

Level C Data Package Deliverables

Wet Chemistry



Applied P & Ch Laboratory

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: 34509 Collected by:

Component Name: Perchlorate
 CAS No:

| Lab ID | Sample ID | Matrix | Coll. Date | Rcv Date | Anal. Date | Batch | Unit | RL | Result | Q |
|---------------|---------------|--------|------------|----------|------------|---------|------|----|--------|---|
| 03-4509-1 | DUPE-4-3-Q03 | Water | 08/06/03 | 08/06/03 | 08/06/03 | 03W3974 | µg/L | 4 | 2.3 | J |
| 03-4509-2 | ER-5-8-6-03 | Water | 08/06/03 | 08/06/03 | 08/06/03 | 03W3974 | µg/L | 4 | <4 | U |
| 03-4509-3 | MW-23-1 | Water | 08/06/03 | 08/06/03 | 08/06/03 | 03W3974 | µg/L | 4 | 2.4 | J |
| 03-4509-4 | MW-23-2 | Water | 08/06/03 | 08/06/03 | 08/06/03 | 03W3974 | µg/L | 4 | 4.7 | |
| 03-4509-5 | MW-23-3 | Water | 08/06/03 | 08/06/03 | 08/06/03 | 03W3974 | µg/L | 4 | 2.0 | J |
| 03-4509-7 | MW-14-1 | Water | 08/06/03 | 08/06/03 | 08/06/03 | 03W3974 | µg/L | 4 | 3.8 | J |
| 03-4509-8 | MW-14-2 | Water | 08/06/03 | 08/06/03 | 08/06/03 | 03W3974 | µg/L | 4 | 5.4 | |
| 03-4509-9 | MW-14-3 | Water | 08/06/03 | 08/06/03 | 08/06/03 | 03W3974 | µg/L | 4 | 3.0 | J |
| 03W3974-MB-01 | 03W3974-MB-01 | Water | 08/06/03 | 08/06/03 | 08/06/03 | 03W3974 | 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.

Applied P & Ch Laboratory
Wet Analysis Results for Method 7196

Client Name: GEOFON, Inc.
 Project ID: JPL

Project No: 04-4428.10
 Service ID: 34509

Anal. Method 7196
 Collected by:

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 |
|---------------|---------------|--------|------------|----------|------------|---------|------|------|--------|---|
| 03-4509-1 | DUPE-4-3-Q03 | Water | 08/06/03 | 08/06/03 | 08/06/03 | 03W3982 | mg/L | 0.01 | <0.01 | U |
| 03-4509-2 | ER-5-8-6-03 | Water | 08/06/03 | 08/06/03 | 08/06/03 | 03W3982 | mg/L | 0.01 | <0.01 | U |
| 03-4509-3 | MW-23-1 | Water | 08/06/03 | 08/06/03 | 08/06/03 | 03W3982 | mg/L | 0.01 | <0.01 | U |
| 03-4509-4 | MW-23-2 | Water | 08/06/03 | 08/06/03 | 08/06/03 | 03W3982 | mg/L | 0.01 | <0.01 | U |
| 03-4509-5 | MW-23-3 | Water | 08/06/03 | 08/06/03 | 08/06/03 | 03W3982 | mg/L | 0.01 | <0.01 | U |
| 03-4509-6 | MW-23-4 | Water | 08/06/03 | 08/06/03 | 08/06/03 | 03W3982 | mg/L | 0.01 | <0.01 | U |
| 03-4509-7 | MW-14-1 | Water | 08/06/03 | 08/06/03 | 08/06/03 | 03W3982 | mg/L | 0.01 | <0.01 | U |
| 03-4509-8 | MW-14-2 | Water | 08/06/03 | 08/06/03 | 08/06/03 | 03W3982 | mg/L | 0.01 | <0.01 | U |
| 03-4509-9 | MW-14-3 | Water | 08/06/03 | 08/06/03 | 08/06/03 | 03W3982 | mg/L | 0.01 | <0.01 | U |
| 03-4509-10 | MW-14-4 | Water | 08/06/03 | 08/06/03 | 08/06/03 | 03W3982 | mg/L | 0.01 | <0.01 | U |
| 03W3982-MB-01 | 03W3982-MB-01 | Water | 08/06/03 | 08/06/03 | 08/06/03 | 03W3982 | 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.

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: 34509 |
| Project ID: JPL | Project No: 04-4428.10 | Sample Matrix: Water |
| | Batch No: 03W3974 | |
| LCS Filename: - | Date Analyzed: 080603 | Time Analyzed: |
| LCSD Filename: - | Date Analyzed: - | Time Analyzed: - |

| Spiked Components | Unit | Spike Added | Concentration | | LCS Rec% # | QC Limit, % REC |
|---------------------|------|-------------|---------------|------|------------|-----------------|
| | | | Unspiked | LCS | | |
| PERCHLORATE | µg/L | 25 | 0 | 25.0 | 100 | 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: 34509 |
| Project ID: JPL | Project No: 04-4428.10 | Sample Matrix: Water |
| | Batch No: 03W3974 | |
| MS Filename: - | Date Analyzed: 080603 | Time Analyzed: |
| MSD Filename: - | Date Analyzed: 080603 | Time Analyzed: |
| MS Sample No: MW-14-2 | Sample Lab ID: 03-4509-8 | |

| Spiked Components | Unit | Spike Added | Concentration | | MS Rec% # | QC Limit, % REC |
|---------------------|------|-------------|---------------|------|-----------|-----------------|
| | | | Unspiked | MS | | |
| PERCHLORATE | µg/L | 50.0 | 5.4 | 60.1 | 109 | 75-125 |
| # of Out-of-control | | | | | 0 | |

| Spiked Components | Unit | Spike Added | MSD Concentration | MSD Rec% # | RPD% # | QC Limit, % | |
|---------------------|------|-------------|-------------------|------------|--------|-------------|--------|
| | | | | | | RPD | REC |
| PERCHLORATE | µg/L | 50.0 | 58.3 | 106 | 3 | 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: _____

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: 34509 |
| Project ID: JPL | Project No: 04-4428.10 | Sample Matrix: Water |
| | Batch No: 03W3982 | |
| LCS Filename: - | Date Analyzed: 080603 | Time Analyzed: 17:02 |
| LCSD Filename: - | Date Analyzed: 080603 | Time Analyzed: 17:02 |

| Spiked Components | Unit | Spike Added | Concentration | | LCS Rec% # | QC Limit, % REC |
|---------------------|------|-------------|---------------|-------|------------|-----------------|
| | | | Unspiked | LCS | | |
| CHROMIUM (VI) | mg/L | 0.25 | 0 | 0.247 | 99 | 80-115 |
| # of Out-of-control | | | | | 0 | |

| Spiked Components | Unit | Spike Added | LCSD Concentration | LCSD Rec% # | RPD% # | QC Limit, % | |
|---------------------|------|-------------|--------------------|-------------|--------|-------------|--------|
| | | | | | | RPD | REC |
| CHROMIUM (VI) | mg/L | 0.25 | 0.257 | 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: 34509 |
| Project ID: JPL | Project No: 04-4428.10 | Sample Matrix: Water |
| | Batch No: 03W3982 | |
| MS Filename: - | Date Analyzed: 080603 | Time Analyzed: 17:02 |
| MSD Filename: - | Date Analyzed: 080603 | Time Analyzed: 17:02 |
| MS Sample No: MW-14-2 | Sample Lab ID: 03-4509-8 | |

| Spiked Components | Unit | Spike Added | Concentration | | MS Rec% # | QC Limit, % REC |
|---------------------|------|-------------|---------------|-------|-----------|-----------------|
| | | | Unspiked | MS | | |
| CHROMIUM (VI) | mg/L | 0.25 | 0 | 0.217 | 87 | 78-115 |
| # of Out-of-control | | | | | 0 | |

| Spiked Components | Unit | Spike Added | MSD Concentration | MSD Rec% # | RPD% # | QC Limit, % | |
|---------------------|------|-------------|-------------------|------------|--------|-------------|--------|
| | | | | | | RPD | REC |
| CHROMIUM (VI) | mg/L | 0.25 | 0.220 | 88 | 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: _____

6A

INITIAL CALIBRATION DATA

Lab Name: Applied P & Ch Lab Contract: 34509

Analysis: Chromium (VI) Calibration Date: 07/28/2003

| | | | | | | |
|----------------------|-------|--------|-------|-------|-------|-------|
| Concentration (mg/L) | 0.000 | 0.0125 | 0.050 | 0.125 | 0.250 | 0.50 |
| Absorbance | 0.000 | 0.007 | 0.017 | 0.107 | 0.212 | 0.420 |

A=-0.001+ 0.846C

A=Absorbance

C=Concentration (mg/L)

r= 0.9999

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:

34509

Project ID: JPL

Project No.: 04-4428.10

| # | Component Name | Method | Batch No. | Unit | Expected | Test Result | Rec. % | Dev. % | Flag | Control Limit, % | Test Date |
|---|----------------|--------|-----------|------|----------|-------------|--------|--------|------|------------------|------------|
| 1 | Perchlorate | 314.0 | 03W3974 | µg/L | 50.0 | 53.1 | 106 | 6 | √ | 85-115 | 08/06/2003 |
| | Perchlorate | 314.0 | 03W3974 | µg/L | 50.0 | 54.2 | 108 | 8 | √ | 85-115 | 08/06/2003 |
| | Perchlorate | 314.0 | 03W3974 | µg/L | 50.0 | 54.0 | 108 | 8 | √ | 85-115 | 08/06/2003 |
| | Perchlorate | 314.0 | 03W3974 | µg/L | 50.0 | 53.1 | 106 | 6 | √ | 85-115 | 08/06/2003 |
| 2 | Chromium (VI) | 7196 | 03W3982 | mg/L | 0.25 | 0.253 | 101 | 1 | √ | 90-110 | 08/06/2003 |
| | Chromium (VI) | 7196 | 03W3982 | mg/L | 0.25 | 0.260 | 104 | 4 | √ | 90-110 | 08/06/2003 |

Applied P & Ch Laboratory

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Chromium (VI) (7196) Worksheet

Batch # 2W 3782 Matrix: W

[Holding Time: 24 hours!!]

Test Date: 8/6/03

Analyst: [Signature]

Lot #: Reagent Water

Diphenylcazide solution

Test Time: 17:02

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- | x / = mg/L | | | Least Square [RF]= | Cal. Code: |
| STD-2 | W- | x / = mg/L | | | Average RF= | |
| STD-3 | W- | x / = mg/L | | | C.C. = <u>0.999</u> (≥ 0.995) | |
| STD-4 | W- | x / = mg/L | | | RSD = % ($\leq 15\%$) | |
| STD-5 | W- | x / = mg/L | | | Ref. page | |
| STD-6 | W- | x / = mg/L | | | <u>A = 0.001 + 0.0846C</u> | |

| 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 $C' = A / RF$ | C (Sample) $C = f_1 f_2 C'$ | Anomaly Note |
|---------------|--------------------------|----------------------------|-------------------------|--------------------------|--------------|-----------------------------|-----------------------------|--------------|
| CCV | Lot: W- <u>7257</u> | Expected Conc.: x | / | = <u>0.25</u> mg/L | <u>0.213</u> | <u>0.252</u> mg/L | REC. % | 90-110 % |
| Method Blank | Bl. Lot: <u>T1117</u> | | $1/X_0 =$ | 95.0/ = | <u>0.000</u> | mg/L | <u>0.000</u> | <u>0.001</u> |
| LCS1 | Bl. Lot: <u>1</u> | | $1/X_0 =$ | 95.0/ = | <u>0.208</u> | mg/L | <u>0.247</u> | ppm |
| Sample-1 | <u>4509-1</u> | | $1/X_0 =$ | 95.0/ = | <u>0.000</u> | mg/L | <u>0.001</u> | ppm |
| MS on S-124-2 | <u>8</u> | | $1/X_0 =$ | 95.0/ = | <u>0.183</u> | mg/L | <u>0.217</u> | ppm |
| MSD on S-1 | <u>8</u> | | $1/X_0 =$ | 95.0/ = | <u>0.185</u> | mg/L | <u>0.220</u> | ppm |
| Sample 2 | <u>2</u> | | $1/X_0 =$ | 95.0/ = | <u>0.000</u> | mg/L | <u>0.001</u> | ppm |
| Sample 3 | <u>3</u> | | $1/X_0 =$ | 95.0/ = | <u>0.000</u> | mg/L | | ppm |
| Sample 4 | <u>4</u> | | $1/X_0 =$ | 95.0/ = | <u>0.000</u> | mg/L | | ppm |
| Sample 5 | <u>5</u> | | $1/X_0 =$ | 95.0/ = | <u>0.000</u> | mg/L | | ppm |
| Sample 6 | <u>6</u> | | $1/X_0 =$ | 95.0/ = | <u>0.000</u> | mg/L | | ppm |
| Sample 7 | <u>7</u> | | $1/X_0 =$ | 95.0/ = | <u>0.000</u> | mg/L | | ppm |
| Sample 8 | <u>8</u> | | $1/X_0 =$ | 95.0/ = | <u>0.000</u> | mg/L | | ppm |
| Sample 9 | <u>9</u> | | $1/X_0 =$ | 95.0/ = | <u>0.000</u> | mg/L | | ppm |
| Sample 10 | <u>10</u> | | $1/X_0 =$ | 95.0/ = | <u>0.000</u> | mg/L | | ppm |
| Blank | Lot: <u>T1117</u> | | $1/X_0 =$ | 95.0/ = | <u>0.000</u> | mg/L | | ppm |
| LCS2 | Bl. Lot: <u>1</u> | | $1/X_0 =$ | 95.0/ = | <u>0.216</u> | mg/L | <u>0.257</u> | ppm |
| Sample 11 | | | $1/X_0 =$ | 95.0/ = | | mg/L | | ppm |
| Sample 12 | | | $1/X_0 =$ | 95.0/ = | | mg/L | | ppm |
| Sample 13 | | | $1/X_0 =$ | 95.0/ = | | mg/L | | ppm |
| Sample 14 | | | $1/X_0 =$ | 95.0/ = | | mg/L | | ppm |
| Sample 15 | | | $1/X_0 =$ | 95.0/ = | | mg/L | | ppm |
| Sample 16 | | | $1/X_0 =$ | 95.0/ = | | mg/L | | ppm |
| Sample 17 | | | $1/X_0 =$ | 95.0/ = | | mg/L | | ppm |
| Sample 18 | | | $1/X_0 =$ | 95.0/ = | | mg/L | | ppm |
| Sample 19 | | | $1/X_0 =$ | 95.0/ = | | mg/L | | ppm |
| Sample 20 | | | $1/X_0 =$ | 95.0/ = | | mg/L | | ppm |
| MTX Dup. | <u>cloning 0.25 mg/L</u> | | $1/X_0 =$ | 95.0/ = | <u>0.219</u> | <u>0.260</u> mg/L | | ppm |

| Type | STD Lot # | $C_{STD} (\mu\text{g/mL}) \times V_{STD} (\text{mL}) / X (\text{g or mL}) = T$ | Spike Rec. | Ctl Limit (W/S) | PQL/MDL (in ppm) |
|------|----------------|--|------------|-------------------|------------------|
| MS | W- <u>7257</u> | x / = <u>0.25</u> ppm | % | 80-120 %/80-120 % | PQL(w) 0.01 |
| MSD | W- " | x / = ppm | % | | PQL(s) 0.05 |
| LCS | W- <u>7853</u> | x / = ppm | % | 80-120 %/80-120 % | MDL(w) 0.005 |
| LCSd | W- " | x / = ppm | % | | MDL(s) 0.025 |

Applied P & Ch Laboratory

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Chromium (VI) (7196) Worksheet

Batch # PZ Matrix: WAGS [Holding Time: 24 hours!!]

Test Date: 7/28/03 Analyst: PC

Lot #: Reagent Water Al 712805
Diphenylpicazide solution

Test Time: _____ SOP: G

| 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- 7757 | x / = 0.00 mg/L | 0.000 | | Least Square [RF]= | Cal. Code: |
| STD-2 | W- | x / = 0.005 mg/L | 0.007 | | Average RF= | |
| STD-3 | W- | x / 0.07 = 0.00 mg/L | 0.017 | | C.C. <u>0.999</u> (≥ 0.995) | |
| STD-4 | W- | x / = 0.125 mg/L | 0.107 | | RSD= % ($\leq 15\%$) | |
| STD-5 | W- | x / = 0.260 mg/L | 0.212 | | Ref. page | |
| STD-6 | W- | x / = 0.50 mg/L | 0.420 | | $A = -0.001 + 0.846C$ | |

| 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 $C' = A / RF$ | C (Sample) $C = f_1 f_2 C'$ | Anom: Note |
|---------------|--------------------|-------------------------------------|-------------------------|--------------------------|----------|-----------------------------|-----------------------------|------------|
| CCV | Lot: W- 7853 | Expected Conc.: x | 1 | = 0.25 mg/L | 0.218 | 0.259 mg/L | REC. % | 90-110 |
| Method Blank | Bl. Lot: | | $1/X_0 =$ | 95.0/ = | 0.000 | 0.000 mg/L | ppm | |
| LCS1 | Bl. Lot: | | $1/X_0 =$ | 95.0/ = | 0.210 | 0.250 mg/L | ppm | |
| Sample-1 | 4177-37 | 1ml \rightarrow 100ml $X_0 = 1$ | $1/X_0 =$ | 95.0/ = 2 | 0.290 | 0.609 mg/L | ppm | |
| MS on S-1 | 37 | 0.5ml \rightarrow 100ml $X_0 =$ | $1/X_0 =$ | 95.0/ = 2 | 0.287 | 0.682 mg/L | ppm | report |
| MSD on S-1 | 4175-15 | 10.0g \rightarrow 500ml $X_0 = 5$ | $1/X_0 =$ | 95.0/ = 10 | 0.050 | 3.04 mg/L | ppm | |
| Sample 2 | 15 | y | $1/X_0 =$ | 95.0/ = 2 | 0.247 | 2.94 mg/L | ppm | report |
| Sample 3 | | | $1/X_0 =$ | 95.0/ = | | mg/L | ppm | |
| Sample 4 | | | $1/X_0 =$ | 95.0/ = | | mg/L | ppm | |
| Sample 5 | | | $1/X_0 =$ | 95.0/ = | | mg/L | ppm | |
| Sample 6 | | | $1/X_0 =$ | 95.0/ = | | mg/L | ppm | |
| Sample 7 | | | $1/X_0 =$ | 95.0/ = | | mg/L | ppm | |
| Sample 8 | | | $1/X_0 =$ | 95.0/ = | | mg/L | ppm | |
| Sample 9 | | | $1/X_0 =$ | 95.0/ = | | mg/L | ppm | |
| Sample 10 | | | $1/X_0 =$ | 95.0/ = | | mg/L | ppm | |
| Blank | Lot: | | $1/X_0 =$ | 95.0/ = | | mg/L | ppm | |
| LCS2 | Bl. Lot: | | $1/X_0 =$ | 95.0/ = | | mg/L | ppm | |
| Sample 11 | | | $1/X_0 =$ | 95.0/ = | | mg/L | ppm | |
| Sample 12 | | | $1/X_0 =$ | 95.0/ = | | mg/L | ppm | |
| Sample 13 | | | $1/X_0 =$ | 95.0/ = | | mg/L | ppm | |
| Sample 14 | | | $1/X_0 =$ | 95.0/ = | | mg/L | ppm | |
| Sample 15 | | | $1/X_0 =$ | 95.0/ = | | mg/L | ppm | |
| Sample 16 | | | $1/X_0 =$ | 95.0/ = | | mg/L | ppm | |
| Sample 17 | | | $1/X_0 =$ | 95.0/ = | | mg/L | ppm | |
| Sample 18 | | | $1/X_0 =$ | 95.0/ = | | mg/L | ppm | |
| Sample 19 | | | $1/X_0 =$ | 95.0/ = | | mg/L | ppm | |
| Sample 20 | | | $1/X_0 =$ | 95.0/ = | | mg/L | ppm | |
| MTX Dup. | | | $1/X_0 =$ | 95.0/ = | 0.248 | 0.259 mg/L | ppm | |

| Type | STD Lot # | $C_{STD} (\mu\text{g/mL}) \times V_{STD} (\text{mL}) / X (\text{g or mL}) = T$ | Spike Rec. | Ctl Limit (W/S) | PQL/MDL (in ppm) |
|------|-----------|--|------------|-------------------|------------------|
| MS | W- | x / = ppm | % | 80-120 %/80-120 % | PQL(w) 0.01 |
| MSD | W- | x / = ppm | % | .. | PQL(s) 0.05 |
| LCS | W- | x / = ppm | % | 80-120 %/80-120 % | MDL(w) 0.005 |
| LCSD | W- | x / = ppm | % | .. | MDL(s) 2352 |

APCL Perchlorate Analysis Report

Sample Name : 4509-01 f=1

Data File Name : C:\DATA\03W3974K\4509-01_016.DXD

Method File Name : c:\peaknet\method\314-011.met

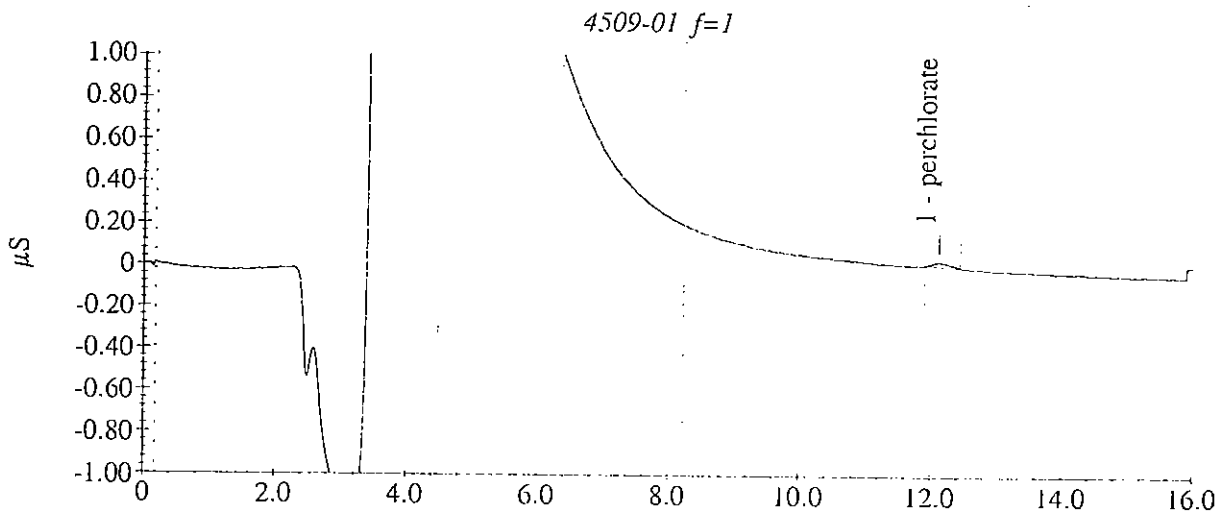
Date Time Collected : 08/06/2003 7:06:46 PM

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 | 12.12 | 2.31 | 3919.30 | 232.19 |



APCL Perchlorate Analysis Report

Sample Name : 4509-02 f=1

Data File Name : C:\DATA\03W3974K\4509-02_017.DXD

Method File Name : c:\peaknet\method\314-011.met

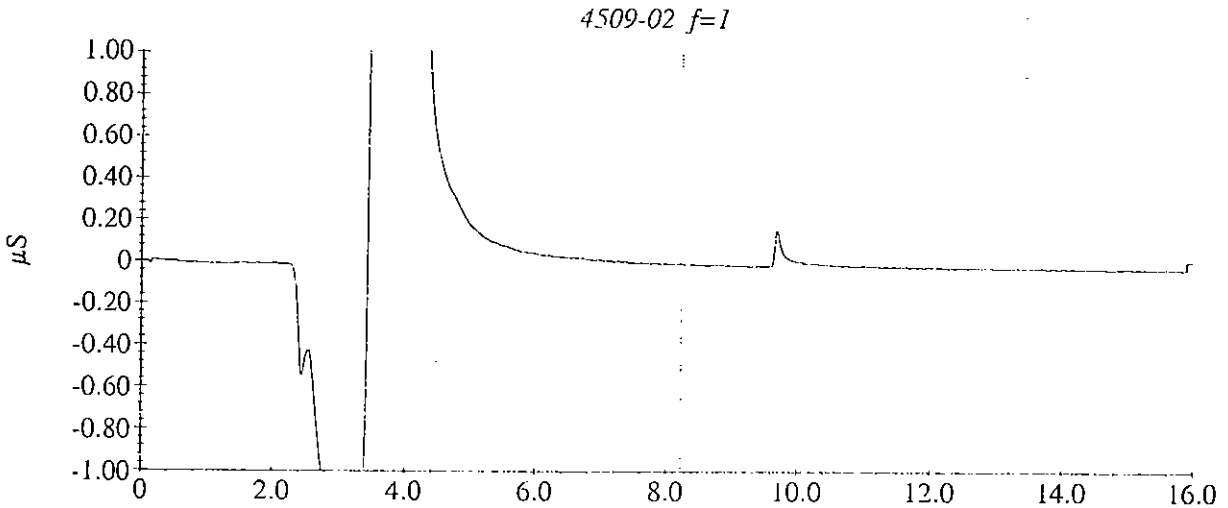
Date Time Collected : 08/06/2003 7:25:12 PM

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 : 4509-03 f=1

Data File Name : C:\DATA\03W3974K\4509-03_018.DXD

Method File Name : c:\peaknet\method\314-011.met

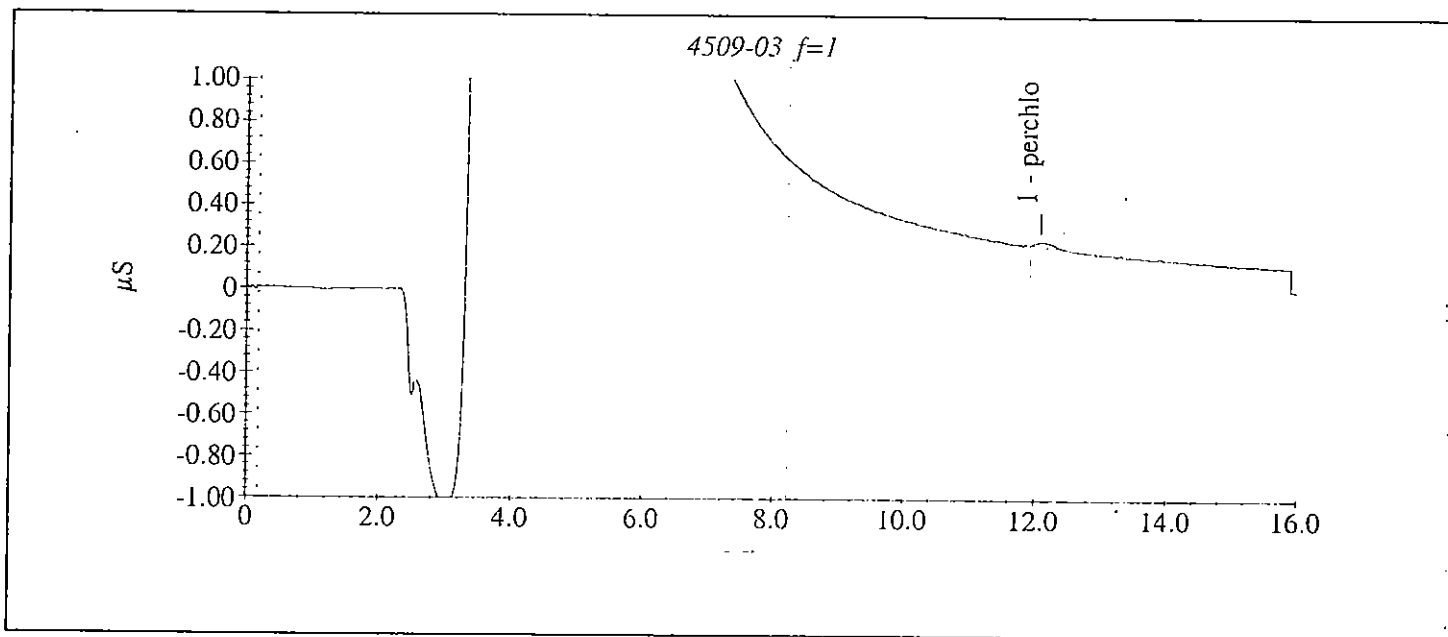
Date Time Collected : 08/06/2003 7:43:38 PM

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 | 12.08 | 2.37 | 4027.25 | 215.87 |



APCL Perchlorate Analysis Report

Sample Name : 4509-04 f=1

Data File Name : C:\DATA\03W3974K\4509-04_019.DXD

Method File Name : c:\peaknet\method\314-011.met

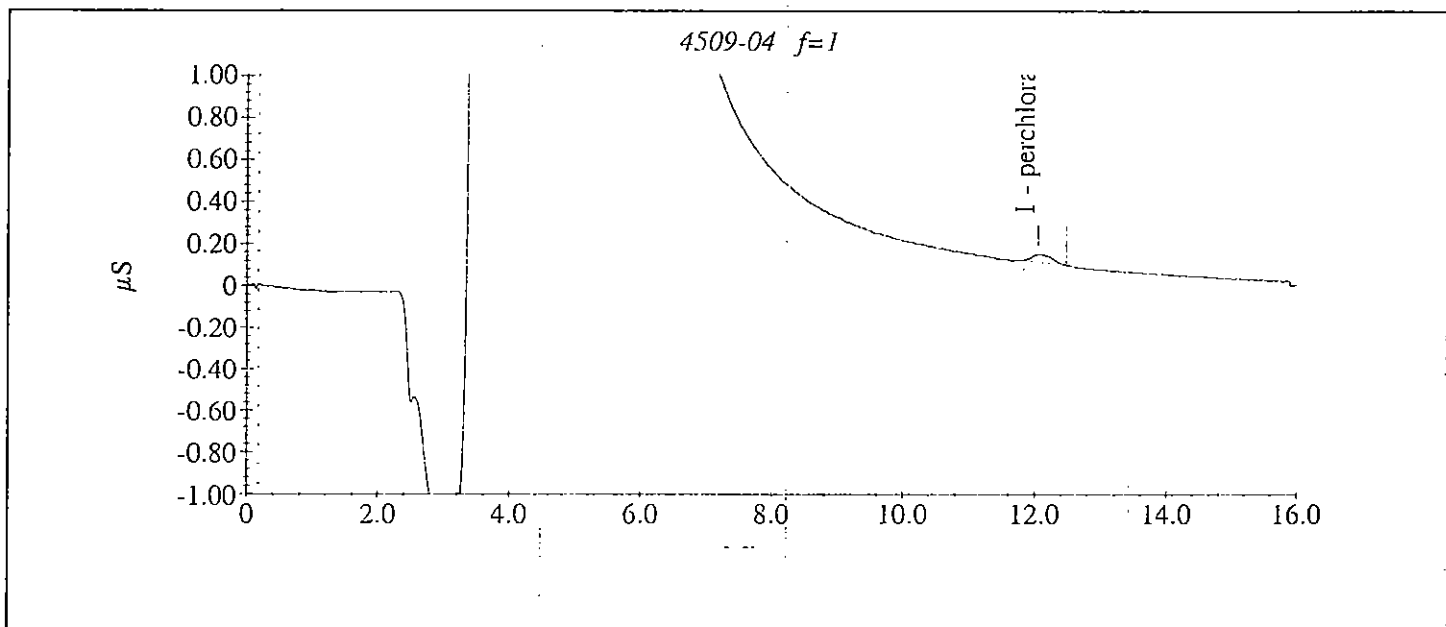
Date Time Collected : 08/06/2003 8:02:01 PM

