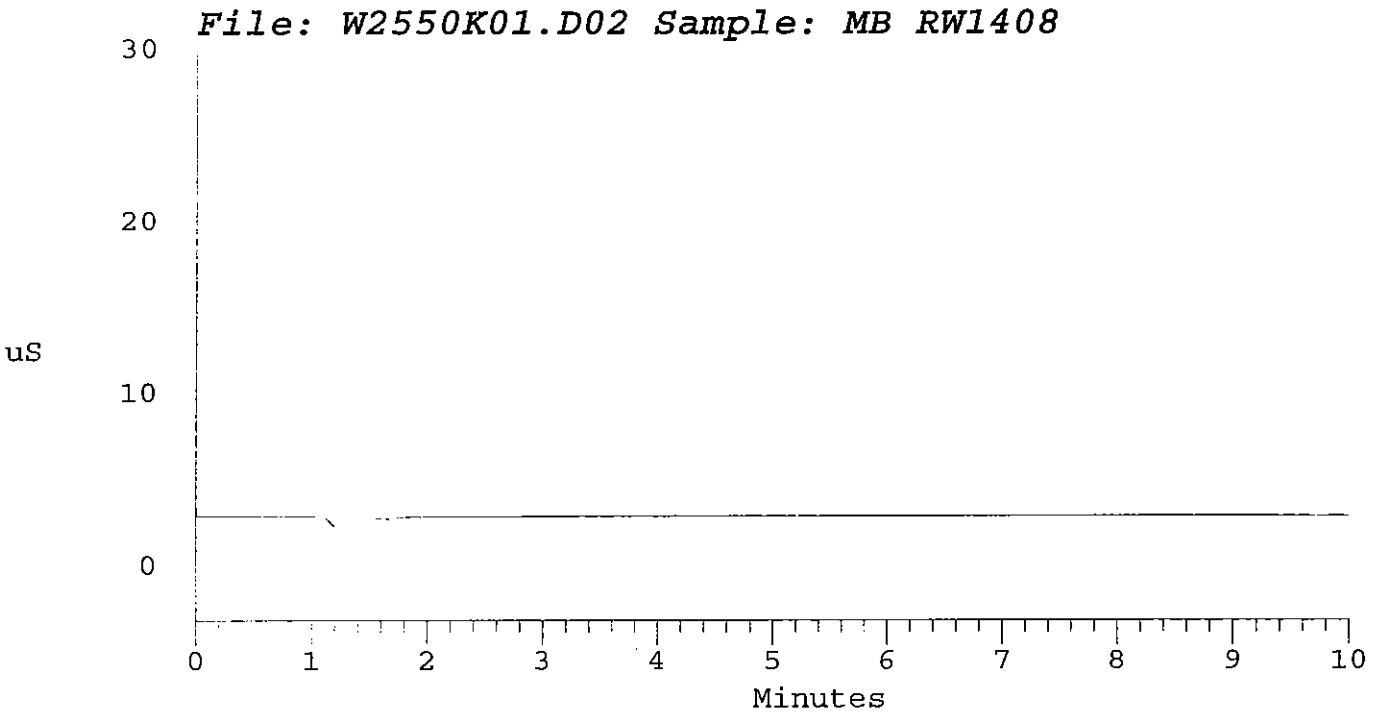


```
==============================================================================
| Sample Name: MB RW1408                        Date: 04/25/2003 09:49:07      |
| Data File  : C:\DX\DATA\03W2550\W2550K01.D02                                |
| Method     : C:\DX\METHOD\E300-063.MET                                      |
| ACI Address: 1  System: 1  Inject#: 2                   Detector:COND       |
| Analyst    : David          Column: Dionex AS4A-SC                          |
==============================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00	1000	

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
0	0.00	Nitrite-N	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate-P	0.000	0	0	0	0.00
0	0.00	Sulfate	0.000	0	0	0	0.00
		Totals	0.000	0	0		



FORM-3

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 300.0

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	32866
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03W2550		
LCS Filename:	-	Date Analyzed:	042503	Time Analyzed:	10:01
LCSD Filename:	-	Date Analyzed:	042503	Time Analyzed:	10:14

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
CHLORIDE CL^-	mg/L	4.0	0	4.04	101	80-120
NITRATE AS N	mg/L	1.5	0	1.54	103	80-120
SULFATE SO_4^{--}	mg/L	15	0	15.0	100	80-120
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
CHLORIDE CL^-	mg/L	4.0	3.98	100	1	20	80-120
NITRATE AS N	mg/L	1.5	1.53	102	1	20	80-120
SULFATE SO_4^{--}	mg/L	15	15.4	103	3	25	80-120
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

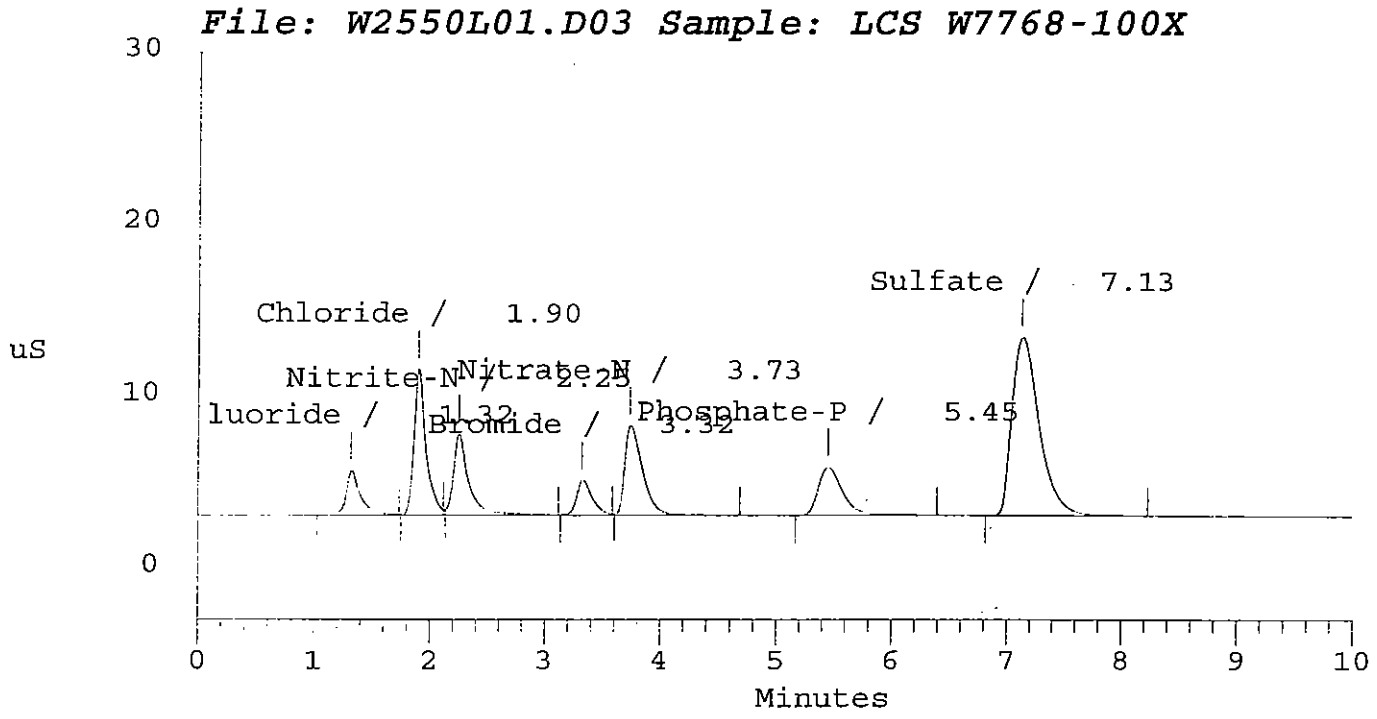
Comments: _____

```
==========================================================================
| Sample Name: LCS W7768-100X                  Date: 04/25/2003 10:01:49  |
| Data File  : C:\DX\DATA\03W2550\W2550L01.D03                            |
| Method     : C:\DX\METHOD\E300-063.MET                                  |
| ACI Address: 1  System: 1  Inject#: 3                  Detector:COND    |
| Analyst    : David          Column: Dionex AS4A-SC                      |
==========================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.32	Fluoride	1.055	85399	767251	2	0.00
2	1.90	Chloride	4.039	280873	2002379	2	0.00
3	2.25	Nitrite-N	1.480	157207	1491928	2	0.00
4	3.32	Bromide	3.126	66829	637246	2	0.31
5	3.73	Nitrate-N	1.541	172242	1859994	2	0.00
6	5.45	Phosphate-P	2.978	92375	1362323	1	0.00
7	7.13	Sulfate	14.999	343877	5712308	1	0.00
		Totals	29.217	1198803	13833428		

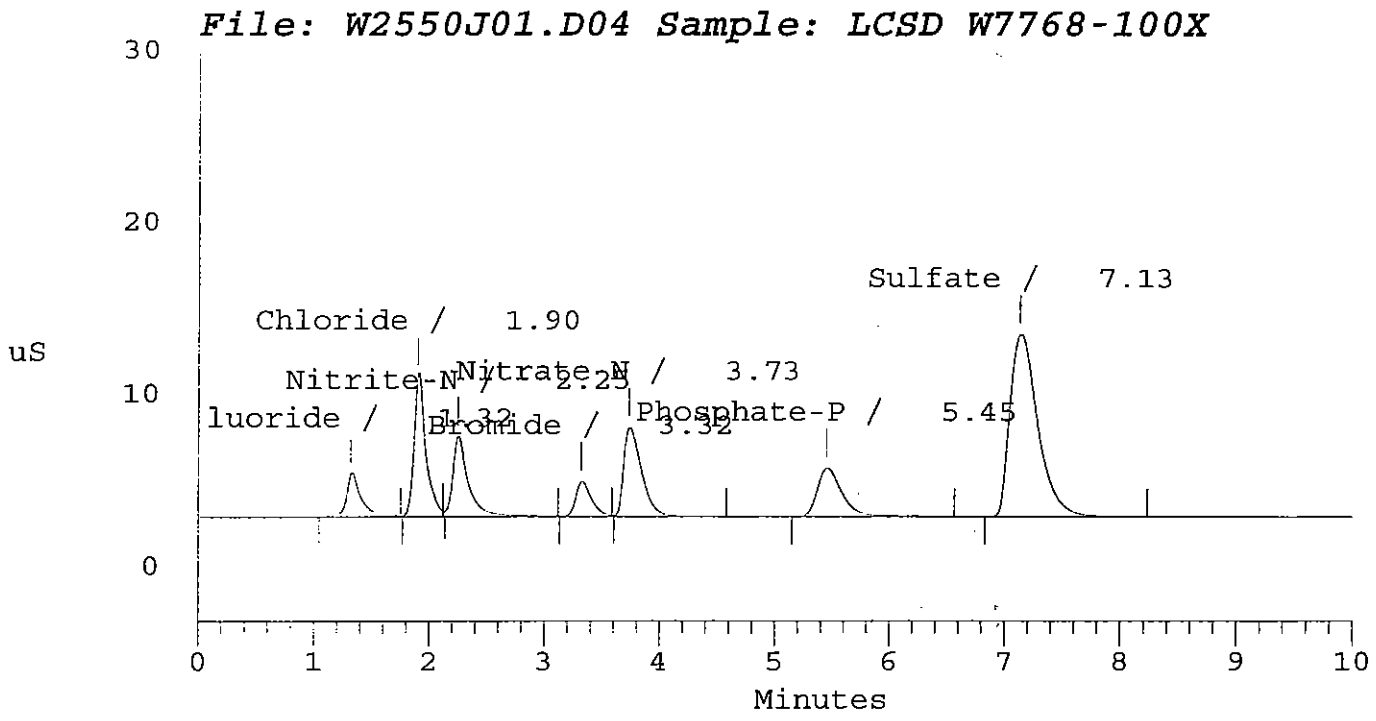


```
==============================================================================
| Sample Name: LCSD W7768-100X                    Date: 04/25/2003 10:14:33   |
| Data File  : C:\DX\DATA\03W2550\W2550J01.D04                                |
| Method     : C:\DX\METHOD\E300-063.MET                                      |
| ACI Address: 1  System: 1  Inject#: 4                   Detector:COND       |
| Analyst    : David          Column: Dionex AS4A-SC                          |
==============================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.32	Fluoride	1.048	81635	762419	2	0.00
2	1.90	Chloride	3.982	269397	1973310	2	0.00
3	2.25	Nitrite-N	1.475	154723	1486056	2	0.00
4	3.32	Bromide	3.084	66820	628617	2	0.31
5	3.73	Nitrate-N	1.527	171729	1843367	2	0.00
6	5.45	Phosphate-P	3.073	92602	1407158	2	0.00
7	7.13	Sulfate	15.359	350699	5854417	2	0.00
		Totals	29.548	1187605	13955344		



FORM-3

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 300.0

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	32866
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03W2550		
MS Filename:	-	Date Analyzed:	042503	Time Analyzed:	12:48
MSD Filename:	-	Date Analyzed:	042503	Time Analyzed:	13:09
MS Sample No:	**MW-20-3**	Sample Lab ID:	03-2866-5		

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
CHLORIDE CL^-	mg/L	40.0	37.0	77.0	100	75-125
NITRATE AS N	mg/L	15.0	3.0	18.0	100	75-125
SULFATE SO_4^{--}	mg/L	150	30.4	179	99	75-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
CHLORIDE CL^-	mg/L	40.0	78.3	103	3	20	75-125
NITRATE AS N	mg/L	15.0	18.5	103	3	20	75-125
SULFATE SO_4^{--}	mg/L	150	181	100	1	25	75-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

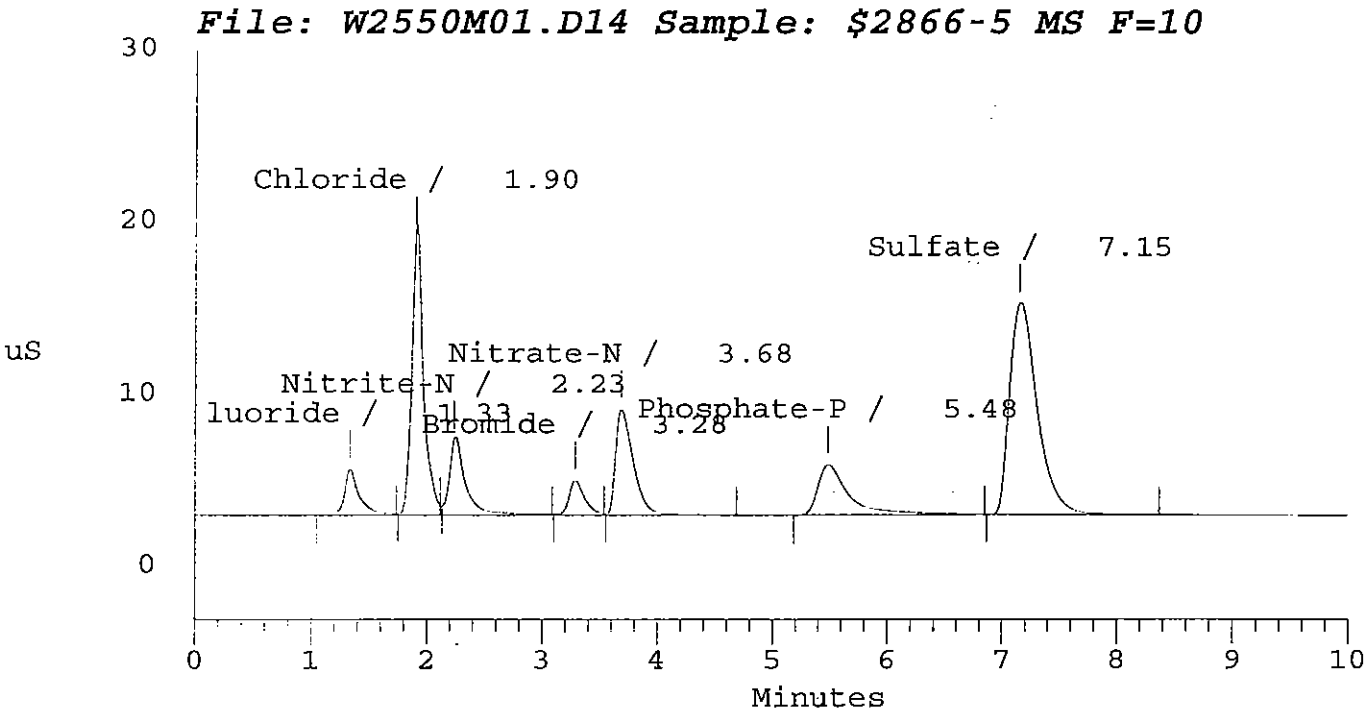
Comments: _____

Sample Name: $2866-5 MS F=10	Date: 04/25/2003 12:48:36
Data File : C:\DX\DATA\03W2550\W2550M01.D14	
Method : C:\DX\METHOD\E300-063.MET	
ACI Address: 1 System: 1 Inject#: 14	Detector:COND
Analyst : David Column: Dionex AS4A-SC	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	10	3000	5Hz	0.00	10.00		1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.33	Fluoride	11.025	88640	801824	2	0.00
2	1.90	Chloride	77.026	540224	3878622	2	0.00
3	2.23	Nitrite-N	14.635	145726	1474736	2	-0.74
4	3.28	Bromide	30.476	66979	621112	2	0.65
5	3.68	Nitrate-N	18.045	204919	2187356	2	0.00
6	5.48	Phosphate-P	41.153	97209	1898161	2	0.00
7	7.15	Sulfate	179.370	409785	6872490	2	0.00
		Totals	371.730	1553483	17734302		

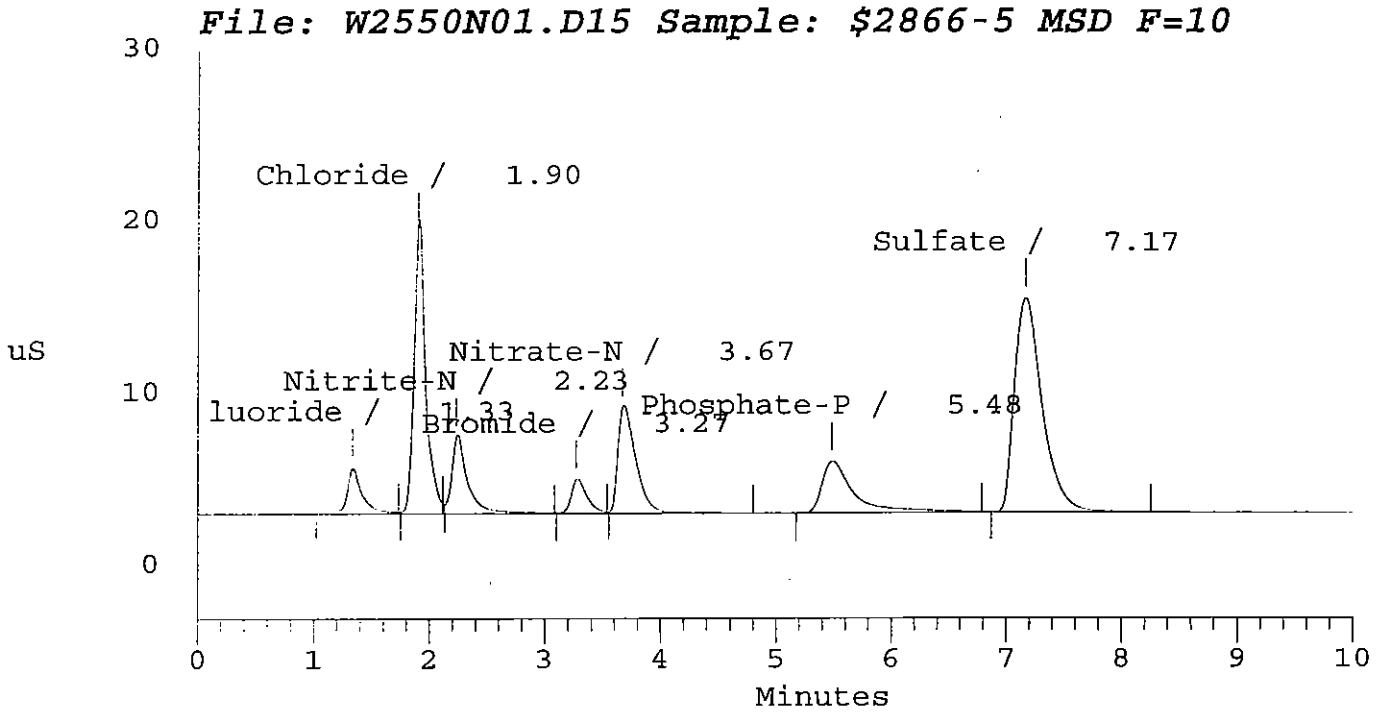


```
==========================================================================
| Sample Name: $2866-5 MSD F=10                Date: 04/25/2003 13:09:18  |
| Data File  : C:\DX\DATA\03W2550\W2550N01.D15                            |
| Method     : C:\DX\METHOD\E300-063.MET                                  |
| ACI Address: 1  System: 1  Inject#: 15                Detector:COND      |
| Analyst    : David          Column: Dionex AS4A-SC                      |
==========================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	10	3000	5Hz	0.00	10.00	1000	

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.33	Fluoride	11.191	89080	813916	2	0.00
2	1.90	Chloride	78.323	546216	3945003	2	0.00
3	2.23	Nitrite-N	14.803	148253	1491897	2	-0.74
4	3.27	Bromide	30.861	65286	629082	2	0.60
5	3.67	Nitrate-N	18.464	203841	2239336	2	0.00
6	5.48	Phosphate-P	42.275	100011	1951010	2	0.00
7	7.17	Sulfate	180.968	414530	6935581	2	0.00
		Totals	376.884	1567217	18005825		