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 | 12.05 | 4.67 | 7922.25 | 361.32 |



APCL Perchlorate Analysis Report

Sample Name : 4509-05 f=1

Data File Name : C:\DATA\03W3974K\4509-05_020.DXD

Method File Name : c:\peaknet\method\e314-011.met

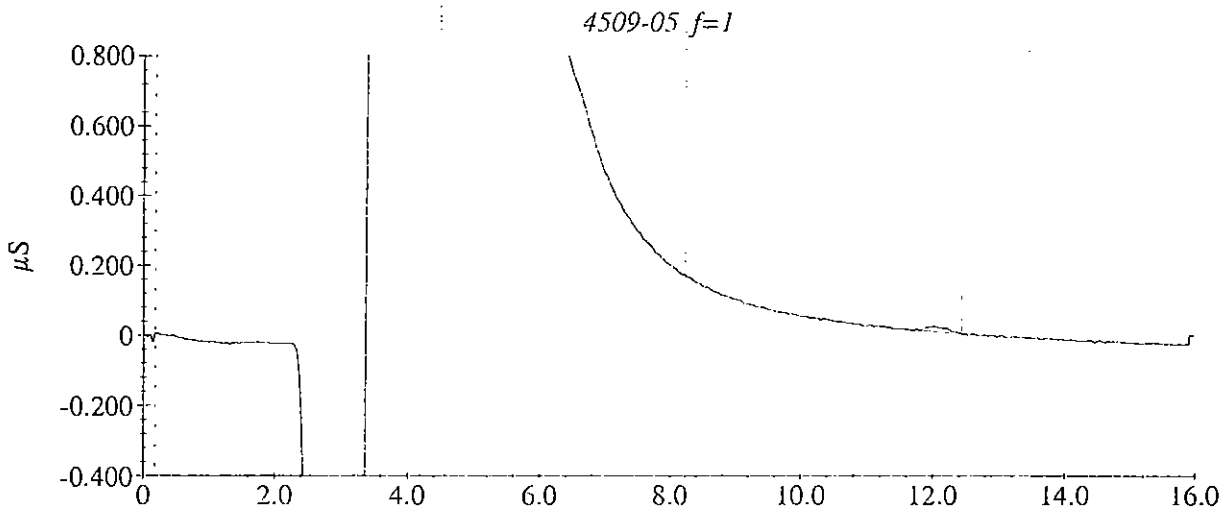
Date Time Collected : 08/06/2003 8:20:25 PM

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 | 12.00 | 1.97 | 3350.30 | 143.26 |



APCL Perchlorate Analysis Report

Sample Name : 4509-07 f=1

Data File Name : C:\DATA\03W3974K\4509-07_021.DXD

Method File Name : c:\peaknet\method\314-011.met

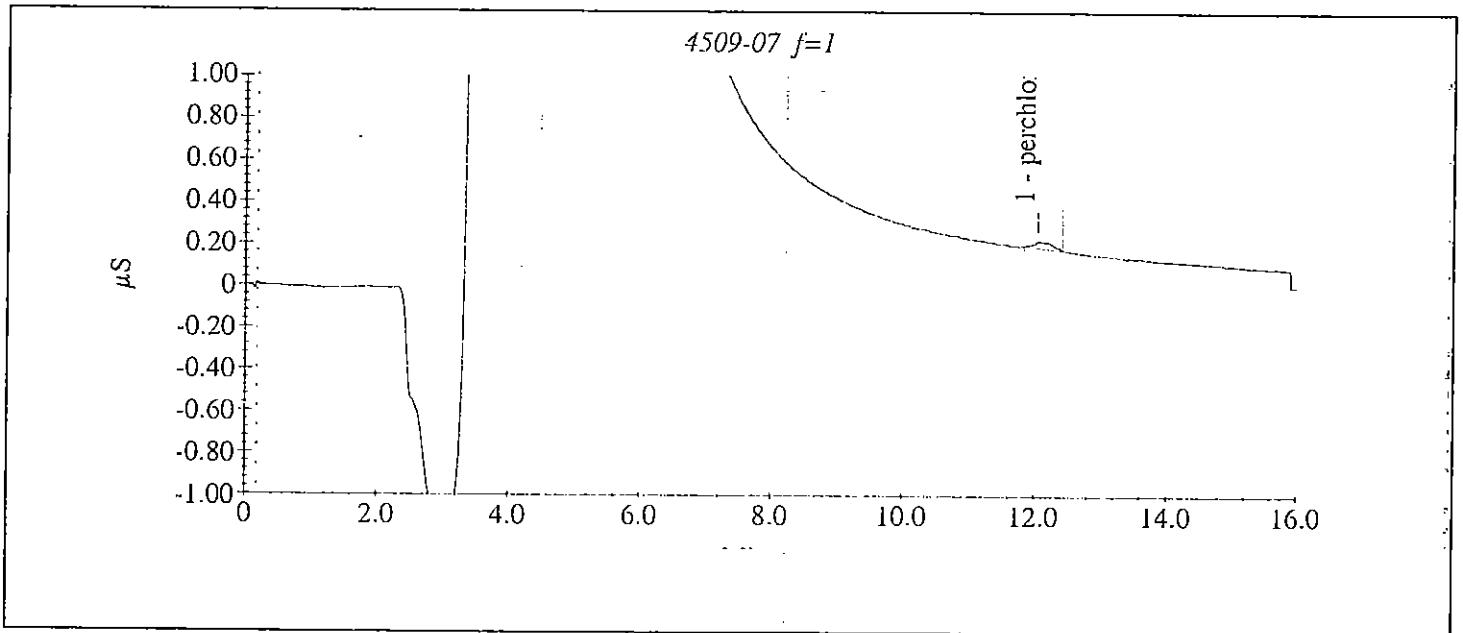
Date Time Collected : 08/06/2003 8:38:49 PM

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 | 12.05 | 3.81 | 6473.30 | 316.10 |



APCL Perchlorate Analysis Report

Sample Name : 4509-08 f=1

Data File Name : C:\DATA\03W3974K\4509-08_022.DXD

Method File Name : c:\peaknet\method\314-011.met

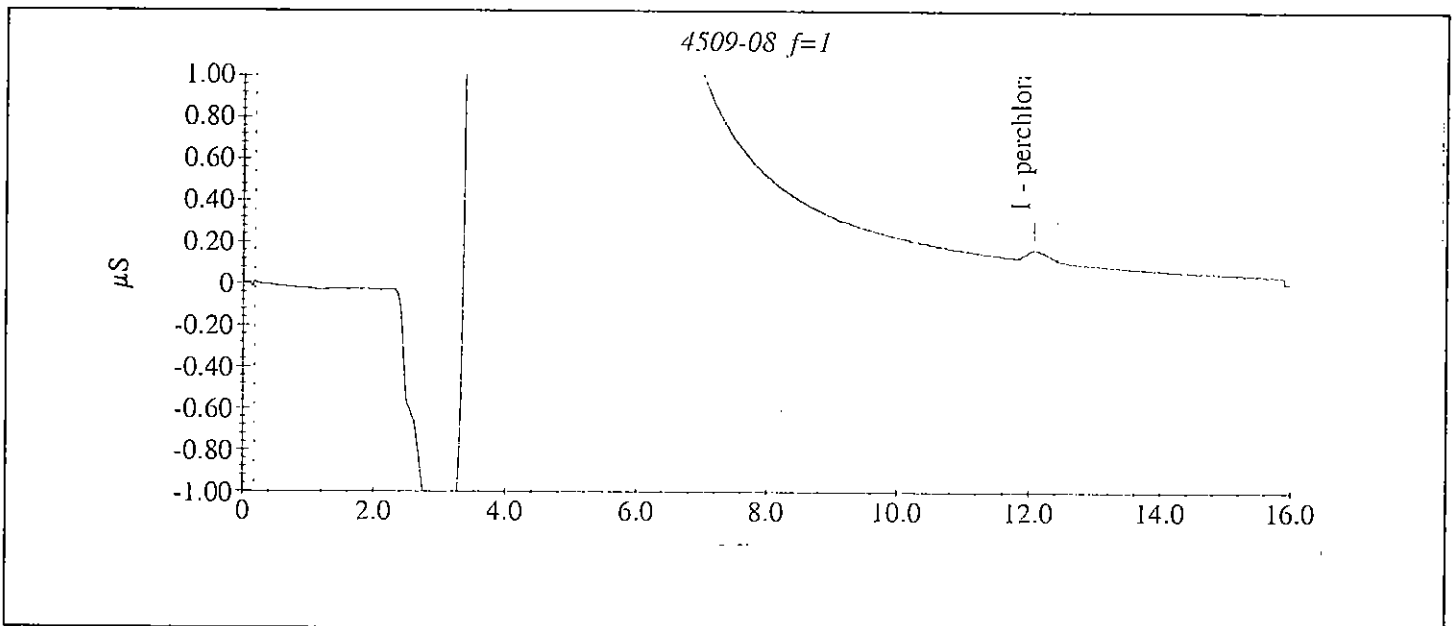
Date Time Collected : 08/06/2003 8:57:13 PM

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 | 12.07 | 5.37 | 9111.40 | 446.90 |



APCL Perchlorate Analysis Report

Sample Name : 4509-09 f=1

Data File Name : C:\DATA\03W3974K\4509-09_027.DXD

Method File Name : c:\peaknet\method\314-011.met

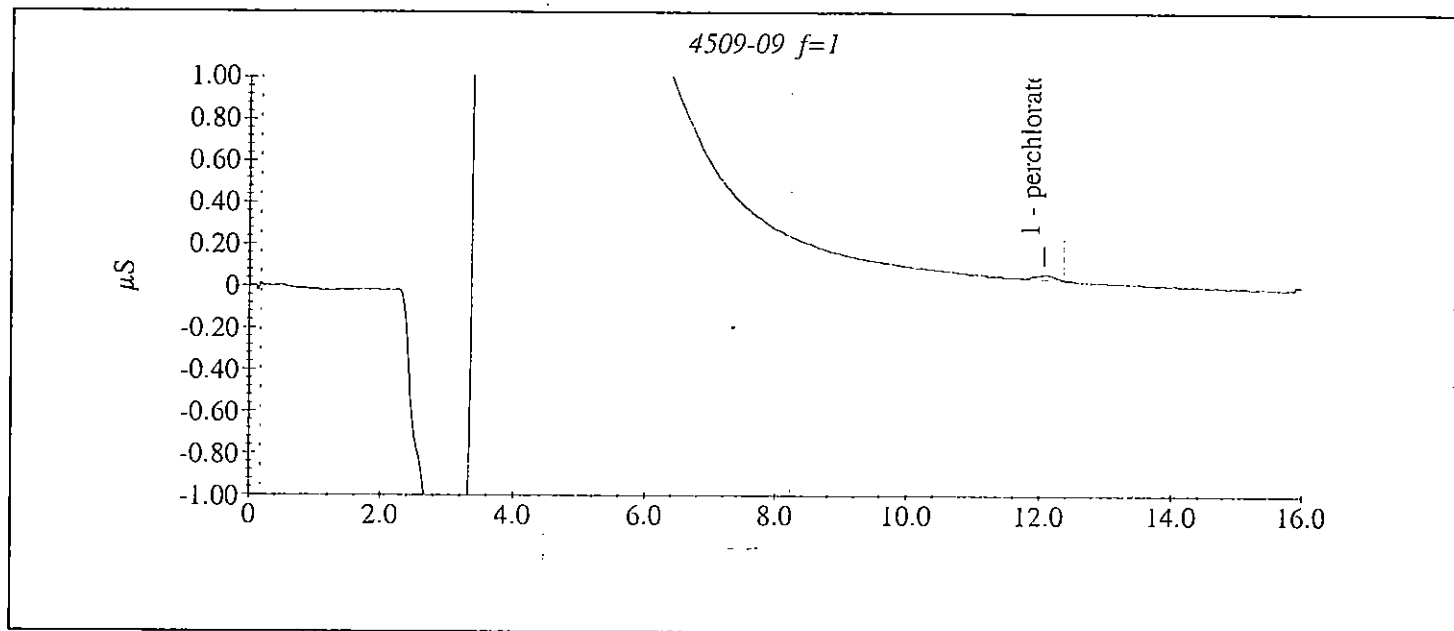
Date Time Collected : 08/06/2003 10:29:18 PM

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 | 12.07 | 2.96 | 5017.45 | 255.36 |



| Line | Sample | Sample Type | Level | Method | Data File | Volume | Dilution | Weight |
|------|------------------------------|-------------|-------|--------------|----------------------------------|--------|----------|--------|
| 1 | ##03w3974kw ipc 25ppb w8032 | Sample | | e314-011.met | c:\data\03w3974k\w3974 ipc 25ppb | 1 | 1 | 1 |
| 2 | ccv 50ppb w8082 | Sample | | e314-011.met | c:\data\03w3974k\w3974 q01 | 1 | 1 | 1 |
| 3 | lcs 25ppb w8087 | Sample | | e314-011.met | c:\data\03w3974k\w3974 l01 | 1 | 1 | 1 |
| 4 | LCS 18PPB W8033a | Sample | | e314-011.met | c:\data\03w3974k\w3974 j01 | 1 | 1 | 1 |
| 5 | ICCS 4ppb w8088 | Sample | | e314-011.met | c:\data\03w3974k\w3974 iccs 4ppb | 1 | 1 | 1 |
| 6 | mb | Sample | | e314-011.met | c:\data\03w3974k\w3974 k01 | 1 | 1 | 1 |
| 7 | 4480-01 f=1 | Sample | | e314-011.met | c:\data\03w3974k\4480-01 | 1 | 1 | 1 |
| 8 | 4480-02 f=1 | Sample | | e314-011.met | c:\data\03w3974k\4480-02 | 1 | 1 | 1 |
| 9 | 4480-03 f=1 | Sample | | e314-011.met | c:\data\03w3974k\4480-03 | 1 | 1 | 1 |
| 10 | 4480-04 f=1 | Sample | | e314-011.met | c:\data\03w3974k\4480-04 | 1 | 1 | 1 |
| 11 | 4480-07 f=1 | Sample | | e314-011.met | c:\data\03w3974k\4480-07 | 1 | 1 | 1 |
| 12 | 4480-08 f=1 | Sample | | e314-011.met | c:\data\03w3974k\4480-08 | 1 | 1 | 1 |
| 13 | ccv 50ppb w8082 | Sample | | e314-011.met | c:\data\03w3974k\w3974 q02 | 1 | 1 | 1 |
| 14 | ccb | Sample | | e314-011.met | c:\data\03w3974k\w3974 k02 | 1 | 1 | 1 |
| 15 | 4480-09 f=1 | Sample | | e314-011.met | c:\data\03w3974k\4480-09 | 1 | 1 | 1 |
| 16 | 4509-01 f=1 | Sample | | e314-011.met | c:\data\03w3974k\4509-01 | 1 | 1 | 1 |
| 17 | 4509-02 f=1 | Sample | | e314-011.met | c:\data\03w3974k\4509-02 | 1 | 1 | 1 |
| 18 | 4509-03 f=1 | Sample | | e314-011.met | c:\data\03w3974k\4509-03 | 1 | 1 | 1 |
| 19 | 4509-04 f=1 | Sample | | e314-011.met | c:\data\03w3974k\4509-04 | 1 | 1 | 1 |
| 20 | 4509-05 f=1 | Sample | | e314-011.met | c:\data\03w3974k\4509-05 | 1 | 1 | 1 |
| 21 | 4509-07 f=1 | Sample | | e314-011.met | c:\data\03w3974k\4509-07 | 1 | 1 | 1 |
| 22 | 4509-08 f=1 | Sample | | e314-011.met | c:\data\03w3974k\4509-08 | 1 | 1 | 1 |
| 23 | ccv 50ppb w8082 | Sample | | e314-011.met | c:\data\03w3974k\w3974 q03 | 1 | 1 | 1 |
| 24 | ccb | Sample | | e314-011.met | c:\data\03w3974k\w3974 k03 | 1 | 1 | 1 |
| 25 | 4509-08 ms 50ppb f=1 w8033b | Sample | | e314-011.met | c:\data\03w3974k\w3974 m01 | 1 | 1 | 1 |
| 26 | 4509-08 msd 50ppb f=1 w8033b | Sample | | e314-011.met | c:\data\03w3974k\w3974 n01 | 1 | 1 | 1 |
| 27 | 4509-09 f=1 | Sample | | e314-011.met | c:\data\03w3974k\4509-09 | 1 | 1 | 1 |
| 28 | ccv 50ppb w8082 | Sample | | e314-011.met | c:\data\03w3974k\w3974 q04 | 1 | 1 | 1 |
| 29 | | Sample | | aastopcl.met | | 1 | 1 | 1 |

Analyst Mei Uly
Date 8/6/03
Instrument IC-K

| Line | Int. Std. | Comment |
|------|-----------|---------|
| 1 | 1 | |
| 2 | 1 | |
| 3 | 1 | |
| 4 | 1 | |
| 5 | 1 | |
| 6 | 1 | |
| 7 | 1 | |
| 8 | 1 | |
| 9 | 1 | |
| 10 | 1 | |
| 11 | 1 | |
| 12 | 1 | |
| 13 | 1 | |
| 14 | 1 | |
| 15 | 1 | |
| 16 | 1 | |
| 17 | 1 | |
| 18 | 1 | |
| 19 | 1 | |
| 20 | 1 | |
| 21 | 1 | |
| 22 | 1 | |
| 23 | 1 | |
| 24 | 1 | |
| 25 | 1 | |
| 26 | 1 | |
| 27 | 1 | |
| 28 | 1 | |
| 29 | 1 | |

Default Method Path: C:\PEAKNET\METHOD
Default Data Path: C:\DATA\03W3650K
Comment:

APCL Perchlorate Analysis Report

Sample Name : ccv 50ppb w8082

Data File Name : C:\DATA\03W3974K\W3974 Q01_002.DXD

Method File Name : c:\peaknet\method\314-011.met

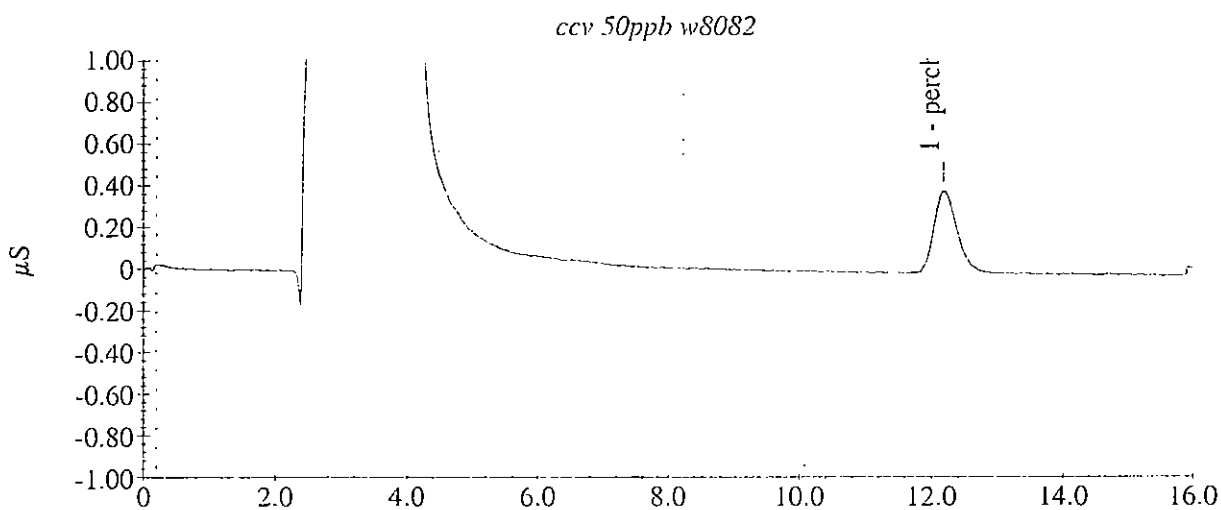
Date Time Collected : 08/06/2003 2:49:07 PM

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 | 12.18 | 53.12 | 90155.00 | 3859.44 |



APCL Perchlorate Analysis Report

Sample Name : ccv 50ppb w8082

Data File Name : C:\DATA\03W3974K\W3974 Q02_013.DXD

Method File Name : c:\peaknet\method\314-011.met

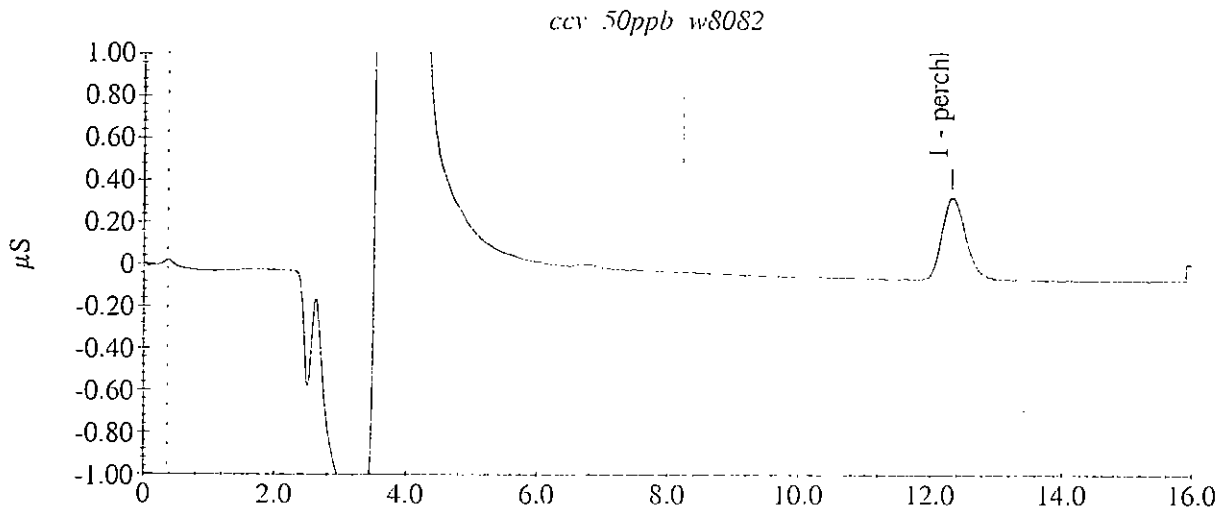
Date Time Collected : 08/06/2003 6:11:34 PM

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 |
|--------|----------------|----------------|--------------|-----------|-------------|
| 1 | perchlorate | 12.32 | 54.24 | 92051.70 | 3827.14 |



APCL Perchlorate Analysis Report

Sample Name : ccv 50ppb w8082

Data File Name : C:\DATA\03W3974K\W3974 Q03_023.DXD

Method File Name : c:\peaknet\method\314-011.met

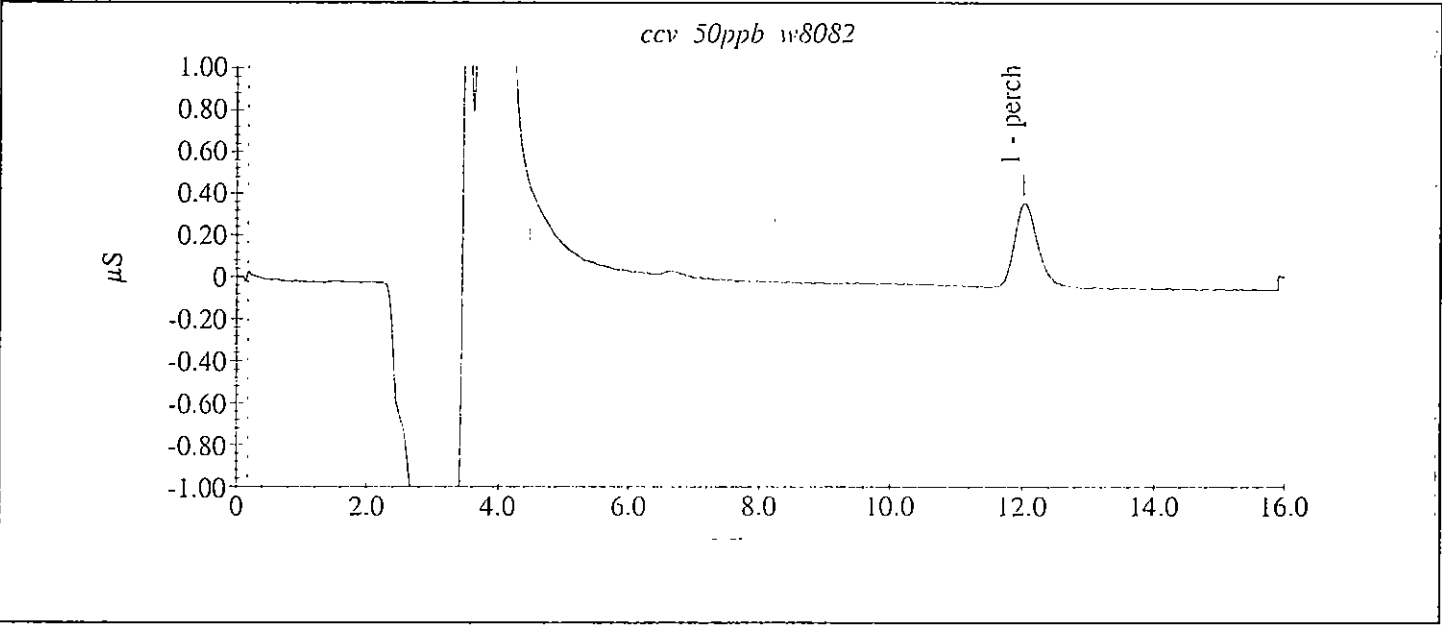
Date Time Collected : 08/06/2003 9:15:37 PM

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 | 12.02 | 53.98 | 91611.40 | 3922.55 |



APCL Perchlorate Analysis Report

Sample Name : ccv 50ppb w8082

Data File Name : C:\DATA\03W3974K\W3974 Q04_028.DXD

Method File Name : c:\peaknet\method\314-011.met

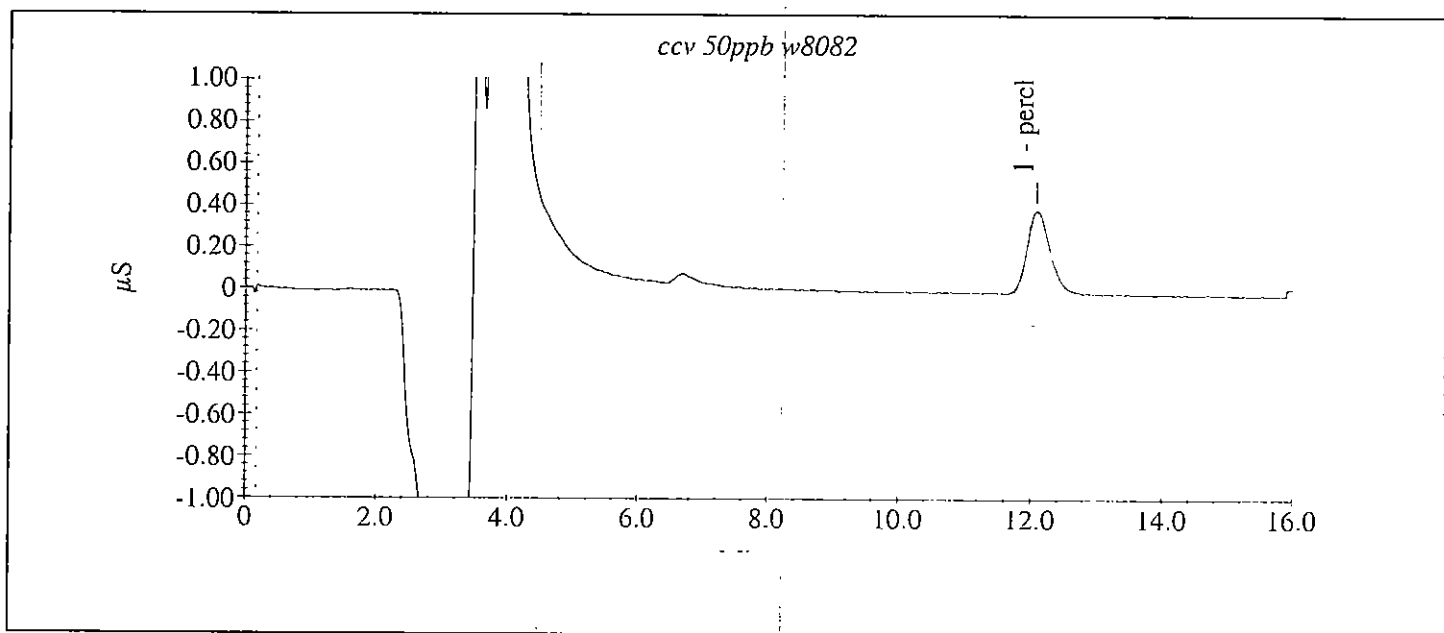
Date Time Collected : 08/06/2003 10:47:42 PM

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 |
|--------|----------------|----------------|--------------|-----------|-------------|
| 1 | perchlorate | 12.08 | 53.11 | 90125.30 | 3860.31 |