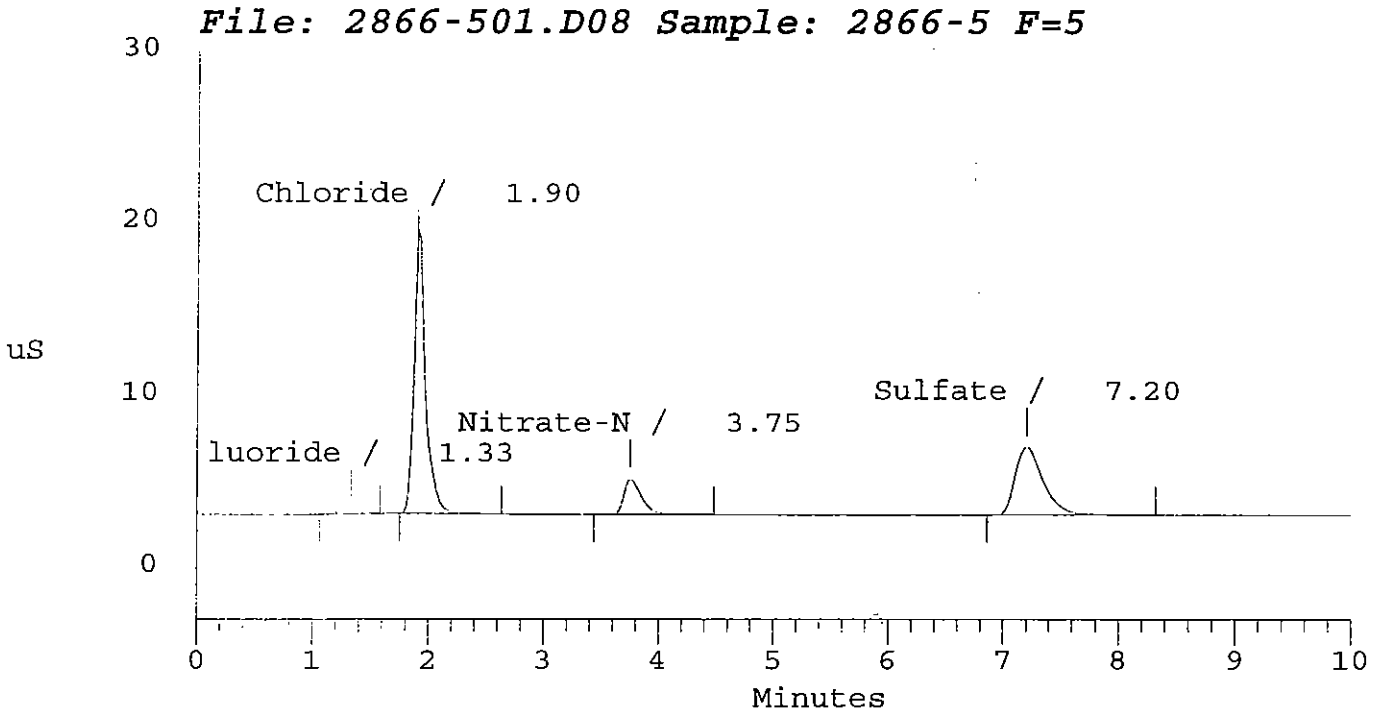
Data Reprocessed On 04/28/2003 13:07:23

Sample Name: 2866-5 F=5	Date: 04/25/2003 11:06:49
Data File : C:\DX\DATA\03W2550\2866-501.D08	
Method : C:\DX\METHOD\E300-063.MET	
ACI Address: 1 System: 1 Inject#: 8	Detector:COND
Analyst : David Column: Dionex AS4A-SC	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	5	3000	5Hz	0.00	10.00	1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.33	Fluoride	0.708	8928	103628	1	0.00
2	1.90	Chloride	37.017	508995	3725394	1	0.00
0	0.00	Nitrite-N	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
3	3.75	Nitrate-N	3.032	67407	700119	1	0.00
0	0.00	Phosphate-P	0.000	0	0	0	0.00
4	7.20	Sulfate	30.400	130320	2190560	1	0.00
		Totals	71.157	715650	6719701		



FORM-3

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 314.0

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	32866
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03W2531		
LCS Filename:	-	Date Analyzed:	042403	Time Analyzed:	12:14
LCSD Filename:	-	Date Analyzed:	–	Time Analyzed:	–

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
PERCHLORATE	μg/L	25	0	24.0	96	80-120
# of Out-of-control					0	

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

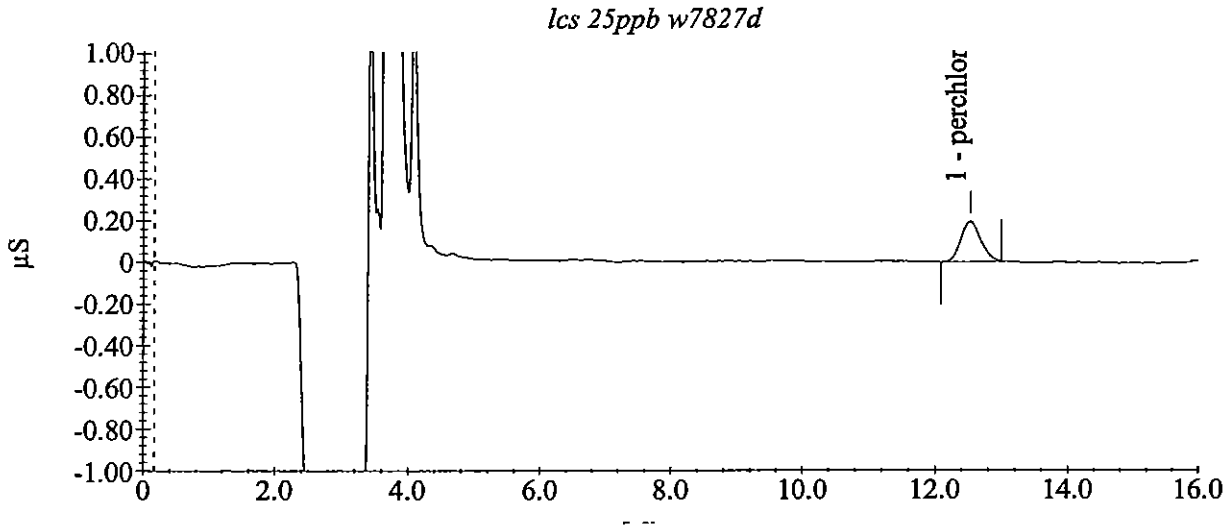
APCL Perchlorate Analysis Report

Sample Name : lcs 25ppb w7827d
Data File Name : C:\DATA\03W2531K\W2531K L01_004.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 04/24/2003 12:14:43 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	perchlorate	12.53	23.95	40641.05	1944.90



FORM-3

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 314.0

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	32866
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03W2531		
MS Filename:	-	Date Analyzed:	042403	Time Analyzed:	15:34
MSD Filename:	-	Date Analyzed:	042403	Time Analyzed:	16:30
MS Sample No:	**10GP-03-1-GW**	Sample Lab ID:	03-2842-8		

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
PERCHLORATE	μg/L	50	0	52.3	105	75-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
PERCHLORATE	μg/L	50	50.5	101	4	20	75-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

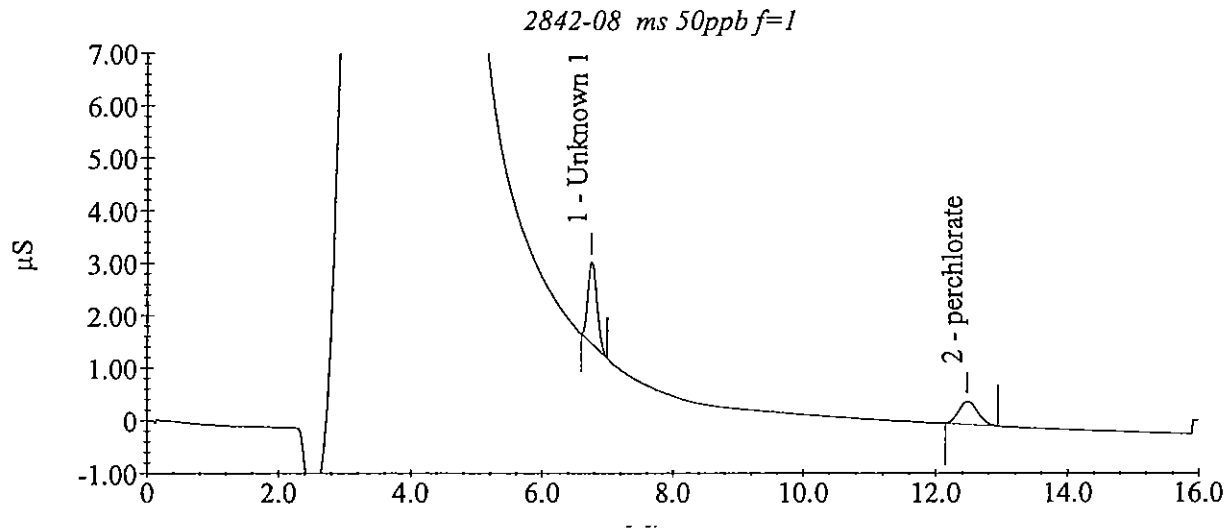
APCL Perchlorate Analysis Report

Sample Name : 2842-08 ms 50ppb f=1
Data File Name : C:\DATA\03W2531K\W2531K M01_012.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 04/24/2003 3:34:42 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
2	perchlorate	12.47	52.30	88749.00	4327.70



Rec 104.60%

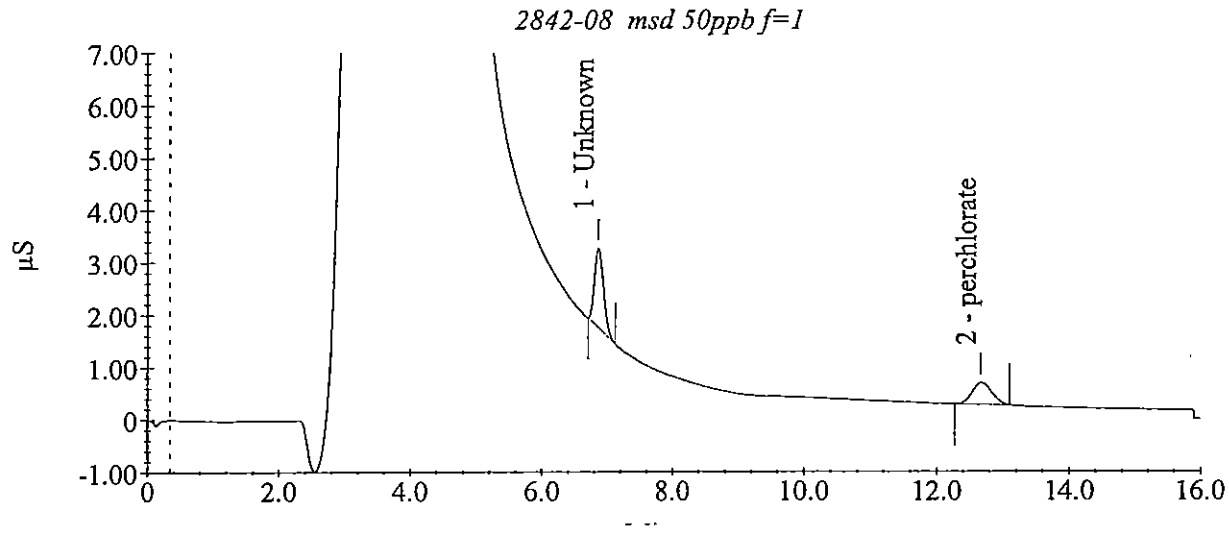
APCL Perchlorate Analysis Report

Sample Name : 2842-08 msd 50ppb f=1
Data File Name : C:\DATA\03W2531K\W2531K N01_015.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 04/24/2003 4:30:52 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
2	perchlorate	12.67	50.48	85667.30	4134.68



Rec 100.96%

3902

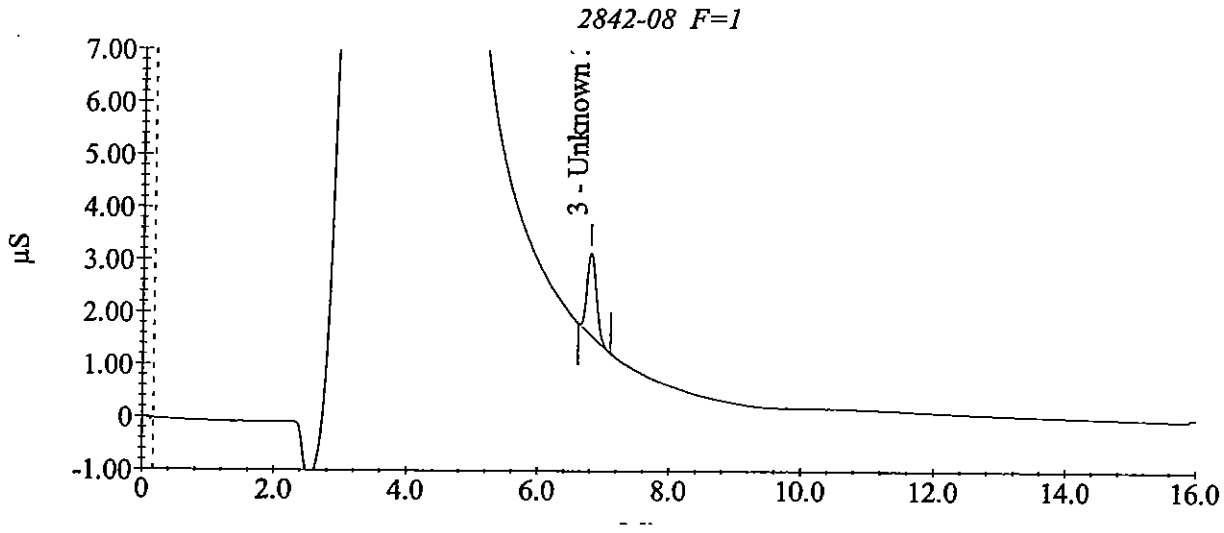
APCL Perchlorate Analysis Report

Sample Name : 2842-08 F=1
Data File Name : C:\DATA\03W2531K\2842-08_010.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 04/24/2003 2:57:34 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height



FORM-3

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 160.1

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	32866
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03W2607		
LCS Filename:	-	Date Analyzed:	042803	Time Analyzed:	17:19
LCSD Filename:	-	Date Analyzed:	042803	Time Analyzed:	17:19

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
SOLIDS, TOTAL DISSOLVED (TDS)	mg/L	400	0	396	99	88-108
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
SOLIDS, TOTAL DISSOLVED (TDS)	mg/L	400	412	103	4	20	88-108
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-3

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 160.1

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	32866
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03W2607		
MS Filename:	-	Date Analyzed:	042803	Time Analyzed:	17:19
MSD Filename:	-	Date Analyzed:	042803	Time Analyzed:	17:19
MS Sample No:	**MW-17-2**	Sample Lab ID:	03-2933-3		

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
SOLIDS, TOTAL DISSOLVED (TDS)	mg/L	400	250	679	107	80-119
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
SOLIDS, TOTAL DISSOLVED (TDS)	mg/L	400	652	101	6	20	80-119
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-3

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 7196

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	32866
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03W2542		
LCS Filename:	-	Date Analyzed:	042403	Time Analyzed:	16:08
LCSD Filename:	-	Date Analyzed:	042403	Time Analyzed:	16:08

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
CHROMIUM (VI)	mg/L	0.25	0	0.267	107	80-115
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
CHROMIUM (VI)	mg/L	0.25	0.258	103	4	19	80-115
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-3

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 7196

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	32866
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03W2542		
MS Filename:	-	Date Analyzed:	042403	Time Analyzed:	16:08
MSD Filename:	-	Date Analyzed:	042403	Time Analyzed:	16:08
MS Sample No:	**DUPE-3-2Q03**	Sample Lab ID:	03-2866-1		

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
CHROMIUM (VI)	mg/L	0.25	0	0.230	92	78-115
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
CHROMIUM (VI)	mg/L	0.25	0.233	93	1	19	78-115
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-3

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 314.0

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	32866
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03W2612		
LCS Filename:	-	Date Analyzed:	042903	Time Analyzed:	10:20
LCSD Filename:	-	Date Analyzed:	–	Time Analyzed:	–

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
PERCHLORATE	μg/L	25	0	23.4	94	80-120
# of Out-of-control					0	

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-3

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 314.0

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	32866
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03W2612		
MS Filename:	-	Date Analyzed:	042903	Time Analyzed:	14:07
MSD Filename:	-	Date Analyzed:	042903	Time Analyzed:	14:26
MS Sample No:	**MW-17-2**	Sample Lab ID:	03-2933-3		

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
PERCHLORATE	μg/L	50	4.1	54.2	100	75-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
PERCHLORATE	μg/L	50	54.6	101	1	20	75-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

Wet Chemistry QC Report B
Duplicate Results

Matrix: Water

APCL Service ID: 03-2866

Analysis	Batch ID	Analysis Date	Sample Name	Unit	Result	Duplicate Result	RPD %	RPD Control limit
pH	03W2546	04/24/2003	DUPE-3-2Q03	pH unit	7.66	7.62	1	20
Bicarbonate	03W2617	04/29/2003	DUPE-3-2Q03	mg/L	166	169	2	20
Carbonate	03W2617	04/29/2003	DUPE-3-2Q03	mg-$CaCO_3$/L	ND	ND	NC	20

Note: N/A = Not applicable; NR: Not requested; NC= Not Calculated; ND: Not detected.

6A

INITIAL CALIBRATION DATA

Lab Name: Applied P & Ch Lab Contract: _____

Analysis: Chromium (VI) Calibration Date: 01/29/2003

Concentration (mg/L)	0.000	0.0125	0.050	0.125	0.250	0.50
Absorbance	0.000	0.006	0.041	0.109	0.214	0.415

A= 0.000 + 0.836C

A=Absorbance

C=Concentration (mg/L)

r= 0.9997

DIONEX METHOD PARAMETERS - E300-063.MET

Method Comment: APCL EPA 300 ANALYSIS DX-100
Column ID: Dionex AS4A-SC
Analyst ID: David

System Parameters

System Name: DX-100
Number of Detectors..... 1
Run Time (minutes)..... 10.00
Sampling Rate (seconds)..... 0.20

Detector 1 Type..... COND
Detector 1 real time plot scale maximum (uS)..... 30.000
minimum..... -3.000
Detector 1 Output Equivalent to 1 Volt (in uS) 30.00
Detector 1 ACI Analog Input Connection DET1
Save Data File..... Yes
Data File Name: C:\DX\DATA\03W1991\W1991Q01.D10

-- DETECTOR 1 PARAMETERS --

Report Options

Create ASCII Report File..... No
Print Report..... Yes
Print All Components..... Yes
Print Components Found..... No
Print Missing Components..... No
Print All Peaks..... No
Print Unknown Peaks..... No
Print Chromatogram..... Yes
Autoscale Chromatogram Maximum..... No
Autoscale Chromatogram Minimum..... No
Fill Peaks with Color ..... No
Draw Grid Lines on Chromatogram..... No
Show Component Fraction Numbers..... No
Label with Peak Number..... No
Label with Retention Times on Chromatogram..... Yes
Label with Component Name..... Yes
Format File Name: C:\DX\METHOD\DEFAULT.PRF

Integration Parameters

Starting Peak Width (seconds)..... 10.0
Peak Threshold 2.000
Peak Area Reject..... 1000
Area Reject for Reference Peaks..... 1000

Data Events

Time	Description
0.13	Start peak detection
10.00	Stop peak detection

Calibration Parameters

Number Of Levels for Calibration	6
Force Calibration Curve Through Origin	No
Calibration Fit Type	Linear
Replace Or Average Calibrations	Replace
External or Internal Calibration	External
Calculate Unknowns by Area or Height	Area
Default Sample Volume	1.0
Default Dilution Factor	1.0
Default Response Factor for Unknown Peaks	0.0
Calibration Standard Volume	1.0
Internal Standard Amount in Samples	1.0
Amount Units	ppm

Component # 4 Bromide Retention Time 3.45
Reference Comp. Nitrate-N Window Size 0.20 min.
Amount = K0 + K1*Area
K0 = 4.58974E-002
K1 = 4.83279E-006

Level	Amount	Area	Height
1	7.50000E-002	13830	1488
2	1.50000E+000	298206	30100
3	3.00000E+000	591234	61776
4	6.00000E+000	1219933	128845
5	7.50000E+000	1559887	166594
6	0.00000E+000	0	0

Component # 5 Nitrate-N Retention Time 3.87
Reference Comp. Nitrate-N Window Size 0.25 min.
Amount = K0 + K1*Area
K0 = 4.24689E-002
K1 = 8.05553E-007

Level	Amount	Area	Height
1	3.75000E-002	40157	3802
2	7.50000E-001	849179	77129
3	1.50000E+000	1713421	152776
4	3.00000E+000	3610927	313707
5	3.75000E+000	4688990	396441
6	0.00000E+000	0	0

Component # 6 Phosphate-P Retention Time 6.38
Reference Comp. Phosphate-P Window Size 0.60 min.
Amount = K0 + K1*Area
K0 = 8.68926E-002
K1 = 2.12227E-006

Level	Amount	Area	Height
1	7.50000E-002	24783	1450
2	1.50000E+000	642376	38579
3	3.00000E+000	1301126	79971
4	6.00000E+000	2756481	168994
5	7.50000E+000	3546397	217521
6	0.00000E+000	0	0

Component Table -- Last Modified: 17:42 on Fri, 21 Mar 2003

Component # 1 Fluoride Retention Time 1.32
Reference Comp. Fluoride Window Size 0.15 min.
Amount = K0 + K1*Area
K0 = -9.62851E-004
K1 = 1.37614E-006

Level	Amount	Area	Height
1	2.50000E-002	28534	2732
2	5.00000E-001	373164	44629
3	1.00000E+000	707646	82595
4	2.00000E+000	1435865	173007
5	2.50000E+000	1837162	220914
6	0.00000E+000	0	0

Component # 2 Chloride Retention Time 1.97
Reference Comp. Chloride Window Size 0.15 min.
Amount = K0 + K1*Area
K0 = 1.28188E-001
K1 = 1.95287E-006

Level	Amount	Area	Height
1	1.00000E-001	51206	7044
2	2.00000E+000	909455	126181
3	4.00000E+000	1856586	261681
4	8.00000E+000	3987563	585791
5	1.00000E+001	5142155	754321
6	0.00000E+000	0	0

Component # 3 Nitrite-N Retention Time 2.33
Reference Comp. Chloride Window Size 0.15 min.
Amount = K0 + K1*Area
K0 = 2.38085E-002
K1 = 9.76240E-007

Level	Amount	Area	Height
1	3.75000E-002	30884	3582
2	7.50000E-001	734006	79701
3	1.50000E+000	1468106	162005
4	3.00000E+000	3021523	336616
5	3.75000E+000	3856614	429219
6	0.00000E+000	0	0

Component # 7 Sulfate Retention Time 7.92
Reference Comp. Sulfate Window Size 0.90 min.
Amount = K0 + K1*Area
K0 = 5.32283E-001
K1 = 2.53252E-006

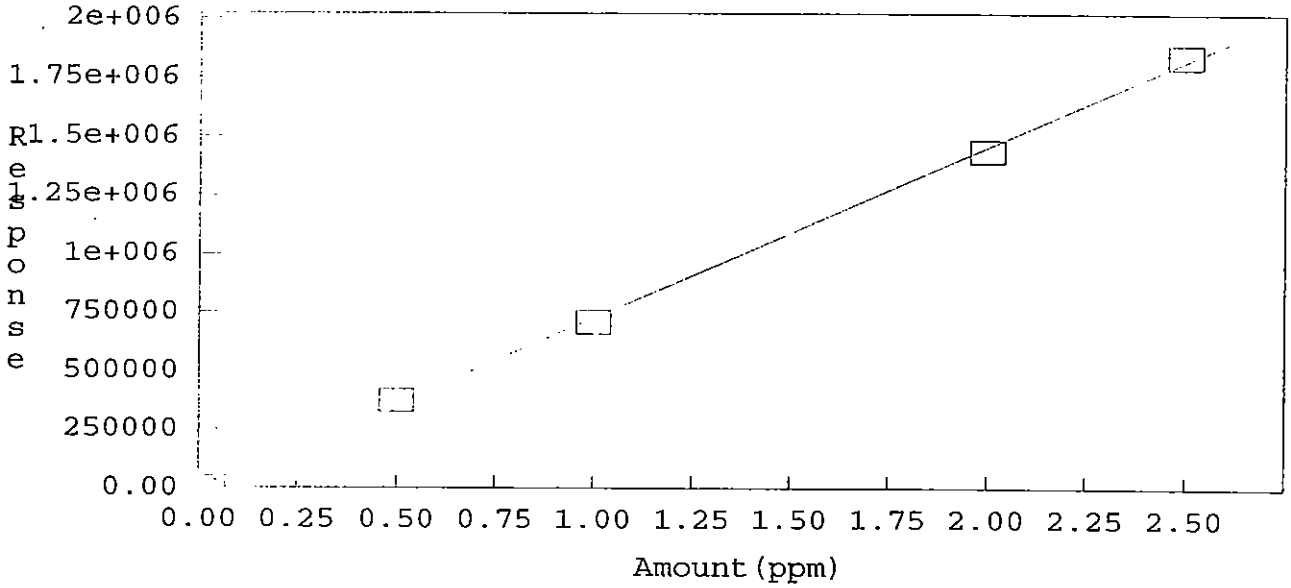
Level	Amount	Area	Height
1	3.76000E-001	129999	6524
2	7.50000E+000	2598757	138579
3	1.50000E+001	5330209	287851
4	3.00000E+001	11507107	615917
5	3.75000E+001	14859049	776426
6	0.00000E+000	0	0

Timed Events File: C:\DX\METHOD\W761CAL.TE

Step	Time	Description
Init		ACI Autosmp OFF
Init		ACI pump st ON
Init		ACI inject OFF
Init		ACI auto zer OFF
Init		ACI TTL 1 OFF
Init		ACI TTL 2 OFF
Init		ACI TTL 3 OFF
Init		ACI TTL 4 OFF
Init		ACI OFF
Init		ACI OFF
1	0.0	ACI Autosmp ON
1	0.0	ACI auto zer ON
2	2.5	ACI Autosmp OFF
2	2.5	ACI inject ON
2	2.5	ACI TTL 1 ON
2	2.5	Start Sampling

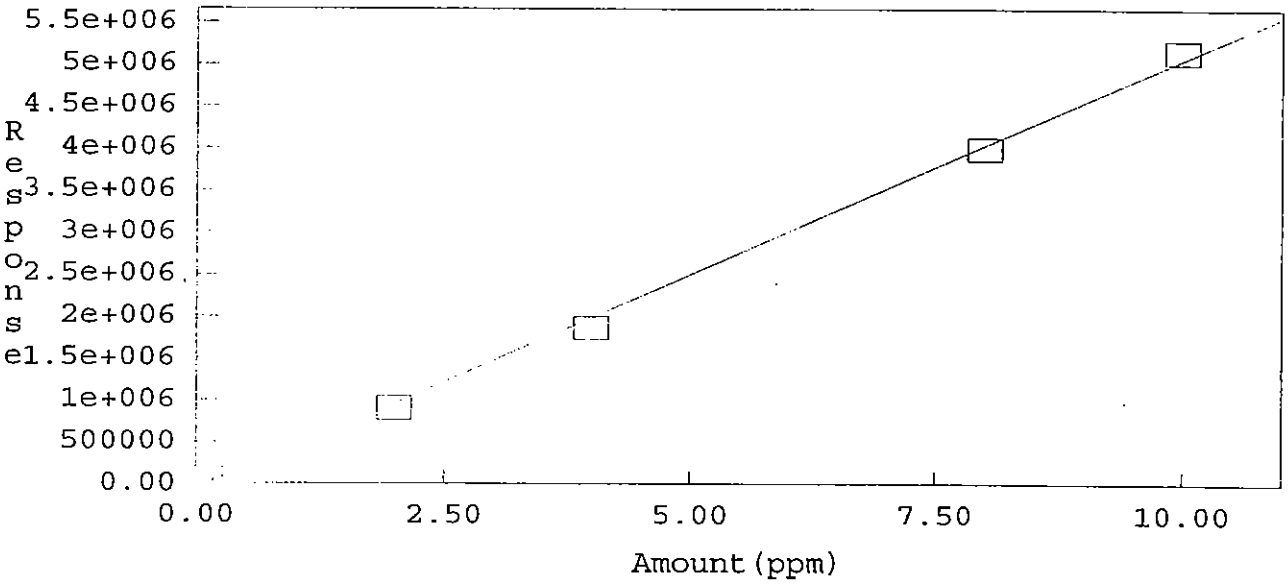
Method: E300-063.MET - Last Updated: 17:42 on Fri, 21 Mar 2003

Component: Fluoride
Fit Type: Linear
r^2 = 0.999552
Amt = Resp * 1.376e-006 + -0.000962
Resp = Amt * 7.267e+005 + 699.7
Standardization: External
Calibration: Area



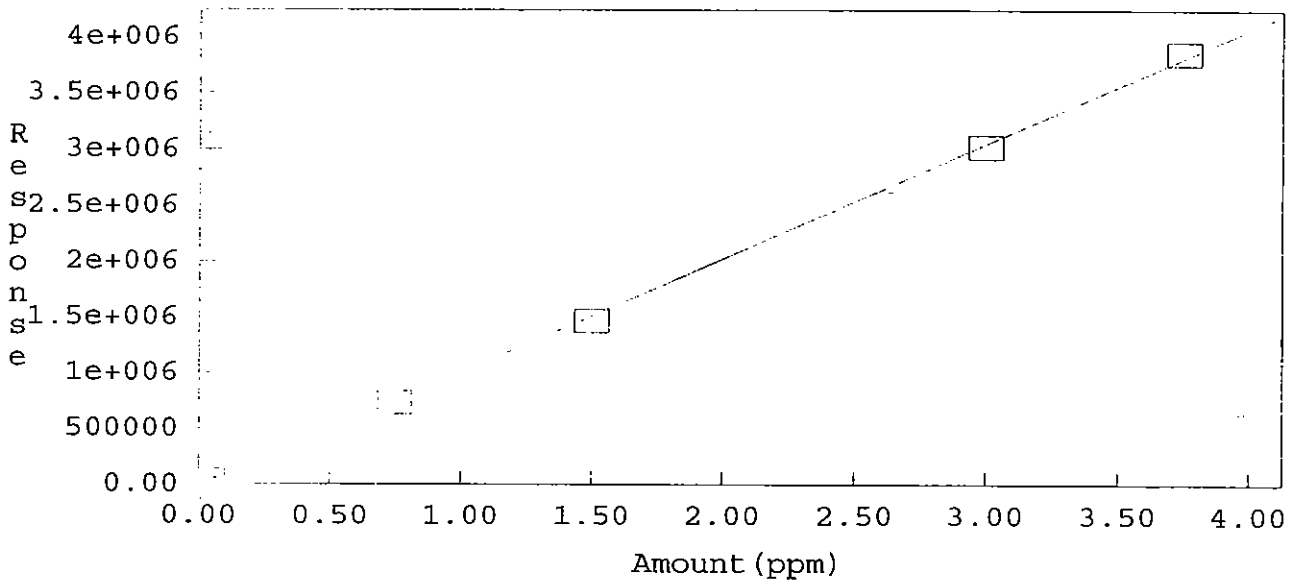
Method: C:\DX\METHOD\E300-063.MET

Component: Chloride
Fit Type: Linear
r^2 = 0.998409
Amt = Resp * 1.953e-006 + 0.1282
Resp = Amt * 5.121e+005 + -6.564e+00
Standardization: External
Calibration: Area



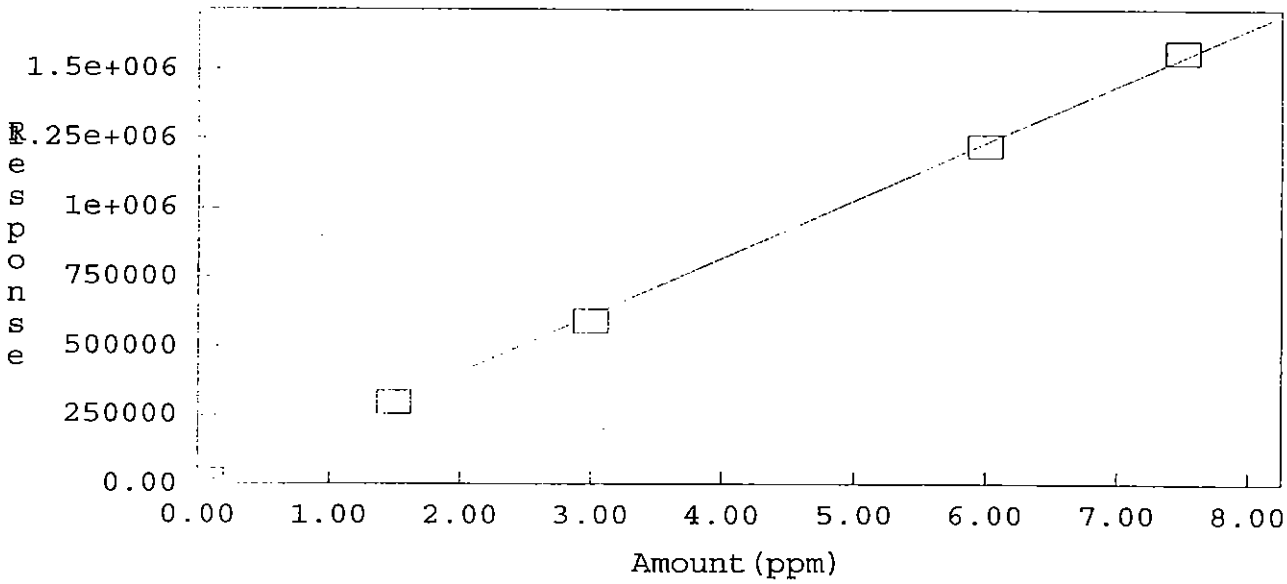
Method: C:\DX\METHOD\E300-063.MET

Component: Nitrite-N
Fit Type: Linear
r^2 = 0.999594
Amt = Resp * 9.762e-007 + 0.02381
Resp = Amt * 1.024e+006 + -2.439e+00
Standardization: External
Calibration: Area



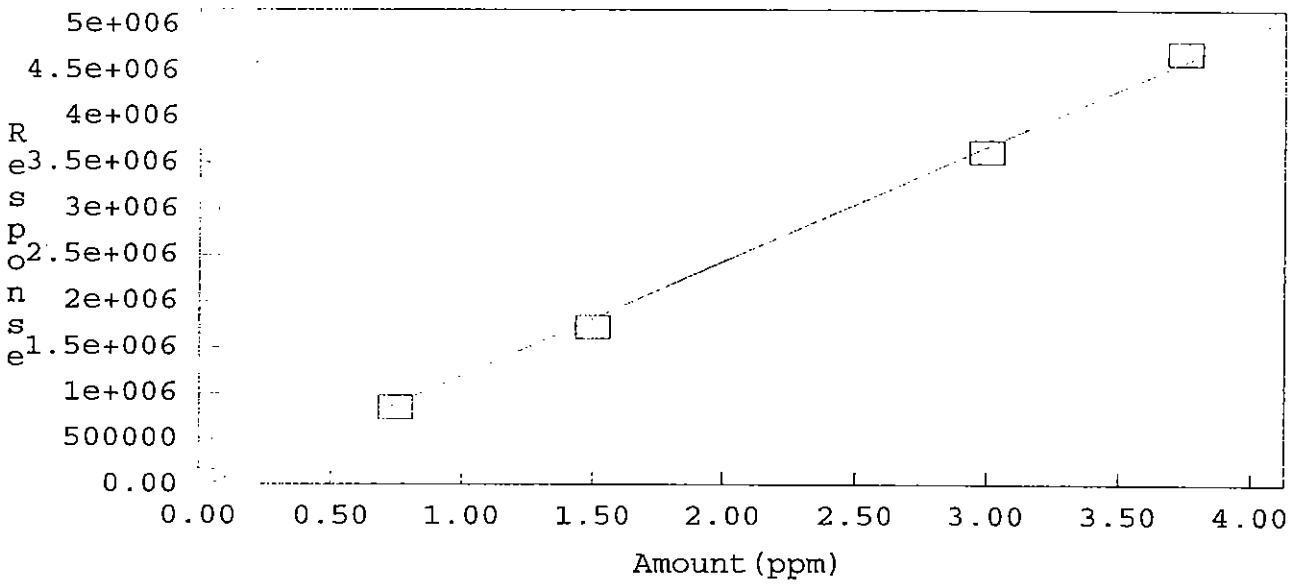
Method: C:\DX\METHOD\E300-063.MET

Component: Bromide
Fit Type: Linear
r^2 = 0.999518
Amt = Resp * 4.833e-006 + 0.0459
Resp = Amt * 2.069e+005 + -9497
Standardization: External
Calibration: Area



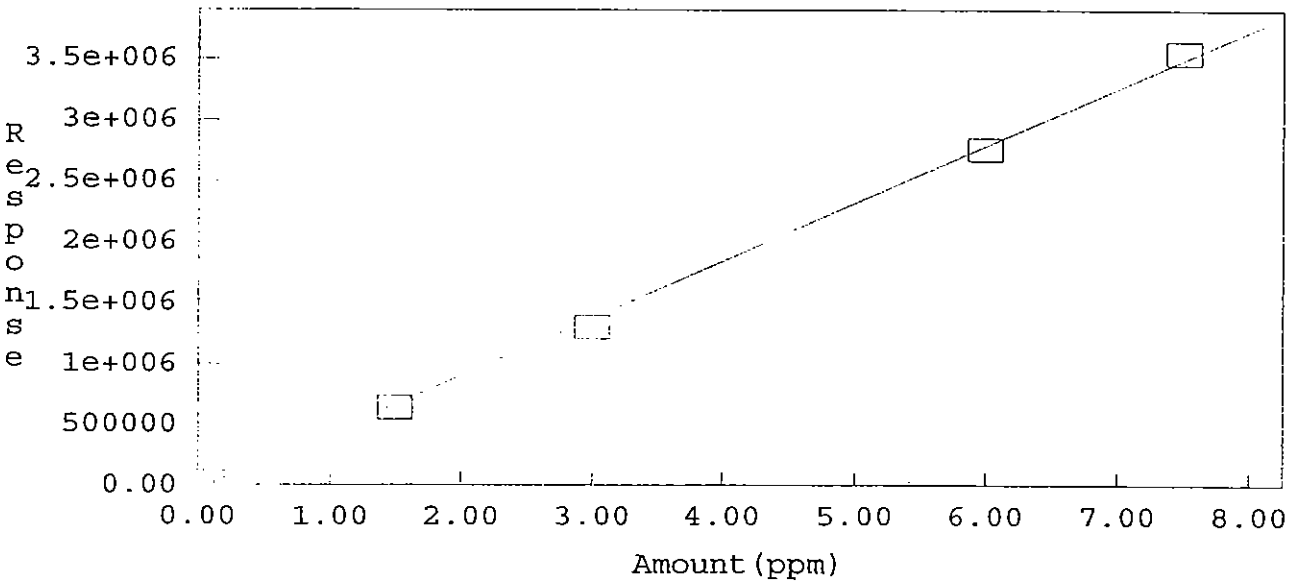
Method: C:\DX\METHOD\E300-063.MET

Component: Nitrate-N
Fit Type: Linear
r^2 = 0.998618
Amt = Resp * 8.056e-007 + 0.04247
Resp = Amt * 1.241e+006 + -5.272e+00
Standardization: External
Calibration: Area



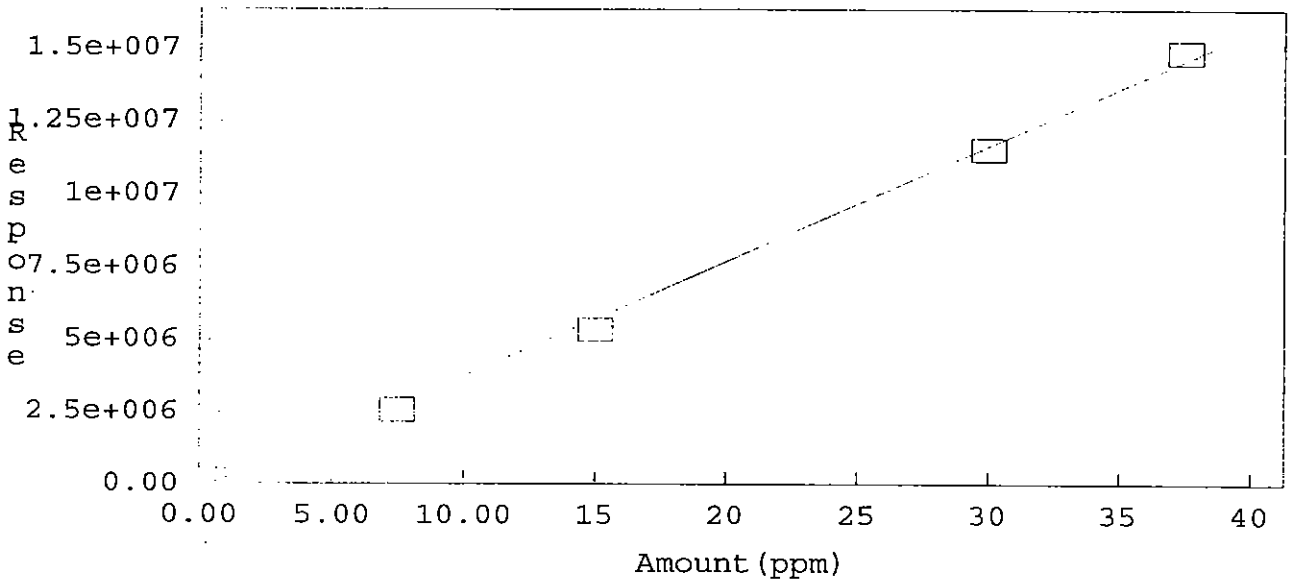
Method: C:\DX\METHOD\E300-063.MET

Component: Phosphate-P
Fit Type: Linear
r^2 = 0.998898
Amt = Resp * 2.122e-006 + 0.08689
Resp = Amt * 4.712e+005 + -4.094e+00
Standardization: External
Calibration: Area



Method: C:\DX\METHOD\E300-063.MET

Component: Sulfate
Fit Type: Linear
r^2 = 0.998245
Amt = Resp * 2.533e-006 + 0.5323
Resp = Amt * 3.949e+005 + -2.102e+00
Standardization: External
Calibration: Area

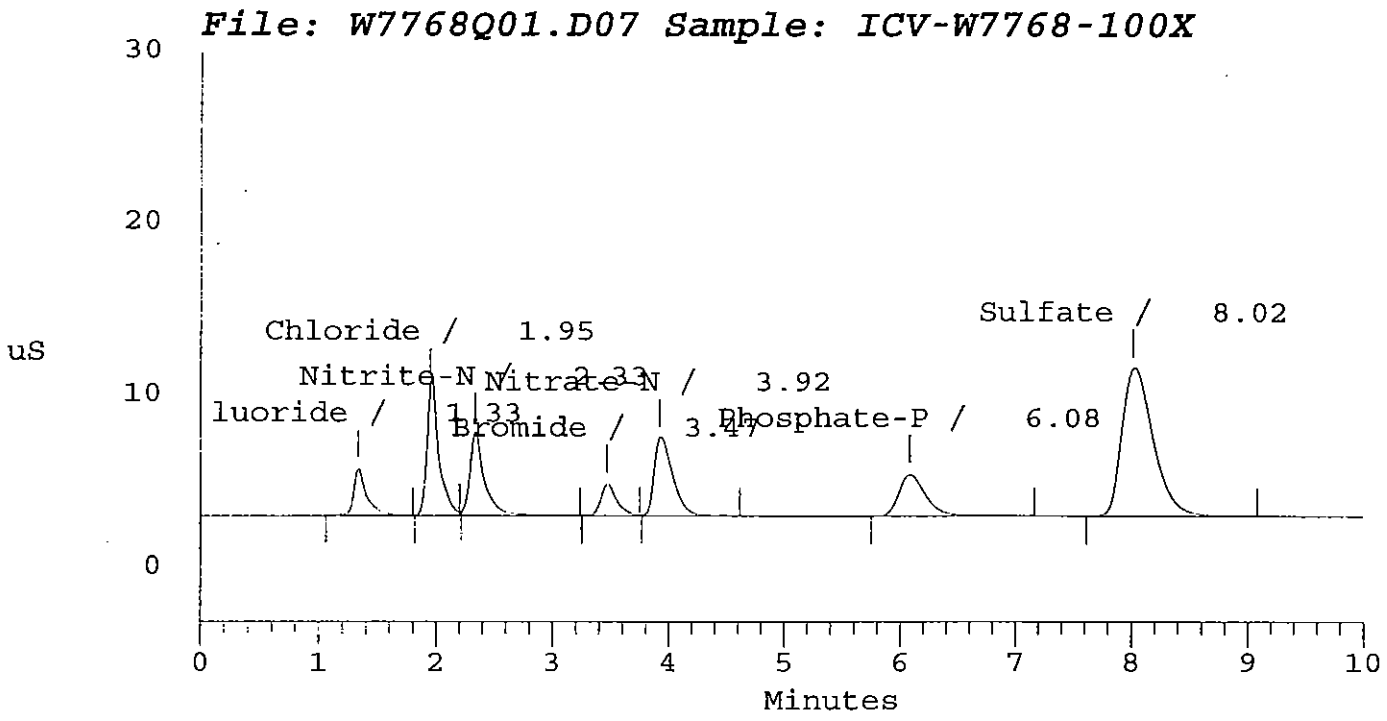


```
==============================================================================
| Sample Name: ICV-W7768-100X                    Date: 03/21/2003 17:56:33    |
| Data File  : C:\DX\DATA\e300-063\W7768Q01.D07                               |
| Method     : C:\DX\METHOD\E300-063.MET                                      |
| ACI Address: 1  System: 1  Inject#: 7                    Detector:COND      |
| Analyst    : David          Column: Dionex AS4A-SC                          |
==============================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00	1000	

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.33	Fluoride	0.999	89896	726672	2	0.00
2	1.95	Chloride	3.767	248158	1863483	2	0.00
3	2.33	Nitrite-N	1.445	160603	1455681	2	1.17
4	3.47	Bromide	2.881	61007	586729	2	-0.71
5	3.92	Nitrate-N	1.410	149958	1697030	2	0.00
6	6.08	Phosphate-P	2.852	79916	1302965	1	0.00
7	8.02	Sulfate	13.993	285121	5314983	1	0.00
		Totals	27.347	1074659	12947545		

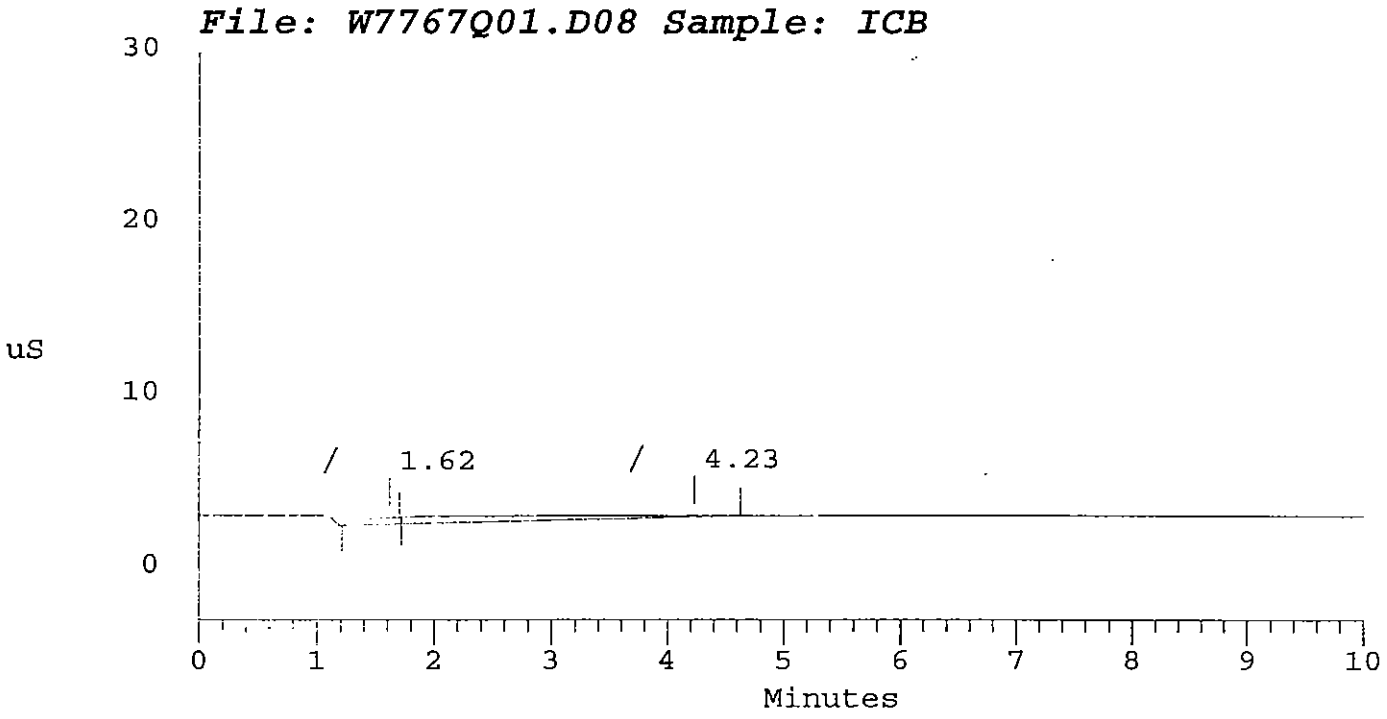