APCL Perchlorate Analysis Report

Sample Name : 4509-08 msd 50ppb f=1 w8033b

Data File Name : C:\DATA\03W3974K\W3974 N01_026.DXD

Method File Name : c:\peaknet\method\314-011.met

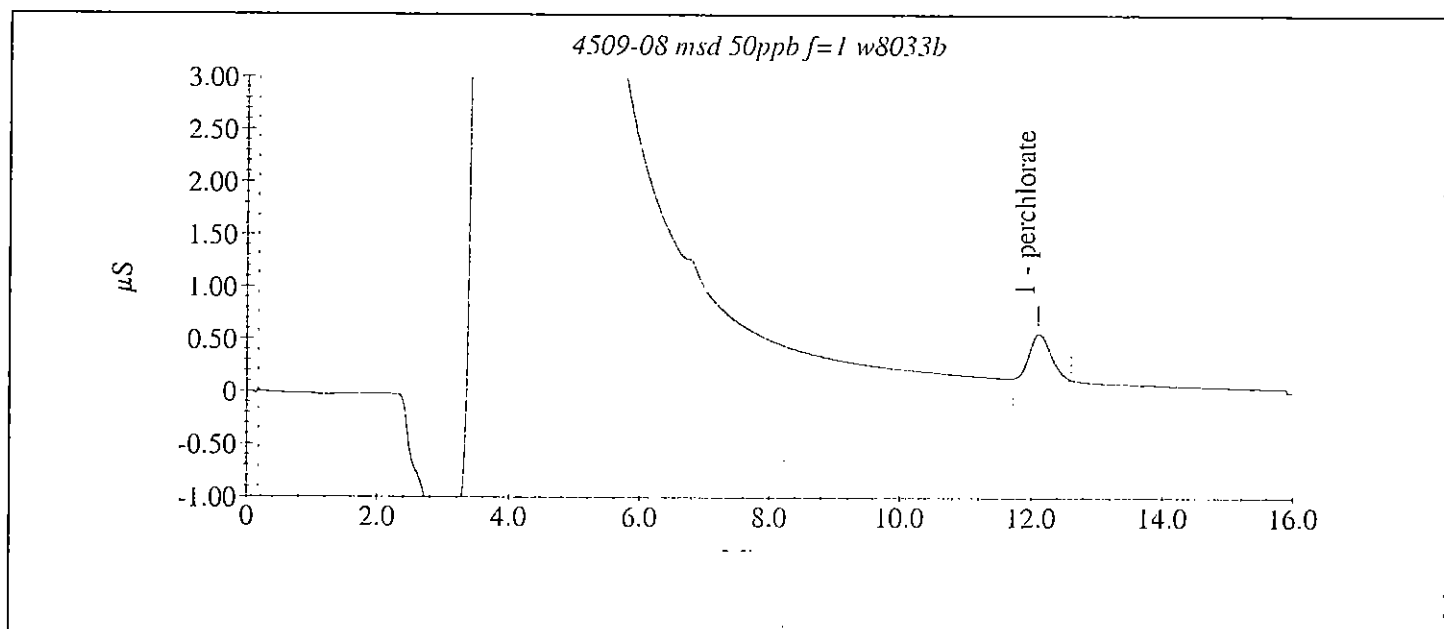
Date Time Collected : 08/06/2003 10:10:55 PM

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 | 12.10 | 58.29 | 98914.80 | 4350.35 |



Rec 105.84%



APCL Perchlorate Analysis Report

Sample Name : 4509-08 ms 50ppb f=1 w8033b

Data File Name : C:\DATA\03W3974K\W3974 M01_025.DXD

Method File Name : c:\peaknet\method\314-011.met

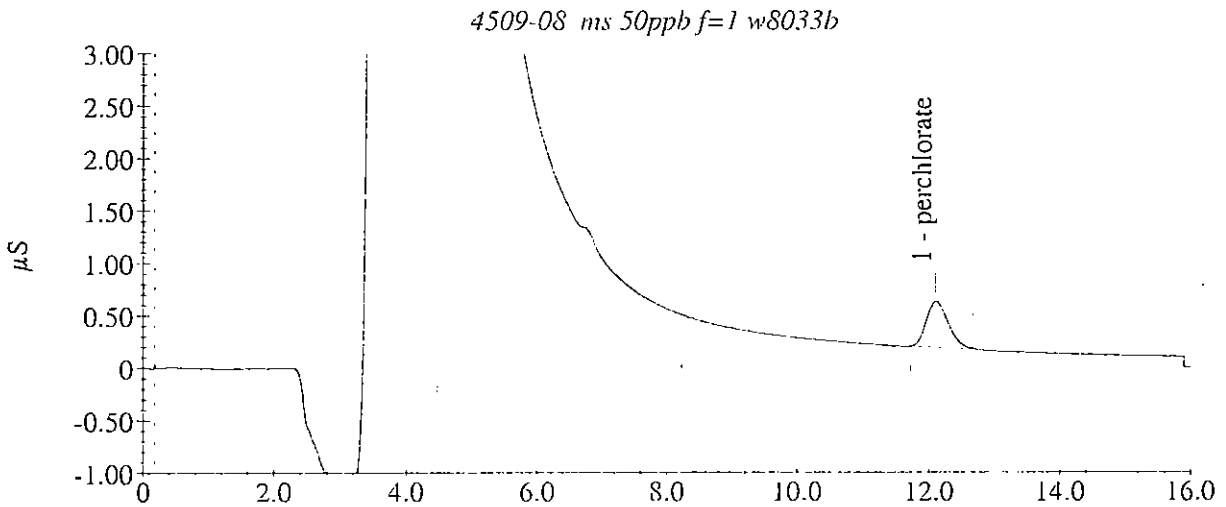
Date Time Collected : 08/06/2003 9:52:30 PM

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 | 12.10 | 60.10 | 102000.80 | 4401.10 |



Rec 109.46%



APCL Perchlorate Analysis Report

Sample Name : ##03w3974kw ipc 25ppb w8032

Data File Name : C:\DATA\03W3974K\W3974 IPC 25PPB_001.DXD

Method File Name : c:\peaknet\method\314-011.met

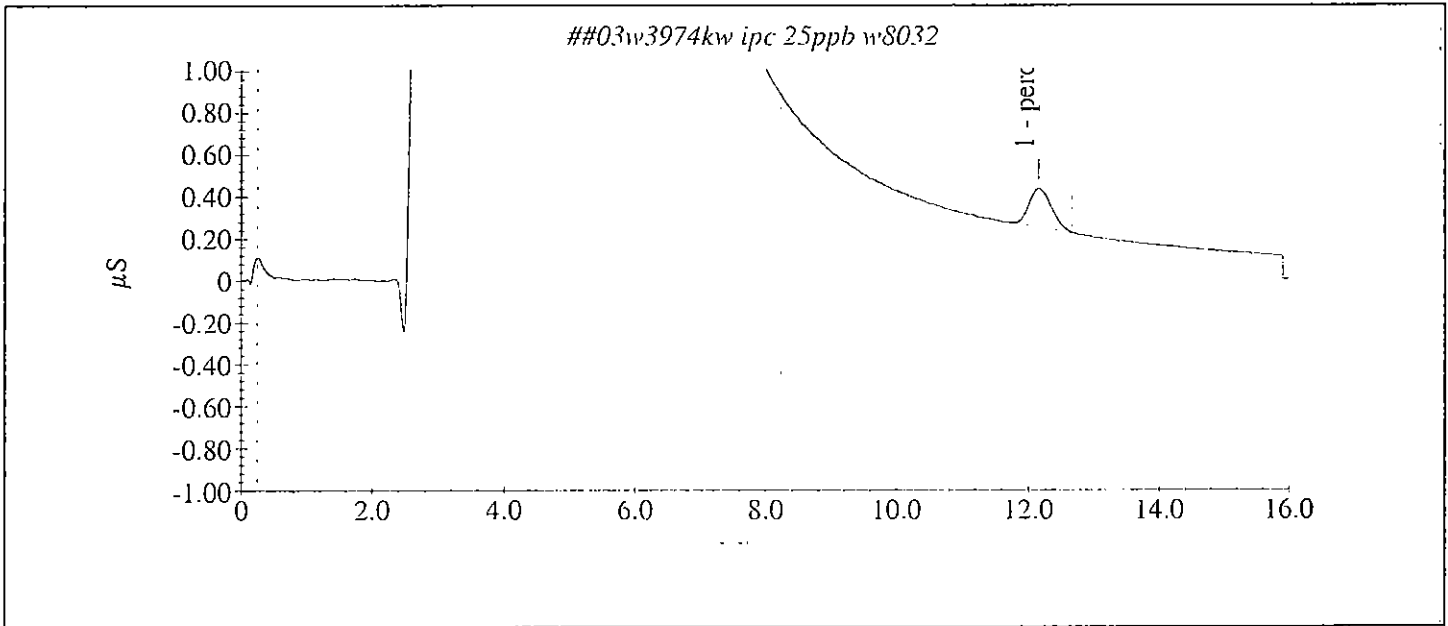
Date Time Collected : 08/06/2003 2:28:38 PM

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 | 12.15 | 25.11 | 42613.70 | 1816.37 |



APCL Perchlorate Analysis Report

Sample Name : LCS 18PPB W8033a

Data File Name : C:\DATA\03W3974K\W3974 J01_004.DXD

Method File Name : c:\peaknet\method\314-011.met

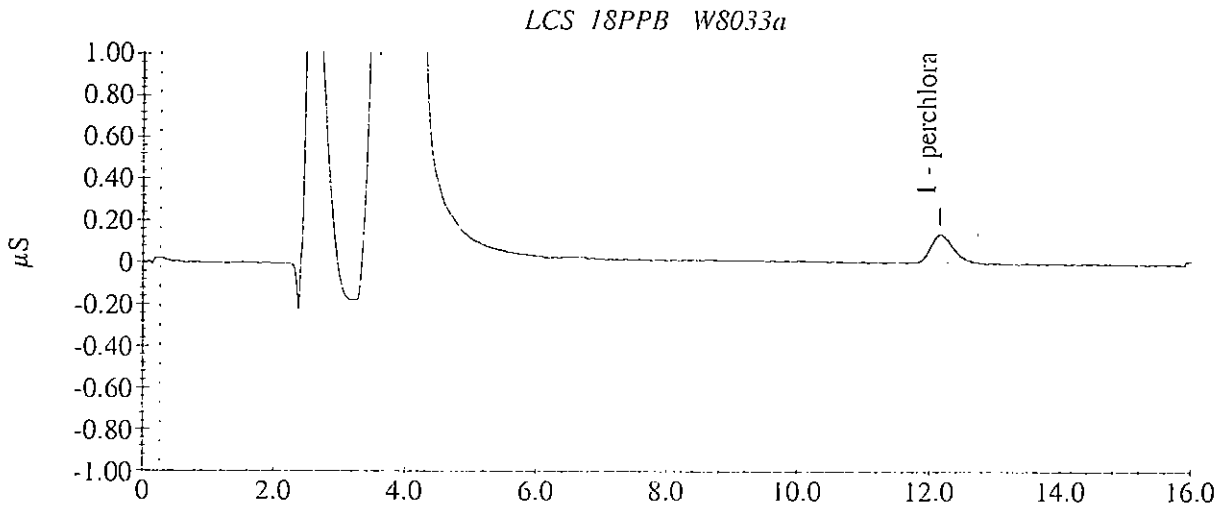
Date Time Collected : 08/06/2003 3:25:57 PM

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 | 12.15 | 17.72 | 30071.20 | 1319.69 |



APCL Perchlorate Analysis Report

Sample Name : lcs 25ppb w8087

Data File Name : C:\DATA\03W3974K\W3974 L01_003.DXD

Method File Name : c:\peaknet\method\l314-011.met

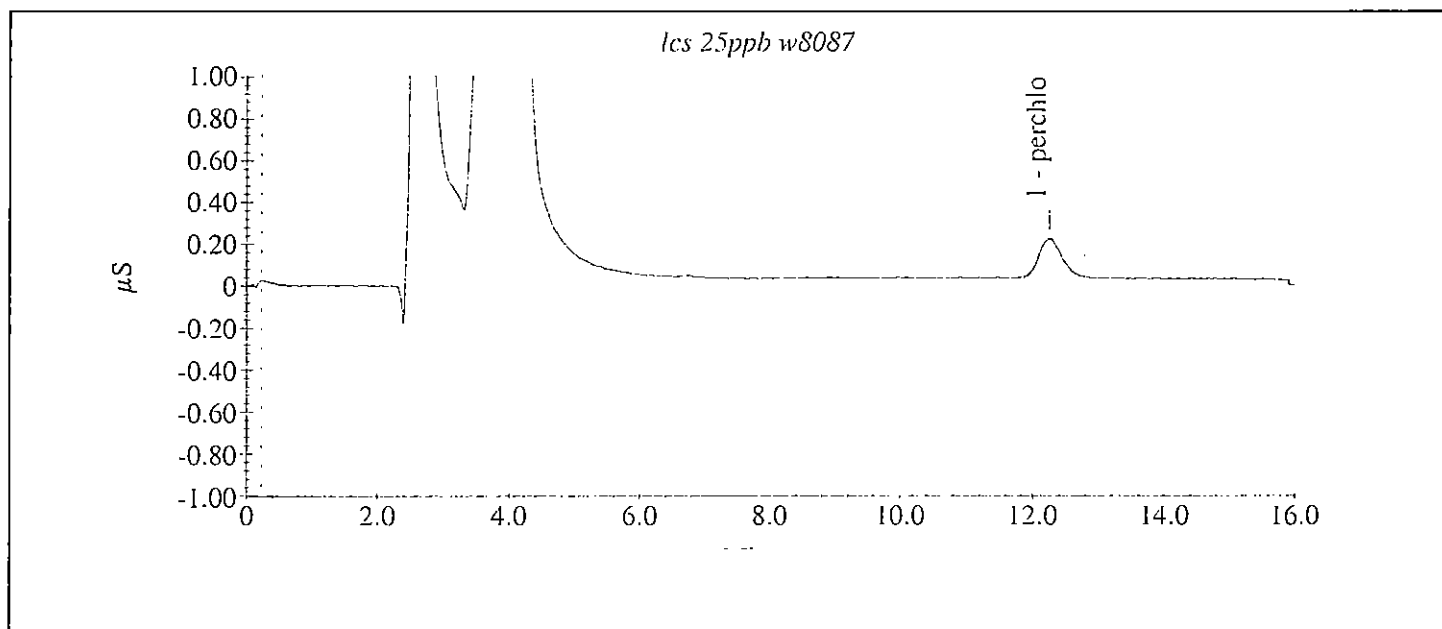
Date Time Collected : 08/06/2003 3:07:31 PM

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 | 12.25 | 24.96 | 42359.70 | 1827.63 |



APCL Perchlorate Analysis Report

Sample Name : ICCS 4ppb w8088

Data File Name : C:\DATA\03W3974K\W3974 ICCS 4PPB_005.DXD

Method File Name : c:\peaknet\method\314-011.met

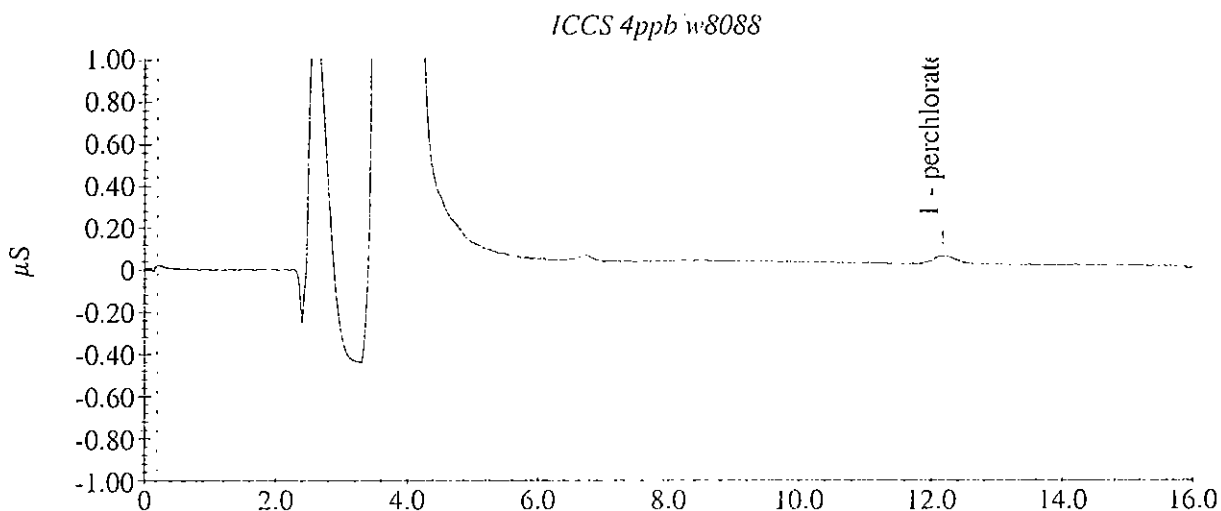
Date Time Collected : 08/06/2003 3:44:21 PM

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 | 12.17 | 4.43 | 7510.50 | 334.46 |



APCL Perchlorate Analysis Report

Sample Name : ccb

Data File Name : C:\DATA\03W3974K\W3974 K03_024.DXD

Method File Name : c:\peaknet\method\314-011.met

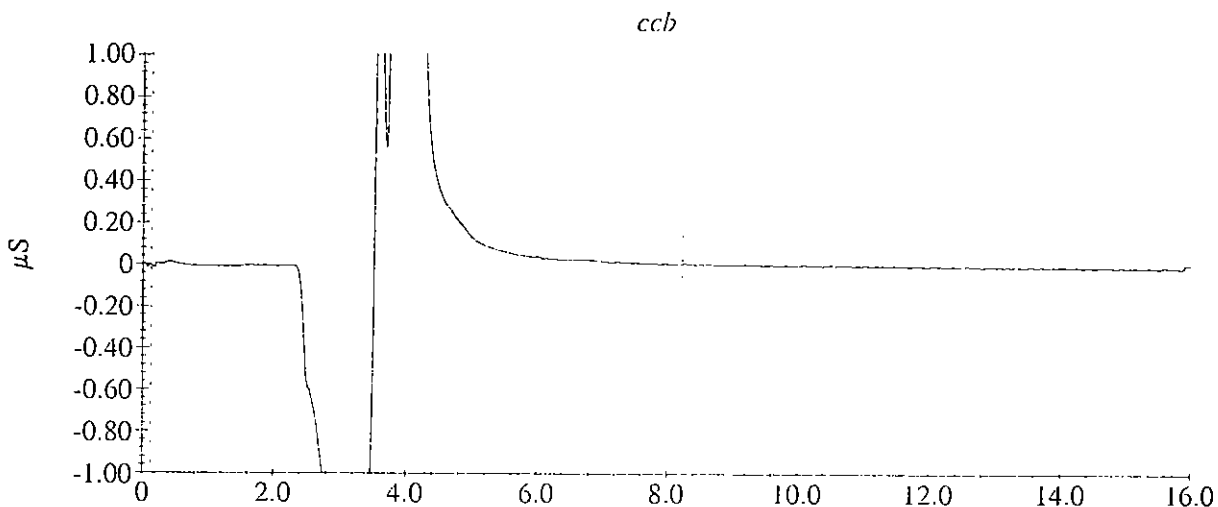
Date Time Collected : 08/06/2003 9:34:03 PM

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\03W3974K\W3974 K02_014.DXD

Method File Name : c:\peaknet\method\314-011.met

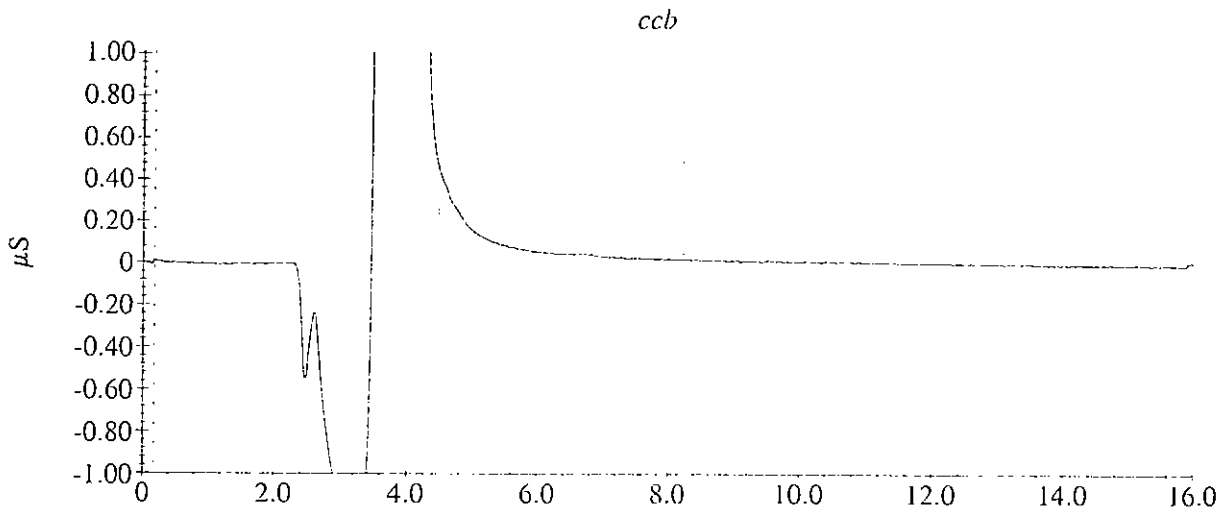
Date Time Collected : 08/06/2003 6:29:58 PM

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\03W3974K\W3974 K01_006.DXD

Method File Name : c:\peaknet\method\314-011.met

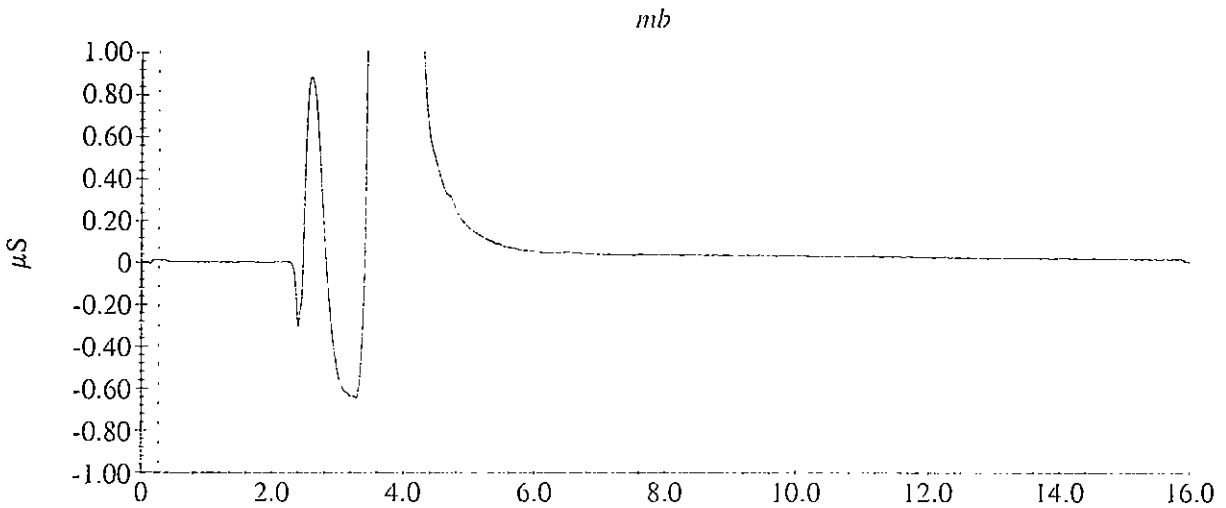
Date Time Collected : 08/06/2003 4:02:47 PM

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

13760 Magnolia Ave. Chino CA 91710
 Tel: (909) 590-1828 Fax: (909) 590-1498

Conductance (120.1) Worksheet

110

Batch # for reference Matrix: W

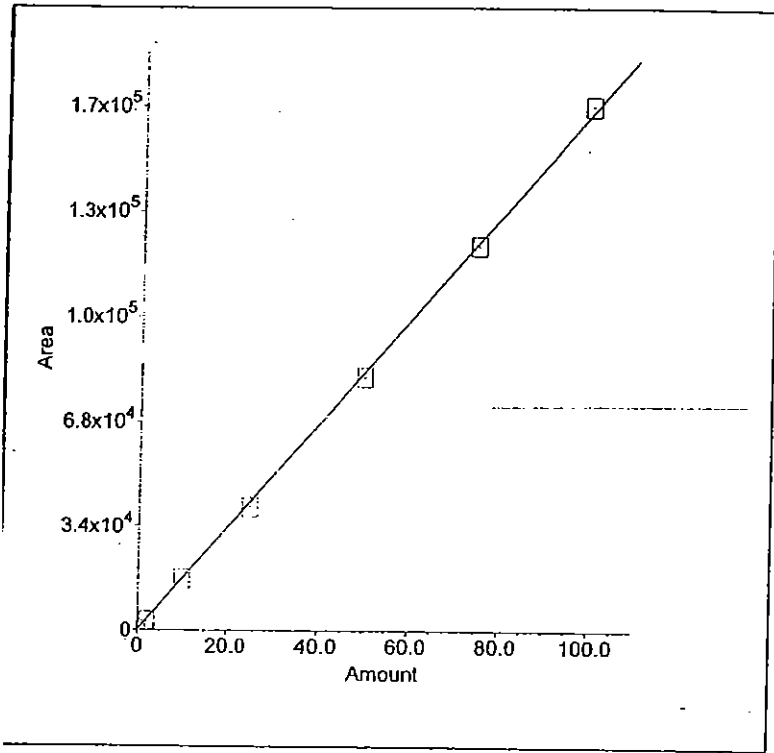
Test Date: 8/4/03 Analyst: imw

Cell Constant _____ Calibration STD: 0.0100M KCl

SOP: G-45

| # | Sample ID | Treatment V/X=f ₀ | Dilution V _f /V _i =f ₁ | Temperature T, °C | C ₂₅ =C _T f ₁ /[1-0.0191(25-T)] | | ρ=1/C ₂₅ MΩ cm | Note & Anomaly | |
|------|-----------|------------------------------|---|-------------------|--|----------------------------|---------------------------|---------------------------|----------------|
| | | | | | C _T , μmhos/cm | C ₂₅ , μmhos/cm | | | |
| Cal. | Lot #: | - | - | 25°C | | | | C ₂₅ =1,413±20 | |
| MB | | / = | / = | ↓ | | | | ↓ | |
| 1 | 4455-1 | / = | / = | | 395 | | | | good for check |
| 2 | -2 | / = | / = | | 32.9 | | | | |
| 3 | -3 | / = | / = | | 384 | | | | |
| 4 | -4 | / = | / = | | 777 | | | | |
| 5 | -5 | / = | / = | | 345 | | | | |
| 6 | -6 | / = | / = | | 390 | | | | |
| 7 | -7 | / = | / = | | 449 | | | | |
| 8 | -8 | / = | / = | | 319 | | | | |
| 9 | -9 | / = | / = | | 285 | | | | |
| 10 | 4509-1 | / = | / = | | 479 | | | | |
| 11 | -2 | / = | / = | | 64.4 | | | | |
| 12 | -3 | / = | / = | | 1030 | | | | |
| 13 | -4 | / = | / = | | 1030 | | | | |
| 14 | -5 | / = | / = | | 609 | | | | |
| 15 | -6 | / = | / = | | 457 | | | | |
| 16 | -7 | / = | / = | | 851 | | | | |
| 17 | -8 | / = | / = | | 989 | | | | |
| 18 | -9 | / = | / = | | 737 | | | | |
| 19 | -10 | / = | / = | | 510 | | | | |
| 20 | | / = | / = | | | | | | |
| Dup. | | / = | / = | | | | | | |

1. Component: perchlorate
Standard: External Fit Type: Linear
Origin: Force Calibration: Area
 $r^2=0.999492$
Amt= $0.0005893 \cdot \text{Resp} + 0$



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 standard 2ppb W7827a

Data File Name : C:\DATA\E314-011\std-2pb_002.DXD

Method File Name : C:\PEAKNET\METHOD\E314-011.met

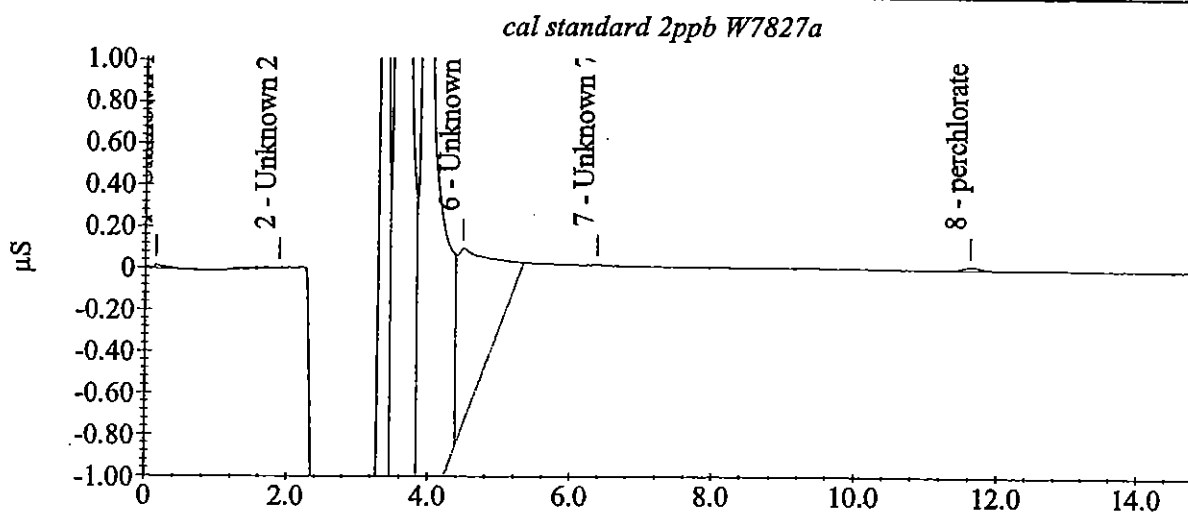
Date Time Collected : 03/12/2003 6:13:12 PM

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\314-011.met

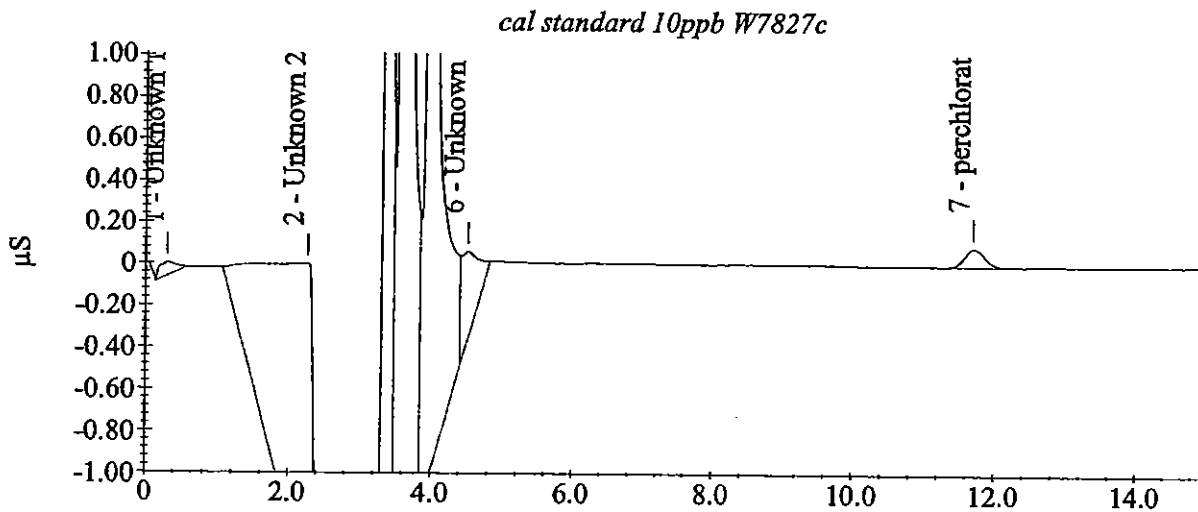
Date Time Collected : 03/12/2003 6:48:21 PM