```
==========================================================================
| Sample Name: ICB                                Date: 03/21/2003 18:21:00 |
| Data File  : C:\DX\DATA\E300-063\W7767Q01.D08                             |
| Method     : C:\DX\METHOD\E300-063.MET                                    |
| ACI Address: 1  System: 1  Inject#: 8                   Detector:COND     |
| Analyst    : David          Column: Dionex AS4A-SC                        |
==========================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00	1000	

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
0	0.00	Nitrite-N	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate-P	0.000	0	0	0	0.00
0	0.00	Sulfate	0.000	0	0	0	0.00
		Totals	0.000	0	0		

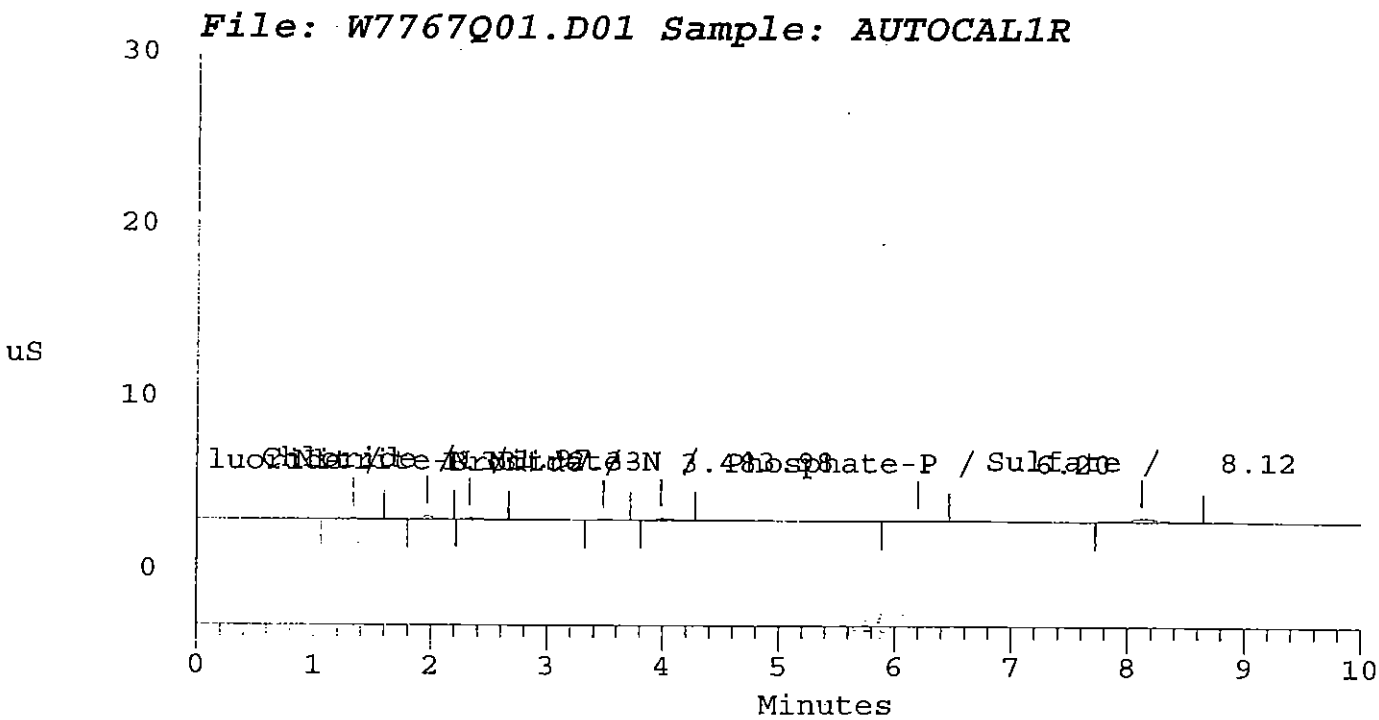


Sample Name:	AUTOCAL1R	Date:	03/21/2003 16:23:08
Data File :	C:\DX\DATA\E300-063\W7767Q01.D01		
Method :	C:\DX\METHOD\E300-063.MET		
ACI Address:	1 System: 1 Inject#: 1	Detector:	COND
Analyst :	David	Column:	Dionex AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.33	Fluoride	0.025	2732	28534	1	0.00
2	1.97	Chloride	0.100	7044	51206	2	0.00
3	2.33	Nitrite-N	0.038	3582	30884	2	-3.33
4	3.48	Bromide	0.075	1488	13830	1	-1.47
5	3.98	Nitrate-N	0.038	3802	40157	1	0.00
6	6.20	Phosphate-P	0.075	1450	24783	1	0.00
7	8.12	Sulfate	0.376	6524	129999	1	0.00
		Totals	0.726	26621	319393		

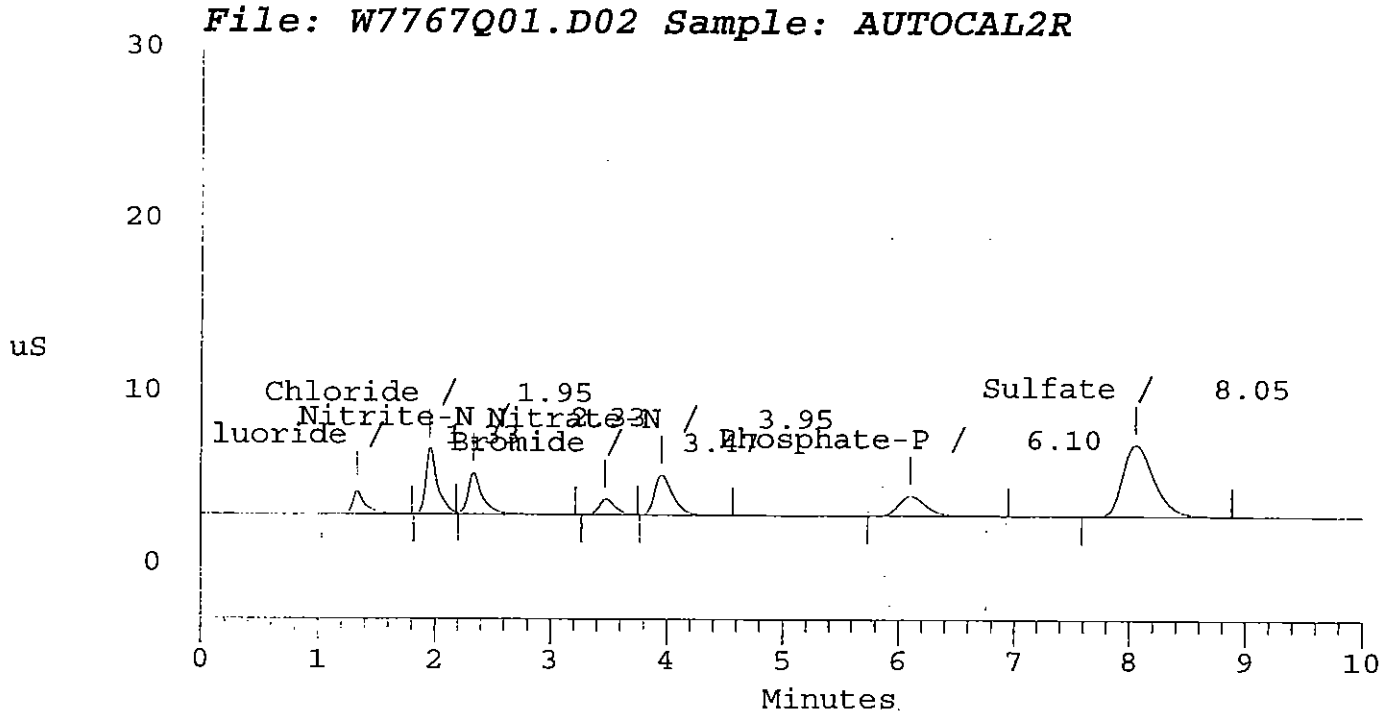


```
==========================================================================
| Sample Name: AUTOCAL2R                        Date: 03/21/2003 16:35:53  |
| Data File  : C:\DX\DATA\E300-063\W7767Q01.D02                            |
| Method     : C:\DX\METHOD\E300-063.MET                                   |
| ACI Address: 1  System: 1  Inject#: 2                  Detector:COND     |
| Analyst    : David          Column: Dionex AS4A-SC                       |
==========================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.33	Fluoride	0.500	44629	373164	2	0.00
2	1.95	Chloride	2.000	126181	909455	2	0.00
3	2.33	Nitrite-N	0.750	79701	734006	2	0.85
4	3.47	Bromide	1.500	30100	298206	2	0.36
5	3.95	Nitrate-N	0.750	77129	849179	2	0.00
6	6.10	Phosphate-P	1.500	38579	642376	1	0.00
7	8.05	Sulfate	7.500	138579	2598757	1	0.00
		Totals	14.500	534896	6405142		

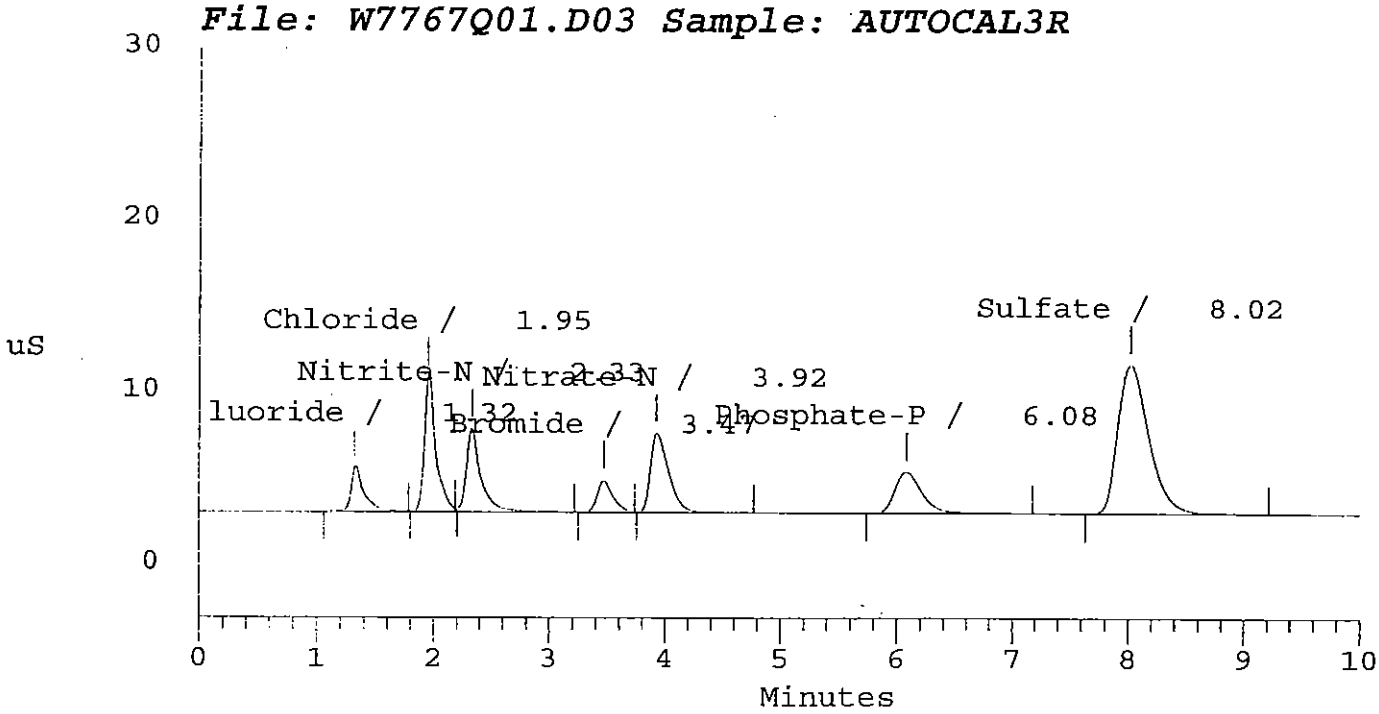


```
==================================================================================
| Sample Name: AUTOCAL3R                          Date: 03/21/2003 16:48:37       |
| Data File  : C:\DX\DATA\E300-063\W7767Q01.D03                                   |
| Method     : C:\DX\METHOD\E300-063.MET                                          |
| ACI Address: 1  System: 1  Inject#: 3                        Detector:COND      |
| Analyst    : David            Column: Dionex AS4A-SC                            |
==================================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.32	Fluoride	1.000	82595	707646	2	0.00
2	1.95	Chloride	4.000	261681	1856586	2	0.00
3	2.33	Nitrite-N	1.500	162005	1468106	2	0.00
4	3.47	Bromide	3.000	61776	591234	2	0.85
5	3.92	Nitrate-N	1.500	152776	1713421	2	0.00
6	6.08	Phosphate-P	3.000	79971	1301126	1	0.00
7	8.02	Sulfate	15.000	287851	5330209	1	0.00
		Totals	29.000	1088657	12968327		

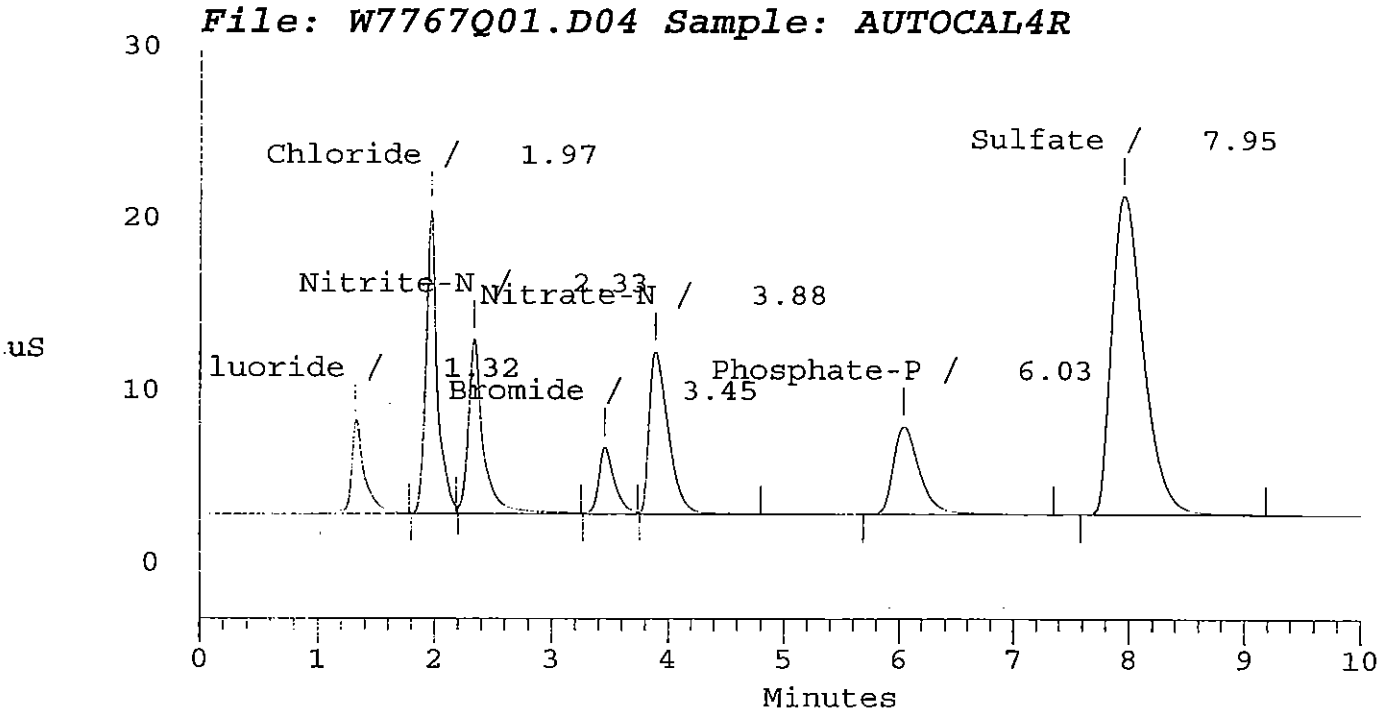


```
==========================================================================
| Sample Name: AUTOCAL4R                        Date: 03/21/2003 17:01:21 |
| Data File  : C:\DX\DATA\E300-063\W7767Q01.D04                           |
| Method     : C:\DX\METHOD\E300-063.MET                                  |
| ACI Address: 1  System: 1  Inject#: 4                  Detector:COND    |
| Analyst    : David          Column: Dionex AS4A-SC                      |
==========================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.32	Fluoride	2.000	173007	1435865	2	0.00
2	1.97	Chloride	8.000	585791	3987563	2	0.00
3	2.33	Nitrite-N	3.000	336616	3021523	2	-0.85
4	3.45	Bromide	6.000	128845	1219933	2	0.37
5	3.88	Nitrate-N	3.000	313707	3610927	2	0.00
6	6.03	Phosphate-P	6.000	168994	2756481	2	0.00
7	7.95	Sulfate	30.000	615917	11507107	2	0.00
		Totals	58.000	2322876	27539399		

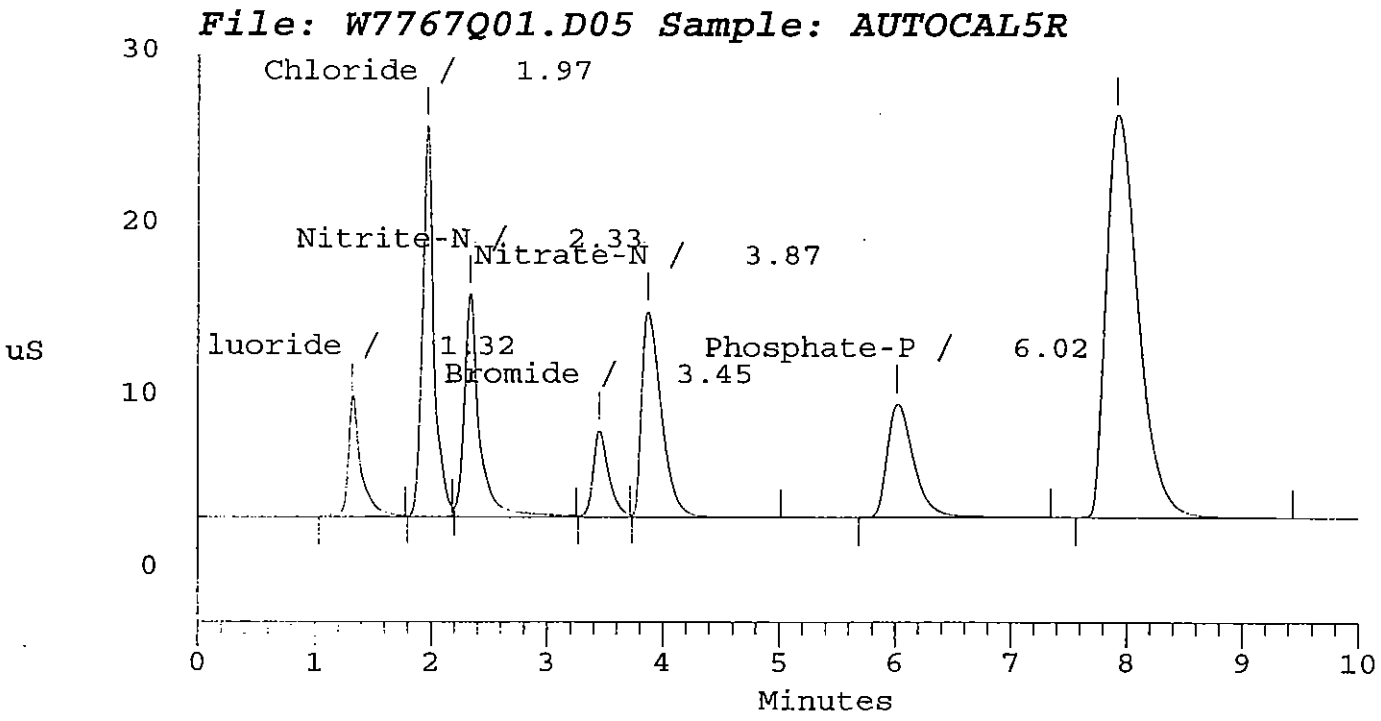


```
==========================================================================
| Sample Name: AUTOCAL5R                        Date: 03/21/2003 17:14:05  |
| Data File  : C:\DX\DATA\E300-063\W7767Q01.D05                            |
| Method     : C:\DX\METHOD\E300-063.MET                                   |
| ACI Address: 1  System: 1  Inject#: 5                  Detector:COND     |
| Analyst    : David          Column: Dionex AS4A-SC                       |
==========================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00	1000	

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.32	Fluoride	2.500	220914	1837162	2	0.00
2	1.97	Chloride	10.000	754321	5142155	2	0.00
3	2.33	Nitrite-N	3.750	429219	3856614	2	0.00
4	3.45	Bromide	7.500	166594	1559887	2	0.43
5	3.87	Nitrate-N	3.750	396441	4688990	2	0.00
6	6.02	Phosphate-P	7.500	217521	3546397	2	0.00
7	7.92	Sulfate	37.500	776426	14859049	2	0.00
		Totals	72.500	2961435	35490255		



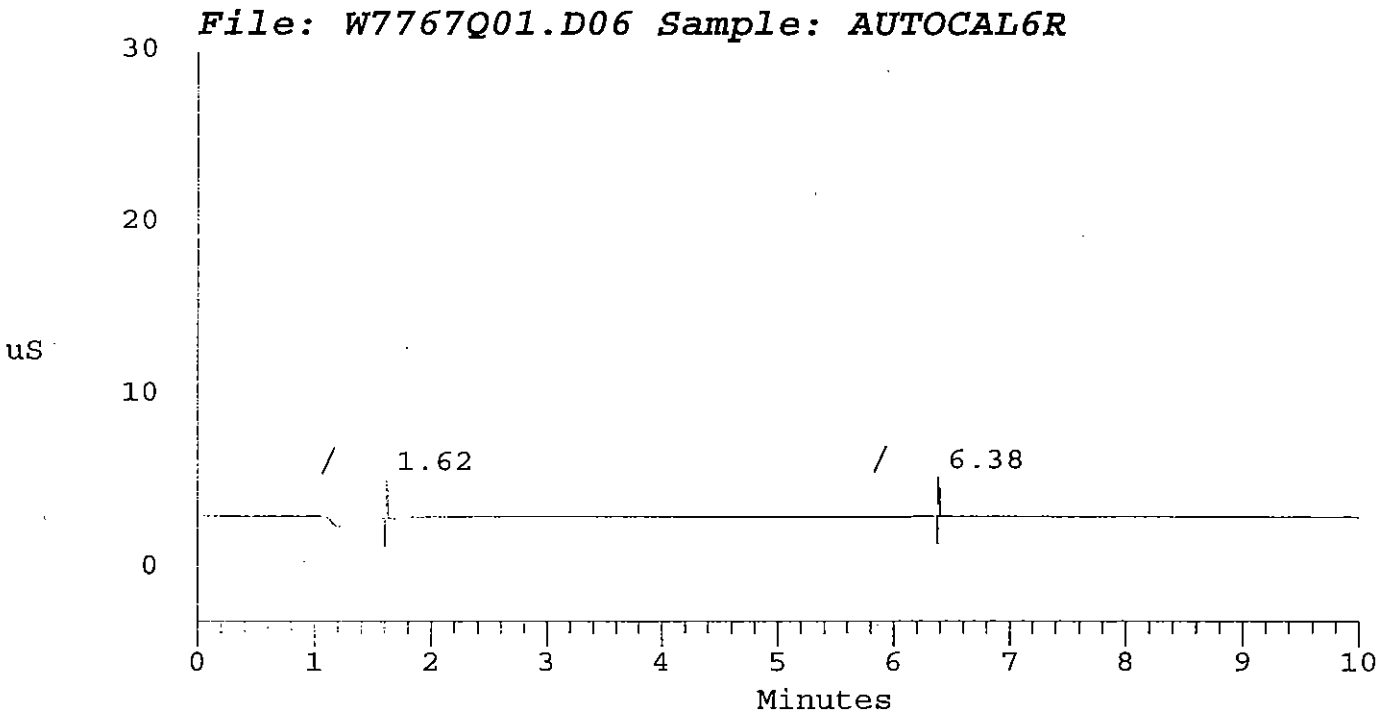
Data Reprocessed On 03/21/2003 17:39:26

Sample Name: AUTOCAL6R	Date: 03/21/2003 17:37:58
Data File : C:\DX\DATA\E300-063\W7767Q01.D06	
Method : C:\DX\METHOD\E300-063.MET	
ACI Address: 1 System: 1 Inject#: 6	Detector:COND
Analyst : David	Column: Dionex AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00	1000	

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
0	0.00	Nitrite-N	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate-P	0.000	0	0	0	0.00
0	0.00	Sulfate	0.000	0	0	0	0.00
		Totals	0.000	0	0		



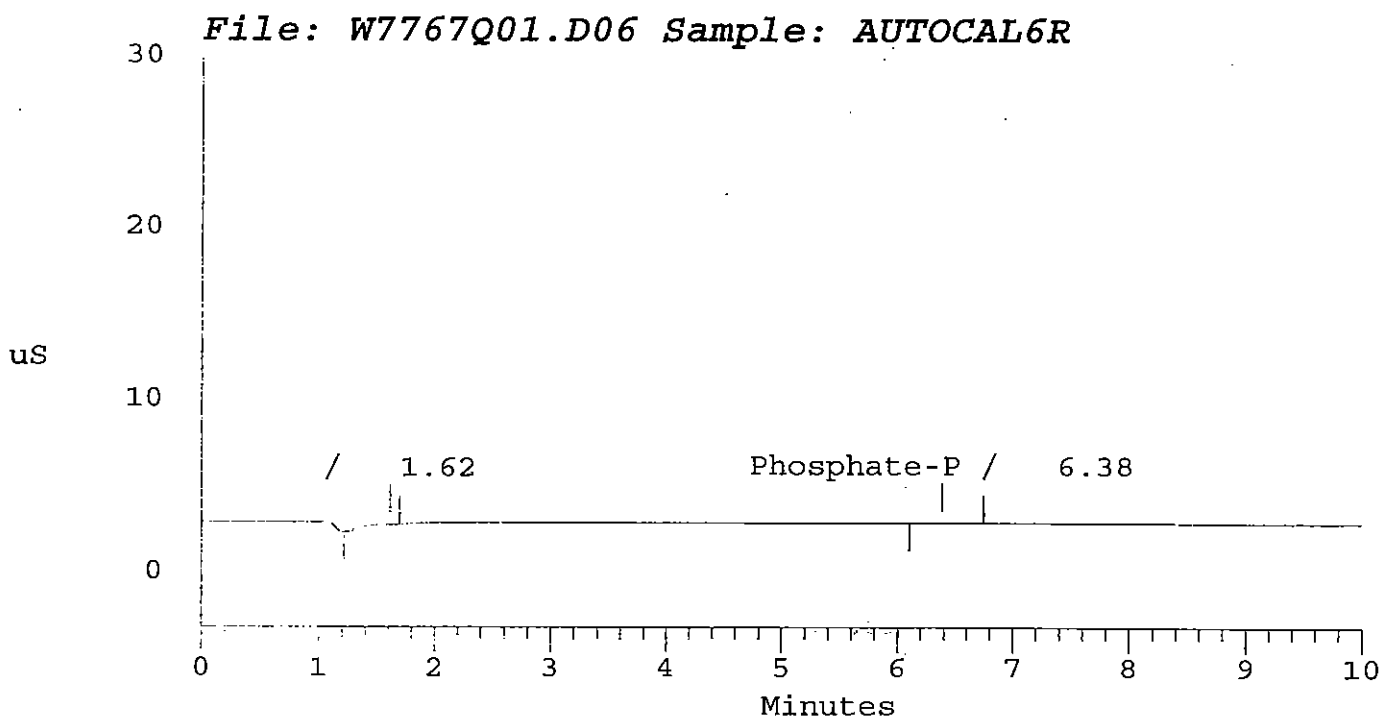
After
3/23/03
Reason: 3.3

Sample Name: AUTOCAL6R Date: 03/21/2003 17:37:58
Data File : C:\DX\DATA\E300-063\W7767Q01.D06
Method : C:\DX\METHOD\E300-063.MET
ACI Address: 1 System: 1 Inject#: 6 Detector:COND
Analyst : David Column: Dionex AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		1000

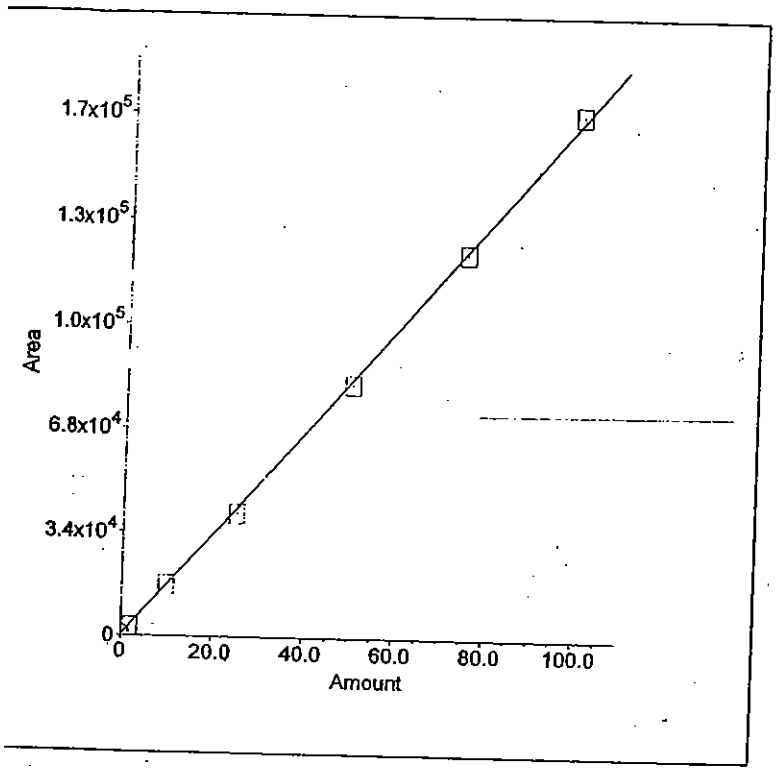
********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
0	0.00	Nitrite-N	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
2	6.38	Phosphate-P	0.000	582	11752	1	0.00
0	0.00	Sulfate	0.000	0	0	0	0.00
		Totals	0.000	582	11752		



Before

1: Component:perchlorate
Standard:External Fit Type:Linear
Origin:Force Calibration:Area
r^2=0.999492
Amt=0.0005893*Resp+0



Calibration : 7 points , 0, 2, 10, 25, 50, 75, 100 ppb

Analyst C. W
Date 03/12/03
Instrument IC-1c

APCL Perchlorate Analysis Report

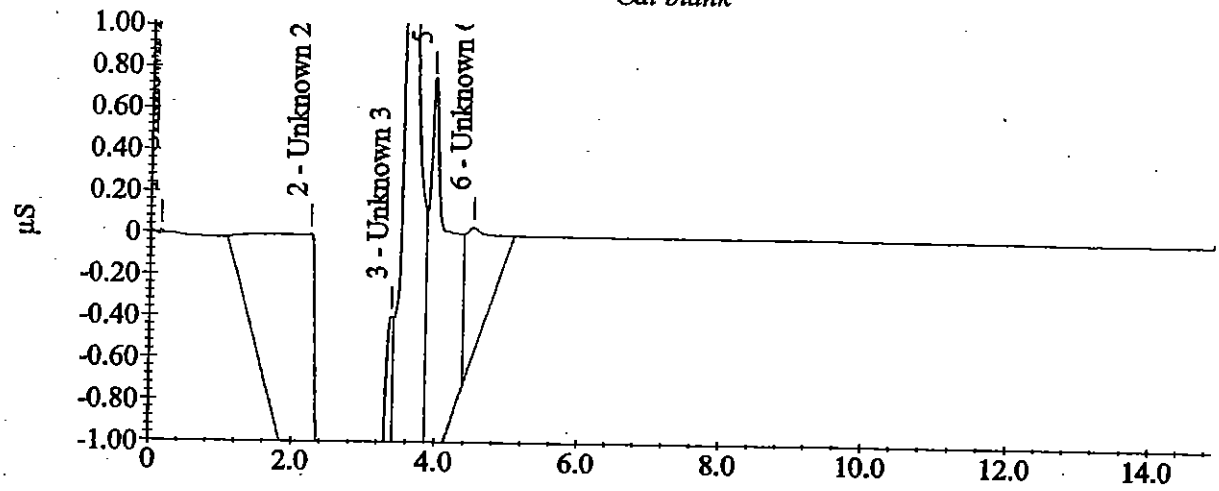
Sample Name : Cal blank
Data File Name : C:\data\E314-011\Mb_001.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 03/12/2003 5:55:39 PM
System Operator : wei wang
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height

Cal blank



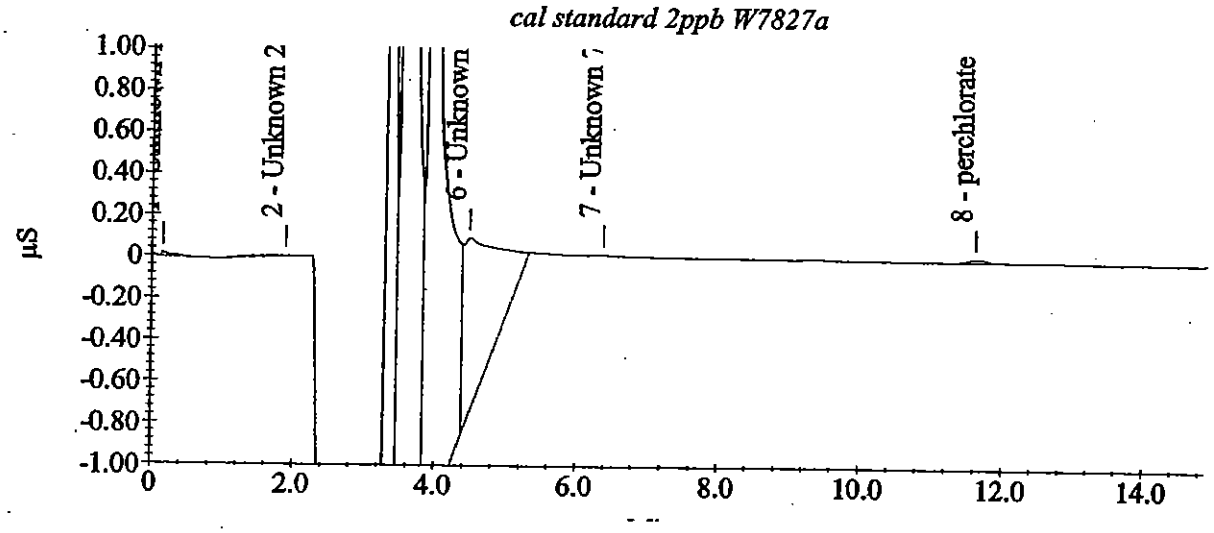
APCL Perchlorate Analysis Report

Sample Name : cal standard 2ppb W7827a
Data File Name : C:\DATA\E314-011\std-2pb_002.DXD

Method File Name : C:\PEAKNET\METHOD\e314-011.met
Date Time Collected : 03/12/2003 6:13:12 PM
System Operator : wei wang
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
8	perchlorate	11.62	1.92	2910	164



APCL Perchlorate Analysis Report

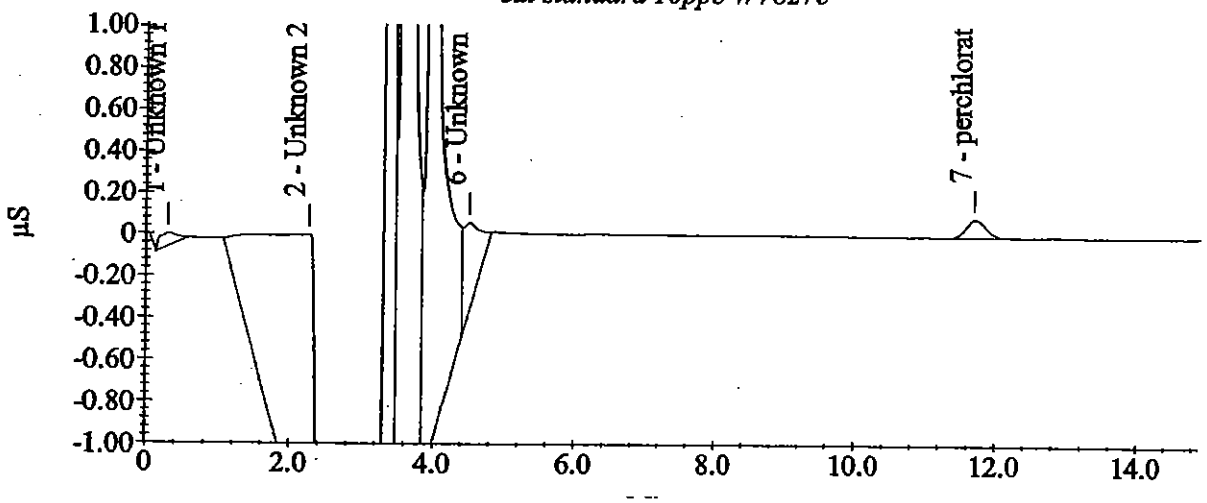
Sample Name : cal standard 10ppb W7827c
Data File Name : C:\DATA\E314-011\std-10pb_004.DXD

Method File Name : C:\PEAKNET\METHOD\e314-011.met
Date Time Collected : 03/12/2003 6:48:21 PM
System Operator : wei wang
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
7	perchlorate	11.70	11.16	16917	879

cal standard 10ppb W7827c



APCL Perchlorate Analysis Report

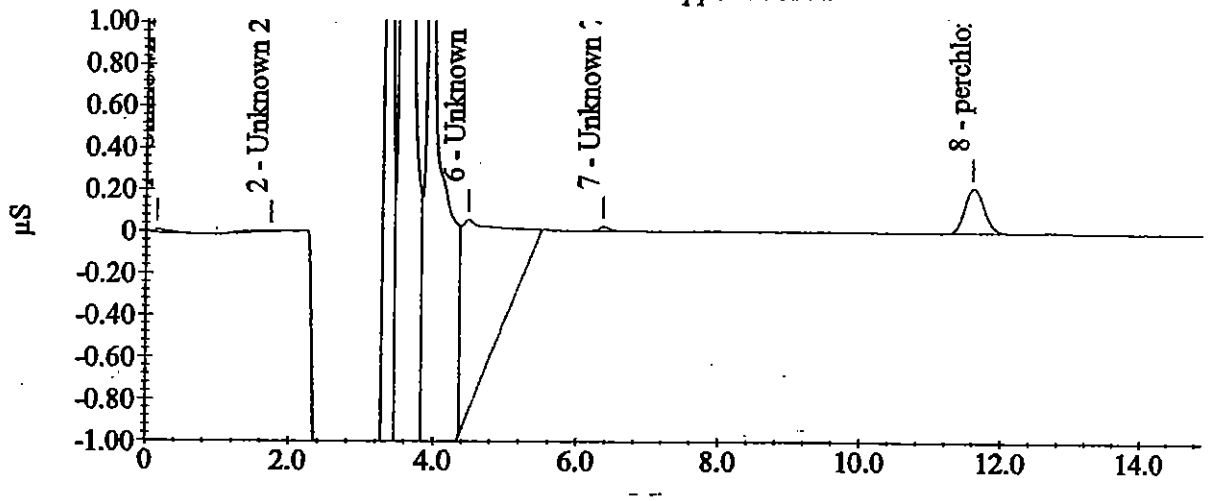
Sample Name : cal standard 25ppb W7827d
Data File Name : C:\DATA\E314-011\std-25pb_005.DXD

Method File Name : C:\PEAKNET\METHOD\e314-011.met
Date Time Collected : 03/12/2003 7:05:54 PM
System Operator : wei wang
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
8	perchlorate	11.60	26.84	40702	2125

cal standard 25ppb W7827d



APCL Perchlorate Analysis Report

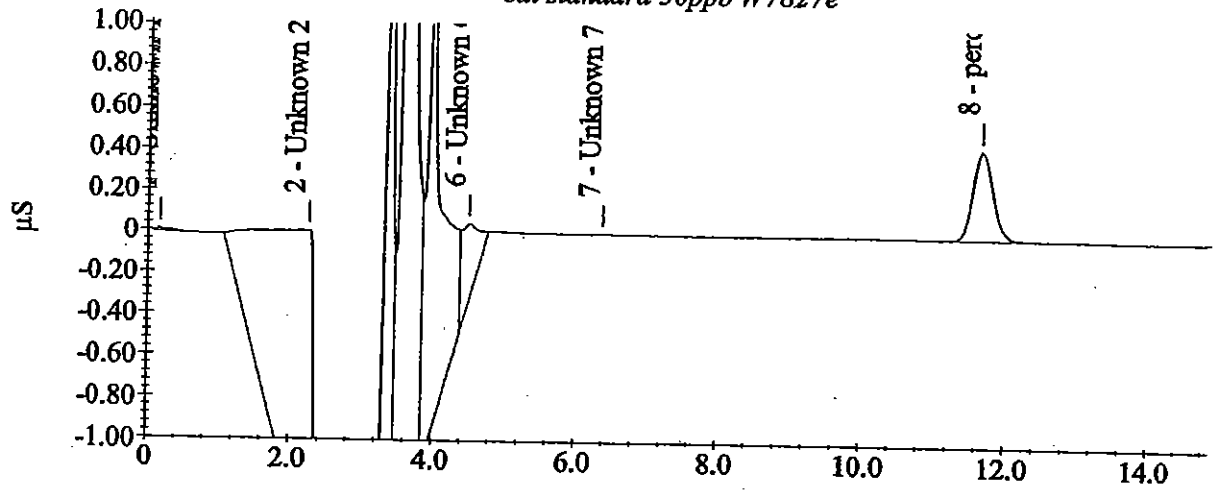
Sample Name : cal standard 50ppb W7827e
Data File Name : C:\DATA\E314-011\std-50pb_006.DXD

Method File Name : C:\PEAKNET\METHOD\e314-011.met
Date Time Collected : 03/12/2003 7:23:30 PM
System Operator : wei wang
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
8	perchlorate	11.67	54.89	83240	4320

cal standard 50ppb W7827e



APCL Perchlorate Analysis Report

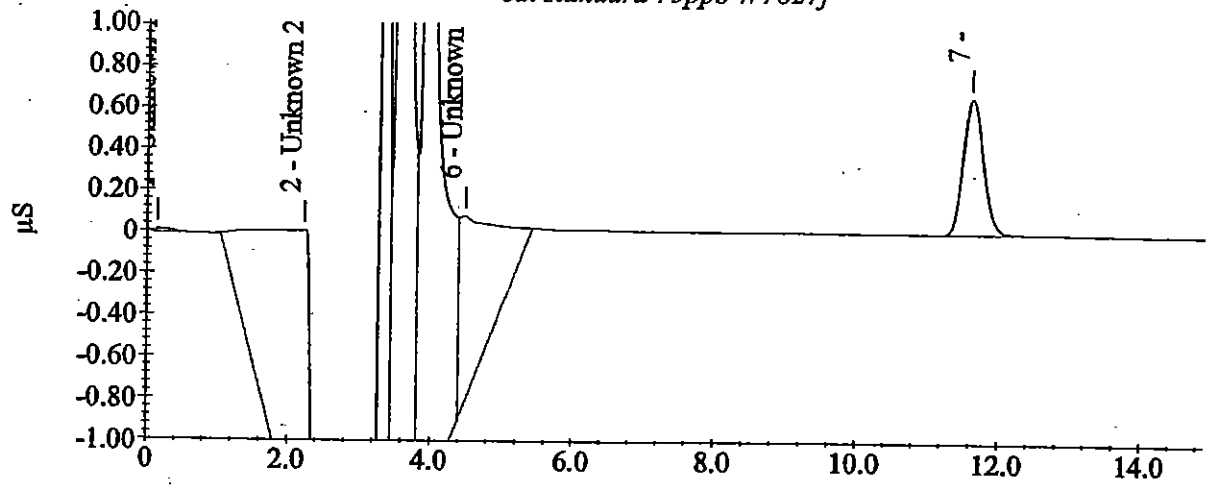
Sample Name : cal standard 75ppb W7827f
Data File Name : C:\DATA\E314-011\std-75pb_007.DXD