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 |



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

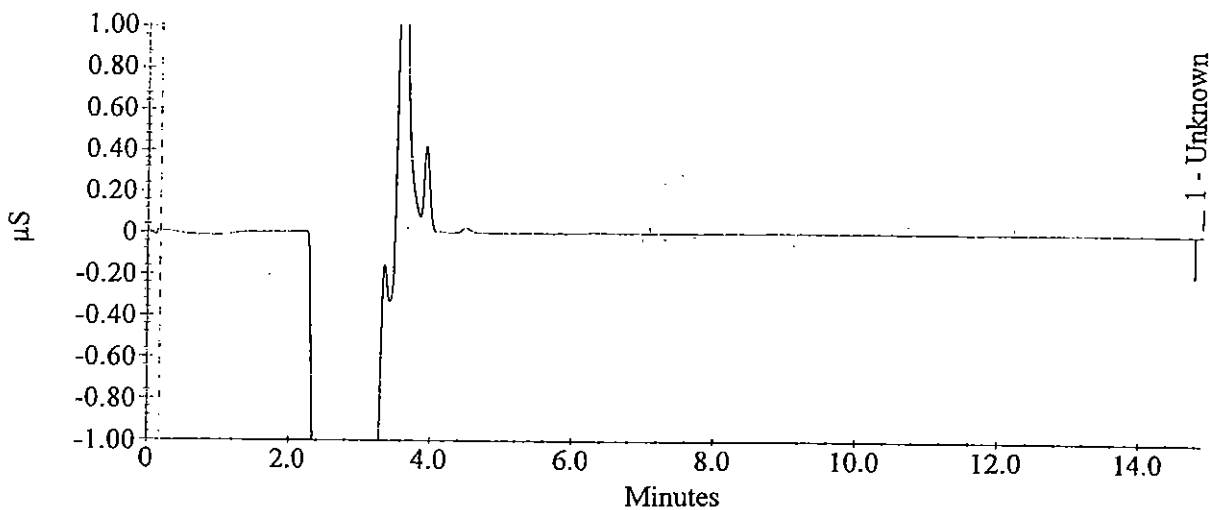
Date Time Collected : 03/12/2003 8:33:51 PM

System Operator : wei wang

Dilution Factor : 1.00

Peak Information : All Components

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



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

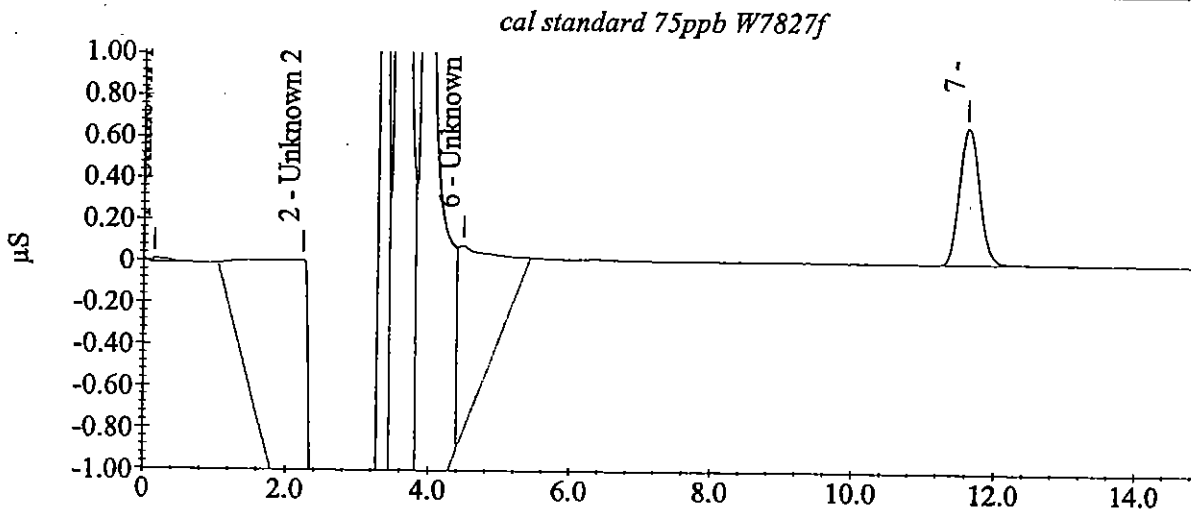
Date Time Collected : 03/12/2003 7:41:05 PM

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 |



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

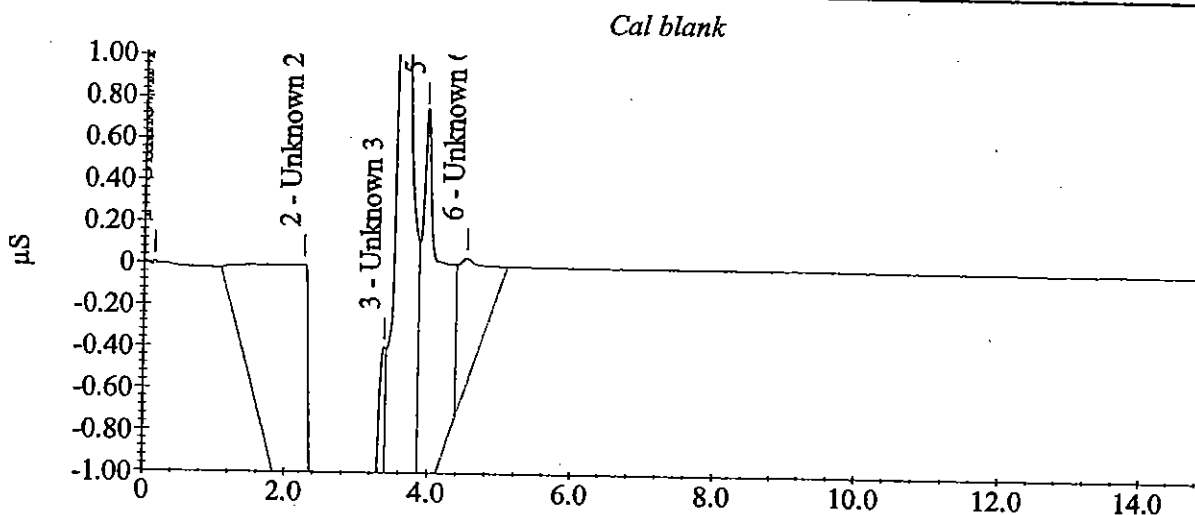
Date Time Collected : 03/12/2003 5:55:39 PM

System Operator : wei wang

Dilution Factor : 1.00

Peak Information : All Components

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



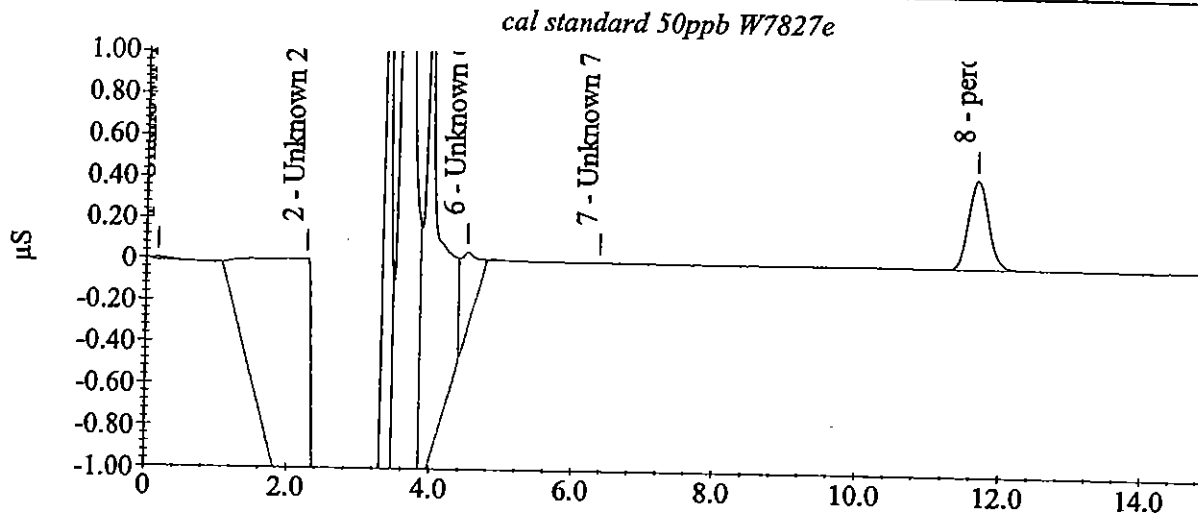
APCL Perchlorate Analysis Report

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 |



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

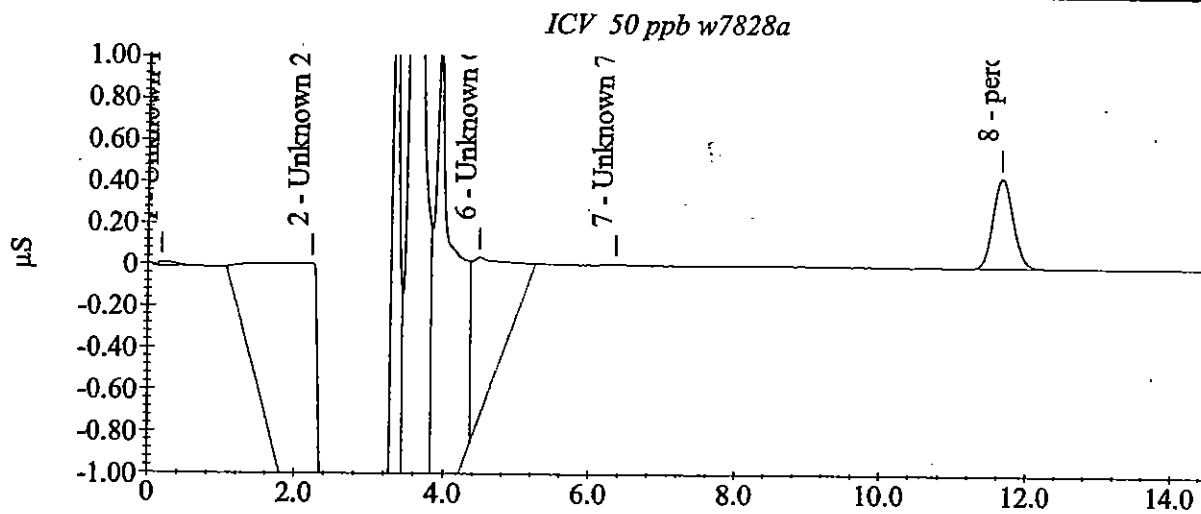
Date Time Collected : 03/12/2003 8:16:15 PM

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 |



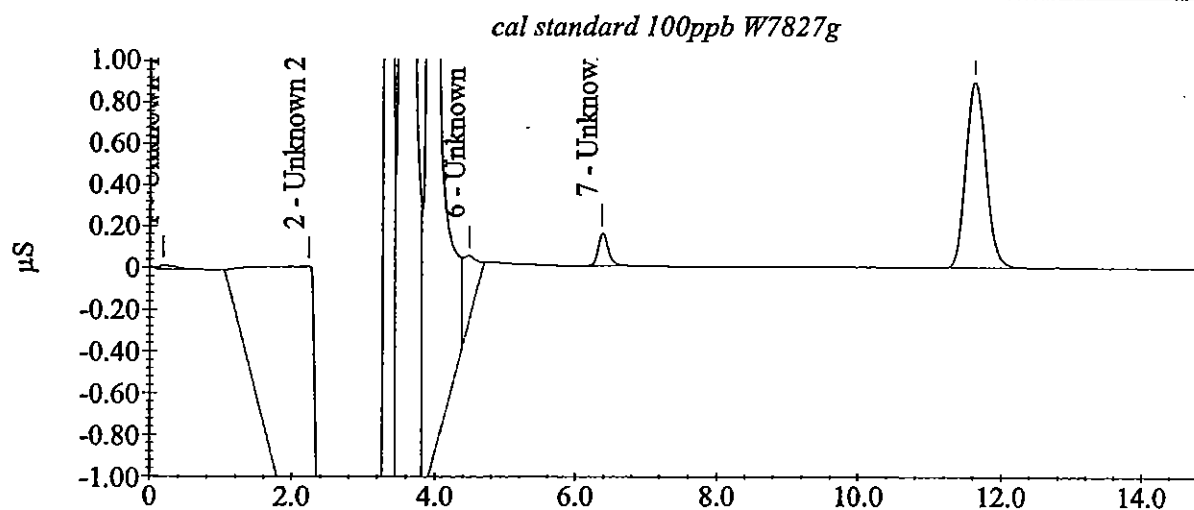
APCL Perchlorate Analysis Report

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 | 89271 |



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\314-011.met

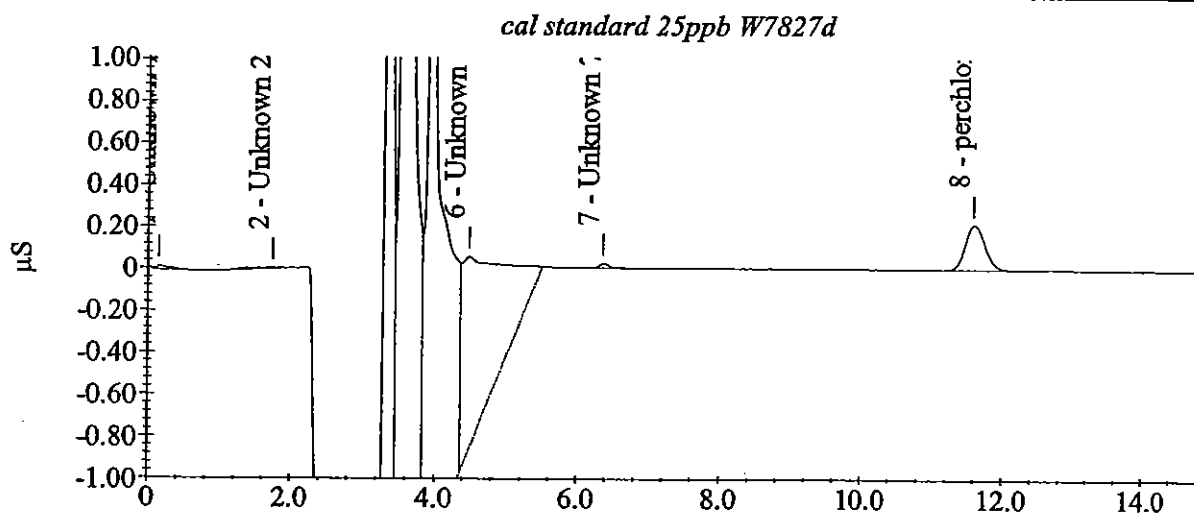
Date Time Collected : 03/12/2003 7:05:54 PM

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 |



| Line | Sample | Sample Type | Level | Method | Data File | Volume | Dilution |
|------|--------------------------------|-------------|-------|--------------|-----------------------------------|--------|----------|
| 1 | Cal blank | Sample | | e314-011.met | c:\data\314-011\mb_001.dxd | 1 | 1 |
| 2 | cal standard 2ppb W7827a | Sample | | e314-011.met | c:\data\314-011\std-2pb_002.dxd | 1 | 1 |
| 3 | cal standard 4ppb W7827b | Sample | | e314-011.met | c:\data\314-011\std-4pb_003.dxd | 1 | 1 |
| 4 | cal standard 10ppb W7827c | Sample | | e314-011.met | c:\data\314-011\std-10pb_004.dxd | 1 | 1 |
| 5 | cal standard 25ppb W7827d | Sample | | e314-011.met | c:\data\314-011\std-25pb_005.dxd | 1 | 1 |
| 6 | cal standard 50ppb W7827e | Sample | | e314-011.met | c:\data\314-011\std-50pb_006.dxd | 1 | 1 |
| 7 | cal standard 75ppb W7827f | Sample | | e314-011.met | c:\data\314-011\std-75pb_007.dxd | 1 | 1 |
| 8 | cal standard 100ppb W7827g | Sample | | e314-011.met | c:\data\314-011\std-100pb_008.dxd | 1 | 1 |
| 9 | ICV 50 ppb w7828a | Sample | | e314-011.met | c:\data\314-011\icv-50pb_009.dxd | 1 | 1 |
| 10 | icb | Sample | | e314-011.met | c:\data\314-011\icb_010.dxd | 1 | 1 |
| 11 | anion 100pm each ,25pb CLO4 | Sample | | e314-011.met | c:\data\314-011\mct-100_011.dxd | 1 | 1 |
| 12 | anion 200pm each ,25pb CLO4 | Sample | | e314-011.met | c:\data\314-011\mct-200_012.dxd | 1 | 1 |
| 13 | anion 300pm each ,25pb CLO4 | Sample | | e314-011.met | c:\data\314-011\mct-300_013.dxd | 1 | 1 |
| 14 | anion 400pm each ,25pb CLO4 | Sample | | e314-011.met | c:\data\314-011\mct-400_014.dxd | 1 | 1 |
| 15 | anion 500pm each ,25pb CLO4 | Sample | | e314-011.met | c:\data\314-011\mct-500_015.dxd | 1 | 1 |
| 16 | anion 600pm each ,25pb CLO4 | Sample | | e314-011.met | c:\data\314-011\mct-600_016.dxd | 1 | 1 |
| 17 | anion 800pm each ,25pb CLO4 | Sample | | e314-011.met | c:\data\314-011\mct-800_017.dxd | 1 | 1 |
| 18 | anion 1000pm each ,25pb CLO4 | Sample | | e314-011.met | c:\data\314-011\mct-1000_018.dxd | 1 | 1 |
| 19 | anion 400pm each 2pb | Sample | | e314-011.met | c:\data\314-011\ipc-2pb_019.dxd | 1 | 1 |
| 20 | anion 400pm each 4pb | Sample | | e314-011.met | c:\data\314-011\ipc-4pb_020.dxd | 1 | 1 |
| 21 | anion 400pm each 25pb | Sample | | e314-011.met | c:\data\314-011\ipc-25pb_021.dxd | 1 | 1 |
| 22 | ICV 50 ppb | Sample | | e314-011.met | c:\data\314-011\icc-50pb | 1 | 1 |
| 23 | MDL 4pb | Sample | | e314-011.met | c:\data\314-011\mdl-02_023.dxd | 1 | 1 |
| 24 | MDL 4pb | Sample | | e314-011.met | c:\data\314-011\mdl-03_024.dxd | 1 | 1 |
| 25 | MDL 4pb | Sample | | e314-011.met | c:\data\314-011\mdl-04 | 1 | 1 |
| 26 | MDL 4pb | Sample | | e314-011.met | c:\data\314-011\mdl-05 | 1 | 1 |
| 27 | MDL 4pb | Sample | | e314-011.met | c:\data\314-011\mdl-06 | 1 | 1 |
| 28 | MDL 4pb | Sample | | e314-011.met | c:\data\314-011\mdl-07 | 1 | 1 |
| 29 | MDL 4pb | Sample | | e314-011.met | c:\data\314-011\mdl-08 | 1 | 1 |
| 30 | IDP and IDA 25pb | Sample | | e314-011.met | c:\data\314-011\idap-25pb | 1 | 1 |
| 31 | IDP and IDA 25pb | Sample | | e314-011.met | c:\data\314-011\idap-25pb | 1 | 1 |
| 32 | IDP and IDA 25pb | Sample | | e314-011.met | c:\data\314-011\idap-25pb | 1 | 1 |
| 33 | IDP and IDA 25pb | Sample | | e314-011.met | c:\data\314-011\idap-25pb | 1 | 1 |
| 34 | IDP and IDA 25pb | Sample | | e314-011.met | c:\data\314-011\idap-25pb | 1 | 1 |
| 35 | IDP and IDA 25pb | Sample | | e314-011.met | c:\data\314-011\idap-25pb | 1 | 1 |
| 36 | IDP and IDA 25pb | Sample | | e314-011.met | c:\data\314-011\idap-25pb | 1 | 1 |
| 37 | MCT anion 800pm each, 25pbCLO4 | Sample | | e314-011.met | c:\data\314-011\ipc-25pb | 1 | 1 |
| 38 | MCT anion 800pm each, 25pbCLO4 | Sample | | e314-011.met | c:\data\314-011\ipc-25pb | 1 | 1 |
| 39 | MCT anion 800pm each, 4pbCLO4 | Sample | | e314-011.met | c:\data\314-011\ipc-4pb | 1 | 1 |
| 40 | MCT anion 800pm each, 4pbCLO4 | Sample | | e314-011.met | c:\data\314-011\ipc-4pb | 1 | 1 |
| 41 | MDL 20pb soil | Sample | | e314-011.met | c:\data\314-011\mdl-s01 | 1 | 5 |
| 42 | MDL 20pb soil | Sample | | e314-011.met | c:\data\314-011\mdl-s02 | 1 | 5 |
| 43 | MDL 20pb soil | Sample | | e314-011.met | c:\data\314-011\mdl-s03 | 1 | 5 |
| 44 | MDL 20pb soil | Sample | | e314-011.met | c:\data\314-011\mdl-s04 | 1 | 5 |
| 45 | MDL 20pb soil | Sample | | e314-011.met | c:\data\314-011\mdl-s05 | 1 | 5 |
| 46 | MDL 20pb soil | Sample | | e314-011.met | c:\data\314-011\mdl-s06 | 1 | 5 |
| 47 | MDL 20pb soil | Sample | | e314-011.met | c:\data\314-011\mdl-s07 | 1 | 5 |
| 48 | standard 25ppb W7827d | Sample | | e314-011.met | c:\data\314-011\std-25pb | 1 | 1 |
| 49 | anion 100pm each,4pb CLO4 | Sample | | e314-011.met | c:\data\314-011\am-100-4pb | 1 | 1 |
| 50 | anion 200pm each ,4pb CLO4 | Sample | | e314-011.met | c:\data\314-011\am-200-4pb | 1 | 1 |
| 51 | anion 300pm each ,4pb CLO4 | Sample | | e314-011.met | c:\data\314-011\am-300-4pb | 1 | 1 |
| 52 | anion 100pm each,2pb CLO4 | Sample | | e314-011.met | c:\data\314-011\am-100-2pb | 1 | 1 |
| 53 | anion 200pm each,2pb CLO4 | Sample | | e314-011.met | c:\data\314-011\am-200-2pb | 1 | 1 |
| 54 | anion 300pm each,2pb CLO4 | Sample | | e314-011.met | c:\data\314-011\am-300-2pb | 1 | 1 |
| 55 | 1982-01 B S.C 4450us/cm | Sample | | e314-011.met | c:\data\314-011\1982-01 | 1 | 1 |
| 56 | 1982-01 B S.C 4450us/cm | Sample | | e314-011.met | c:\data\314-011\1982-01 | 1 | 2 |
| 57 | 1982-02 f=10 | Sample | | e314-011.met | c:\data\314-011\1982-02_057.dxd | 1 | 10 |
| 58 | | Sample | | aastopcl.met | | 1 | 1 |

| Line | Weight | Int. Std. | Comment |
|------|--------|-----------|---------|
| 1 | 1 | 1 | |
| 2 | 1 | 1 | |
| 3 | 1 | 1 | |
| 4 | 1 | 1 | |
| 5 | 1 | 1 | |
| 6 | 1 | 1 | |
| 7 | 1 | 1 | |
| 8 | 1 | 1 | |
| 9 | 1 | 1 | |
| 10 | 1 | 1 | |
| 11 | 1 | 1 | |
| 12 | 1 | 1 | |
| 13 | 1 | 1 | |
| 14 | 1 | 1 | |
| 15 | 1 | 1 | |
| 16 | 1 | 1 | |
| 17 | 1 | 1 | |
| 18 | 1 | 1 | |
| 19 | 1 | 1 | |
| 20 | 1 | 1 | |
| 21 | 1 | 1 | |
| 22 | 1 | 1 | |
| 23 | 1 | 1 | |
| 24 | 1 | 1 | |
| 25 | 1 | 1 | |
| 26 | 1 | 1 | |
| 27 | 1 | 1 | |
| 28 | 1 | 1 | |
| 29 | 1 | 1 | |
| 30 | 1 | 1 | |
| 31 | 1 | 1 | |
| 32 | 1 | 1 | |
| 33 | 1 | 1 | |
| 34 | 1 | 1 | |
| 35 | 1 | 1 | |
| 36 | 1 | 1 | |
| 37 | 1 | 1 | |
| 38 | 1 | 1 | |
| 39 | 1 | 1 | |
| 40 | 1 | 1 | |
| 41 | 1 | 1 | |
| 42 | 1 | 1 | |
| 43 | 1 | 1 | |
| 44 | 1 | 1 | |
| 45 | 1 | 1 | |
| 46 | 1 | 1 | |
| 47 | 1 | 1 | |
| 48 | 1 | 1 | |
| 49 | 1 | 1 | |
| 50 | 1 | 1 | |
| 51 | 1 | 1 | |
| 52 | 1 | 1 | |
| 53 | 1 | 1 | |
| 54 | 1 | 1 | |
| 55 | 1 | 1 | |
| 56 | 1 | 1 | |
| 57 | 1 | 1 | |
| 58 | 1 | 1 | |
| 59 | 1 | 1 | |
| 60 | 1 | 1 | |
| 61 | 1 | 1 | |
| 62 | 1 | 1 | |
| 63 | 1 | 1 | |
| 64 | 1 | 1 | |
| 65 | 1 | 1 | |
| 66 | 1 | 1 | |
| 67 | 1 | 1 | |
| 68 | 1 | 1 | |

Default Method Path: C:\PEAKNET\METHOD
 Default Data Path: C:\DATA\03W1286K
 Comment:
 Remark:

Condition information:

. Column
 Separator column: AS16 4mm
 Guard column: AS16 4mm
 . Eluent: NaOH 38mM
 . Flow rate: 1.2mL/min
 . Suppressor: ASRS-ULTRA 4mm
 . Detector: CD20
 . Analyst: Charles Wu and Wei Wang
 . Date: 03 / 12 / 2003
 . Instrument: IC-K DX-500 Dionex



Applied Physics & Chemistry Laboratory

13760 Magnolia Ave. Chino CA 91710
Tel. (909) 590-1828 Fax (909) 590-1498

Sep 02, 2003

GEOFON, Inc.
Attention: Brad Shojaee
22632 Golden Spring Dr Ste 270
Diamond Bar CA 91765

Dear Brad,

This package contains samples in our Service ID 03-4425 and your project : 04-4428.10 JPL
Enclosed please find:

- (1) Original analytical report.
- (2) Original Chain of Custody.
- (3) One diskette containing EDD deliverable.
- (4) One original Level C Data Package Deliverable.

If anything is missing or you have any questions, please feel free to contact me.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Regina Kirakozova', written over a horizontal line.

Regina Kirakozova
Associate QA/QC Director
Applied P & Ch Laboratory

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

Submitted to:

GEOFON, Inc.

Attention: Brad Shojaee

22632 Golden Spring Dr Ste 270

Diamond Bar CA 91765

Tel: (909) 396-7662 Fax: (909) 396-1455

APCL Analytical Report

Service ID #: 801-034425

Received: 07/31/03

Collected by: Leo Williamson

Extracted: N/A

Collected on: 07/31/03

Tested: 08/01-07/03

Reported: 08/18/03

Sample Description: Water from MW-20.

Project Description: 04-4428.10 JPL

Analysis of Water Samples

| Component Analyzed | Method | Unit | PQL | Analysis Result | | | |
|-----------------------------------|--------|------|------|----------------------------|----------------------------|-----------------------|-----------------------|
| | | | | DUPE-2-3-Q03 03-04425-1 | EB-3-7-31-03 03-04425-2 | MW-20-1 03-04425-3 | MW-20-2 03-04425-4 |
| Dilution Factor | | | | 1 | 1 | 1 | 1 |
| PERCHLORATE | 314.0 | µg/L | 4 | <4 | <4 | 1.5J | <4 |
| Dilution Factor | | | | 1 | 1 | 1 | 1 |
| CHROMIUM (VI) | 7196 | mg/L | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| VOLATILE ORGANIC COMPOUNDS | | | | | | | |
| Dilution Factor | | | | 1 | 1 | 1 | 1 |
| BENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BROMOBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BROMOCHLOROMETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BROMODICHLOROMETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BROMOFORM | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BROMOMETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 2-BUTANONE | 524.2 | µg/L | 10 | <10 | <10 | <10 | <10 |
| N-BUTYLBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SEC-BUTYLBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| TERT-BUTYLBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| CARBON TETRACHLORIDE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| CHLOROBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| CHLORODIBROMOMETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| CHLOROETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| CHLOROFORM | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | 0.5J | 2.2 |
| CHLOROMETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 2-CHLOROTOLUENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 4-CHLOROTOLUENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2-DIBROMO-3-CHLOROPROPANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2-DIBROMOETHANE (EDB) | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| DIBROMOMETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2-DICHLOROBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,3-DICHLOROBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,4-DICHLOROBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| DICHLORODIFLUOROMETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1-DICHLOROETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2-DICHLOROETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1-DICHLOROETHENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| CIS-1,2-DICHLOROETHENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result | | | |
|---|--------|------|-----|-----------------|--------------|------------|------------|
| | | | | DUPE-2-3-Q03 | EB-3-7-31-03 | MW-20-1 | MW-20-2 |
| | | | | 03-04425-1 | 03-04425-2 | 03-04425-3 | 03-04425-4 |
| TRANS-1,2-DICHLOROETHENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2-DICHLOROPROPANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,3-DICHLOROPROPANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 2,2-DICHLOROPROPANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1-DICHLOROPROPENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| CIS-1,3-DICHLOROPROPENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| TRANS-1,3-DICHLOROPROPENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ETHYLBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HEXACHLOROBUTADIENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ISOPROPYLBENZENE (CUMENE) | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| P-ISOPROPYLTOLUENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| METHYLENE CHLORIDE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| METHYL-T-BUTYL ETHER (MTBE) | 524.2 | µg/L | 1 | <1 | <1 | <1 | <1 |
| 4-METHYL-2-PENTANONE (MIBK) | 524.2 | µg/L | 10 | <10 | <10 | <10 | <10 |
| NAPHTHALENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| N-PROPYLBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| STYRENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1,1,2-TETRACHLOROETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1,2,2-TETRACHLOROETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| TETRACHLOROETHENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| TOLUENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2,3-TRICHLOROBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2,4-TRICHLOROBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1,1-TRICHLOROETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1,2-TRICHLOROETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| TRICHLOROETHENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| TRICHLOROFLUOROMETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2,3-TRICHLOROPROPANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1,2,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2,4-TRIMETHYLBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,3,5-TRIMETHYLBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| VINYL CHLORIDE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| O-XYLENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| M/P-XYLENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result | | | |
|-----------------------------------|--------|------|------|-----------------------|-----------------------|-----------------------|----------------------------|
| | | | | MW-20-3 03-04425-5 | MW-20-4 03-04425-6 | MW-20-5 03-04425-7 | TB-3-7-31-03 03-04425-8 |
| CHROMIUM (VI) | 7196 | mg/L | 0.01 | <0.01 | <0.01 | <0.01 | - |
| Dilution Factor | | | | 1 | 1 | 1 | 1 |
| PERCHLORATE | 314.0 | µg/L | 4 | <4 | <4 | <4 | - |
| VOLATILE ORGANIC COMPOUNDS | | | | | | | |
| Dilution Factor | | | | 1 | 1 | 1 | 1 |
| BENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BROMOBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BROMOCHLOROMETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BROMODICHLOROMETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BROMOFORM | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BROMOMETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 2-BUTANONE | 524.2 | µg/L | 10 | <10 | <10 | <10 | <10 |
| N-BUTYLBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SEC-BUTYLBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| TERT-BUTYLBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| CARBON TETRACHLORIDE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| CHLOROBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| CHLORODIBROMOMETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| CHLOROETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| CHLOROFORM | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| CHLOROMETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 2-CHLOROTOLUENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 4-CHLOROTOLUENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2-DIBROMO-3-CHLOROPROPANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2-DIBROMOETHANE (EDB) | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| DIBROMOMETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2-DICHLOROBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,3-DICHLOROBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,4-DICHLOROBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| DICHLORODIFLUOROMETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1-DICHLOROETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2-DICHLOROETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1-DICHLOROETHENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| CIS-1,2-DICHLOROETHENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| TRANS-1,2-DICHLOROETHENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2-DICHLOROPROPANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,3-DICHLOROPROPANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 2,2-DICHLOROPROPANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1-DICHLOROPROPENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| CIS-1,3-DICHLOROPROPENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| TRANS-1,3-DICHLOROPROPENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result | | | |
|---|--------|------|-----|-----------------|------------|------------|--------------|
| | | | | MW-20-3 | MW-20-4 | MW-20-5 | TB-3-7-31-03 |
| | | | | 03-04425-5 | 03-04425-6 | 03-04425-7 | 03-04425-8 |
| ETHYLBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HEXACHLOROBUTADIENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ISOPROPYLBENZENE (CUMENE) | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| P-ISOPROPYLTOLUENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| METHYLENE CHLORIDE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | 3.1 |
| METHYL-T-BUTYL ETHER (MTBE) | 524.2 | µg/L | 1 | <1 | <1 | <1 | <1 |
| 4-METHYL-2-PENTANONE (MIBK) | 524.2 | µg/L | 10 | <10 | <10 | <10 | 2J |
| NAPHTHALENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| N-PROPYLBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| STYRENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1,1,2-TETRACHLOROETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1,2,2-TETRACHLOROETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| TETRACHLOROETHENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| TOLUENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2,3-TRICHLOROBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2,4-TRICHLOROBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1,1-TRICHLOROETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1,2-TRICHLOROETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| TRICHLOROETHENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| TRICHLOROFLUOROMETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2,3-TRICHLOROPROPANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1,2,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2,4-TRIMETHYLBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,3,5-TRIMETHYLBENZENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| VINYL CHLORIDE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| O-XYLENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| M/P-XYLENE | 524.2 | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit.