Method File Name : C:\PEAKNET\METHOD\e314-011.met
Date Time Collected : 03/12/2003 7:41:05 PM
System Operator : wei wang
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
7	perchlorate	11.62	83.23	126224	6553

cal standard 75ppb W7827f



APCL Perchlorate Analysis Report

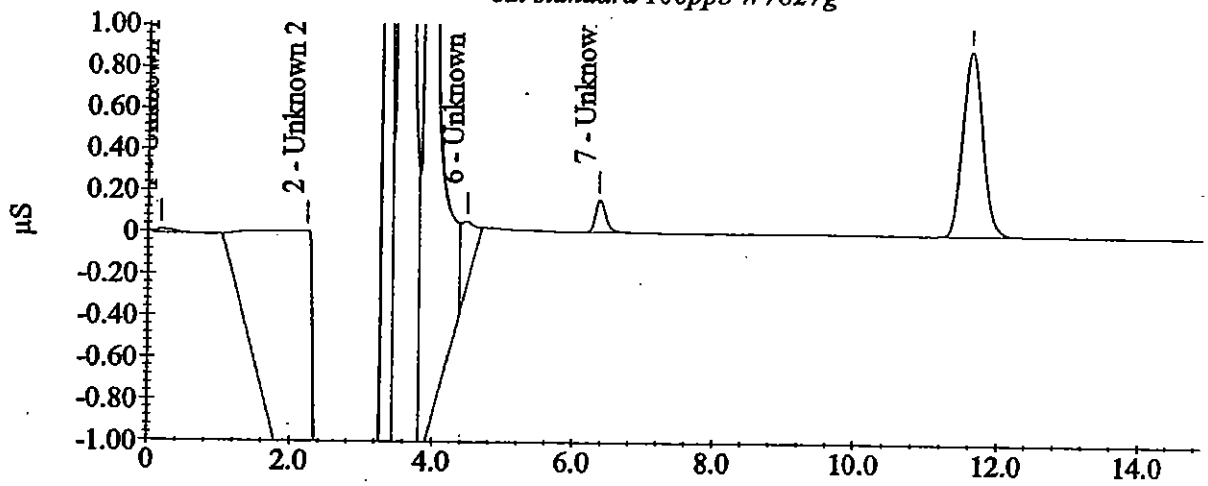
Sample Name : cal standard 100ppb W7827g
Data File Name : C:\DATA\E314-011\std-100pb_008.DXD

Method File Name : C:\PEAKNET\METHOD\e314-011.met
Date Time Collected : 03/12/2003 7:58:39 PM
System Operator : wei wang
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
8	perchlorate	11.62	113.21	171686	89223

cal standard 100ppb W7827g



APCL Perchlorate Analysis Report

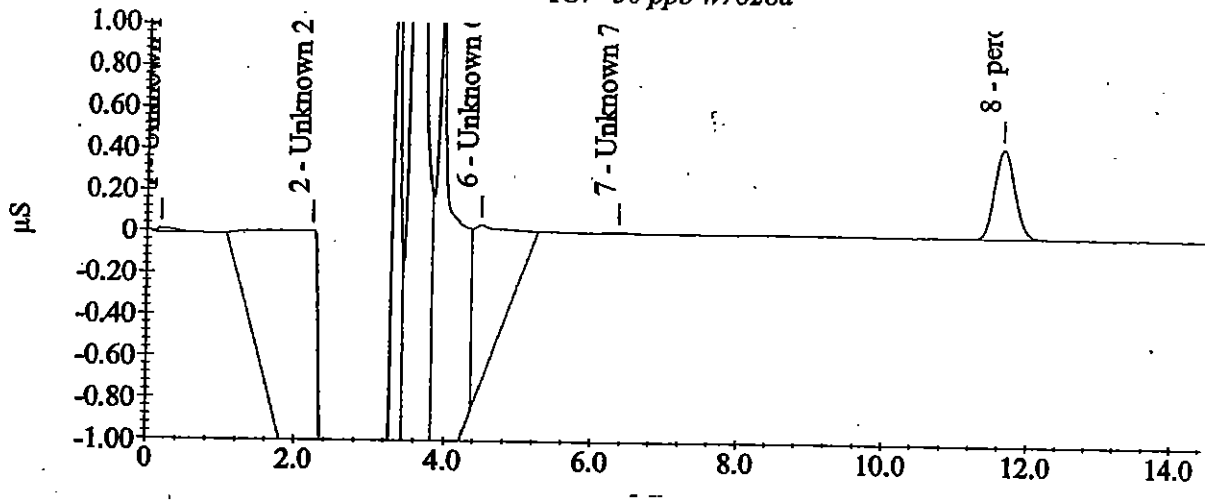
Sample Name : ICV 50 ppb w7828a
Data File Name : C:\DATA\E314-011\icv-50pb_009.DXD

Method File Name : C:\PEAKNET\METHOD\E314-011.met
Date Time Collected : 03/12/2003 8:16:15 PM
System Operator : wei wang
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
8	perchlorate	11.65	49.49	83990	4321

ICV 50 ppb w7828a



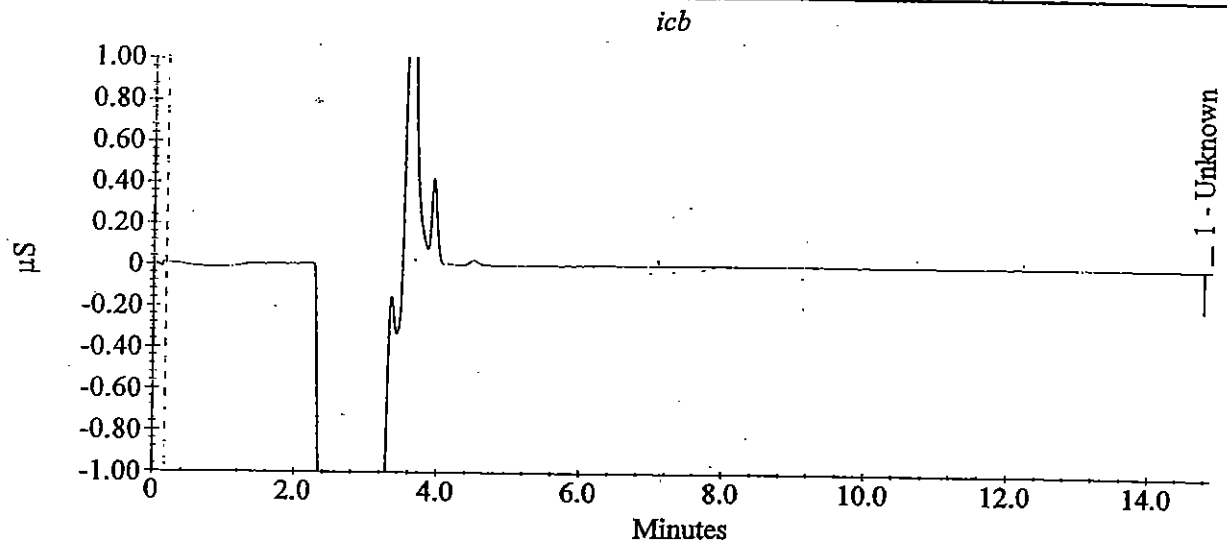
APCL Perchlorate Analysis Report

Sample Name : icb
Data File Name : C:\DATA\E314-011\ICB_010.DXD

Method File Name : c:\PeakNet\method\E314-011.met
Date Time Collected : 03/12/2003 8:33:51 PM
System Operator : wei wang
~~Dilution Factor : 1.00~~

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height



FORM-7

Applied P & Ch Laboratory

CCV Recovery for Wet Analysis

Client Name: GEOFON, Inc. Contract No.: Lab Code: APCL
Case No: SAS No.: Service ID: 32866
Project ID: JPL Project No.: 04-4428.10

#	Component Name	Method	Batch No.	Unit	Expe-cted	Test Result	Rec. %	Dev. %	Flag	Control Limit, %	Test Date
1	Chloride Cl^-	300.0	03W2550	mg/L	4.0	3.98	99	-1	√	90-110	04/25/2003
	NITRATE as N-NO_3^-, BY	300.0	03W2550	mg/L	1.5	1.49	100	0	√	90-110	04/25/2003
	SULFATE SO_4^{--}, BY I	300.0	03W2550	mg/L	15	14.8	99	-1	√	90-110	04/25/2003
	Chloride Cl^-	300.0	03W2550	mg/L	4.0	3.96	99	-1	√	90-110	04/25/2003
	NITRATE as N-NO_3^-, BY	300.0	03W2550	mg/L	1.5	1.51	101	1	√	90-110	04/25/2003
	SULFATE SO_4^{--}, BY I	300.0	03W2550	mg/L	15	14.8	99	-1	√	90-110	04/25/2003
	Chloride Cl^-	300.0	03W2550	mg/L	4.0	3.94	98	-2	√	90-110	04/25/2003
	NITRATE as N-NO_3^-, BY	300.0	03W2550	mg/L	1.5	1.51	100	0	√	90-110	04/25/2003
	SULFATE SO_4^{--}, BY I	300.0	03W2550	mg/L	15	14.8	99	-1	√	90-110	04/25/2003
2	Perchlorate	314.0	03W2531	μg/L	50	50.1	100	0	√	90-110	04/24/2003
	Perchlorate	314.0	03W2531	μg/L	50	51.0	102	2	√	90-110	04/24/2003
	Perchlorate	314.0	03W2531	μg/L	50	50.6	101	1	√	90-110	04/24/2003
	Perchlorate	314.0	03W2531	μg/L	50	51.0	102	2	√	90-110	04/24/2003
3	Chromium (VI)	7196	03W2542	mg/L	0.25	0.243	97	-3	√	90-110	04/24/2003
	Chromium (VI)	7196	03W2542	mg/L	0.25	0.238	95	-5	√	90-110	04/24/2003
4	Perchlorate	314.0	03W2612	μg/L	50	53.1	106	6	√	90-110	04/29/2003
	Perchlorate	314.0	03W2612	μg/L	50	49.8	100	0	√	90-110	04/29/2003
	Perchlorate	314.0	03W2612	μg/L	50	48.9	98	-2	√	90-110	04/29/2003
	Perchlorate	314.0	03W2612	μg/L	50	50.9	102	2	√	90-110	04/30/2003

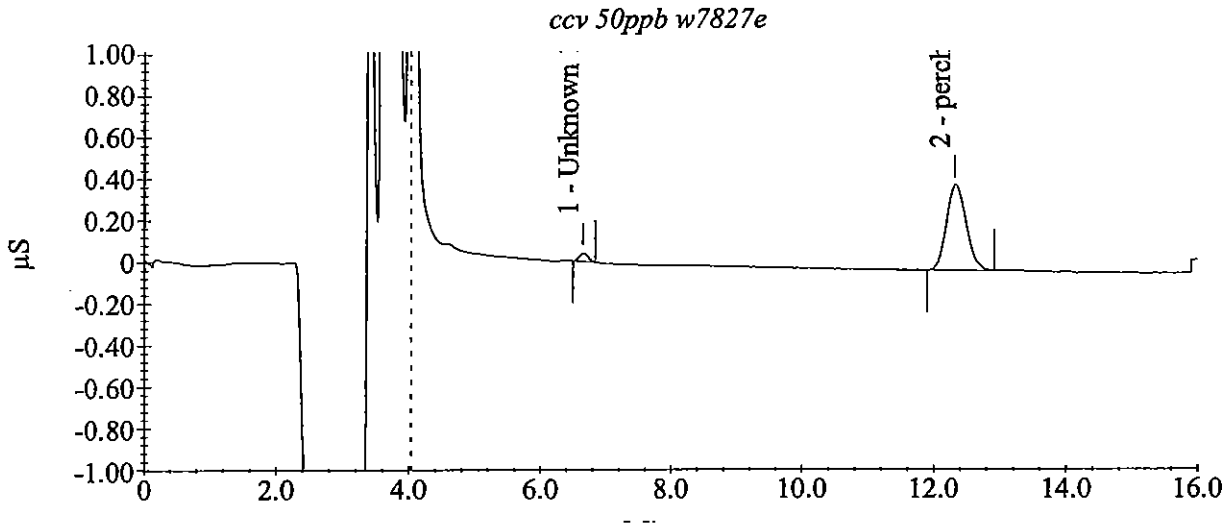
APCL Perchlorate Analysis Report

Sample Name : ccv 50ppb w7827e
Data File Name : C:\DATA\03W2531K\W2531K Q01_002.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 04/24/2003 11:37:07 AM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
2	perchlorate	12.32	50.07	84975.50	4065.31



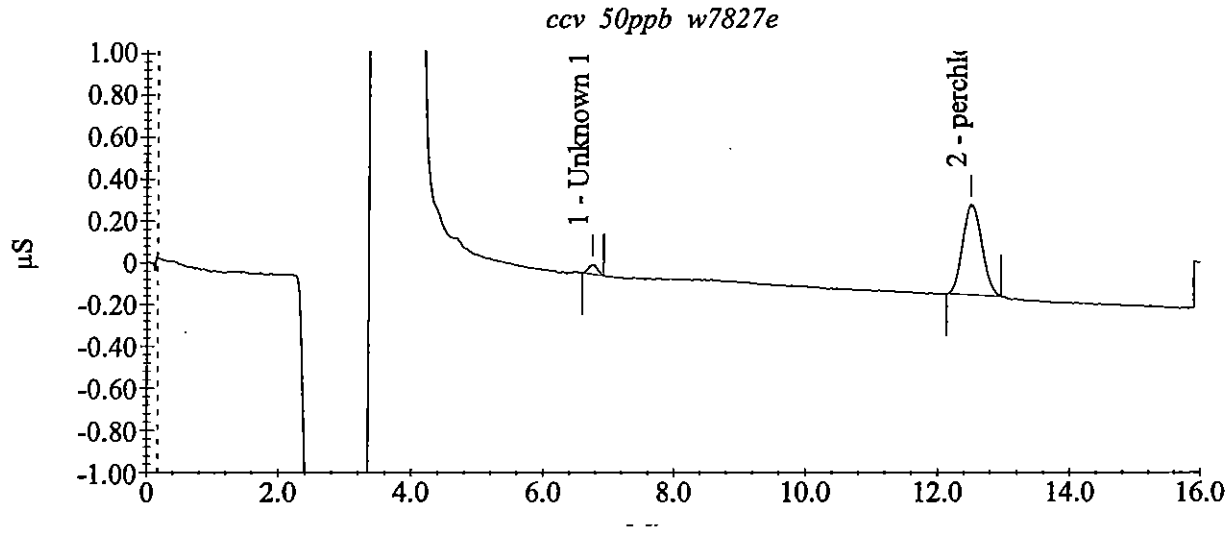
APCL Perchlorate Analysis Report

Sample Name : ccv 50ppb w7827e
Data File Name : C:\DATA\03W2531K\W2531K Q02_013.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 04/24/2003 3:53:15 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
2	perchlorate	12.50	50.97	86505.35	4265.63



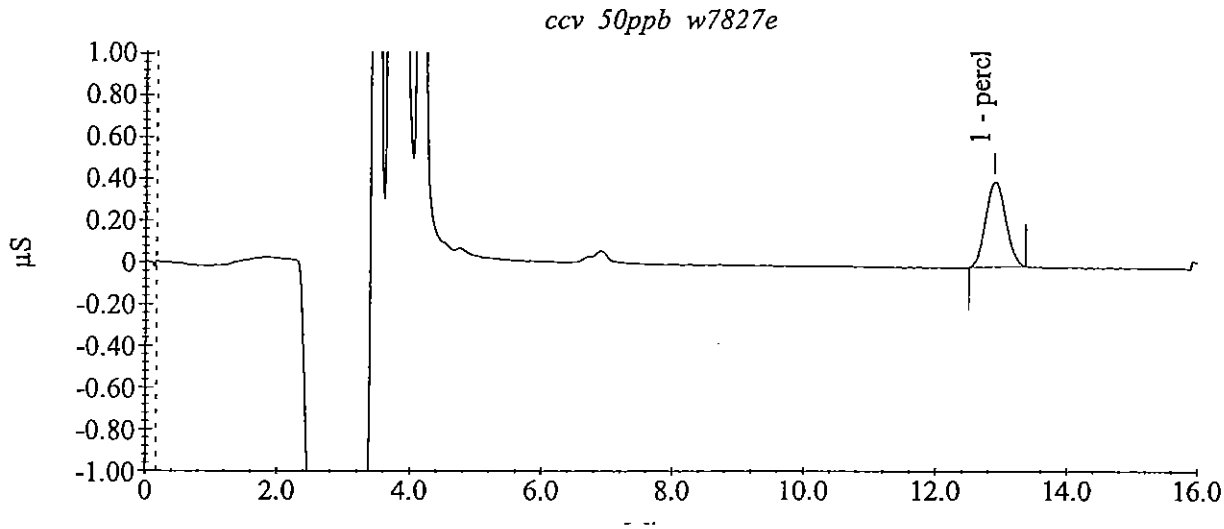
APCL Perchlorate Analysis Report

Sample Name : ccv 50ppb w7827e
Data File Name : C:\DATA\03W2531K\W2531K Q03_024.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 04/24/2003 7:18:06 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	perchlorate	12.88	50.61	85888.70	4028.93



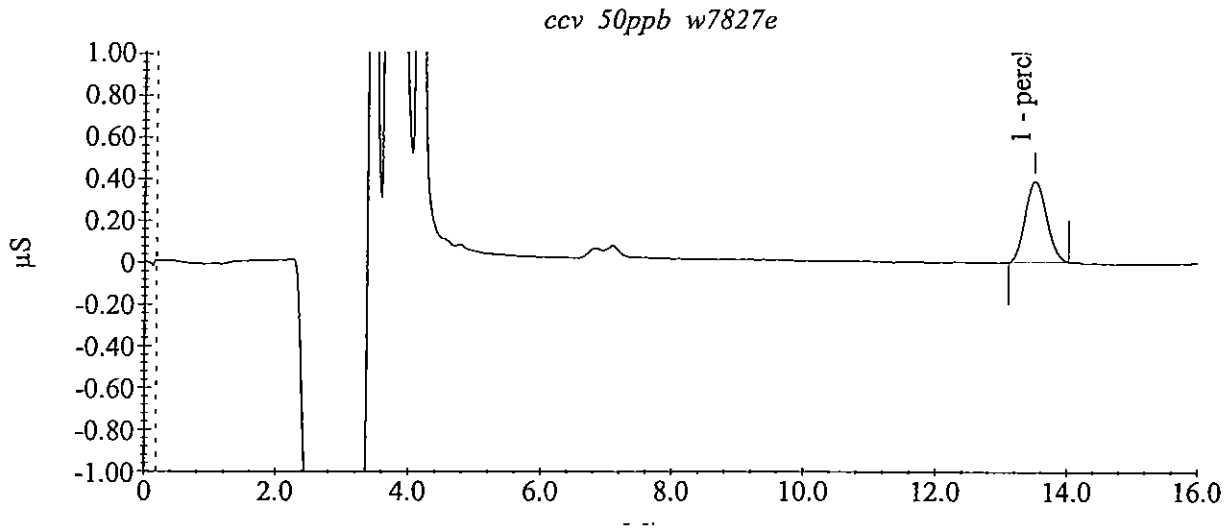
APCL Perchlorate Analysis Report

Sample Name : ccv 50ppb w7827e
Data File Name : C:\DATA\03W2531K\W2531K Q04_034.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 04/24/2003 10:25:26 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	perchlorate	13.50	50.96	86487.10	3844.02



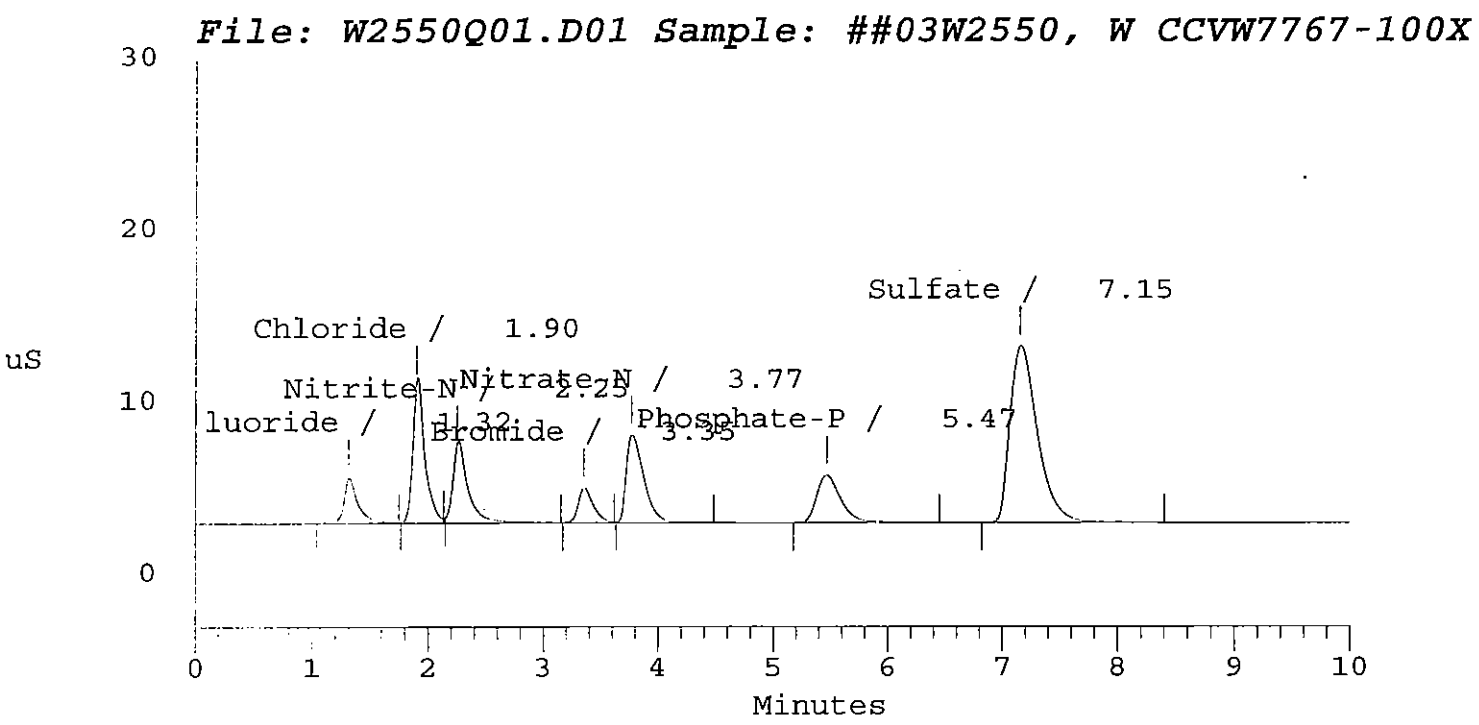
Data Reprocessed On 04/25/2003 09:30:56

Sample Name:	##03W2550, W CCVW7767-100X Date: 04/25/2003 09:22:22
Data File :	C:\DX\DATA\03W2550\W2550Q01.D01
Method :	C:\DX\METHOD\E300-063.MET
ACI Address:	1 System: 1 Inject#: 1 Detector:COND
Analyst :	David Column: Dionex AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.32	Fluoride	1.038	86469	755072	2	0.00
2	1.90	Chloride	3.976	267025	1970127	2	0.00
3	2.25	Nitrite-N	1.450	151510	1460781	2	0.00
4	3.35	Bromide	3.043	67345	620071	2	0.42
5	3.77	Nitrate-N	1.494	169321	1801947	2	0.00
6	5.47	Phosphate-P	2.966	92193	1356614	1	0.00
7	7.15	Sulfate	14.835	340776	5647588	1	0.00
		Totals	28.801	1174639	13612199		