"-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,


 Dominic Lau
 Laboratory Director
 Applied P & Ch Laboratory

Level C Data Package Deliverables

General Information

Project: 04-4428.10 JPL

APCL Service ID: 03-4425



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

Case Narrative

Project: JPL/MW-20/04-4428.10

For GEOFON, Inc.

APCL Service No: 03-4425

1. Sample Identification

The sample identifications are listed in the following table:

| GEOFON, Inc. Sample ID | APCL Sample ID |
|------------------------|----------------|
| MW-20-5 | 03-04425-7 |
| MW-20-4 | 03-04425-6 |
| MW-20-3 | 03-04425-5 |
| MW-20-2 | 03-04425-4 |
| MW-20-1 | 03-04425-3 |
| DUPE-2-3-Q03 | 03-04425-1 |
| TB-3-7-31-03 | 03-04425-8 |
| EB-3-7-31-03 | 03-04425-2 |

2. Analytical Methodology

Samples are analyzed by EPA methods
524.2 (Volatile Organic Compounds),
7196 (Chromium (VI)),
314.0 (Perchlorate, low level),

3. Holding Time

All samples were extracted, digested and analyzed within the holding times defined by the appropriate EPA methods of the analyses.

4. Preservation

All samples were preserved and stored according to the appropriate EPA methods.

5. Tele-log

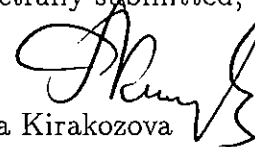
None

6. Anomaly

None

"I certify that these data are technically accurate, complete, and in compliance with the terms and conditions of the contract, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and its electronic data deliverable submitted on diskette had been authorized by the Laboratory Manager or her/his designee, as verified by the following signature."

Respectfully submitted,



Regina Kirakozova
Associate QA/QC Director
Applied P & Ch Laboratory



INCORPORATED
22832 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91785 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

MW-20 0045

| Item | Sample Identifier | Matrix | Date | Time | Preserved | # of Cont. | QC Level | T.A.T | Analyses | | | Comments |
|------|------------------------------------|------------------|---------|------|-----------|------------|----------|-------|--------------|-------------------|---------------------|---------------------------|
| | | | | | | | | | 524.2 (VOCs) | 3140 (Pesticides) | 7186 (Hex Chlorine) | |
| 1 | MW-20-5 | H ₂ O | 7/31/03 | 0832 | 3141 | III | Normal | X | X | X | | |
| 2 | MW-20-4 | | 0935 | | | | | X | X | X | | MS/MSD |
| 3 | MW-20-3 | | 1113 | | | | | X | X | X | | 1125 |
| 4 | MW-20-2 | | 1203 | | | | | X | X | X | | |
| 5 | MW-20-1 | | 1230 | | | | | X | X | X | | 3/4 O+THL bottle 3/4 full |
| 6 | HW-20-1 Dupr-2-3-003 | | 1/38 | | | | | X | X | X | | |
| 7 | TR-3-7-31-03 | | - | | | | | X | X | X | | |
| 8 | EB-3-7-31-03 | | 0819 | | 5 | | | X | X | X | | |
| 9 | | | | | | | | X | X | X | | |
| 10 | | | | | | | | X | X | X | | |

LABORATORY SERVICE ID: _____
LABORATORY CONTACT: Kenny Chan
MAIL REPORT (COMPANY NAME): GEOFFON INC.

LABORATORY PHONE: (909) 570-1828
LABORATORY FAX: (909) 570-1498
LABORATORY ADDRESS: 2632 Golden Springs Dr #270
CITY, STATE AND ZIPCODE: Diamond Bar, CA, 91765

LABORATORY SERVICE ID: _____
LABORATORY CONTACT: Kenny Chan
MAIL REPORT (COMPANY NAME): GEOFFON INC.

LABORATORY PHONE: (909) 570-1828
LABORATORY FAX: (909) 570-1498
LABORATORY ADDRESS: 2632 Golden Springs Dr #270
CITY, STATE AND ZIPCODE: Diamond Bar, CA, 91765

LABORATORY SERVICE ID: _____
LABORATORY CONTACT: Kenny Chan
MAIL REPORT (COMPANY NAME): GEOFFON INC.

REQUISITIONED BY: Leo W. Williamson

RECEIVED BY: S. [Signature]

DATE: 7-31-03
TIME: 1:55

COOLER TEMPERATURE UPON RECEIPT: _____
SAMPLE'S CONDITION UPON RECEIPT: _____

COOLER TEMPERATURE UPON RECEIPT: _____
SAMPLE'S CONDITION UPON RECEIPT: _____

REQUISITIONED BY: Leo W. Williamson

RECEIVED BY: S. [Signature]

DATE: 7-31-03
TIME: 1:55

COOLER TEMPERATURE UPON RECEIPT: _____
SAMPLE'S CONDITION UPON RECEIPT: _____

COOLER TEMPERATURE UPON RECEIPT: _____
SAMPLE'S CONDITION UPON RECEIPT: _____

REQUISITIONED BY: Leo W. Williamson

RECEIVED BY: S. [Signature]

DATE: 7-31-03
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SAMPLE'S CONDITION UPON RECEIPT: _____

COOLER TEMPERATURE UPON RECEIPT: _____
SAMPLE'S CONDITION UPON RECEIPT: _____

REQUISITIONED BY: Leo W. Williamson

RECEIVED BY: S. [Signature]

DATE: 7-31-03
TIME: 1:55

COOLER TEMPERATURE UPON RECEIPT: _____
SAMPLE'S CONDITION UPON RECEIPT: _____

COOLER TEMPERATURE UPON RECEIPT: _____
SAMPLE'S CONDITION UPON RECEIPT: _____

REQUISITIONED BY: Leo W. Williamson

RECEIVED BY: S. [Signature]

DATE: 7-31-03
TIME: 1:55

COOLER TEMPERATURE UPON RECEIPT: _____
SAMPLE'S CONDITION UPON RECEIPT: _____

COOLER TEMPERATURE UPON RECEIPT: _____
SAMPLE'S CONDITION UPON RECEIPT: _____

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Sample Receiving Checklist

APCL Service ID: **1425** Client Name/Project: Golden

1. Sample Arrival

Date/Time Received 7/31/03 1855 Date/Time Opened 7/31/03 1855 By (name): Kenneth Chan
Custody Transfer: Client Golden State UPS US Mail FedEx APCL Empl Scott B.

2. Chain-of-Custody (CoC)

With Samples? Faxed? Client has Copy? Signed, dated? By: _____
 Project ID? Analyses Clear? Hold Samples? #on Hold _____ # Received 8
 CoC/Docs Zip-Locked under lid? Compos.#: _____ #Samples OK?
 Discrepancies? Client notified? Response (attach docs): _____

3. Shipping Container/Cooler

Cooler Used? # of 1 Cooled by: Ice Blue Ice Dry Ice None
Temp °C 3.7
(Cooler temperature measured from temp blank if present, otherwise measured from the cooler).
Cooler Custody Seal? Absent Intact Tampered?

4. Sample Preservation

pH <2 pH >12
If Not, pH = _____ Preserved by: Client APCL Third Party _____

5. Holding-time Requirements

pH 24hr BACT 6/24hr Cr^{VI} 24hr NO₃⁻ 48hr BOD 48hr
 Cl₂ ASAP Turbidity 48hr DO ASAP Fe(II) ASAP
 HT Expired? Client notified?

6. Sample Container Condition

Intact? Broken? Documented? Number: _____
Type: plastic glass Tube: brass/SS Tedlar Bag
 Quantity OK? Leaking? Anomaly?
 Caps tight? Air Bubbles? Anomaly?
Labels: Unique ID? Date/Time Preserved?

7. Turn Around Time

RUSH TAT: _____ Std (7-10 days) Not Marked

8. Sample Matrix

Drinking H₂O Other Liq Soil Wipe Polymer Air Other: _____
 Ground H₂O Sludge Filter Oil/Petro Paint W. Water Extract Unknown

9. Pre-Login Check List Completed & OK?

ALL OK? (if not, attach docs) Client Contact? (Name: _____) Date/Time: _____

Received/Checked by: Kenneth Chan Printed: 31 Jul 2003 7:31 a.m.

*HT: Samples must be analyzed for results to reflect total concentrations. Results generated outside required of holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous.

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Login: Check List

03-04425 (0470_ 158) (2202777_ 158)

08/01/03

Part 1: General Information

- | | | | |
|--------------------------|--------------------------|----------------------|--|
| <input type="checkbox"/> | Company Information | Name: | <i>GEOFON, Inc.</i> |
| | | Address: | <i>22632 Golden Spring Dr Ste 270 ,Diamond Bar ,CA 91765</i> |
| <input type="checkbox"/> | Project Information | Project Description: | <i>JPL</i> |
| | | Project #: | <i>04-4428.10</i> |
| <input type="checkbox"/> | Billing Information | P.O. #: | |
| | | Bill Address: | <i>22632 Golden Spring Dr Ste 270 ,Diamond Bar ,CA 91765</i> |
| | | Lab Project ID: | |
| | | Client Database #: | <i>3</i> |
| <input type="checkbox"/> | Receiving Information | Who Received Sample? | <i>Kenny Chan</i> |
| | | Receiving Date/Time: | <i>07/31/03 1855</i> |
| | | COC No. | |
| <input type="checkbox"/> | Shipping Information | Shipping Company | <i>APCL pick up</i> |
| | | Packing Information: | <i>Cooler/Ice Chester</i> |
| | | Cooler Temperature: | <i>3.7 °C</i> |
| <input type="checkbox"/> | Container Information | Container Provider: | <i>Client</i> |
| <input type="checkbox"/> | Sampling Information | Sampling Person: | |
| | | Sampling Company: | <i>Client</i> |
| <input type="checkbox"/> | Turn-Around-Time Option: | | <i>Rush 5 working day(s)</i> |
| <input type="checkbox"/> | QC Option: | | <i>NEESA C</i> |
| <input type="checkbox"/> | Disposal Option: | | <i>Not specify</i> |
-

Part 2: Sample Information

| Seq. # | Sample ID (on COC) | Sample Sub-ID | APCL Sample ID | Matrix | Cont- tainer | Preser- vative | Vol, ml Am. g | # of Replica | Condition G, L, B | Collected mmddyy | Hold ? | Composite Group | TAT Days | |
|--------|--------------------|---------------|----------------------|--------|--------------|----------------|---------------|--------------|-------------------|------------------|--------|-----------------|----------|--------------------------|
| 1 | MW-20-5 | VOC | 03-04425-7- α | W | V | C | 40 | 3 | G | 073103 | N | 0 | 7 | <input type="checkbox"/> |
| | MW-20-5 | CRVI/Perch | 03-04425-7- β | W | P | | 500 | 1 | G | 073103 | N | 0 | 7 | <input type="checkbox"/> |
| 2 | MW-20-4 | VOC | 03-04425-6- α | W | V | C | 40 | 6 | G | 073103 | N | 0 | 7 | <input type="checkbox"/> |
| | MW-20-4 | CRVI/Perch | 03-04425-6- β | W | P | | 500 | 2 | G | 073103 | N | 0 | 7 | <input type="checkbox"/> |
| 3 | MW-20-3 | VOC | 03-04425-5- α | W | V | C | 40 | 3 | G | 073103 | N | 0 | 7 | <input type="checkbox"/> |
| | MW-20-3 | CRVI/Perch | 03-04425-5- β | W | P | | 500 | 1 | G | 073103 | N | 0 | 7 | <input type="checkbox"/> |
| 4 | MW-20-2 | VOC | 03-04425-4- α | W | V | C | 40 | 3 | G | 073103 | N | 0 | 7 | <input type="checkbox"/> |
| | MW-20-2 | CRVI/Perch | 03-04425-4- β | W | P | | 500 | 1 | G | 073103 | N | 0 | 7 | <input type="checkbox"/> |
| 5 | MW-20-1 | VOC | 03-04425-3- α | W | V | C | 40 | 3 | G | 073103 | N | 0 | 7 | <input type="checkbox"/> |
| | MW-20-1 | CRVI/Perch | 03-04425-3- β | W | P | | 500 | 1 | G | 073103 | N | 0 | 7 | <input type="checkbox"/> |
| 6 | DUPE-2-3-Q03 | VOC | 03-04425-1- α | W | V | C | 40 | 3 | G | 073103 | N | 0 | 7 | <input type="checkbox"/> |
| | DUPE-2-3-Q03 | CRVI/Perch | 03-04425-1- β | W | P | | 500 | 1 | G | 073103 | N | 0 | 7 | <input type="checkbox"/> |
| 7 | TB-3-7-31-03 | VOC | 03-04425-8 | W | V | C | 40 | 3 | G | 073103 | N | 0 | 7 | <input type="checkbox"/> |
| 8 | EB-3-7-31-03 | VOC | 03-04425-2- α | W | V | C | 40 | 3 | G | 073103 | N | 0 | 7 | <input type="checkbox"/> |
| | EB-3-7-31-03 | CRVI/Perch | 03-04425-2- β | W | P | | 500 | 1 | G | 073103 | N | 0 | 7 | <input type="checkbox"/> |

Part 3: Analysis Information

| | | |
|-------------|--|--|
| Test Items: | <input type="checkbox"/> 524.2 | Volatile Organic Compounds |
| | <input type="checkbox"/> 7196A | Chromium (VI) |
| | <input type="checkbox"/> 314.0/300.0 | Perchlorate, low level |
| | <input type="checkbox"/> 300.0 | Chloride Cl ⁻ by IC |
| | <input type="checkbox"/> 300.0 | Sulfate (SO ₄ ⁻), by IC |
| | <input type="checkbox"/> 300.0/SM4500NO ₃ | Nitrate (NO ₃ ⁻) as N by IC |
| | <input type="checkbox"/> SM2320B | Carbonate |
| | <input type="checkbox"/> SM2320B | Bicarbonate |
| | <input type="checkbox"/> 9040B/150.1 | pH |
| | <input type="checkbox"/> 160.1 | Solids, Total Dissolved (TDS) |
| | <input type="checkbox"/> 200.7/6010B | Sodium, Na, by ICP |
| | <input type="checkbox"/> 200.7/6010B | Calcium, Ca, by ICP |
| | <input type="checkbox"/> 200.7/6010B | Potassium, K, by ICP |
| | <input type="checkbox"/> 200.7/6010B | Magnesium, Mg, by ICP |
| | <input type="checkbox"/> 200.7/6010B | Iron, Fe, by ICP |
| | <input type="checkbox"/> 206.2/7060A | Arsenic, As, by GFAA |
| | <input type="checkbox"/> 8270-SIM | 1,4-Dioxane |

Level C Data Package Deliverables

Volatile Organics



Applied P & Ch Laboratory

Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

| | | |
|---------------------------|------------------------------|-----------------------------|
| Client Name: GEOFON, Inc. | Project No: 04-4428.10 | Collection Date: 08/07/2003 |
| Project ID: JPL | Service ID: 34425 | Collected by: |
| Sample ID: 03G3595-MB-01 | Lab Sample ID: 03G3595-MB-01 | Received Date: 08/07/2003 |
| Sample Type: Method Blank | Sample Matrix: Water | Moisture %: - |
| Anal. Method: 524.2 | Prep. Method: 5030 | Instrument ID: GC/MS: A |
| Batch No: 03G3595 | Prep. Date: 08/07/03 | Anal. Date: 08/07/03 |
| Data File Name: G3595K01 | Prep. No: - | Anal. Time: 13:17 |
| Methanol Vol: - | Sample Amount: 25.0 mL | Dilution Factor: 1 |
| Test Level: Low | Sparge Size: 25 mL | Heated Purge: (Y/N) N |

| # | Component Name | CAS No | Unit | RL | Result | Qualifier |
|----|-----------------------------|------------|------|-----|--------|-----------|
| 1 | BENZENE | 71-43-2 | µg/L | 0.5 | <0.5 | U |
| 2 | BROMOBENZENE | 108-86-1 | µg/L | 0.5 | <0.5 | U |
| 3 | BROMOCHLOROMETHANE | 74-97-5 | µg/L | 0.5 | <0.5 | U |
| 4 | BROMODICHLOROMETHANE | 75-27-4 | µg/L | 0.5 | <0.5 | U |
| 5 | BROMOFORM | 75-25-2 | µg/L | 0.5 | <0.5 | U |
| 6 | BROMOMETHANE | 74-83-9 | µg/L | 0.5 | <0.5 | U |
| 7 | 2-BUTANONE | 78-93-3 | µg/L | 10 | <10 | U |
| 8 | N-BUTYLBENZENE | 104-51-8 | µg/L | 0.5 | <0.5 | U |
| 9 | SEC-BUTYLBENZENE | 135-98-8 | µg/L | 0.5 | <0.5 | U |
| 10 | TERT-BUTYLBENZENE | 98-06-6 | µg/L | 0.5 | <0.5 | U |
| 11 | CARBON TETRACHLORIDE | 56-23-5 | µg/L | 0.5 | <0.5 | U |
| 12 | CHLOROBENZENE | 108-90-7 | µg/L | 0.5 | <0.5 | U |
| 13 | CHLORODIBROMOMETHANE | 124-48-1 | µg/L | 0.5 | <0.5 | U |
| 14 | CHLOROETHANE | 75-00-3 | µg/L | 0.5 | <0.5 | U |
| 15 | CHLOROFORM | 67-66-3 | µg/L | 0.5 | <0.5 | U |
| 16 | CHLOROMETHANE | 74-87-3 | µg/L | 0.5 | <0.5 | U |
| 17 | 2-CHLOROTOLUENE | 95-49-8 | µg/L | 0.5 | <0.5 | U |
| 18 | 4-CHLOROTOLUENE | 106-43-4 | µg/L | 0.5 | <0.5 | U |
| 19 | 1,2-DIBROMO-3-CHLOROPROPANE | 96-12-8 | µg/L | 0.5 | <0.5 | U |
| 20 | 1,2-DIBROMOETHANE (EDB) | 106-93-4 | µg/L | 0.5 | <0.5 | U |
| 21 | DIBROMOMETHANE | 74-95-3 | µg/L | 0.5 | <0.5 | U |
| 22 | 1,2-DICHLOROBENZENE | 95-50-1 | µg/L | 0.5 | <0.5 | U |
| 23 | 1,3-DICHLOROBENZENE | 541-73-1 | µg/L | 0.5 | <0.5 | U |
| 24 | 1,4-DICHLOROBENZENE | 106-46-7 | µg/L | 0.5 | <0.5 | U |
| 25 | DICHLORODIFLUOROMETHANE | 75-71-8 | µg/L | 0.5 | <0.5 | U |
| 26 | 1,1-DICHLOROETHANE | 75-34-3 | µg/L | 0.5 | <0.5 | U |
| 27 | 1,2-DICHLOROETHANE | 107-06-2 | µg/L | 0.5 | <0.5 | U |
| 28 | 1,1-DICHLOROETHENE | 75-35-4 | µg/L | 0.5 | <0.5 | U |
| 29 | CIS-1,2-DICHLOROETHENE | 156-59-2 | µg/L | 0.5 | <0.5 | U |
| 30 | TRANS-1,2-DICHLOROETHENE | 156-60-5 | µg/L | 0.5 | <0.5 | U |
| 31 | 1,2-DICHLOROPROPANE | 78-87-5 | µg/L | 0.5 | <0.5 | U |
| 32 | 1,3-DICHLOROPROPANE | 142-28-9 | µg/L | 0.5 | <0.5 | U |
| 33 | 2,2-DICHLOROPROPANE | 594-20-7 | µg/L | 0.5 | <0.5 | U |
| 34 | 1,1-DICHLOROPROPENE | 563-58-6 | µg/L | 0.5 | <0.5 | U |
| 35 | CIS-1,3-DICHLOROPROPENE | 10061-01-5 | µg/L | 0.5 | <0.5 | U |
| 36 | TRANS-1,3-DICHLOROPROPENE | 10061-02-6 | µg/L | 0.5 | <0.5 | U |
| 37 | ETHYLBENZENE | 100-41-4 | µg/L | 0.5 | <0.5 | U |
| 38 | HEXACHLOROBUTADIENE | 87-68-3 | µg/L | 0.5 | <0.5 | U |
| 39 | ISOPROPYLBENZENE (CUMENE) | 98-82-8 | µg/L | 0.5 | <0.5 | U |

| # | Component Name | CAS No | Unit | RL | Result | Qualifier |
|--------------------------|-----------------------------|------------|------|-------------------------|---------------------|-----------|
| 40 | P-ISOPROPYLTOLUENE | 99-87-6 | µg/L | 0.5 | <0.5 | U |
| 41 | METHYLENE CHLORIDE | 75-09-2 | µg/L | 0.5 | <0.5 | U |
| 42 | METHYL-T-BUTYL ETHER (MTBE) | 1634-04-4 | µg/L | 1 | <1 | U |
| 43 | 4-METHYL-2-PENTANONE (MIBK) | 108-10-1 | µg/L | 10 | <10 | U |
| 44 | NAPHTHALENE | 91-20-3 | µg/L | 0.5 | <0.5 | U |
| 45 | N-PROPYLBENZENE | 103-65-1 | µg/L | 0.5 | <0.5 | U |
| 46 | STYRENE | 100-42-5 | µg/L | 0.5 | <0.5 | U |
| 47 | 1,1,1,2-TETRACHLOROETHANE | 630-20-6 | µg/L | 0.5 | <0.5 | U |
| 48 | 1,1,2,2-TETRACHLOROETHANE | 79-34-5 | µg/L | 0.5 | <0.5 | U |
| 49 | TETRACHLOROETHENE | 127-18-4 | µg/L | 0.5 | <0.5 | U |
| 50 | TOLUENE | 108-88-3 | µg/L | 0.5 | <0.5 | U |
| 51 | 1,2,3-TRICHLOROBENZENE | 87-61-6 | µg/L | 0.5 | <0.5 | U |
| 52 | 1,2,4-TRICHLOROBENZENE | 120-82-1 | µg/L | 0.5 | <0.5 | U |
| 53 | 1,1,1-TRICHLOROETHANE | 71-55-6 | µg/L | 0.5 | <0.5 | U |
| 54 | 1,1,2-TRICHLOROETHANE | 79-00-5 | µg/L | 0.5 | <0.5 | U |
| 55 | TRICHLOROETHENE | 79-01-6 | µg/L | 0.5 | <0.5 | U |
| 56 | TRICHLOROFLUOROMETHANE | 75-69-4 | µg/L | 0.5 | <0.5 | U |
| 57 | 1,2,3-TRICHLOROPROPANE | 96-18-4 | µg/L | 0.5 | <0.5 | U |
| 58 | 1,1,2,2-TETRACHLOROETHANE | 76-13-1 | µg/L | 0.5 | <0.5 | U |
| 59 | 1,2,4-TRIMETHYLBENZENE | 95-63-6 | µg/L | 0.5 | <0.5 | U |
| 60 | 1,3,5-TRIMETHYLBENZENE | 108-67-8 | µg/L | 0.5 | <0.5 | U |
| 61 | VINYL CHLORIDE | 75-01-4 | µg/L | 0.5 | <0.5 | U |
| 62 | O-XYLENE | 95-47-6 | µg/L | 0.5 | <0.5 | U |
| 63 | M/P-XYLENE | 108-38-3 | µg/L | 0.5 | <0.5 | U |
| Surrogates | | | | Control Limit, % | Surro. Rec.% | |
| 1 | 4-BROMO-FLUOROBENZENE (BFB) | 460-00-4 | | 70-129 | 96 | |
| 2 | 1,2-DICHLOROETHANE-D4 | 17060-07-0 | | 70-129 | 110 | |
| 3 | DIBROMOFLUOROMETHANE | 1868-53-7 | | 70-122 | 105 | |
| 4 | TOLUENE-D8 | 2037-26-5 | | 73-129 | 98 | |
| # of out-of-control | | | | | 0 | |
| Internal Standard | | | | Control Limit, % | IS Rec.% | |
| 1 | CHLOROBENZENE-D5 | 3114-55-4 | | 50-200 | 98 | |
| 2 | 1,4-DICHLOROETHANE-D4 | 3855-82-1 | | 50-200 | 96 | |
| 3 | FLUOROBENZENE | 462-06-6 | | 50-200 | 94 | |
| # of out-of-control | | | | | 0 | |

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

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank
D - Diluted

Data Filename: C:\MSDCHEM\1\DATA\03G3595\G3595K01.D Sample : f=1
 Method : C:\MSDCHEM\1\METHODS\E524A002.M Inst. : GCMS-A
 Acq. Time : Aug 7 13:17 2003 RF via : Multiple Level Calibration
 Method Update: Thu Jul 24 12:40 2003 Operator: zou
 Quant. Time : Aug 08 13:12 2003 Multiplr: 1.000000
 Print Time : Fri Aug 08 13:12 2003
 Miscellaneous :

| ID | Component Name | R.T. | RT0 | DRRT | Qion | Q1 | RF/1000 | C0,ppb | C,ppb | Quality | Note |
|--------------------|-------------------|-------|-------|-------|------|-----|---------|--------|-------|---------|------|
| Internal Standards | | | | | | | | | | | |
| 1 | Fluorobenzene | 7.65 | 7.63 | 0.003 | 96 | 70 | 719.160 | 10.00 | | 0.02 | |
| 47 | Chlorobenzene-d5 | 11.55 | 11.54 | 0.000 | 117 | 82 | 584.637 | 10.00 | | 0.00 | |
| 62 | 1,4-Dichlorobenze | 13.84 | 13.84 | 0.000 | 152 | 150 | 301.712 | 10.00 | | 0.00 | |

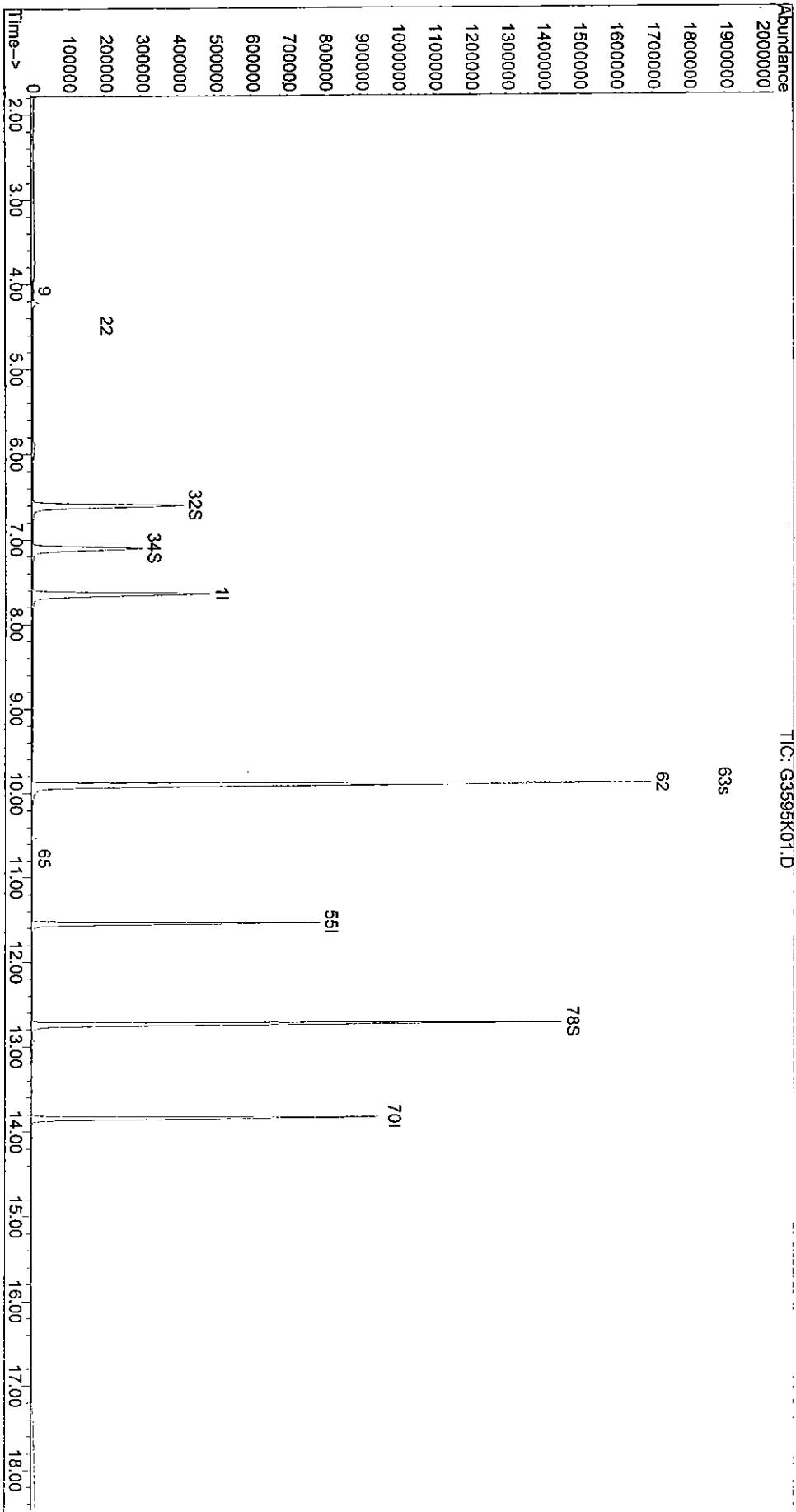
| System Monitoring Compounds (Surrogate) | | | | | | | | | | | |
|---|-------------------|-------|-------|-------|-----|-----|----------|-------|--|------|---------|
| 27 | Di-Br-F-Me (surr) | 6.60 | 6.58 | 0.002 | 111 | 113 | 376.521 | 21.01 | | 21.0 | 105.04% |
| 29 | 1,2-Di-Cl-Et-d4 (| 7.11 | 7.08 | 0.002 | 65 | 102 | 319.939 | 22.04 | | 22.0 | 140.21% |
| 55 | toluene-d8 | 9.91 | 9.89 | 0.000 | 98 | 100 | 1433.527 | 19.46 | | 19.5 | 97.28% |
| 70 | 4-Br-1-F-Bz (S3) | 12.74 | 12.74 | 0.000 | 174 | 95 | 478.479 | 19.17 | | 19.2 | 95.87% |