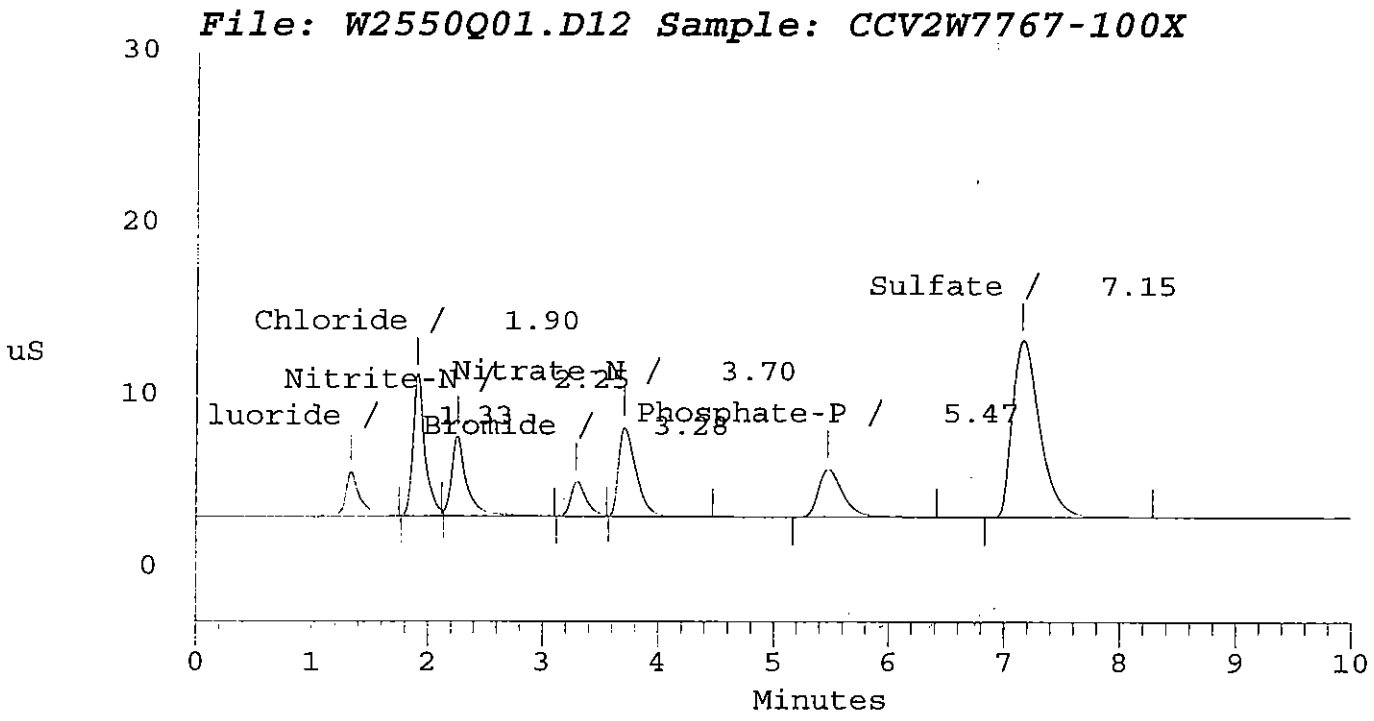


```
==========================================================================
| Sample Name: CCV2W7767-100X                  Date: 04/25/2003 11:57:37  |
| Data File  : C:\DX\DATA\03W2550\W2550Q01.D12                            |
| Method     : C:\DX\METHOD\E300-063.MET                                  |
| ACI Address: 1  System: 1  Inject#: 12                Detector:COND     |
| Analyst    : David          Column: Dionex AS4A-SC                      |
==========================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00	1000	

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.33	Fluoride	1.053	85878	765952	2	0.00
2	1.90	Chloride	3.964	269379	1964022	2	0.00
3	2.25	Nitrite-N	1.479	155725	1490856	2	0.00
4	3.28	Bromide	3.079	66493	627695	2	0.20
5	3.70	Nitrate-N	1.509	171944	1821121	2	0.00
6	5.47	Phosphate-P	3.000	91791	1372626	1	0.00
7	7.15	Sulfate	14.806	338357	5636235	1	0.00
		Totals	28.891	1179566	13678507		

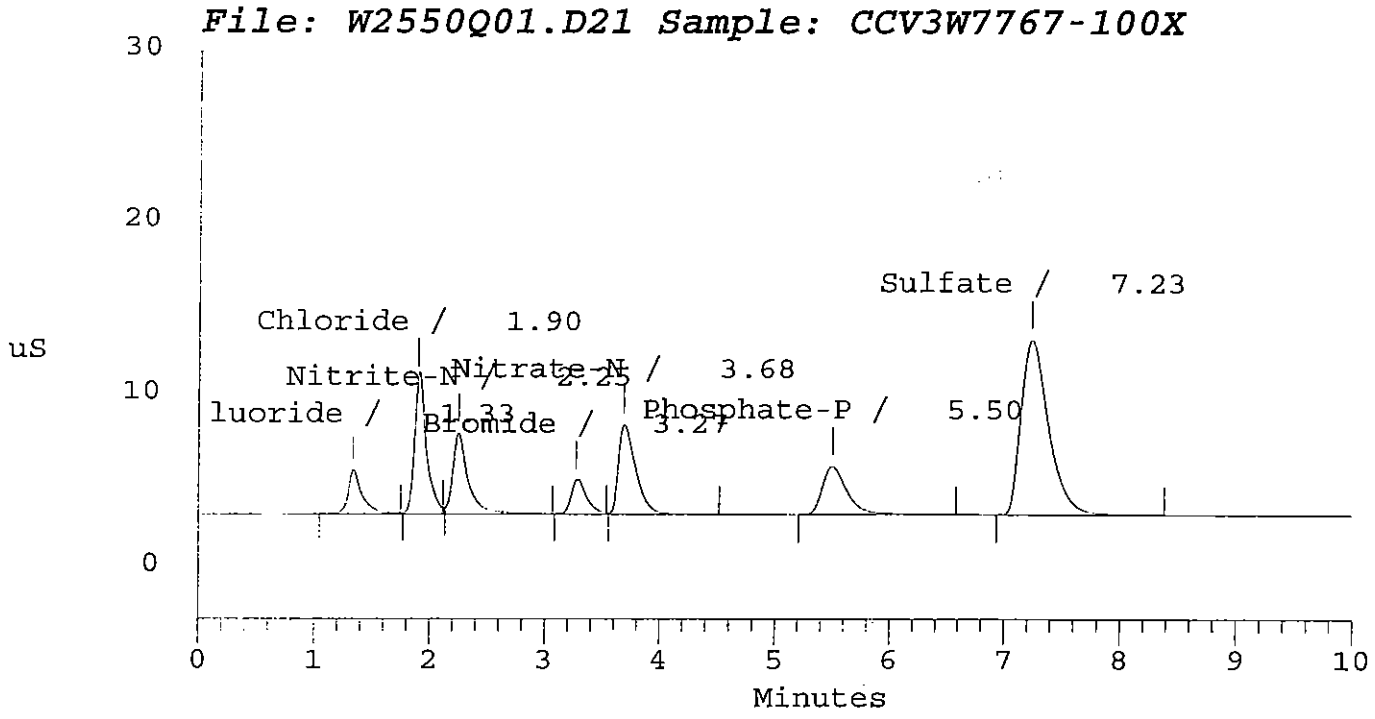


Sample Name: CCV3W7767-100X	Date: 04/25/2003 14:37:29
Data File : C:\DX\DATA\03W2550\W2550Q01.D21	
Method : C:\DX\METHOD\E300-063.MET	
ACI Address: 1 System: 1 Inject#: 21	Detector:COND
Analyst : David Column: Dionex AS4A-SC	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.33	Fluoride	1.045	85212	759966	2	0.00
2	1.90	Chloride	3.937	264088	1950427	2	0.00
3	2.25	Nitrite-N	1.471	157172	1482183	2	0.00
4	3.27	Bromide	3.081	65536	628093	2	0.14
5	3.68	Nitrate-N	1.507	172257	1818485	2	0.00
6	5.50	Phosphate-P	3.063	93190	1402211	1	0.00
7	7.23	Sulfate	14.791	337943	5630388	1	0.00
		Totals	28.896	1175398	13671753		



Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

pH (150.1/9045B) Worksheet

Temperature compensation must be performed by the instrument automatically. Analyst: [illegible] SOP: G-44

Batch # 03W2546 Analysis Date: 4,24,03
Starting Time: 16:13 Ending Time: :
Matrix ☐ Aqueous ☐ Soil

Standard	4.00	7.00	10.00
Lot #		2120	030619-24
Temperature °C		24.0	24.0
pH Reading		7.07	10.02
T-corrected pH		7.00	10.01
Control Limit	±0.05 pH unit		

#	Sample ID	Pre-treat	pH	Note
MB	T111		6.83	
1	2866-1		7.66	
2	-2		6.21	
3	-3		7.64	
4	-4		7.71	
5	-5		7.90	
6	-6		8.79	
7	-7		9.08	
8	2881-1		8.33	
9	-2		8.11	
10	-3		8.47	
11	-4		8.33	
12	-5		8.27	
13	-6		8.15	
14				
15				
16				
17				
18				
19				
20				
Dup.	2866-1		7.62	

Batch # 03W2561 Analysis Date: 4,25,03
Starting Time: 10:35 Ending Time: :
Matrix ☐ Aqueous ☒ Soil

Standard	4.00	7.00	10.00
Lot #		2120	030619-24
Temperature °C		23.8	23.8
pH Reading		7.01	10.03
T-corrected pH		7.00	10.02
Control Limit	±0.05 pH unit		

#	Sample ID	Pre-treat	pH	Note
MB	0817HB		6.84	1:1
1	2825-1		8.39	
2	-2		9.00	
3	-3		9.20	
4	-4		9.21	
5	2826-1		8.87	
6	-2		8.75	
7	-3		9.00	
8	-4		8.67	
9	-5		9.05	
10	-6		8.89	
11	-7		8.98	
12	-8		8.77	
13	-9		8.66	
14	-10		8.80	
15	-11		8.78	
16	-12		9.25	
17	2827-1		9.19	
18	-2		9.03	
19	-3		9.31	
20	-4		9.15	
Dup.	2825-4		9.15	

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Alkalinity/OH/CO_3/HCO_3 (310.1/SM2320B) Worksheet

Batch # 03W2617 Matrix: W Titrant H_2SO_4 Lot # W7900 Concentration (C) 0.0255N Test Date: 4/29/03 Analyst: DL SOP: G-51

#	Sample ID	Dilution $V_f/V_i=f_1$	Smpl Amnt V_i mL	H_2SO_4 (mL) by Phnln S_A	E_A	A	H_2SO_4 (mL) by MR-BCG S_B	E_B	B	Phnln-Alk., P	Tot. Alk., T (in unit of mg$CaCO_3$/L)	OH^-	CO_3^{2-}	HCO_3^-	Note & Anomaly
1	MB: TIIIF	1 =	100			0			0		0	0	0	0	
2	LCS	1 =	100						7.85		100.3				
3	LCSD	1 =	100						7.90		100.9				
4	2866-1	1 =	50.0			0			6.50		166.1	0	0	166.1	
5	-2	1 =	50.0			0			0		0	0	0	0	
6	-3	1 =	50.0			0			6.40		163.5	0	0	163.5	
7	-4	1 =	50.0			0			6.00		153.3	0	0	153.5	
8	-5	1 =	50.0			0			7.90		201.8	0	0	201.8	
9	-6	1 =	50.0			0.40			4.90	10.2	135.4	0	20.4	115.0	
10	-7	1 =	50.0			0.75			5.20	19.2	152.0	0	38.4	113.6	
11	2881-1	1 =	50.0			0.15			6.90	3.8	180.1	0	7.6	172.5	
12	-2	1 =	50.0			0			7.20		184.0	0	0	184.0	
13	-3	1 =	50.0			0.70			9.65	17.89	264.4	0	35.8	228.6	
14	-4	1 =	50.0			0.20			9.95	5.11	259.3	0	10.2	249.1	
15	-5	1 =	50.0			0.35			14.10	8.9	369.2	0	17.8	351.4	
16	-6	1 =	50.0			0			4.90		125.2	0	0	125.2	
17		1 =													
18		1 =													
19		1 =													
20		1 =													
Dup.	2866-1	1 =	50.0			0			6.60		168.6	0	0	168.6	

Titration Results	OH^- ($CaCO_3$ mg/L)	CO_3^{2-} ($CaCO_3$ mg/L)	HCO_3^- ($CaCO_3$ mg/L)
P=0	0	0	T
P<T/2	0	2P	T-2P
P=T/2	0	2P	0
P>T/2	2P-T	2(T-P)	0
P = T	T	0	0

Calculation:

$A=S_A-E_A$

$B=S_B-E_B$

$P=50{,}000\ f_1\ A\ C\ /V$

$T=50{,}000\ f_1\ (A+B)\ C\ /V$

APCL Form 5-101, Nov. 29, 1999 Ver 3.2

Using blue pen. Correcting by red pen.

File: [CUST.DOC.WET]ALK.TEX

Root-File: [CUST.DOC.WET]ALK_ROOT.TEX

1-Page-File: [CUST.DOC.WET]ALK1.TEX

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Chromium (VI) (7196) Worksheet

Batch # 03W2542 Matrix: W

[Holding Time: 24 hours!!]

Test Date: 4/24/03 Analyst: [illegible]

Lot #: Reagent Water _____ Diphenylcazide solution _____

Test Time: 16:08 SOP: G-22

Calibration	STD Lot #	$C_{std} \times V_{std}/V_f = C_i$	A_i	$RF_i = A_i/C_i$	Calibration results	Note
STD-1	W-	× / = mg/L			Least Square [RF]=	Cal. Code:
STD-2	W-	× / = mg/L			Average $\bar{RF}$=	
STD-3	W-	× / = mg/L			C.C.= 0.9997 (≥ 0.995)	
STD-4	W-	× / = mg/L			RSD= % (≤ 15%)	
STD-5	W-	× / = mg/L			Ref. page	
STD-6	W-	× / = mg/L			A = 0.000 + 0.8366	

Analysis Type	Sample ID or Lot #	Samp. Amnt X_0 (g or mL)	Dilu./Ext $X/X_0 = f_1$	Treat. Ratio $V/X = f_2$	540 nm A	Concentration $C' = A/\bar{RF}$	C (Sample) $C = f_1 f_2 C'$	Anomaly Note
CCV	Lot: W-7853	Expected Conc.:	×	/ = 0.25 mg/L	0.203	0.243 mg/L	REC. %	90-110 %
Method Blank	Bl. Lot: T115		/X_0 = 1	95.0/ =	0.000	mg/L	0.000 ppm	
LCS1	Bl. Lot:		/X_0 = 1	95.0/ =	0.223	mg/L	0.267 ppm	
Sample-1 Dup.	2866-1		/X_0 =	95.0/ =	0.001	mg/L	0.001 ppm	
MS on S-1	1		/X_0 =	95.0/ =	0.192	mg/L	0.230 ppm	
MSD on S-1	1		/X_0 =	95.0/ =	0.195	mg/L	0.233 ppm	
Sample 2 EB	2		/X_0 =	95.0/ =	0.000	mg/L	0.000 ppm	
Sample 3 1	3		/X_0 =	95.0/ =	0.002	mg/L	0.002 ppm	
Sample 4 2	4		/X_0 =	95.0/ =	0.001	mg/L	0.001 ppm	
Sample 5 3	5		/X_0 =	95.0/ =	0.002	mg/L	0.002 ppm	
Sample 6 4	6		/X_0 =	95.0/ =	0.001	mg/L	0.001 ppm	
Sample 7 5	7		/X_0 =	95.0/ =	0.001	mg/L	0.001 ppm	
Sample 8			/X_0 =	95.0/ =		mg/L	ppm	
Sample 9			/X_0 =	95.0/ =		mg/L	ppm	
Sample 10			/X_0 =	95.0/ =		mg/L	ppm	
Blank	Lot:		/X_0 =	95.0/ =		mg/L	ppm	
LCS2	Bl. Lot: T115		/X_0 = 1	95.0/ =	0.216	mg/L	0.258 ppm	
Sample 11			/X_0 =	95.0/ =		mg/L	ppm	
Sample 12			/X_0 =	95.0/ =		mg/L	ppm	
Sample 13			/X_0 =	95.0/ =		mg/L	ppm	
Sample 14			/X_0 =	95.0/ =		mg/L	ppm	
Sample 15			/X_0 =	95.0/ =		mg/L	ppm	
Sample 16			/X_0 =	95.0/ =		mg/L	ppm	
Sample 17			/X_0 =	95.0/ =		mg/L	ppm	
Sample 18			/X_0 = 4/24/03	95.0/ =		mg/L	ppm	
Sample 19			/X_0 =	95.0/ =		mg/L	ppm	
Sample 20			/X_0 =	95.0/ =		mg/L	ppm	
MTX Dup. closing 0.25 mg/L			/X_0 =	95.0/ =	0.199	0.238 mg/L	ppm	

Type	STD Lot #	$C_{STD}(\mu g/mL) \times V_{STD}(mL)/X(g \text{ or } mL) = T$	Spike Rec.	Ctl Limit (W/S)
MS	W-7759	× / = 0.25 ppm	%	80-120 %/80-120 %
MSD	W-	× / = ppm	%	.. ..
LCS	W-7853	× / = ppm	%	80-120 %/80-120 %
LCSD	W-	× / = ppm	%	.. ..

PQL/MDL (in ppm)	
PQL(w)	0.01
PQL(s)	0.05
MDL(w)	0.005
MDL(s)	0.025

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Chromium (VI) (7196) Worksheet

Batch # 03W1295 Matrix: W [Holding Time: 24 hours!!] Test Date: 1/29/03 Analyst: BN

Lot #: Reagent Water _____ Diphenylcazide solution _____ Test Time: _____ SOP: G-22

Calibration	STD Lot #	$C_{std} \times V_{std}/V_f = C_i$	A_i	$RF_i = A_i/C_i$	Calibration results	Note
STD-1	W-7191	× / =0.000mg/L	0.000		Least Square [RF]=	Cal. Code:
STD-2	W-	× / =0.012mg/L	0.006		Average $\bar{RF}$=	A=0.000+0.836C
STD-3	W-	× / =0.050mg/L	0.041		C.C.=0.9997 (≥ 0.995)	
STD-4	W-	× / =0.125mg/L	0.109		RSD= % (≤ 15%)	
STD-5	W-	× / =0.250mg/L	0.214		Ref. page	
STD-6	W-	× / =0.500mg/L	0.415		A=0.003+0.817C 1/29/03	

Analysis Type	Sample ID or Lot #	Samp. Amnt X_0 (g or mL)	Dilu./Ext $X/X_0=f_1$	Treat. Ratio $V/X=f_2$	540 nm A	Concentration $C'=A/\bar{RF}$	C (Sample) $C=f_1 f_2 C'$	Anomaly Note
CCV	Lot: W-7076	Expected Conc.:	×	/ =0.25 mg/L	0.216	0.258 mg/L	REC. %	90-110 %
Method Blank	Bl. Lot: T1115		$/X_0$ = 1	95.0/ =	0.000	mg/L	0.00 ppm	
LCS1	Bl. Lot: "		$/X_0$ = 1	95.0/ =	0.209	mg/L	0.244 ppm	
Sample-1	1369-1		$/X_0$ =	95.0/ =	0.000	mg/L	0.00 ppm	
MS on S-1	6		$/X_0$ =	95.0/ =	0.223	mg/L	0.266 ppm	
MSD on S-1	6		$/X_0$ =	95.0/ =	0.230	mg/L	0.275 ppm	
Sample 2	2		$/X_0$ =	95.0/ =	0.004	mg/L	0.005 ppm	
Sample 3	3		$/X_0$ =	95.0/ =	0.002	mg/L	0.002 ppm	
Sample 4	4		$/X_0$ =	95.0/ =	0.001	mg/L	0.001 ppm	
Sample 5	5		$/X_0$ =	95.0/ =	0.002	mg/L	0.002 ppm	
Sample 6	6		$/X_0$ = ✓	95.0/ =	0.004	mg/L	0.005 ppm	
Sample 7	-		$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 8			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 9			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 10			$/X_0$ =	95.0/ =		mg/L	ppm	
Blank	Lot:		$/X_0$ =	95.0/ =		mg/L	ppm	
LCS2	Bl. Lot: T1115		$/X_0$ = 1	95.0/ =	0.210	mg/L	0.251 ppm	
Sample 11			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 12			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 13			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 14			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 15			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 16			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 17			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 18			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 19			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 20			$/X_0$ =	95.0/ =		mg/L	ppm	
MTX Dup.	closing 0.25mg/L		$/X_0$ =	95.0/ =	0.204	mg/L	0.248 ppm	

Type	STD Lot #	$C_{STD}(\mu g/mL) \times V_{STD}(mL)/X(g \text{ or } mL) = T$	Spike Rec.	Ctl Limit (W/S)
MS	W-7076	× / =0.25 ppm	%	80-120 %/80-120 %
MSD	W-	× / = ppm	%	.. ..
LCS	W-7191	× / = ppm	%	80-120 %/80-120 %
LCSD	W-	× / = ppm	%	.. ..

PQL/MDL (in ppm)	
PQL(w)	0.01
PQL(s)	0.05
MDL(w)	0.005
MDL(s)	0.025

APCL form 5-155 May 08, 1996. Ver. 3.1 No pencil. Use blue pen for record. Use red pen for correction.
File:[CUST.DOC.WET]CR6.TEX Root-file: CR6_ROOT.TEX 1-Page-File: CR61.TEX
Control limits are subjected to change. The updated values are given in the latest version of APCL Technical Handbook Vol. 2

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
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TDS

Solid Analysis (160.1, 160.2, 160.3) Worksheet

Batch # 03W2607 Matrix W Method: 160.1 Balance No. _____ Date: 4/28/03 Analyst: DC

EPA 160.1 TDS – Total Dissolved (filterable) Solids — Dry for 1hr. or more at 180 °C

EPA 160.2 TSS – Total Suspended (nonfilterable) Soilds — Dry for 1hr. or more at 103-105 °C

EPA 160.3 TS – Total Solids — Dry for 1hr. or more at 103-105 °C

Other method (specify):

Result= $10^6 \times \Delta W \times f_1 / V$ SOP: G-81

#	Analysis Type	Sample ID (STD Lot #)	Treatment Ratio $V_f/X=f_1$	Volume V, mL	W_1 g	W_2 1st, g	W_2 2nd, g	$\Delta W = W_2 - W_1$, g	Results (ppm)	Note
1	Blank	T1116	1 =	100	111.7909	111.7908	111.7909	0.0000	0	R
2	LCS	T1116	1 =		113.8589	113.8989	113.8987	0.0396	396	6
3	Sample-1	2866-1	1 =		103.9442	103.9741	103.9740	0.0298	298	14
4	MS on S-1	2933-3	1 =		111.2769	111.3446	111.3448	0.0679	679	J
5	MSD on S-1	3	1 =		114.3071	114.3720	114.3723	0.0652	652	H
6	Sample-2	2866-2	1 =		104.3077	104.3076	104.3078	0.0001	1	3
7	Sample-3	3	1 =		115.1364	115.1614	115.1615	0.0251	251	10
8	Sample-4	4	1 =		114.3694	114.3928	114.3929	0.0235	235	A
9	Sample-5	5	1 =		115.9117	115.9449	115.9450	0.0333	333	19
10	Sample-6	6	1 =		116.9493	116.9693	116.9694	0.0201	201	W
11	Sample-7	7	1 =		115.7069	115.7416	115.7416	0.0347	347	HK
12	Sample-8	2881-1	1 =		106.3145	106.3400	106.3400	0.0255	255	8
13	Sample-9	2	1 =		107.7107	107.7357	107.7357	0.0250	250	C
14	Sample-10	3	1 =		105.3122	105.3666	105.3669	0.0544	544	12
15	LCSD	T1116	1 =		112.9002	112.9412	12.9414	0.0412	412	*
16	Sample-11	4	1 =		121.3177	121.3565	121.3565	0.0388	388	I
17	Sample-12	5	1 =		105.3575	105.3998	105.3996	0.0421	421	W1
18	Sample-13	6	1 =		99.0757	99.0946	99.0945	0.0188	188	Y2
19	Sample-14	2933-1	1 =		103.5328	103.5328	103.5328	0.0000	0	26
20	Sample-15	2	1 =		115.1082	115.1334	115.1335	0.0253	253	G
21	Sample-16	3	1 =		115.3468	115.3716	115.3718	0.0250	250	J
22	Sample-17	4	1 =		116.6479	116.6725	116.6726	0.0247	247	ZJ
23	Sample-18	5	1 =		105.8998	105.9194	105.9196	0.0198	198	19
24	Sample-19	6	1 =		115.8730	115.8948	115.8949	0.0219	219	CK
25	Sample-20	2948-1	1 =							
26	Mix Dup.		1 =							

Type	STD Lot #	$C_{STD}(\mu g/mL) \times V_{STD}(mL)/X(g \text{ or } mL) = T$	Spike Rec.	Ctl Limit (W/S)
MS	W-7618	× 1 = 1000 ppm	%	85-115 %/80-120 %
MSD	W-	× 1 = ppm	%	.. ..
LCS	W-7619	× 1 = ppm	%	90-110 %/85-115 %
LCSD	W-	× 1 = ppm	%	.. ..

PQL/MDL (in ppm)	
PQL(w)	10
PQL(s)	50
MDL(w)	4
MDL(s)	20

APCL form 5-127, March 7, 1995. Ver. 3.0 No pencil. Use blue pen for record. Use red pen for correction.

FILE: [CUST.DOC.WET]TDS .TEX ROOT-FILE: TDS.ROOT.TEX CONTROL-FILE: TDS.000 1-Page file: TDS1.TEX

Control limits are subjected to change. The updated values are given in the latest version of APCL Technical Handbook Vol. 2

Applied P & Ch Laboratory
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Balance Daily Calibration Worksheet

0683
3953

Weight Set S/N: 12006

Calib. Date	Lab Balance Balance #	1 g ±0.05g	10 g ±0.1g	200 g ±0.5g	Note (C)	Digital Balance Balance #	1 g ±0.02g	10 g ±0.05g	200 g ±0.10g	Note (D) (C) (AR)	Analytical Balance Balance #	1 g ±0.0002g	10 g ±0.0005g	200 g ±0.0010g	Note (D) (C) (AR)	Calib. by
4/25/03	A-01	not	in	use	✓	B-01	1.00	10.00	200.00	✓✓✓	C-01	1.0000	10.0001	200.0001	✓✓✓	✓
	~~A-02~~					B-05	9.99	9.99	199.99	✓✓✓	C-02	1.0000	10.0000	200.0001	✓✓✓	
	A-03	1.00	10.00	200.01	✓	B-06	1.00	10.00	200.01	✓✓✓	C-					
	A-04					B-07	1.00	19.99	199.99	✓✓✓	C-					
	A-		4/25/03			B-			4/25/03		C-		4/25/03			
	A-					B-					C-					
4/28/03	A-01	not	in	use	✓	B-01	1.00	10.00	200.00	✓✓✓	C-01	1.0000	10.0001	200.0001	✓✓✓	✓
	~~A-02~~					B-05	1.00	9.99	199.99	✓✓✓	C-02	1.0000	10.0000	200.0000	✓✓✓	
	A-03	1.00	9.99	200.00	✓	B-06	1.00	10.00	200.00	✓✓✓	C-					
	A-04					B-07	1.00	9.99	199.99	✓✓✓	C-					
	A-		4/28/03			B-			4/28/03		C-		4/28/03			
	A-					B-					C-					
4/29/03	A-01	not	in	use	✓	B-01	1.00	10.01	200.00	✓✓✓	C-01	1.0000	10.0001	200.0001	✓✓✓	✓
	~~A-02~~					B-05	1.00	9.99	199.99	✓✓✓	C-02	1.0000	10.0000	200.0000	✓✓✓	
	A-03	1.00	9.99	200.00	✓	B-06	1.00	10.00	200.00	✓✓✓	C-					
	A-04					B-07	1.00	9.99	199.99	✓✓✓	C-					
	A-		4/29/03			B-			4/29/03		C-		4/29/03			
	A-					B-					C-					
4/30/03	A-01	not	in	use	✓	B-01	1.00	10.01	200.00	✓✓✓	C-01	1.0000	10.0001	200.0001	✓✓✓	✓
	~~A-02~~					B-05	1.00	9.99	199.99	✓✓✓	C-02	1.0000	10.0000	200.0000	✓✓✓	
	A-03	1.00	9.99	200.00	✓	B-06	1.00	10.00	200.00	✓✓✓	C-					
	A-04					B-07	1.00	9.99	199.99	✓✓✓	C-					
	A-		4/30/03			B-			4/30/03		C-		4/30/03			
	A-					B-					C-					

Notation: (C) – Cleanliness; (D) – Display; (AR) – Auto Rezeroing.

APCL form 4-213, March 30, 1995. Ver. 4.0 No pencil. Use blue pen for record. Use red pen for correction.

File: [CUST.DOC.LAB]BAL_CAL.TEX Root-File: BAL_CAL_ROOT.TEX 1-Page-File: BAL_CAL1.TEX

Line	Sample	Sample Type	Level	Method	Data File	Volume	Dilution
1	Cal blank	Sample		e314-011.met	c:\data\e314-011\mb_001.dxd	1	1
2	cal standard 2ppb W7827a	Sample		e314-011.met	c:\data\e314-011\std-2pb_002.dxd	1	1
3	cal standard 4ppb W7827b	Sample		e314-011.met	c:\data\e314-011\std-4pb_003.dxd	1	1
4	cal standard 10ppb W7827c	Sample		e314-011.met	c:\data\e314-011\std-10pb_004.dxd	1	1
5	cal standard 25ppb W7827d	Sample		e314-011.met	c:\data\e314-011\std-25pb_005.dxd	1	1
6	cal standard 50ppb W7827e	Sample		e314-011.met	c:\data\e314-011\std-50pb_006.dxd	1	1
7	cal standard 75ppb W7827f	Sample		e314-011.met	c:\data\e314-011\std-75pb_007.dxd	1	1
8	cal standard 100ppb W7827g	Sample		e314-011.met	c:\data\e314-011\std-100pb_008.dxd	1	1
9	ICV 50 ppb w7828a	Sample		e314-011.met	c:\data\e314-011\icv-50pb_009.dxd	1	1
10	icb	Sample		e314-011.met	c:\data\e314-011\icb_010.dxd	1	1
11	anion 100pm each ,25pb CLO4	Sample		e314-011.met	c:\data\e314-011\mct-100_011.dxd	1	1
12	anion 200pm each ,25pb CLO4	Sample		e314-011.met	c:\data\e314-011\mct-200_012.dxd	1	1
13	anion 300pm each ,25pb CLO4	Sample		e314-011.met	c:\data\e314-011\mct-300_013.dxd	1	1
14	anion 400pm each ,25pb CLO4	Sample		e314-011.met	c:\data\e314-011\mct-400_014.dxd	1	1
15	anion 500pm each ,25pb CLO4	Sample		e314-011.met	c:\data\e314-011\mct-500_015.dxd	1	1
16	anion 600pm each ,25pb CLO4	Sample		e314-011.met	c:\data\e314-011\mct-600_016.dxd	1	1
17	anion 800pm each ,25pb CLO4	Sample		e314-011.met	c:\data\e314-011\mct-800_017.dxd	1	1
18	anion 1000pm each ,25pb CLO4	Sample		e314-011.met	c:\data\e314-011\mct-1000_018.dxd	1	1
19	anion 400pm each 2pb	Sample		e314-011.met	c:\data\e314-011\ipc-2pb_019.dxd	1	1
20	anion 400pm each 4pb	Sample		e314-011.met	c:\data\e314-011\ipc-4pb_020.dxd	1	1
21	anion 400pm each 25pb	Sample		e314-011.met	c:\data\e314-011\ipc-25pb_021.dxd	1	1
22	ICV 50 ppb	Sample		e314-011.met	c:\data\e314-011\ccv-50pb	1	1
23	MDL 4pb	Sample		e314-011.met	c:\data\e314-011\mdl-02_023.dxd	1	1
24	MDL 4pb	Sample		e314-011.met	c:\data\e314-011\mdl-03_024.dxd	1	1
25	MDL 4pb	Sample		e314-011.met	c:\data\e314-011\mdl-04	1	1
26	MDL 4pb	Sample		e314-011.met	c:\data\e314-011\mdl-05	1	1
27	MDL 4pb	Sample		e314-011.met	c:\data\e314-011\mdl-06	1	1
28	MDL 4pb	Sample		e314-011.met	c:\data\e314-011\mdl-07	1	1
29	MDL 4pb	Sample		e314-011.met	c:\data\e314-011\mdl-08	1	1
30	IDP and IDA 25pb	Sample		e314-011.met	c:\data\e314-011\idap-25pb	1	1
31	IDP and IDA 25pb	Sample		e314-011.met	c:\data\e314-011\idap-25pb	1	1
32	IDP and IDA 25pb	Sample		e314-011.met	c:\data\e314-011\idap-25pb	1	1
33	IDP and IDA 25pb	Sample		e314-011.met	c:\data\e314-011\idap-25pb	1	1
34	IDP and IDA 25pb	Sample		e314-011.met	c:\data\e314-011\idap-25pb	1	1
35	IDP and IDA 25pb	Sample		e314-011.met	c:\data\e314-011\idap-25pb	1	1
36	IDP and IDA 25pb	Sample		e314-011.met	c:\data\e314-011\idap-25pb	1	1
37	MCT anion 800pm each, 25pbCLO4	Sample		e314-011.met	c:\data\e314-011\ipc-25pb	1	1
38	MCT anion 800pm each, 25pbCLO4	Sample		e314-011.met	c:\data\e314-011\ipc-25pb	1	1
39	MCT anion 800pm each, 4pbCLO4	Sample		e314-011.met	c:\data\e314-011\ipc-4pb	1	1
40	MCT anion 800pm each, 4pbCLO4	Sample		e314-011.met	c:\data\e314-011\ipc-4pb	1	1
41	MDL 20pb soil	Sample		e314-011.met	c:\data\e314-011\mdl-s01	1	5
42	MDL 20pb soil	Sample		e314-011.met	c:\data\e314-011\mdl-s02	1	5
43	MDL 20pb soil	Sample		e314-011.met	c:\data\e314-011\mdl-s03	1	5
44	MDL 20pb soil	Sample		e314-011.met	c:\data\e314-011\mdl-s04	1	5
45	MDL 20pb soil	Sample		e314-011.met	c:\data\e314-011\mdl-s05	1	5
46	MDL 20pb soil	Sample		e314-011.met	c:\data\e314-011\mdl-s06	1	5
47	MDL 20pb soil	Sample		e314-011.met	c:\data\e314-011\mdl-s07	1	5
48	standard 25ppb W7827d	Sample		e314-011.met	c:\data\e314-011\std-25pb	1	1
49	anion 100pm each,4pb CLO4	Sample		e314-011.met	c:\data\e314-011\am-100-4pb	1	1
50	anion 200pm each ,4pb CLO4	Sample		e314-011.met	c:\data\e314-011\am-200-4pb	1	1
51	anion 300pm each ,4pb CLO4	Sample		e314-011.met	c:\data\e314-011\am-300-4pb	1	1
52	anion 100pm each,2pb CLO4	Sample		e314-011.met	c:\data\e314-011\am-100-2pb	1	1
53	anion 200pm each,2pb CLO4	Sample		e314-011.met	c:\data\e314-011\am-200-2pb	1	1
54	anion 300pm each,2pb CLO4	Sample		e314-011.met	c:\data\e314-011\am-300-2pb	1	1
55	1982-01 B S.C 4450us/cm	Sample		e314-011.met	c:\data\e314-011\1982-01	1	1
56	1982-01 B S.C 4450us/cm	Sample		e314-011.met	c:\data\e314-011\1982-01	1	2
57	1982-02 f=10	Sample		e314-011.met	c:\data\e314-011\1982-02_057.dxd	1	10
58		Sample		aastopcl.met		1	1

:chedule File: C:\PeakNet\schedule\03w2531k.sch

ine	Sample	Sample Type	Level	Method	Data File	Volume	Dilution	Weight
l	##03w2531kw ipc 25ppb w7759	Sample		e314-011.met	w2531k ipc 25ppb	1	1	1
2	ccv 50ppb w7827e	Sample		e314-011.met	w2531k q01	1	1	1
3	ccb	Sample		e314-011.met	w2531k ccb01	1	1	1
l	lcs 25ppb w7827d	Sample		e314-011.met	w2531k l01	1	1	1
5	LCS 18PPB W7685D	Sample		e314-011.met	w2531k j01_005.dxd	1	1	1
5	ICCS 4ppb w7827b	Sample		e314-011.met	w2531k iccs 4ppb_006.dxd	1	1	1
7	mb	Sample		e314-011.met	w2531k k01_007.dxd	1	1	1
3	2842-07 F=1	Sample		e314-011.met	2842-07_008.dxd	1	1	1
9	2842-09 F=2	Sample		e314-011.met	2842-09_009.dxd	1	2	1
0	2842-08 F=1	Sample		e314-011.met	2842-08_010.dxd	1	1	1
1	2842-10 F=1	Sample		e314-011.met	2842-10_011.dxd	1	1	1
2	2842-08 ms 50ppb f=1	Sample		e314-011.met	w2531k m01_012.dxd	1	1	1
3	ccv 50ppb w7827e	Sample		e314-011.met	w2531k q02_013.dxd	1	1	1
4	ccb	Sample		e314-011.met	w2531k k02_014.dxd	1	1	1
5	2842-08 msd 50ppb f=1	Sample		e314-011.met	w2531k n01_015.dxd	1	1	1
6	2843-01 F=1	Sample		e314-011.met	2843-01_016.dxd	1	1	1
7	2843-02 F=1	Sample		e314-011.met	2843-02_017.dxd	1	1	1
8	2843-03 F=1	Sample		e314-011.met	2843-03_018.dxd	1	1	1
9	2843-04 F=1	Sample		e314-011.met	2843-04_019.dxd	1	1	1
0	2843-05 F=1	Sample		e314-011.met	2843-05_020.dxd	1	1	1
1	2843-06 F=1	Sample		e314-011.met	2843-06_021.dxd	1	1	1
2	2843-07 F=1	Sample		e314-011.met	2843-07_022.dxd	1	1	1
3	2829-01 F=1	Sample		e314-011.met	2829-01_023.dxd	1	1	1
4	ccv 50ppb w7827e	Sample		e314-011.met	w2531k q03_024.dxd	1	1	1
5	CCB	Sample		e314-011.met	w2531k k03_025.dxd	1	1	1
6	2829-02 F=1	Sample		e314-011.met	2829-02_026.dxd	1	1	1
7	2829-03 F=1	Sample		e314-011.met	2829-03_027.dxd	1	1	1
8	2829-04 F=1	Sample		e314-011.met	2829-04_028.dxd	1	1	1
9	2829-05 F=1	Sample		e314-011.met	2829-05_029.dxd	1	1	1
0	2866-01 f=1	Sample		e314-011.met	2866-01_030.dxd	1	1	1
1	2866-02 f=1	Sample		e314-011.met	2866-02_031.dxd	1	1	1
2	2866-03 f=1	Sample		e314-011.met	2866-03_032.dxd	1	1	1
3	2866-04 f=1	Sample		e314-011.met	2866-04_033.dxd	1	1	1
4	ccv 50ppb w7827e	Sample		e314-011.met	w2531k q04_034.dxd	1	1	1
5		Sample		aastopcl.met		1	1	1

Analyst Wei Wang

Date 4/24/03

Instrument IC-K

3955

e	Sample	Sample Type	Level	Method	Data File	Volume	Dilution
	##03w2612kw ipc 25ppb w7759	Sample		e314-011.met	c:\data\03w2612k\w2612k ipc 25ppb	1	1
	ccv 50ppb w7827e	Sample		e314-011.met	c:\data\03w2612k\w2612k q01	1	1
	ccb	Sample		e314-011.met	c:\data\03w2612k\w2612k ccb01	1	1
	lcs 25ppb w7827d	Sample		e314-011.met	c:\data\03w2612k\w2612k l01	1	1
	LCS 18PPB W7685D	Sample		e314-011.met	c:\data\03w2612k\w2612k j01	1	1
	ICCS 4ppb w7827b	Sample		e314-011.met	c:\data\03w2612k\w2612k iccs 4ppb	1	1
	mb	Sample		e314-011.met	c:\data\03w2612k\w2612k k01	1	1
	2866-05 F=1	Sample		e314-011.met	c:\data\03w2612k\2866-05	1	1
	2866-06 f=1	Sample		e314-011.met	c:\data\03w2612k\2866-06	1	1
	2866-07 F=1	Sample		e314-011.met	c:\data\03w2612k\2866-07	1	1
	2933-03 F=1	Sample		e314-011.met	c:\data\03w2612k\2933-03	1	1
	2933-01 f=1	Sample		e314-011.met	c:\data\03w2612k\2933-01	1	1
	ccv 50ppb w7827e	Sample		e314-011.met	c:\data\03w2612k\w2612k q02	1	1
	ccb	Sample		e314-011.met	c:\data\03w2612k\w2612k k02	1	1
	2933-02 f=1	Sample		e314-011.met	c:\data\03w2612k\2933-02	1	1
	2933-03 ms 50ppb f=1	Sample		e314-011.met	c:\data\03w2612k\w2612k m01	1	1
	2933-03 msd 50ppb f=1	Sample		e314-011.met	c:\data\03w2612k\w2612k n01	1	1
	2933-04 F=1	Sample		e314-011.met	c:\data\03w2612k\2933-04	1	1
	2933-05 F=1	Sample		e314-011.met	c:\data\03w2612k\2933-05	1	1
	2933-06 F=1	Sample		e314-011.met	c:\data\03w2612k\2933-06	1	1
	2881-01 F=1	Sample		e314-011.met	c:\data\03w2612k\2881-01	1	1
	2881-02 F=1	Sample		e314-011.met	c:\data\03w2612k\2881-02	1	1
	2881-03 F=1	Sample		e314-011.met	c:\data\03w2612k\2881-03	1	1
	ccv 50ppb w7827e	Sample		e314-011.met	c:\data\03w2612k\w2612k q03	1	1
	CCB	Sample		e314-011.met	c:\data\03w2612k\w2612k k03	1	1
	2881-04 F=1	Sample		e314-011.met	c:\data\03w2612k\2881-04	1	1
	2881-05 F=1	Sample		e314-011.met	c:\data\03w2612k\2881-05	1	1
	2881-06 F=1	Sample		e314-011.met	c:\data\03w2612k\2881-06	1	1
	2866-06 md f=2	Sample		e314-011.met	c:\data\03w2612k\w2612k d01	1	2
	2933-04 f=2	Sample		e314-011.met	c:\data\03w2612k\2933-04a	1	2
	ccv 50ppb w7827e	Sample		e314-011.met	c:\data\03w2612k\w2612k q04	1	1
	ccb	Sample		e314-011.met	c:\data\03w2612k\w2612k k04	1	1
	2964-01 f=1	Sample		e314-011.met	c:\data\03w2612k\2964-01	1	1
	2964-02 f=1	Sample		e314-011.met	c:\data\03w2612k\2964-02	1	1
	2964-03 f=1	Sample		e314-011.met	c:\data\03w2612k\2964-03	1	1
	2964-04 f=1	Sample		e314-011.met	c:\data\03w2612k\2964-04	1	1
	2964-05 f=1	Sample		e314-011.met	c:\data\03w2612k\2964-05	1	1
	ccv 50ppb w7827e	Sample		e314-011.met	c:\data\03w2612k\w2612k q05	1	1
	ccv 50ppb w7827e	Sample		e314-011.met	c:\data\03w2612k\w2612k q06	1	1
	ccb	Sample		e314-011.met	c:\data\03w2612k\w2612k k05	1	1
	2964-01 f=4	Sample		e314-011.met	c:\data\03w2612k\2964-01	1	4
	2964-04 f=4	Sample		e314-011.met	c:\data\03w2612k\2964-04	1	4
	2964-03 f=20	Sample		e314-011.met	c:\data\03w2612k\2964-03	1	20
	ccv 50ppb w7827e	Sample		e314-011.met	c:\data\03w2612k\w2612k q07	1	1
		Sample		aastopcl.met		1	1

Analyst Wei Wang

Date 4/29-30/03

Instrument IC-K

3956

DIONEX SCHEDULE - C:\DX\SCHEDULE\E300-063.SCH

Inj#	Sample Name	Method	Data File	Vol.	Dil.	Int.Std.
1	autocal1r	..\E300-063	..\W7767Q01.D01	1	1	1
2	autocal2r	..\E300-063	..\W7767Q01.D02	1	1	1
3	autocal3r	..\E300-063	..\W7767Q01.D03	1	1	1
4	autocal4r	..\E300-063	..\W7767Q01.D04	1	1	1
5	autocal5r	..\E300-063	..\W7767Q01.D05	1	1	1
6	autocal6r	..\E300-063	..\W7767Q01.D06	1	1	1
7	icv-w7768-100X	..\E300-063	..\W7768Q01.D07	1	1	1
8	icb	..\E300-063	..\W7767Q01.D08	1	1	1

Comment:

Analyst DL

Date 3/21/03

Instrument J

DIONEX SCHEDULE - C:\DX\SCHEDULE\03W2550.SCH

Inj#	Sample Name	Method	Data File	Vol.	Dil.	Int.Std.
1	##03W2550, W CCVW77	..\E300-063	..\W2550Q01.D01	1	1	1
2	MB RW1408	..\E300-063	..\W2550K01.D02	1	1	1
3	LCS W7768-100X	..\E300-063	..\W2550L01.D03	1	1	1
4	LCSD W7768-100X	..\E300-063	..\W2550J01.D04	1	1	1
5	2866-1 F=2.5	..\E300-063	..\2866-101.D05	1	2.5	1
6	2866-3 F=2.5	..\E300-063	..\2866-301.D06	1	2.5	1
7	2866-4 F=1.25	..\E300-063	..\2866-401.D07	1	1.25	1
8	2866-5 F=5	..\E300-063	..\2866-501.D08	1	5	1
9	2866-6 F=2	..\E300-063	..\2866-601.D09	1	2	1
10	2866-7 F=2	..\E300-063	..\2866-701.D10	1	2	1
11	2866-2 F=1.25	..\E300-063	..\2866-201.D11	1	1.25	1
12	CCV2W7767-100X	..\E300-063	..\W2550Q01.D12	1	1	1
13	MB RW1408	..\E300-063	..\W2550K11.D13	1	1	1
14	$2866-5 MS F=10	..\E300-063	..\W2550M01.D14	1	10	1
15	$2866-5 MSD F=10	..\E300-063	..\W2550N01.D15	1	10	1
16	2867-2 F=8	..\E300-063	..\2867-201.D16	1	8	1
17	2867-3 F=80	..\E300-063	..\2867-301.D17	1	80	1
18	2867-4 F=80	..\E300-063	..\2867-401.D18	1	80	1
19	2867-5 F=50	..\E300-063	..\2867-501.D19	1	50	1
20	2867-1 F=1.25	..\E300-063	..\2867-101.D20	1	1.25	1
21	CCV3W7767-100X	..\E300-063	..\W2550Q01.D21	1	1	1
22		..\STOP.MET		1	1	1

Comment:
LCS/LCSD LOT # W7768
MS/MSD LOT # W7767
ELUENT LOT # W7868
ANALYTICAL METHOD 9056/E300 MATRIX W

Analyst TN
Date 4/24/03
Instrument I