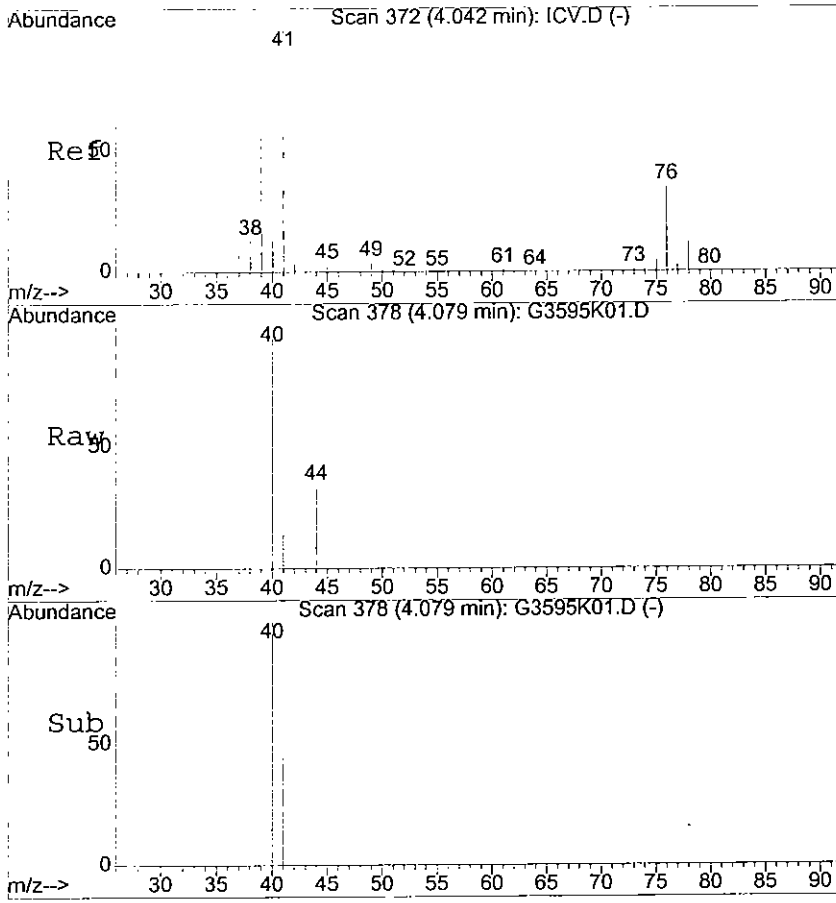
| Target Compounds | | | | | | | | | | | |
|---------------------------|-------------------|-------|-------|-------|----|----|-------|-------|--|------|-----|
| <<< I1 : ISTD ID = 1 >>> | | | | | | | | | | | |
| 91 | Acetonitrile X10 | 4.08 | 4.04 | 0.005 | 41 | 40 | 1.150 | 0.36 | | 0.4 | 6 |
| 95 | Tert butyl alcoho | 4.48 | 4.47 | 0.002 | 59 | 57 | 0.101 | 24.27 | | 24.3 | 100 |
| <<< I2 : ISTD ID = 47 >>> | | | | | | | | | | | |
| 54 | MIBK | 9.91 | 9.76 | 0.013 | 43 | 58 | 4.438 | 0.52 | | 0.5 | 1 |
| 57 | 2-hexanone X5 | 10.77 | 10.75 | 0.002 | 43 | 58 | 2.469 | 0.43 | | 0.4 | 89 |

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Data Filename: C:\MSDCHEM\1\DATA\03G3595K01.D
Method : C:\MSDCHEM\1\METHODS\E524A002.M
Acq. Time : Aug 7 13:17 2003
Method Update: Thu Jul 24 12:40 2003
Quant. Time : Aug 08 13:12 2003
Print Time : Fri Aug 08 13:12 2003
Miscellaneous :

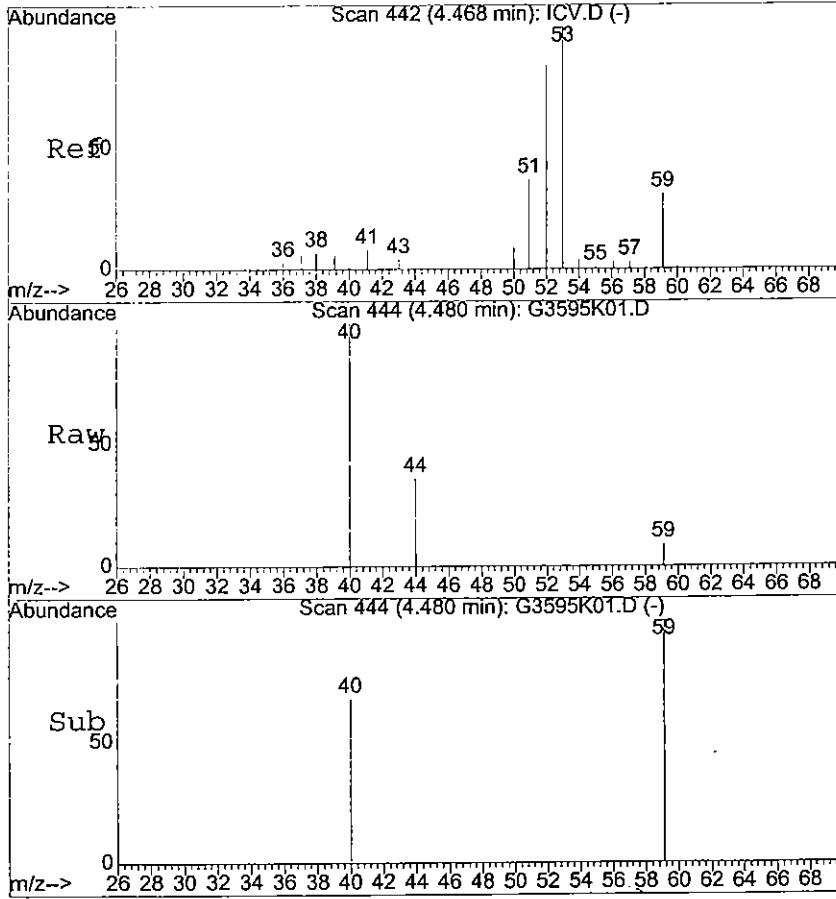
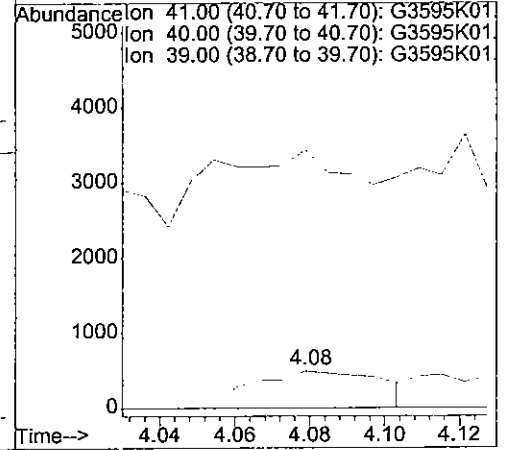
Sample : f=1
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplier: 1.000000





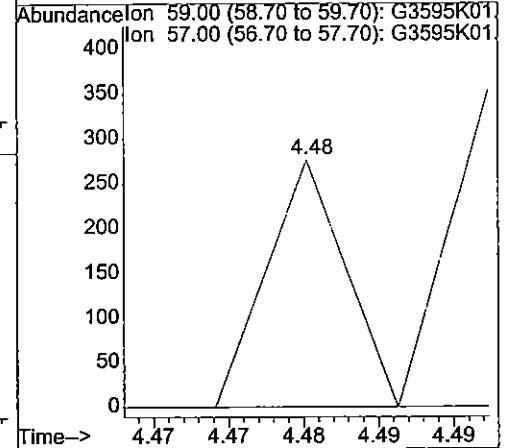
#9
 91 Acetonitrile X10
 Concen: 0.36 ppb
 RT: 4.08 min Scan# 378
 Delta R.T. 0.04 min
 Lab File: G3595K01.D
 Acq: 7 Aug 2003 1:17 pm

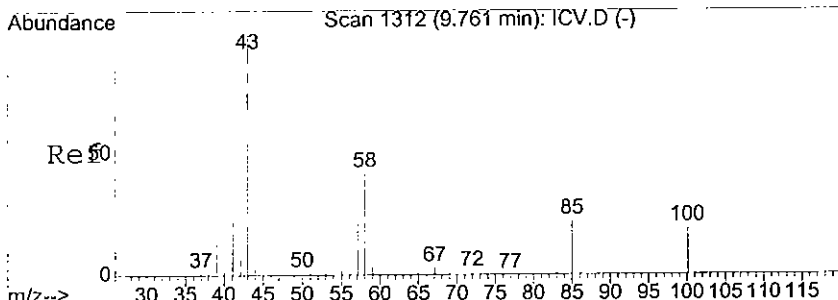
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 41 | 1150 | | |
| 40 | 74.7 | 0.0 | 33.0# |
| 39 | 0.0 | 44.6 | 84.6# |
| 0 | 0.0 | 0.0 | 0.0 |



#22
 95 Tert butyl alcoholx10
 Concen: 24.27 ppb
 RT: 4.48 min Scan# 444
 Delta R.T. 0.01 min
 Lab File: G3595K01.D
 Acq: 7 Aug 2003 1:17 pm

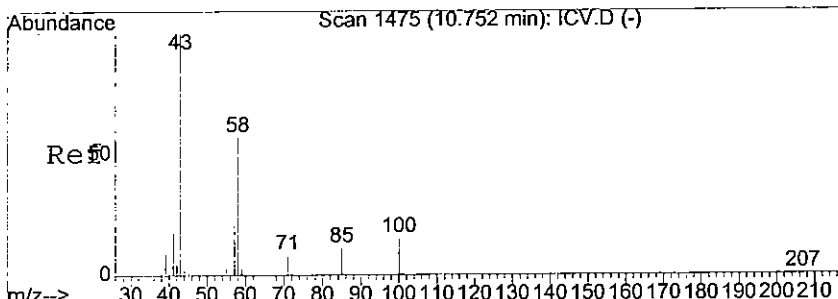
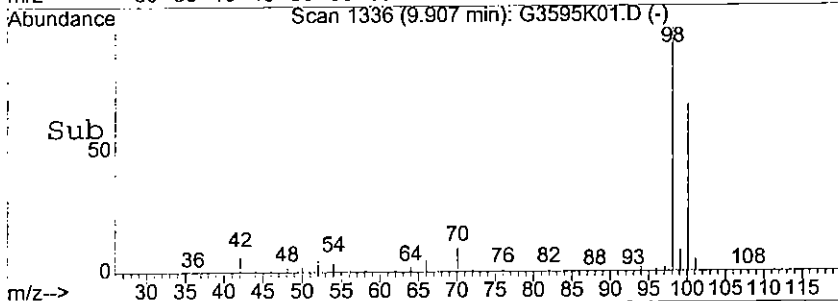
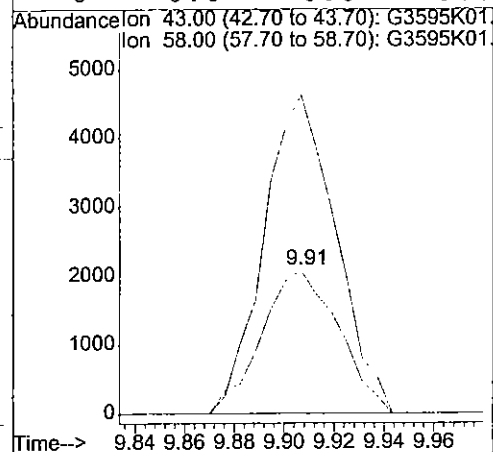
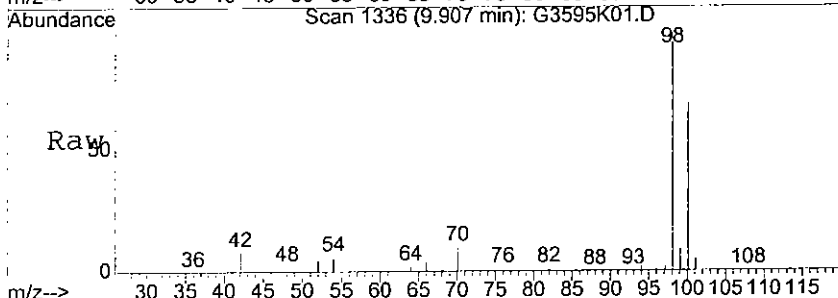
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 59 | 101 | | |
| 57 | 0.0 | 0.0 | 0.0 |
| 0 | 0.0 | 0.0 | 0.0 |
| 0 | 0.0 | 0.0 | 0.0 |





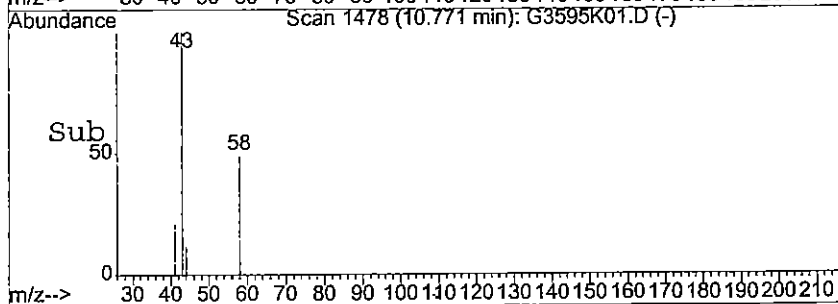
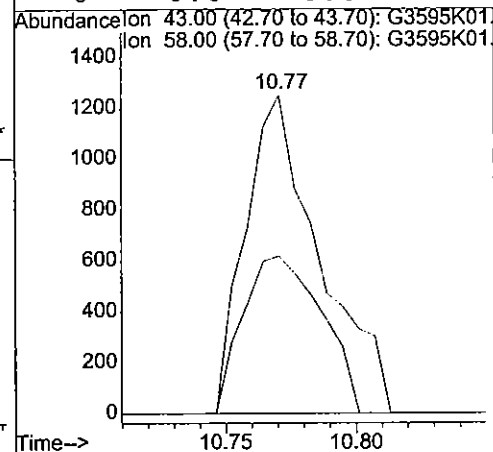
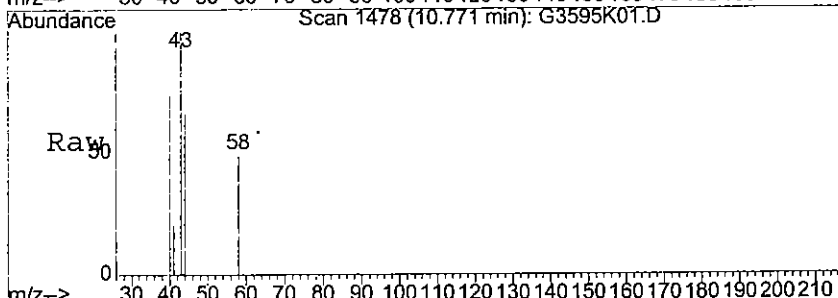
#62
 54 MIBK
 Concen: 0.52 ppb
 RT: 9.91 min Scan# 1336
 Delta R.T. 0.15 min
 Lab File: G3595K01.D
 Acq: 7 Aug 2003 1:17 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 43 | 4438 | | |
| 58 | 222.8 | 20.1 | 60.1# |
| 0 | 0.0 | 0.0 | 0.0 |
| 0 | 0.0 | 0.0 | 0.0 |



#65
 57 2-hexanone X5
 Concen: 0.43 ppb
 RT: 10.77 min Scan# 1478
 Delta R.T. 0.02 min
 Lab File: G3595K01.D
 Acq: 7 Aug 2003 1:17 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 2469 | | |
| 58 | 49.4 | 38.4 | 78.4 |
| 0 | 0.0 | 0.0 | 0.0 |
| 0 | 0.0 | 0.0 | 0.0 |



Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

| | | |
|--------------------------------|--------------------------|-----------------------------|
| Client Name: GEOFON, Inc. | Project No: 04-4428.10 | Collection Date: 07/31/2003 |
| Project ID: JPL | Service ID: 34425 | Collected by: |
| Sample ID: DUPE-2-3-Q03 | Lab Sample ID: 03-4425-1 | Received Date: 07/31/2003 |
| Sample Type: Field Sample | Sample Matrix: Water | Moisture %: - |
| Anal. Method: 524.2 | Prep. Method: 5030 | Instrument ID: GC/MS: A |
| Batch No: 03G3595 | Prep. Date: 08/07/03 | Anal. Date: 08/07/03 |
| Data File Name: 4425-01 | Prep. No: - | Anal. Time: 16:49 |
| Methanol Vol: - | Sample Amount: 25.0 mL | Dilution Factor: 1 |
| Test Level: Low | Sparge Size: 25 mL | Heated Purge: (Y/N) N |

| # | Component Name | CAS No | Unit | RL | Result | Qualifier |
|----|-----------------------------|------------|------|-----|--------|-----------|
| 1 | BENZENE | 71-43-2 | µg/L | 0.5 | <0.5 | U |
| 2 | BROMOBENZENE | 108-86-1 | µg/L | 0.5 | <0.5 | U |
| 3 | BROMOCHLOROMETHANE | 74-97-5 | µg/L | 0.5 | <0.5 | U |
| 4 | BROMODICHLOROMETHANE | 75-27-4 | µg/L | 0.5 | <0.5 | U |
| 5 | BROMOFORM | 75-25-2 | µg/L | 0.5 | <0.5 | U |
| 6 | BROMOMETHANE | 74-83-9 | µg/L | 0.5 | <0.5 | U |
| 7 | 2-BUTANONE | 78-93-3 | µg/L | 10 | <10 | U |
| 8 | N-BUTYLBENZENE | 104-51-8 | µg/L | 0.5 | <0.5 | U |
| 9 | SEC-BUTYLBENZENE | 135-98-8 | µg/L | 0.5 | <0.5 | U |
| 10 | TERT-BUTYLBENZENE | 98-06-6 | µg/L | 0.5 | <0.5 | U |
| 11 | CARBON TETRACHLORIDE | 56-23-5 | µg/L | 0.5 | <0.5 | U |
| 12 | CHLOROBENZENE | 108-90-7 | µg/L | 0.5 | <0.5 | U |
| 13 | CHLORODIBROMOMETHANE | 124-48-1 | µg/L | 0.5 | <0.5 | U |
| 14 | CHLOROETHANE | 75-00-3 | µg/L | 0.5 | <0.5 | U |
| 15 | CHLOROFORM | 67-66-3 | µg/L | 0.5 | <0.5 | U |
| 16 | CHLOROMETHANE | 74-87-3 | µg/L | 0.5 | <0.5 | U |
| 17 | 2-CHLOROTOLUENE | 95-49-8 | µg/L | 0.5 | <0.5 | U |
| 18 | 4-CHLOROTOLUENE | 106-43-4 | µg/L | 0.5 | <0.5 | U |
| 19 | 1,2-DIBROMO-3-CHLOROPROPANE | 96-12-8 | µg/L | 0.5 | <0.5 | U |
| 20 | 1,2-DIBROMOETHANE (EDB) | 106-93-4 | µg/L | 0.5 | <0.5 | U |
| 21 | DIBROMOMETHANE | 74-95-3 | µg/L | 0.5 | <0.5 | U |
| 22 | 1,2-DICHLOROETHANE | 95-50-1 | µg/L | 0.5 | <0.5 | U |
| 23 | 1,3-DICHLOROETHANE | 541-73-1 | µg/L | 0.5 | <0.5 | U |
| 24 | 1,4-DICHLOROETHANE | 106-46-7 | µg/L | 0.5 | <0.5 | U |
| 25 | DICHLORODIFLUOROMETHANE | 75-71-8 | µg/L | 0.5 | <0.5 | U |
| 26 | 1,1-DICHLOROETHANE | 75-34-3 | µg/L | 0.5 | <0.5 | U |
| 27 | 1,2-DICHLOROETHANE | 107-06-2 | µg/L | 0.5 | <0.5 | U |
| 28 | 1,1-DICHLOROETHENE | 75-35-4 | µg/L | 0.5 | <0.5 | U |
| 29 | CIS-1,2-DICHLOROETHENE | 156-59-2 | µg/L | 0.5 | <0.5 | U |
| 30 | TRANS-1,2-DICHLOROETHENE | 156-60-5 | µg/L | 0.5 | <0.5 | U |
| 31 | 1,2-DICHLOROPROPANE | 78-87-5 | µg/L | 0.5 | <0.5 | U |
| 32 | 1,3-DICHLOROPROPANE | 142-28-9 | µg/L | 0.5 | <0.5 | U |
| 33 | 2,2-DICHLOROPROPANE | 594-20-7 | µg/L | 0.5 | <0.5 | U |
| 34 | 1,1-DICHLOROPROPENE | 563-58-6 | µg/L | 0.5 | <0.5 | U |
| 35 | CIS-1,3-DICHLOROPROPENE | 10061-01-5 | µg/L | 0.5 | <0.5 | U |
| 36 | TRANS-1,3-DICHLOROPROPENE | 10061-02-6 | µg/L | 0.5 | <0.5 | U |
| 37 | ETHYLBENZENE | 100-41-4 | µg/L | 0.5 | <0.5 | U |
| 38 | HEXACHLOROBUTADIENE | 87-68-3 | µg/L | 0.5 | <0.5 | U |
| 39 | ISOPROPYLBENZENE (CUMENE) | 98-82-8 | µg/L | 0.5 | <0.5 | U |

| # | Component Name | CAS No | Unit | RL | Result | Qualifier |
|--------------------------|-------------------------------------|------------|------|-------------------------|---------------------|-----------|
| 40 | P-ISOPROPYLTOLUENE | 99-87-6 | µg/L | 0.5 | <0.5 | U |
| 41 | METHYLENE CHLORIDE | 75-09-2 | µg/L | 0.5 | <0.5 | U |
| 42 | METHYL-T-BUTYL ETHER (MTBE) | 1634-04-4 | µg/L | 1 | <1 | U |
| 43 | 4-METHYL-2-PENTANONE (MIBK) | 108-10-1 | µg/L | 10 | <10 | U |
| 44 | NAPHTHALENE | 91-20-3 | µg/L | 0.5 | <0.5 | U |
| 45 | N-PROPYLBENZENE | 103-65-1 | µg/L | 0.5 | <0.5 | U |
| 46 | STYRENE | 100-42-5 | µg/L | 0.5 | <0.5 | U |
| 47 | 1,1,1,2-TETRACHLOROETHANE | 630-20-6 | µg/L | 0.5 | <0.5 | U |
| 48 | 1,1,2,2-TETRACHLOROETHANE | 79-34-5 | µg/L | 0.5 | <0.5 | U |
| 49 | TETRACHLOROETHENE | 127-18-4 | µg/L | 0.5 | <0.5 | U |
| 50 | TOLUENE | 108-88-3 | µg/L | 0.5 | <0.5 | U |
| 51 | 1,2,3-TRICHLOROENZENE | 87-61-6 | µg/L | 0.5 | <0.5 | U |
| 52 | 1,2,4-TRICHLOROENZENE | 120-82-1 | µg/L | 0.5 | <0.5 | U |
| 53 | 1,1,1-TRICHLOROETHANE | 71-55-6 | µg/L | 0.5 | <0.5 | U |
| 54 | 1,1,2-TRICHLOROETHANE | 79-00-5 | µg/L | 0.5 | <0.5 | U |
| 55 | TRICHLOROETHENE | 79-01-6 | µg/L | 0.5 | <0.5 | U |
| 56 | TRICHLOROFLUOROMETHANE | 75-69-4 | µg/L | 0.5 | <0.5 | U |
| 57 | 1,2,3-TRICHLOROPROPANE | 96-18-4 | µg/L | 0.5 | <0.5 | U |
| 58 | 112TRICHLORO-122TRIFLUOROETHANE | 76-13-1 | µg/L | 0.5 | <0.5 | U |
| 59 | 1,2,4-TRIMETHYLBENZENE | 95-63-6 | µg/L | 0.5 | <0.5 | U |
| 60 | 1,3,5-TRIMETHYLBENZENE | 108-67-8 | µg/L | 0.5 | <0.5 | U |
| 61 | VINYL CHLORIDE | 75-01-4 | µg/L | 0.5 | <0.5 | U |
| 62 | O-XYLENE | 95-47-6 | µg/L | 0.5 | <0.5 | U |
| 63 | M/P-XYLENE | 108-38-3 | µg/L | 0.5 | <0.5 | U |
| Surrogates | | | | Control Limit, % | Surro. Rec.% | |
| 1 | 1-BROMO-4-FLUOROBENZENE (4-BROMOFL) | 460-00-4 | | 70-129 | 96 | |
| 2 | 1,2-DICHLOROETHANE-D4 | 17060-07-0 | | 70-129 | 112 | |
| 3 | DIBROMOFLUOROMETHANE | 1868-53-7 | | 70-122 | 109 | |
| 4 | TOLUENE-D8 | 2037-26-5 | | 73-129 | 99 | |
| # of out-of-control | | | | | 0 | |
| Internal Standard | | | | Control Limit, % | IS Rec.% | |
| 1 | CHLOROENZENE-D5 | 3114-55-4 | | 50-200 | 94 | |
| 2 | 1,4-DICHLOROENZENE-D4 | 3855-82-1 | | 50-200 | 95 | |
| 3 | FLUOROENZENE | 462-06-6 | | 50-200 | 91 | |
| # of out-of-control | | | | | 0 | |

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

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank
D - Diluted

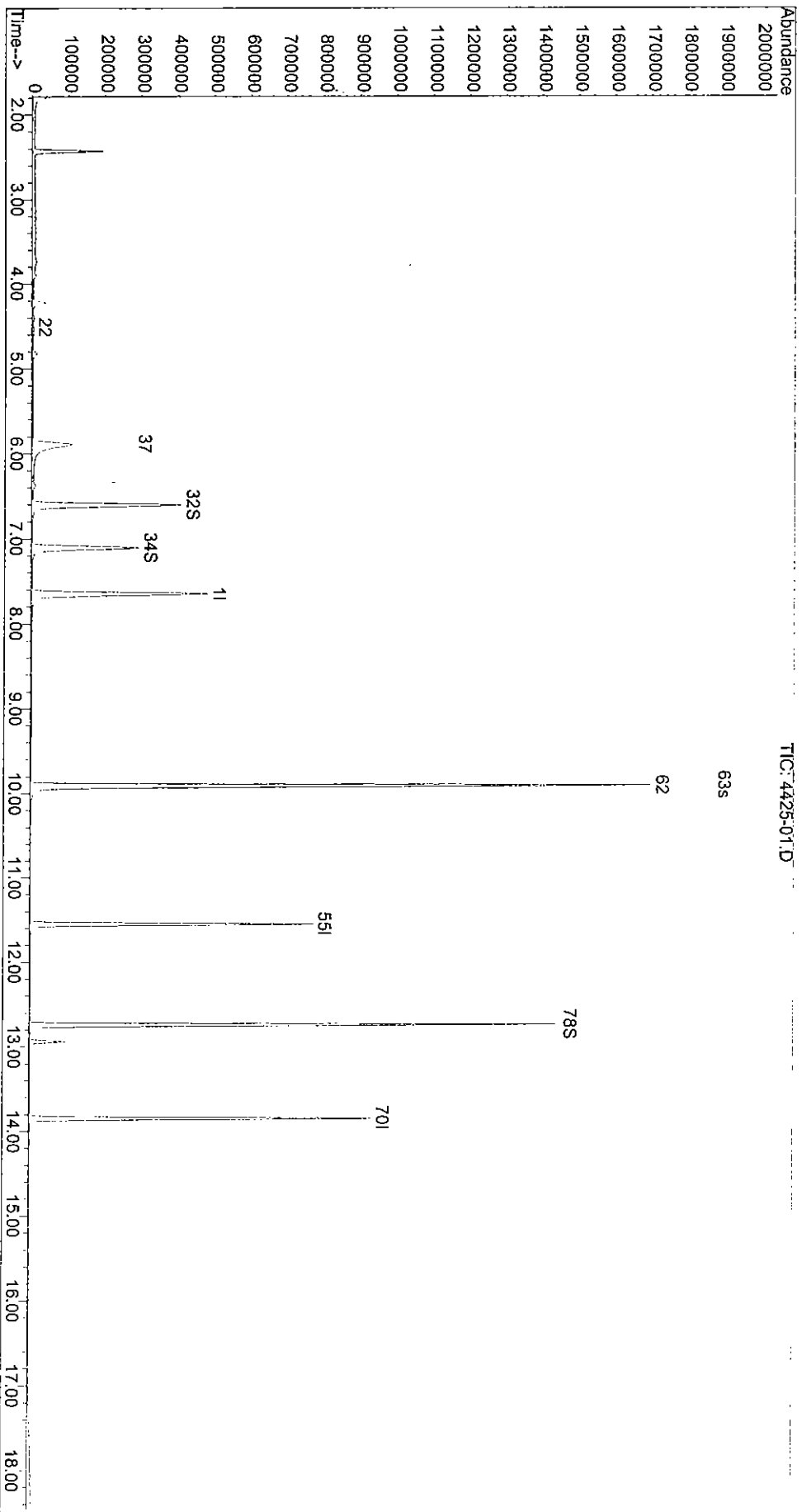
Data Filename: C:\MSDCHEM\1\DATA\03G3595\4425-01.D Sample : f=1 dup
 Method : C:\MSDCHEM\1\METHODS\E524A002.M Inst. : GCMS-A
 Acq. Time : Aug 7 16:49 2003 RF via : Multiple Level Calibration
 Method Update: Thu Jul 24 12:40 2003 Operator: zou
 Quant. Time : Aug 08 11:34 2003 Multiplr: 1.000000
 Print Time : Fri Aug 08 11:34 2003
 Miscellaneous :

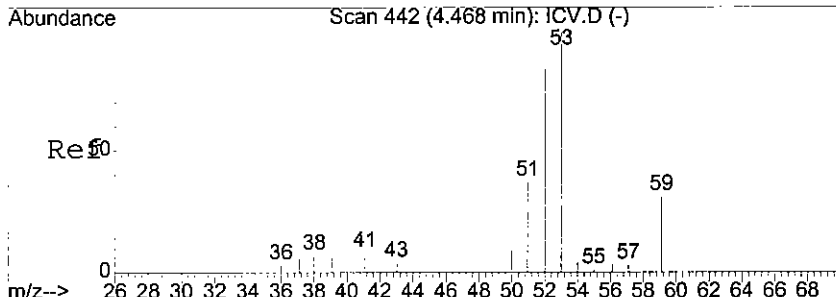
41012

| ID | Component Name | R.T. | RT0 | DRRT | QION | Q1 | RF/1000 | C0,ppb | C,ppb | Quality | Note |
|---|-------------------|-------|-------|-------|------|-----|----------|--------|-------|---------|---------|
| Internal Standards | | | | | | | | | | | |
| 1 | Fluorobenzene | 7.65 | 7.63 | 0.003 | 96 | 70 | 694.166 | 10.00 | | 0.02 | |
| 47 | Chlorobezene-d5 | 11.55 | 11.54 | 0.000 | 117 | 82 | 563.772 | 10.00 | | 0.00 | |
| 62 | 1,4-Dichlorobenze | 13.85 | 13.84 | 0.000 | 152 | 150 | 296.621 | 10.00 | | 0.00 | |
| System Monitoring Compounds (Surrogate) | | | | | | | | | | | |
| 27 | Di-Br-F-Me (surr) | 6.60 | 6.58 | 0.002 | 111 | 113 | 375.583 | 21.71 | | 21.7 | 108.55% |
| 29 | 1,2-Di-Cl-Et-d4 (| 7.11 | 7.08 | 0.002 | 65 | 102 | 313.800 | 22.40 | | 22.4 | 111.98% |
| 55 | toluene-d8 | 9.91 | 9.89 | 0.000 | 98 | 100 | 1397.217 | 19.66 | | 19.7 | 98.32% |
| 70 | 4-Br-1-F-Bz (S3) | 12.74 | 12.74 | 0.000 | 174 | 95 | 469.795 | 19.15 | | 19.1 | 95.74% |
| Target Compounds | | | | | | | | | | | |
| <<< | I1 : ISTD ID = 1 | >>> | | | | | | | | | Qvalue |
| 95 | Tert butyl alcoho | 4.50 | 4.47 | 0.005 | 59 | 57 | 0.326 | 24.51 | | 24.5 | 100 |
| 92 | Nitro Methane(x10 | 5.89 | 5.80 | 0.011 | 61 | 46 | 4.543 | 11.78 | | 11.8 | 33 |
| <<< | I2 : ISTD ID = 47 | >>> | | | | | | | | | |
| 54 | MIBK | 9.91 | 9.76 | 0.013 | 43 | 58 | 3.948 | 0.48 | | 0.5 | 1 |

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

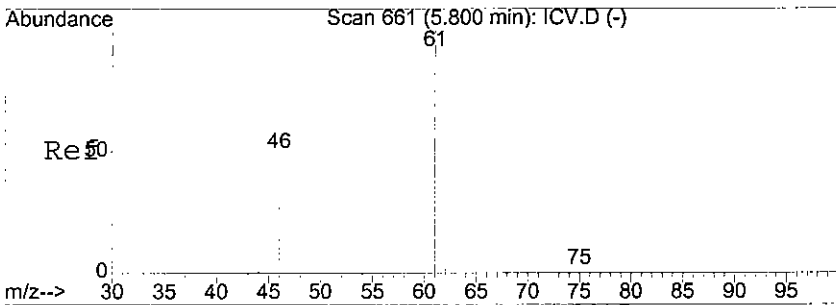
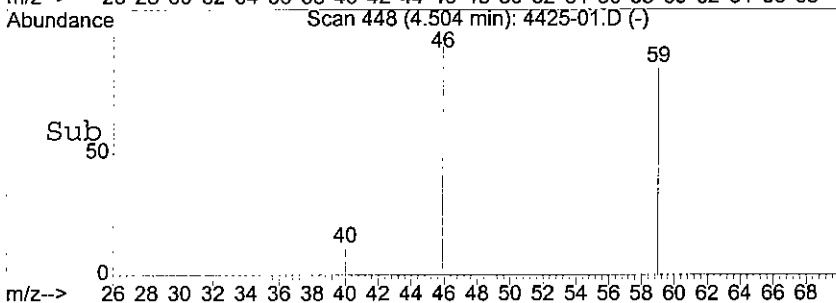
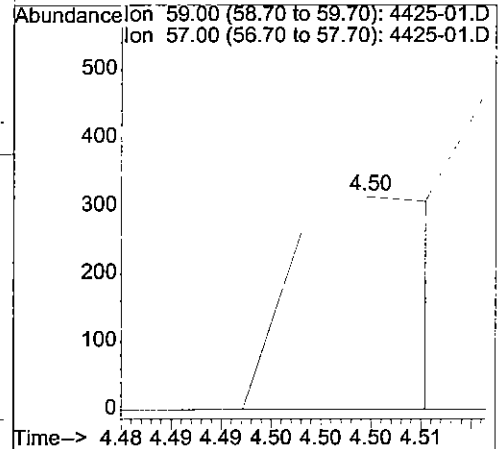
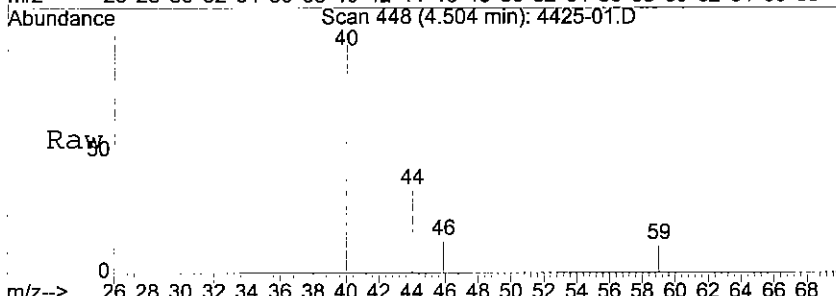
Data Filename: C:\MSDCHEM\1\DATA\03G3595\4425-01.D Sample : f=1 dup
 Method : C:\MSDCHEM\1\METHODS\E524A002.M Inst. : GCMS-A
 Acq. Time : Aug 7 16:49 2003 RF via : Multiple Level Calibration
 Method Update: Thu Jul 24 12:40 2003 Operator: zou
 Quant. Time : Aug 08 11:34 2003 Multiplr: 1.000000
 Print Time : Fri Aug 08 11:34 2003
 Miscellaneous :





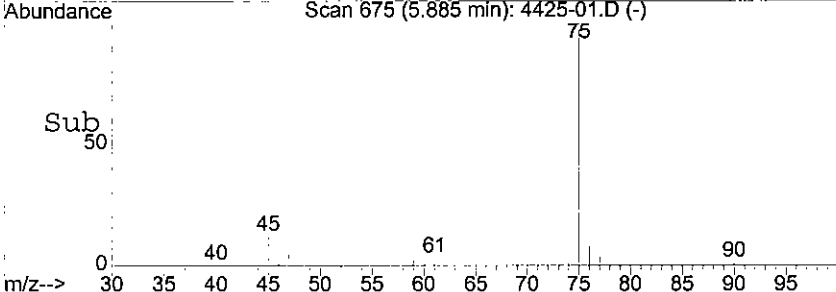
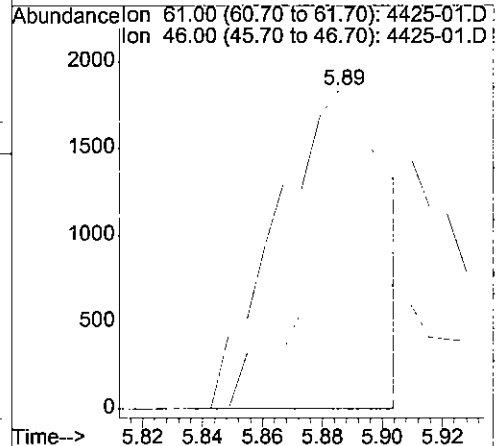
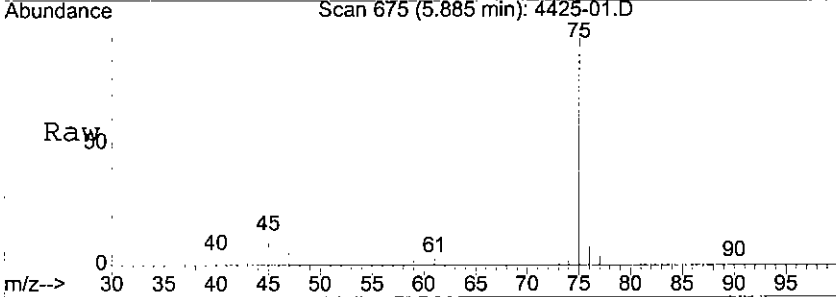
#22
 95 Tert butyl alcoholx10
 Concen: 24.51 ppb
 RT: 4.50 min Scan# 448
 Delta R.T. 0.04 min
 Lab File: 4425-01.D
 Acq: 7 Aug 2003 4:49 pm

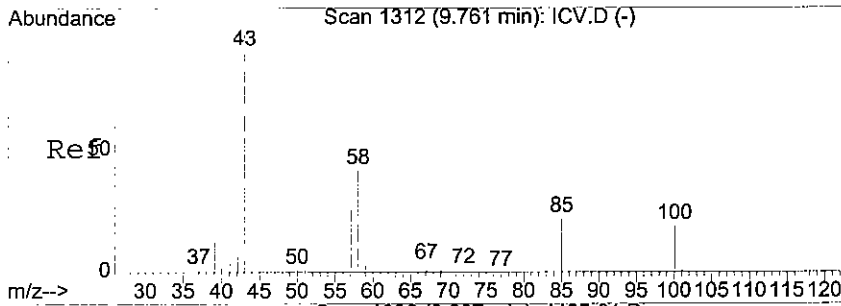
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 59 | 100 | | |
| 57 | 0.0 | 0.0 | 0.0 |
| 0 | 0.0 | 0.0 | 0.0 |
| 0 | 0.0 | 0.0 | 0.0 |



#37
 92 Nitro Methane(x10)
 Concen: 11.78 ppb
 RT: 5.89 min Scan# 675
 Delta R.T. 0.08 min
 Lab File: 4425-01.D
 Acq: 7 Aug 2003 4:49 pm

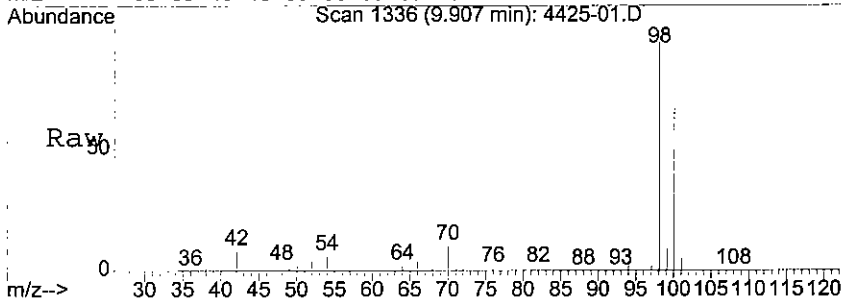
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 61 | 100 | | |
| 46 | 14.2 | 48.0 | 88.0# |
| 0 | 0.0 | 0.0 | 0.0 |
| 0 | 0.0 | 0.0 | 0.0 |



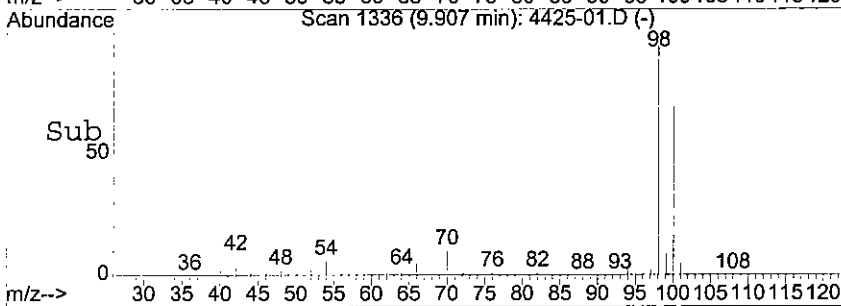
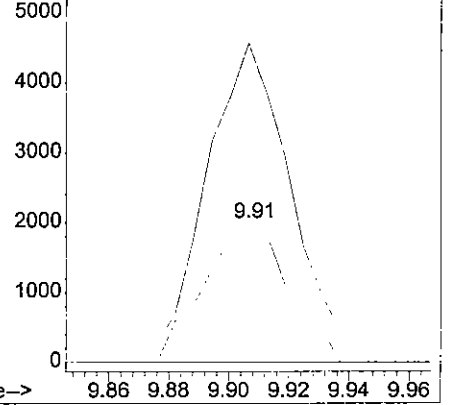


#62
 54 MIBK
 Concen: 0.48 ppb
 RT: 9.91 min Scan# 1336
 Delta R.T. 0.15 min
 Lab File: 4425-01.D
 Acq: 7 Aug 2003 4:49 pm

| Tgt Ion | 43 | 58 | 0 | 0 |
|---------|------|-------|-----|-----|
| Resp: | 3948 | 217.6 | 0.0 | 0.0 |
| Ratio | 100 | 20.1 | 0.0 | 0.0 |
| Lower | | 60.1# | 0.0 | 0.0 |
| Upper | | | 0.0 | 0.0 |



Abundance Ion 43.00 (42.70 to 43.70): 4425-01.D
 Ion 58.00 (57.70 to 58.70): 4425-01.D



Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

| | | |
|--------------------------------|--------------------------|-----------------------------|
| Client Name: GEOFON, Inc. | Project No: 04-4428.10 | Collection Date: 07/31/2003 |
| Project ID: JPL | Service ID: 34425 | Collected by: |
| Sample ID: EB-3-7-31-03 | Lab Sample ID: 03-4425-2 | Received Date: 07/31/2003 |
| Sample Type: Field Sample | Sample Matrix: Water | Moisture %: - |
| Anal. Method: 524.2 | Prep. Method: 5030 | Instrument ID: GC/MS: A |
| Batch No: 03G3595 | Prep. Date: 08/07/03 | Anal. Date: 08/07/03 |
| Data File Name: 4425-02 | Prep. No: - | Anal. Time: 15:02 |
| Methanol Vol: - | Sample Amount: 25.0 mL | Dilution Factor: 1 |
| Test Level: Low | Sparge Size: 25 mL | Heated Purge: (Y/N) N |

| # | Component Name | CAS No | Unit | RL | Result | Qualifier |
|----|-----------------------------|------------|------|-----|--------|-----------|
| 1 | BENZENE | 71-43-2 | µg/L | 0.5 | <0.5 | U |
| 2 | BROMOBENZENE | 108-86-1 | µg/L | 0.5 | <0.5 | U |
| 3 | BROMOCHLOROMETHANE | 74-97-5 | µg/L | 0.5 | <0.5 | U |
| 4 | BROMODICHLOROMETHANE | 75-27-4 | µg/L | 0.5 | <0.5 | U |
| 5 | BROMOFORM | 75-25-2 | µg/L | 0.5 | <0.5 | U |
| 6 | BROMOMETHANE | 74-83-9 | µg/L | 0.5 | <0.5 | U |
| 7 | 2-BUTANONE | 78-93-3 | µg/L | 10 | <10 | U |
| 8 | N-BUTYL BENZENE | 104-51-8 | µg/L | 0.5 | <0.5 | U |
| 9 | SEC-BUTYL BENZENE | 135-98-8 | µg/L | 0.5 | <0.5 | U |
| 10 | TERT-BUTYL BENZENE | 98-06-6 | µg/L | 0.5 | <0.5 | U |
| 11 | CARBON TETRACHLORIDE | 56-23-5 | µg/L | 0.5 | <0.5 | U |
| 12 | CHLOROBENZENE | 108-90-7 | µg/L | 0.5 | <0.5 | U |
| 13 | CHLORODIBROMOMETHANE | 124-48-1 | µg/L | 0.5 | <0.5 | U |
| 14 | CHLOROETHANE | 75-00-3 | µg/L | 0.5 | <0.5 | U |
| 15 | CHLOROFORM | 67-66-3 | µg/L | 0.5 | <0.5 | U |
| 16 | CHLOROMETHANE | 74-87-3 | µg/L | 0.5 | <0.5 | U |
| 17 | 2-CHLOROTOLUENE | 95-49-8 | µg/L | 0.5 | <0.5 | U |
| 18 | 4-CHLOROTOLUENE | 106-43-4 | µg/L | 0.5 | <0.5 | U |
| 19 | 1,2-DIBROMO-3-CHLOROPROPANE | 96-12-8 | µg/L | 0.5 | <0.5 | U |
| 20 | 1,2-DIBROMOETHANE (EDB) | 106-93-4 | µg/L | 0.5 | <0.5 | U |
| 21 | DIBROMOMETHANE | 74-95-3 | µg/L | 0.5 | <0.5 | U |
| 22 | 1,2-DICHLOROBENZENE | 95-50-1 | µg/L | 0.5 | <0.5 | U |
| 23 | 1,3-DICHLOROBENZENE | 541-73-1 | µg/L | 0.5 | <0.5 | U |
| 24 | 1,4-DICHLOROBENZENE | 106-46-7 | µg/L | 0.5 | <0.5 | U |
| 25 | DICHLORODIFLUOROMETHANE | 75-71-8 | µg/L | 0.5 | <0.5 | U |
| 26 | 1,1-DICHLOROETHANE | 75-34-3 | µg/L | 0.5 | <0.5 | U |
| 27 | 1,2-DICHLOROETHANE | 107-06-2 | µg/L | 0.5 | <0.5 | U |
| 28 | 1,1-DICHLOROETHENE | 75-35-4 | µg/L | 0.5 | <0.5 | U |
| 29 | CIS-1,2-DICHLOROETHENE | 156-59-2 | µg/L | 0.5 | <0.5 | U |
| 30 | TRANS-1,2-DICHLOROETHENE | 156-60-5 | µg/L | 0.5 | <0.5 | U |
| 31 | 1,2-DICHLOROPROPANE | 78-87-5 | µg/L | 0.5 | <0.5 | U |
| 32 | 1,3-DICHLOROPROPANE | 142-28-9 | µg/L | 0.5 | <0.5 | U |
| 33 | 2,2-DICHLOROPROPANE | 594-20-7 | µg/L | 0.5 | <0.5 | U |
| 34 | 1,1-DICHLOROPROPENE | 563-58-6 | µg/L | 0.5 | <0.5 | U |
| 35 | CIS-1,3-DICHLOROPROPENE | 10061-01-5 | µg/L | 0.5 | <0.5 | U |
| 36 | TRANS-1,3-DICHLOROPROPENE | 10061-02-6 | µg/L | 0.5 | <0.5 | U |
| 37 | ETHYLBENZENE | 100-41-4 | µg/L | 0.5 | <0.5 | U |
| 38 | HEXACHLOROBUTADIENE | 87-68-3 | µg/L | 0.5 | <0.5 | U |
| 39 | ISOPROPYLBENZENE (CUMENE) | 98-82-8 | µg/L | 0.5 | <0.5 | U |

| # | Component Name | CAS No | Unit | RL | Result | Qualifier |
|----|---------------------------------|-----------|------|-----|--------|-----------|
| 40 | P-ISOPROPYLTOLUENE | 99-87-6 | µg/L | 0.5 | <0.5 | U |
| 41 | METHYLENE CHLORIDE | 75-09-2 | µg/L | 0.5 | <0.5 | U |
| 42 | METHYL-T-BUTYL ETHER (MTBE) | 1634-04-4 | µg/L | 1 | <1 | U |
| 43 | 4-METHYL-2-PENTANONE (MIBK) | 108-10-1 | µg/L | 10 | <10 | U |
| 44 | NAPHTHALENE | 91-20-3 | µg/L | 0.5 | <0.5 | U |
| 45 | N-PROPYLBENZENE | 103-65-1 | µg/L | 0.5 | <0.5 | U |
| 46 | STYRENE | 100-42-5 | µg/L | 0.5 | <0.5 | U |
| 47 | 1,1,1,2-TETRACHLOROETHANE | 630-20-6 | µg/L | 0.5 | <0.5 | U |
| 48 | 1,1,2,2-TETRACHLOROETHANE | 79-34-5 | µg/L | 0.5 | <0.5 | U |
| 49 | TETRACHLOROETHENE | 127-18-4 | µg/L | 0.5 | <0.5 | U |
| 50 | TOLUENE | 108-88-3 | µg/L | 0.5 | <0.5 | U |
| 51 | 1,2,3-TRICHLOROENZENE | 87-61-6 | µg/L | 0.5 | <0.5 | U |
| 52 | 1,2,4-TRICHLOROENZENE | 120-82-1 | µg/L | 0.5 | <0.5 | U |
| 53 | 1,1,1-TRICHLOROETHANE | 71-55-6 | µg/L | 0.5 | <0.5 | U |
| 54 | 1,1,2-TRICHLOROETHANE | 79-00-5 | µg/L | 0.5 | <0.5 | U |
| 55 | TRICHLOROETHENE | 79-01-6 | µg/L | 0.5 | <0.5 | U |
| 56 | TRICHLOROFLUOROMETHANE | 75-69-4 | µg/L | 0.5 | <0.5 | U |
| 57 | 1,2,3-TRICHLOROPROPANE | 96-18-4 | µg/L | 0.5 | <0.5 | U |
| 58 | 112TRICHLORO-122TRIFLUOROETHANE | 76-13-1 | µg/L | 0.5 | <0.5 | U |
| 59 | 1,2,4-TRIMETHYLBENZENE | 95-63-6 | µg/L | 0.5 | <0.5 | U |
| 60 | 1,3,5-TRIMETHYLBENZENE | 108-67-8 | µg/L | 0.5 | <0.5 | U |
| 61 | VINYL CHLORIDE | 75-01-4 | µg/L | 0.5 | <0.5 | U |
| 62 | O-XYLENE | 95-47-6 | µg/L | 0.5 | <0.5 | U |
| 63 | M/P-XYLENE | 108-38-3 | µg/L | 0.5 | <0.5 | U |

Surrogates

| | | Control Limit, % | Surro. Rec.% | |
|---|-------------------------------------|------------------|--------------|-----|
| 1 | 1-BROMO-4-FLUOROBENZENE (4-BROMOFL) | 460-00-4 | 70-129 | 95 |
| 2 | 1,2-DICHLOROETHANE-D4 | 17060-07-0 | 70-129 | 111 |
| 3 | DIBROMOFLUOROMETHANE | 1868-53-7 | 70-122 | 107 |
| 4 | TOLUENE-D8 | 2037-26-5 | 73-129 | 97 |
| # | of out-of-control | | | 0 |

Internal Standard

| | | Control Limit, % | IS Rec.% | |
|---|-----------------------|------------------|----------|----|
| 1 | CHLOROENZENE-D5 | 3114-55-4 | 50-200 | 98 |
| 2 | 1,4-DICHLOROENZENE-D4 | 3855-82-1 | 50-200 | 98 |
| 3 | FLUOROBENZENE | 462-06-6 | 50-200 | 94 |
| # | of out-of-control | | | 0 |

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

Qualifier: U - Not Detected or less than MDL

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

E - Exceed calibration range

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

| | | |
|---------------------------|--------------------------|-----------------------------|
| Client Name: GEOFON, Inc. | Project No: 04-4428.10 | Collection Date: 07/31/2003 |
| Project ID: JPL | Service ID: 34425 | Collected by: |
| Sample ID: MW-20-1 | Lab Sample ID: 03-4425-3 | Received Date: 07/31/2003 |
| Sample Type: Field Sample | Sample Matrix: Water | Moisture %: - |
| Anal. Method: 524.2 | Prep. Method: 5030 | Instrument ID: GC/MS: A |
| Batch No: 03G3595 | Prep. Date: 08/07/03 | Anal. Date: 08/07/03 |
| Data File Name: 4425-03 | Prep. No: - | Anal. Time: 17:15 |
| Methanol Vol: - | Sample Amount: 25.0 mL | Dilution Factor: 1 |
| Test Level: Low | Sparge Size: 25 mL | Heated Purge: (Y/N) N |

| # | Component Name | CAS No | Unit | RL | Result | Qualifier |
|----|-----------------------------|------------|------|-----|--------|-----------|
| 1 | BENZENE | 71-43-2 | µg/L | 0.5 | <0.5 | U |
| 2 | BROMOBENZENE | 108-86-1 | µg/L | 0.5 | <0.5 | U |
| 3 | BROMOCHLOROMETHANE | 74-97-5 | µg/L | 0.5 | <0.5 | U |
| 4 | BROMODICHLOROMETHANE | 75-27-4 | µg/L | 0.5 | <0.5 | U |
| 5 | BROMOFORM | 75-25-2 | µg/L | 0.5 | <0.5 | U |
| 6 | BROMOMETHANE | 74-83-9 | µg/L | 0.5 | <0.5 | U |
| 7 | 2-BUTANONE | 78-93-3 | µg/L | 10 | <10 | U |
| 8 | N-BUTYLBENZENE | 104-51-8 | µg/L | 0.5 | <0.5 | U |
| 9 | SEC-BUTYLBENZENE | 135-98-8 | µg/L | 0.5 | <0.5 | U |
| 10 | TERT-BUTYLBENZENE | 98-06-6 | µg/L | 0.5 | <0.5 | U |
| 11 | CARBON TETRACHLORIDE | 56-23-5 | µg/L | 0.5 | <0.5 | U |
| 12 | CHLOROBENZENE | 108-90-7 | µg/L | 0.5 | <0.5 | U |
| 13 | CHLORODIBROMOMETHANE | 124-48-1 | µg/L | 0.5 | <0.5 | U |
| 14 | CHLOROETHANE | 75-00-3 | µg/L | 0.5 | <0.5 | U |
| 15 | CHLOROFORM | 67-66-3 | µg/L | 0.5 | 0.5 | J |
| 16 | CHLOROMETHANE | 74-87-3 | µg/L | 0.5 | <0.5 | U |
| 17 | 2-CHLOROTOLUENE | 95-49-8 | µg/L | 0.5 | <0.5 | U |
| 18 | 4-CHLOROTOLUENE | 106-43-4 | µg/L | 0.5 | <0.5 | U |
| 19 | 1,2-DIBROMO-3-CHLOROPROPANE | 96-12-8 | µg/L | 0.5 | <0.5 | U |
| 20 | 1,2-DIBROMOETHANE (EDB) | 106-93-4 | µg/L | 0.5 | <0.5 | U |
| 21 | DIBROMOMETHANE | 74-95-3 | µg/L | 0.5 | <0.5 | U |
| 22 | 1,2-DICHLOROBENZENE | 95-50-1 | µg/L | 0.5 | <0.5 | U |
| 23 | 1,3-DICHLOROBENZENE | 541-73-1 | µg/L | 0.5 | <0.5 | U |
| 24 | 1,4-DICHLOROBENZENE | 106-46-7 | µg/L | 0.5 | <0.5 | U |
| 25 | DICHLORODIFLUOROMETHANE | 75-71-8 | µg/L | 0.5 | <0.5 | U |
| 26 | 1,1-DICHLOROETHANE | 75-34-3 | µg/L | 0.5 | <0.5 | U |
| 27 | 1,2-DICHLOROETHANE | 107-06-2 | µg/L | 0.5 | <0.5 | U |
| 28 | 1,1-DICHLOROETHENE | 75-35-4 | µg/L | 0.5 | <0.5 | U |
| 29 | CIS-1,2-DICHLOROETHENE | 156-59-2 | µg/L | 0.5 | <0.5 | U |
| 30 | TRANS-1,2-DICHLOROETHENE | 156-60-5 | µg/L | 0.5 | <0.5 | U |
| 31 | 1,2-DICHLOROPROPANE | 78-87-5 | µg/L | 0.5 | <0.5 | U |
| 32 | 1,3-DICHLOROPROPANE | 142-28-9 | µg/L | 0.5 | <0.5 | U |
| 33 | 2,2-DICHLOROPROPANE | 594-20-7 | µg/L | 0.5 | <0.5 | U |
| 34 | 1,1-DICHLOROPROPENE | 563-58-6 | µg/L | 0.5 | <0.5 | U |
| 35 | CIS-1,3-DICHLOROPROPENE | 10061-01-5 | µg/L | 0.5 | <0.5 | U |
| 36 | TRANS-1,3-DICHLOROPROPENE | 10061-02-6 | µg/L | 0.5 | <0.5 | U |
| 37 | ETHYLBENZENE | 100-41-4 | µg/L | 0.5 | <0.5 | U |
| 38 | HEXACHLOROBUTADIENE | 87-68-3 | µg/L | 0.5 | <0.5 | U |
| 39 | ISOPROPYLBENZENE (CUMENE) | 98-82-8 | µg/L | 0.5 | <0.5 | U |

| # | Component Name | CAS No | Unit | RL | Result | Qualifier |
|--------------------------|---|------------|------|-------------------------|---------------------|-----------|
| 40 | P-ISOPROPYLTOLUENE | 99-87-6 | µg/L | 0.5 | <0.5 | U |
| 41 | METHYLENE CHLORIDE | 75-09-2 | µg/L | 0.5 | <0.5 | U |
| 42 | METHYL-T-BUTYL ETHER (MTBE) | 1634-04-4 | µg/L | 1 | <1 | U |
| 43 | 4-METHYL-2-PENTANONE (MIBK) | 108-10-1 | µg/L | 10 | <10 | U |
| 44 | NAPHTHALENE | 91-20-3 | µg/L | 0.5 | <0.5 | U |
| 45 | N-PROPYLBENZENE | 103-65-1 | µg/L | 0.5 | <0.5 | U |
| 46 | STYRENE | 100-42-5 | µg/L | 0.5 | <0.5 | U |
| 47 | 1,1,1,2-TETRACHLOROETHANE | 630-20-6 | µg/L | 0.5 | <0.5 | U |
| 48 | 1,1,2,2-TETRACHLOROETHANE | 79-34-5 | µg/L | 0.5 | <0.5 | U |
| 49 | TETRACHLOROETHENE | 127-18-4 | µg/L | 0.5 | <0.5 | U |
| 50 | TOLUENE | 108-88-3 | µg/L | 0.5 | <0.5 | U |
| 51 | 1,2,3-TRICHLOROENZENE | 87-61-6 | µg/L | 0.5 | <0.5 | U |
| 52 | 1,2,4-TRICHLOROENZENE | 120-82-1 | µg/L | 0.5 | <0.5 | U |
| 53 | 1,1,1-TRICHLOROETHANE | 71-55-6 | µg/L | 0.5 | <0.5 | U |
| 54 | 1,1,2-TRICHLOROETHANE | 79-00-5 | µg/L | 0.5 | <0.5 | U |
| 55 | TRICHLOROETHENE | 79-01-6 | µg/L | 0.5 | <0.5 | U |
| 56 | TRICHLOROFLUOROMETHANE | 75-69-4 | µg/L | 0.5 | <0.5 | U |
| 57 | 1,2,3-TRICHLOROPROPANE | 96-18-4 | µg/L | 0.5 | <0.5 | U |
| 58 | 1,1,2-TRICHLORO-1,1,2,2-TETRACHLOROETHANE | 76-13-1 | µg/L | 0.5 | <0.5 | U |
| 59 | 1,2,4-TRIMETHYLBENZENE | 95-63-6 | µg/L | 0.5 | <0.5 | U |
| 60 | 1,3,5-TRIMETHYLBENZENE | 108-67-8 | µg/L | 0.5 | <0.5 | U |
| 61 | VINYL CHLORIDE | 75-01-4 | µg/L | 0.5 | <0.5 | U |
| 62 | O-XYLENE | 95-47-6 | µg/L | 0.5 | <0.5 | U |
| 63 | M/P-XYLENE | 108-38-3 | µg/L | 0.5 | <0.5 | U |
| Surrogates | | | | Control Limit, % | Surro. Rec.% | |
| 1 | 1-BROMO-4-FLUOROBENZENE (4-BROMOFL) | 460-00-4 | | 70-129 | 96 | |
| 2 | 1,2-DICHLOROETHANE-D4 | 17060-07-0 | | 70-129 | 112 | |
| 3 | DIBROMOFLUOROMETHANE | 1868-53-7 | | 70-122 | 109 | |
| 4 | TOLUENE-D8 | 2037-26-5 | | 73-129 | 99 | |
| # of out-of-control | | | | | 0 | |
| Internal Standard | | | | Control Limit, % | IS Rec.% | |
| 1 | CHLOROENZENE-D5 | 3114-55-4 | | 50-200 | 94 | |
| 2 | 1,4-DICHLOROENZENE-D4 | 3855-82-1 | | 50-200 | 94 | |
| 3 | FLUOROBENZENE | 462-06-6 | | 50-200 | 90 | |
| # of out-of-control | | | | | 0 | |

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

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQ, or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

| | | |
|---------------------------|--------------------------|-----------------------------|
| Client Name: GEOFON, Inc. | Project No: 04-4428.10 | Collection Date: 07/31/2003 |
| Project ID: JPL | Service ID: 34425 | Collected by: |
| Sample ID: MW-20-2 | Lab Sample ID: 03-4425-4 | Received Date: 07/31/2003 |
| Sample Type: Field Sample | Sample Matrix: Water | Moisture %: - |
| Anal. Method: 524.2 | Prep. Method: 5030 | Instrument ID: GC/MS: A |
| Batch No: 03G3595 | Prep. Date: 08/07/03 | Anal. Date: 08/07/03 |
| Data File Name: 4425-04 | Prep. No: - | Anal. Time: 17:42 |
| Methanol Vol. - | Sample Amount: 25.0 mL | Dilution Factor: 1 |
| Test Level: Low | Sparge Size: 25 mL | Heated Purge: (Y/N) N |

| # | Component Name | CAS No | Unit | RL | Result | Qualifier |
|----|-----------------------------|------------|------|-----|--------|-----------|
| 1 | BENZENE | 71-43-2 | µg/L | 0.5 | <0.5 | U |
| 2 | BROMOBENZENE | 108-86-1 | µg/L | 0.5 | <0.5 | U |
| 3 | BROMOCHLOROMETHANE | 74-97-5 | µg/L | 0.5 | <0.5 | U |
| 4 | BROMODICHLOROMETHANE | 75-27-4 | µg/L | 0.5 | <0.5 | U |
| 5 | BROMOFORM | 75-25-2 | µg/L | 0.5 | <0.5 | U |
| 6 | BROMOMETHANE | 74-83-9 | µg/L | 0.5 | <0.5 | U |
| 7 | 2-BUTANONE | 78-93-3 | µg/L | 10 | <10 | U |
| 8 | N-BUTYL BENZENE | 104-51-8 | µg/L | 0.5 | <0.5 | U |
| 9 | SEC-BUTYL BENZENE | 135-98-8 | µg/L | 0.5 | <0.5 | U |
| 10 | TERT-BUTYL BENZENE | 98-06-6 | µg/L | 0.5 | <0.5 | U |
| 11 | CARBON TETRACHLORIDE | 56-23-5 | µg/L | 0.5 | <0.5 | U |
| 12 | CHLOROBENZENE | 108-90-7 | µg/L | 0.5 | <0.5 | U |
| 13 | CHLORODIBROMOMETHANE | 124-48-1 | µg/L | 0.5 | <0.5 | U |
| 14 | CHLOROETHANE | 75-00-3 | µg/L | 0.5 | <0.5 | U |
| 15 | CHLOROFORM | 67-66-3 | µg/L | 0.5 | 2.2 | |
| 16 | CHLOROMETHANE | 74-87-3 | µg/L | 0.5 | <0.5 | U |
| 17 | 2-CHLOROTOLUENE | 95-49-8 | µg/L | 0.5 | <0.5 | U |
| 18 | 4-CHLOROTOLUENE | 106-43-4 | µg/L | 0.5 | <0.5 | U |
| 19 | 1,2-DIBROMO-3-CHLOROPROPANE | 96-12-8 | µg/L | 0.5 | <0.5 | U |
| 20 | 1,2-DIBROMOETHANE (EDB) | 106-93-4 | µg/L | 0.5 | <0.5 | U |
| 21 | DIBROMOMETHANE | 74-95-3 | µg/L | 0.5 | <0.5 | U |
| 22 | 1,2-DICHLORO BENZENE | 95-50-1 | µg/L | 0.5 | <0.5 | U |
| 23 | 1,3-DICHLORO BENZENE | 541-73-1 | µg/L | 0.5 | <0.5 | U |
| 24 | 1,4-DICHLORO BENZENE | 106-46-7 | µg/L | 0.5 | <0.5 | U |
| 25 | DICHLORODIFLUOROMETHANE | 75-71-8 | µg/L | 0.5 | <0.5 | U |
| 26 | 1,1-DICHLOROETHANE | 75-34-3 | µg/L | 0.5 | <0.5 | U |
| 27 | 1,2-DICHLOROETHANE | 107-06-2 | µg/L | 0.5 | <0.5 | U |
| 28 | 1,1-DICHLOROETHENE | 75-35-4 | µg/L | 0.5 | <0.5 | U |
| 29 | CIS-1,2-DICHLOROETHENE | 156-59-2 | µg/L | 0.5 | <0.5 | U |
| 30 | TRANS-1,2-DICHLOROETHENE | 156-60-5 | µg/L | 0.5 | <0.5 | U |
| 31 | 1,2-DICHLOROPROPANE | 78-87-5 | µg/L | 0.5 | <0.5 | U |
| 32 | 1,3-DICHLOROPROPANE | 142-28-9 | µg/L | 0.5 | <0.5 | U |
| 33 | 2,2-DICHLOROPROPANE | 594-20-7 | µg/L | 0.5 | <0.5 | U |
| 34 | 1,1-DICHLOROPROPENE | 563-58-6 | µg/L | 0.5 | <0.5 | U |
| 35 | CIS-1,3-DICHLOROPROPENE | 10061-01-5 | µg/L | 0.5 | <0.5 | U |
| 36 | TRANS-1,3-DICHLOROPROPENE | 10061-02-6 | µg/L | 0.5 | <0.5 | U |
| 37 | ETHYL BENZENE | 100-41-4 | µg/L | 0.5 | <0.5 | U |
| 38 | HEXACHLOROBUTADIENE | 87-68-3 | µg/L | 0.5 | <0.5 | U |
| 39 | ISOPROPYL BENZENE (CUMENE) | 98-82-8 | µg/L | 0.5 | <0.5 | U |

| # | Component Name | CAS No | Unit | RL | Result | Qualifier |
|----|---------------------------------|-----------|------|-----|--------|-----------|
| 40 | P-ISOPROPYLTOLUENE | 99-87-6 | µg/L | 0.5 | <0.5 | U |
| 41 | METHYLENE CHLORIDE | 75-09-2 | µg/L | 0.5 | <0.5 | U |
| 42 | METHYL-T-BUTYL ETHER (MTBE) | 1634-04-4 | µg/L | 1 | <1 | U |
| 43 | 4-METHYL-2-PENTANONE (MIBK) | 108-10-1 | µg/L | 10 | <10 | U |
| 44 | NAPHTHALENE | 91-20-3 | µg/L | 0.5 | <0.5 | U |
| 45 | N-PROPYLBENZENE | 103-65-1 | µg/L | 0.5 | <0.5 | U |
| 46 | STYRENE | 100-42-5 | µg/L | 0.5 | <0.5 | U |
| 47 | 1,1,1,2-TETRACHLOROETHANE | 630-20-6 | µg/L | 0.5 | <0.5 | U |
| 48 | 1,1,2,2-TETRACHLOROETHANE | 79-34-5 | µg/L | 0.5 | <0.5 | U |
| 49 | TETRACHLOROETHENE | 127-18-4 | µg/L | 0.5 | <0.5 | U |
| 50 | TOLUENE | 108-88-3 | µg/L | 0.5 | <0.5 | U |
| 51 | 1,2,3-TRICHLOROENZENE | 87-61-6 | µg/L | 0.5 | <0.5 | U |
| 52 | 1,2,4-TRICHLOROENZENE | 120-82-1 | µg/L | 0.5 | <0.5 | U |
| 53 | 1,1,1-TRICHLOROETHANE | 71-55-6 | µg/L | 0.5 | <0.5 | U |
| 54 | 1,1,2-TRICHLOROETHANE | 79-00-5 | µg/L | 0.5 | <0.5 | U |
| 55 | TRICHLOROETHENE | 79-01-6 | µg/L | 0.5 | <0.5 | U |
| 56 | TRICHLOROFLUOROMETHANE | 75-69-4 | µg/L | 0.5 | <0.5 | U |
| 57 | 1,2,3-TRICHLOROPROPANE | 96-18-4 | µg/L | 0.5 | <0.5 | U |
| 58 | 112TRICHLORO-122TRIFLUOROETHANE | 76-13-1 | µg/L | 0.5 | <0.5 | U |
| 59 | 1,2,4-TRIMETHYLBENZENE | 95-63-6 | µg/L | 0.5 | <0.5 | U |
| 60 | 1,3,5-TRIMETHYLBENZENE | 108-67-8 | µg/L | 0.5 | <0.5 | U |
| 61 | VINYL CHLORIDE | 75-01-4 | µg/L | 0.5 | <0.5 | U |
| 62 | O-XYLENE | 95-47-6 | µg/L | 0.5 | <0.5 | U |
| 63 | M/P-XYLENE | 108-38-3 | µg/L | 0.5 | <0.5 | U |

Surrogates

| | | Control Limit, % | Surro. Rec.% | |
|---|-------------------------------------|------------------|--------------|-----|
| 1 | 1-BROMO-4-FLUOROBENZENE (4-BROMOFL) | 460-00-4 | 70-129 | 95 |
| 2 | 1,2-DICHLOROETHANE-D4 | 17060-07-0 | 70-129 | 115 |
| 3 | DIBROMOFLUOROMETHANE | 1868-53-7 | 70-122 | 108 |
| 4 | TOLUENE-D8 | 2037-26-5 | 73-129 | 98 |
| # | of out-of-control | | | 0 |

Internal Standard

| | | Control Limit, % | IS Rec.% | |
|---|-----------------------|------------------|----------|----|
| 1 | CHLOROENZENE-D5 | 3114-55-4 | 50-200 | 94 |
| 2 | 1,4-DICHLOROENZENE-D4 | 3855-82-1 | 50-200 | 95 |
| 3 | FLUOROBENZENE | 462-06-6 | 50-200 | 90 |
| # | of out-of-control | | | 0 |

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

Qualifier: U - Not Detected or less than MDL

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

E - Exceed calibration range

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

| | | |
|---------------------------|--------------------------|-----------------------------|
| Client Name: GEOFON, Inc. | Project No: 04-4428.10 | Collection Date: 07/31/2003 |
| Project ID: JPL | Service ID: 34425 | Collected by: |
| Sample ID: MW-20-3 | Lab Sample ID: 03-4425-5 | Received Date: 07/31/2003 |
| Sample Type: Field Sample | Sample Matrix: Water | Moisture %: - |
| Anal. Method: 524.2 | Prep. Method: 5030 | Instrument ID: GC/MS: A |
| Batch No: 03G3595 | Prep. Date: 08/07/03 | Anal. Date: 08/07/03 |
| Data File Name: 4425-05 | Prep. No: - | Anal. Time: 18:08 |
| Methanol Vol: - | Sample Amount: 25.0 mL | Dilution Factor: 1 |
| Test Level: Low | Sparge Size: 25 mL | Heated Purge: (Y/N) N |

| # | Component Name | CAS No | Unit | RL | Result | Qualifier |
|----|-----------------------------|------------|------|-----|--------|-----------|
| 1 | BENZENE | 71-43-2 | µg/L | 0.5 | <0.5 | U |
| 2 | BROMOBENZENE | 108-86-1 | µg/L | 0.5 | <0.5 | U |
| 3 | BROMOCHLOROMETHANE | 74-97-5 | µg/L | 0.5 | <0.5 | U |
| 4 | BROMODICHLOROMETHANE | 75-27-4 | µg/L | 0.5 | <0.5 | U |
| 5 | BROMOFORM | 75-25-2 | µg/L | 0.5 | <0.5 | U |
| 6 | BROMOMETHANE | 74-83-9 | µg/L | 0.5 | <0.5 | U |
| 7 | 2-BUTANONE | 78-93-3 | µg/L | 10 | <10 | U |
| 8 | N-BUTYLBENZENE | 104-51-8 | µg/L | 0.5 | <0.5 | U |
| 9 | SEC-BUTYLBENZENE | 135-98-8 | µg/L | 0.5 | <0.5 | U |
| 10 | TERT-BUTYLBENZENE | 98-06-6 | µg/L | 0.5 | <0.5 | U |
| 11 | CARBON TETRACHLORIDE | 56-23-5 | µg/L | 0.5 | <0.5 | U |
| 12 | CHLOROBENZENE | 108-90-7 | µg/L | 0.5 | <0.5 | U |
| 13 | CHLORODIBROMOMETHANE | 124-48-1 | µg/L | 0.5 | <0.5 | U |
| 14 | CHLOROETHANE | 75-00-3 | µg/L | 0.5 | <0.5 | U |
| 15 | CHLOROFORM | 67-66-3 | µg/L | 0.5 | <0.5 | U |
| 16 | CHLOROMETHANE | 74-87-3 | µg/L | 0.5 | <0.5 | U |
| 17 | 2-CHLOROTOLUENE | 95-49-8 | µg/L | 0.5 | <0.5 | U |
| 18 | 4-CHLOROTOLUENE | 106-43-4 | µg/L | 0.5 | <0.5 | U |
| 19 | 1,2-DIBROMO-3-CHLOROPROPANE | 96-12-8 | µg/L | 0.5 | <0.5 | U |
| 20 | 1,2-DIBROMOETHANE (EDB) | 106-93-4 | µg/L | 0.5 | <0.5 | U |
| 21 | DIBROMOMETHANE | 74-95-3 | µg/L | 0.5 | <0.5 | U |
| 22 | 1,2-DICHLOROETHANE | 95-50-1 | µg/L | 0.5 | <0.5 | U |
| 23 | 1,3-DICHLOROETHANE | 541-73-1 | µg/L | 0.5 | <0.5 | U |
| 24 | 1,4-DICHLOROETHANE | 106-46-7 | µg/L | 0.5 | <0.5 | U |
| 25 | DICHLORODIFLUOROMETHANE | 75-71-8 | µg/L | 0.5 | <0.5 | U |
| 26 | 1,1-DICHLOROETHANE | 75-34-3 | µg/L | 0.5 | <0.5 | U |
| 27 | 1,2-DICHLOROETHANE | 107-06-2 | µg/L | 0.5 | <0.5 | U |
| 28 | 1,1-DICHLOROETHENE | 75-35-4 | µg/L | 0.5 | <0.5 | U |
| 29 | CIS-1,2-DICHLOROETHENE | 156-59-2 | µg/L | 0.5 | <0.5 | U |
| 30 | TRANS-1,2-DICHLOROETHENE | 156-60-5 | µg/L | 0.5 | <0.5 | U |
| 31 | 1,2-DICHLOROPROPANE | 78-87-5 | µg/L | 0.5 | <0.5 | U |
| 32 | 1,3-DICHLOROPROPANE | 142-28-9 | µg/L | 0.5 | <0.5 | U |
| 33 | 2,2-DICHLOROPROPANE | 594-20-7 | µg/L | 0.5 | <0.5 | U |
| 34 | 1,1-DICHLOROPROPENE | 563-58-6 | µg/L | 0.5 | <0.5 | U |
| 35 | CIS-1,3-DICHLOROPROPENE | 10061-01-5 | µg/L | 0.5 | <0.5 | U |
| 36 | TRANS-1,3-DICHLOROPROPENE | 10061-02-6 | µg/L | 0.5 | <0.5 | U |
| 37 | ETHYLBENZENE | 100-41-4 | µg/L | 0.5 | <0.5 | U |
| 38 | HEXACHLOROBUTADIENE | 87-68-3 | µg/L | 0.5 | <0.5 | U |
| 39 | ISOPROPYLBENZENE (CUMENE) | 98-82-8 | µg/L | 0.5 | <0.5 | U |

| # | Component Name | CAS No | Unit | RL | Result | Qualifier |
|----|---|-----------|------|-----|--------|-----------|
| 40 | P-ISOPROPYLTOLUENE | 99-87-6 | µg/L | 0.5 | <0.5 | U |
| 41 | METHYLENE CHLORIDE | 75-09-2 | µg/L | 0.5 | <0.5 | U |
| 42 | METHYL-T-BUTYL ETHER (MTBE) | 1634-04-4 | µg/L | 1 | <1 | U |
| 43 | 4-METHYL-2-PENTANONE (MIBK) | 108-10-1 | µg/L | 10 | <10 | U |
| 44 | NAPHTHALENE | 91-20-3 | µg/L | 0.5 | <0.5 | U |
| 45 | N-PROPYLBENZENE | 103-65-1 | µg/L | 0.5 | <0.5 | U |
| 46 | STYRENE | 100-42-5 | µg/L | 0.5 | <0.5 | U |
| 47 | 1,1,1,2-TETRACHLOROETHANE | 630-20-6 | µg/L | 0.5 | <0.5 | U |
| 48 | 1,1,2,2-TETRACHLOROETHANE | 79-34-5 | µg/L | 0.5 | <0.5 | U |
| 49 | TETRACHLOROETHENE | 127-18-4 | µg/L | 0.5 | <0.5 | U |
| 50 | TOLUENE | 108-88-3 | µg/L | 0.5 | <0.5 | U |
| 51 | 1,2,3-TRICHLOROENZENE | 87-61-6 | µg/L | 0.5 | <0.5 | U |
| 52 | 1,2,4-TRICHLOROENZENE | 120-82-1 | µg/L | 0.5 | <0.5 | U |
| 53 | 1,1,1-TRICHLOROETHANE | 71-55-6 | µg/L | 0.5 | <0.5 | U |
| 54 | 1,1,2-TRICHLOROETHANE | 79-00-5 | µg/L | 0.5 | <0.5 | U |
| 55 | TRICHLOROETHENE | 79-01-6 | µg/L | 0.5 | <0.5 | U |
| 56 | TRICHLOROFLUOROMETHANE | 75-69-4 | µg/L | 0.5 | <0.5 | U |
| 57 | 1,2,3-TRICHLOROPROPANE | 96-18-4 | µg/L | 0.5 | <0.5 | U |
| 58 | 1,1,2-TRICHLORO-1,1,2,2-TETRACHLOROETHANE | 76-13-1 | µg/L | 0.5 | <0.5 | U |
| 59 | 1,2,4-TRIMETHYLBENZENE | 95-63-6 | µg/L | 0.5 | <0.5 | U |
| 60 | 1,3,5-TRIMETHYLBENZENE | 108-67-8 | µg/L | 0.5 | <0.5 | U |
| 61 | VINYL CHLORIDE | 75-01-4 | µg/L | 0.5 | <0.5 | U |
| 62 | O-XYLENE | 95-47-6 | µg/L | 0.5 | <0.5 | U |
| 63 | M/P-XYLENE | 108-38-3 | µg/L | 0.5 | <0.5 | U |

Surrogates

| | | Control Limit, % | Surro. Rec.% | |
|---------------------|-------------------------------------|------------------|--------------|-----|
| 1 | 1-BROMO-4-FLUOROBENZENE (4-BROMOFL) | 460-00-4 | 70-129 | 96 |
| 2 | 1,2-DICHLOROETHANE-D4 | 17060-07-0 | 70-129 | 114 |
| 3 | DIBROMOFLUOROMETHANE | 1868-53-7 | 70-122 | 109 |
| 4 | TOLUENE-D8 | 2037-26-5 | 73-129 | 98 |
| # of out-of-control | | | | 0 |

Internal Standard

| | | Control Limit, % | IS Rec.% | |
|---------------------|-----------------------|------------------|----------|----|
| 1 | CHLOROENZENE-D5 | 3114-55-4 | 50-200 | 94 |
| 2 | 1,4-DICHLOROENZENE-D4 | 3855-82-1 | 50-200 | 95 |
| 3 | FLUOROBENZENE | 462-06-6 | 50-200 | 90 |
| # of out-of-control | | | | 0 |

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

Qualifier: U - Not Detected or less than MDL

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

E - Exceed calibration range

B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

| | | |
|---------------------------|--------------------------|-----------------------------|
| Client Name: GEOFON, Inc. | Project No: 04-4428.10 | Collection Date: 07/31/2003 |
| Project ID: JPL | Service ID: 34425 | Collected by: |
| Sample ID: MW-20-4 | Lab Sample ID: 03-4425-6 | Received Date: 07/31/2003 |
| Sample Type: Field Sample | Sample Matrix: Water | Moisture %: - |
| Anal. Method: 524.2 | Prep. Method: 5030 | Instrument ID: GC/MS: A |
| Batch No: 03G3595 | Prep. Date: 08/07/03 | Anal. Date: 08/07/03 |
| Data File Name: 4425-06 | Prep. No: - | Anal. Time: 16:22 |
| Methanol Vol: - | Sample Amount: 25.0 mL | Dilution Factor: 1 |
| Test Level: Low | Sparge Size: 25 mL | Heated Purge: (Y/N) N |

| # | Component Name | CAS No | Unit | RL | Result | Qualifier |
|----|-----------------------------|------------|------|-----|--------|-----------|
| 1 | BENZENE | 71-43-2 | µg/L | 0.5 | <0.5 | U |
| 2 | BROMOBENZENE | 108-86-1 | µg/L | 0.5 | <0.5 | U |
| 3 | BROMOCHLOROMETHANE | 74-97-5 | µg/L | 0.5 | <0.5 | U |
| 4 | BROMODICHLOROMETHANE | 75-27-4 | µg/L | 0.5 | <0.5 | U |
| 5 | BROMOFORM | 75-25-2 | µg/L | 0.5 | <0.5 | U |
| 6 | BROMOMETHANE | 74-83-9 | µg/L | 0.5 | <0.5 | U |
| 7 | 2-BUTANONE | 78-93-3 | µg/L | 10 | <10 | U |
| 8 | N-BUTYL BENZENE | 104-51-8 | µg/L | 0.5 | <0.5 | U |
| 9 | SEC-BUTYL BENZENE | 135-98-8 | µg/L | 0.5 | <0.5 | U |
| 10 | TERT-BUTYL BENZENE | 98-06-6 | µg/L | 0.5 | <0.5 | U |
| 11 | CARBON TETRACHLORIDE | 56-23-5 | µg/L | 0.5 | <0.5 | U |
| 12 | CHLOROBENZENE | 108-90-7 | µg/L | 0.5 | <0.5 | U |
| 13 | CHLORODIBROMOMETHANE | 124-48-1 | µg/L | 0.5 | <0.5 | U |
| 14 | CHLOROETHANE | 75-00-3 | µg/L | 0.5 | <0.5 | U |
| 15 | CHLOROFORM | 67-66-3 | µg/L | 0.5 | <0.5 | U |
| 16 | CHLOROMETHANE | 74-87-3 | µg/L | 0.5 | <0.5 | U |
| 17 | 2-CHLOROTOLUENE | 95-49-8 | µg/L | 0.5 | <0.5 | U |
| 18 | 4-CHLOROTOLUENE | 106-43-4 | µg/L | 0.5 | <0.5 | U |
| 19 | 1,2-DIBROMO-3-CHLOROPROPANE | 96-12-8 | µg/L | 0.5 | <0.5 | U |
| 20 | 1,2-DIBROMOETHANE (EDB) | 106-93-4 | µg/L | 0.5 | <0.5 | U |
| 21 | DIBROMOMETHANE | 74-95-3 | µg/L | 0.5 | <0.5 | U |
| 22 | 1,2-DICHLORO BENZENE | 95-50-1 | µg/L | 0.5 | <0.5 | U |
| 23 | 1,3-DICHLORO BENZENE | 541-73-1 | µg/L | 0.5 | <0.5 | U |
| 24 | 1,4-DICHLORO BENZENE | 106-46-7 | µg/L | 0.5 | <0.5 | U |
| 25 | DICHLORODIFLUOROMETHANE | 75-71-8 | µg/L | 0.5 | <0.5 | U |
| 26 | 1,1-DICHLOROETHANE | 75-34-3 | µg/L | 0.5 | <0.5 | U |
| 27 | 1,2-DICHLOROETHANE | 107-06-2 | µg/L | 0.5 | <0.5 | U |
| 28 | 1,1-DICHLOROETHENE | 75-35-4 | µg/L | 0.5 | <0.5 | U |
| 29 | CIS-1,2-DICHLOROETHENE | 156-59-2 | µg/L | 0.5 | <0.5 | U |
| 30 | TRANS-1,2-DICHLOROETHENE | 156-60-5 | µg/L | 0.5 | <0.5 | U |
| 31 | 1,2-DICHLOROPROPANE | 78-87-5 | µg/L | 0.5 | <0.5 | U |
| 32 | 1,3-DICHLOROPROPANE | 142-28-9 | µg/L | 0.5 | <0.5 | U |
| 33 | 2,2-DICHLOROPROPANE | 594-20-7 | µg/L | 0.5 | <0.5 | U |
| 34 | 1,1-DICHLOROPROPENE | 563-58-6 | µg/L | 0.5 | <0.5 | U |
| 35 | CIS-1,3-DICHLOROPROPENE | 10061-01-5 | µg/L | 0.5 | <0.5 | U |
| 36 | TRANS-1,3-DICHLOROPROPENE | 10061-02-6 | µg/L | 0.5 | <0.5 | U |
| 37 | ETHYL BENZENE | 100-41-4 | µg/L | 0.5 | <0.5 | U |
| 38 | HEXACHLOROBUTADIENE | 87-68-3 | µg/L | 0.5 | <0.5 | U |
| 39 | ISOPROPYL BENZENE (CUMENE) | 98-82-8 | µg/L | 0.5 | <0.5 | U |

| # | Component Name | CAS No | Unit | RL | Result | Qualifier |
|----|---|-----------|------|-----|--------|-----------|
| 40 | P-ISOPROPYLTOLUENE | 99-87-6 | µg/L | 0.5 | <0.5 | U |
| 41 | METHYLENE CHLORIDE | 75-09-2 | µg/L | 0.5 | <0.5 | U |
| 42 | METHYL-T-BUTYL ETHER (MTBE) | 1634-04-4 | µg/L | 1 | <1 | U |
| 43 | 4-METHYL-2-PENTANONE (MIBK) | 108-10-1 | µg/L | 10 | <10 | U |
| 44 | NAPHTHALENE | 91-20-3 | µg/L | 0.5 | <0.5 | U |
| 45 | N-PROPYLBENZENE | 103-65-1 | µg/L | 0.5 | <0.5 | U |
| 46 | STYRENE | 100-42-5 | µg/L | 0.5 | <0.5 | U |
| 47 | 1,1,1,2-TETRACHLOROETHANE | 630-20-6 | µg/L | 0.5 | <0.5 | U |
| 48 | 1,1,2,2-TETRACHLOROETHANE | 79-34-5 | µg/L | 0.5 | <0.5 | U |
| 49 | TETRACHLOROETHENE | 127-18-4 | µg/L | 0.5 | <0.5 | U |
| 50 | TOLUENE | 108-88-3 | µg/L | 0.5 | <0.5 | U |
| 51 | 1,2,3-TRICHLOROENZENE | 87-61-6 | µg/L | 0.5 | <0.5 | U |
| 52 | 1,2,4-TRICHLOROENZENE | 120-82-1 | µg/L | 0.5 | <0.5 | U |
| 53 | 1,1,1-TRICHLOROETHANE | 71-55-6 | µg/L | 0.5 | <0.5 | U |
| 54 | 1,1,2-TRICHLOROETHANE | 79-00-5 | µg/L | 0.5 | <0.5 | U |
| 55 | TRICHLOROETHENE | 79-01-6 | µg/L | 0.5 | <0.5 | U |
| 56 | TRICHLOROFLUOROMETHANE | 75-69-4 | µg/L | 0.5 | <0.5 | U |
| 57 | 1,2,3-TRICHLOROPROPANE | 96-18-4 | µg/L | 0.5 | <0.5 | U |
| 58 | 1,1,2-TRICHLORO-1,1,2,2-TETRACHLOROETHANE | 76-13-1 | µg/L | 0.5 | <0.5 | U |
| 59 | 1,2,4-TRIMETHYLBENZENE | 95-63-6 | µg/L | 0.5 | <0.5 | U |
| 60 | 1,3,5-TRIMETHYLBENZENE | 108-67-8 | µg/L | 0.5 | <0.5 | U |
| 61 | VINYL CHLORIDE | 75-01-4 | µg/L | 0.5 | <0.5 | U |
| 62 | O-XYLENE | 95-47-6 | µg/L | 0.5 | <0.5 | U |
| 63 | M/P-XYLENE | 108-38-3 | µg/L | 0.5 | <0.5 | U |

Surrogates

| | | Control Limit, % | Surro. Rec.% | |
|---------------------|-------------------------------------|------------------|--------------|-----|
| 1 | 1-BROMO-4-FLUOROBENZENE (4-BROMOFL) | 460-00-4 | 70-129 | 97 |
| 2 | 1,2-DICHLOROETHANE-D4 | 17060-07-0 | 70-129 | 111 |
| 3 | DIBROMOFLUOROMETHANE | 1868-53-7 | 70-122 | 108 |
| 4 | TOLUENE-D8 | 2037-26-5 | 73-129 | 97 |
| # of out-of-control | | | 0 | |

Internal Standard

| | | Control Limit, % | IS Rec.% | |
|---------------------|-----------------------|------------------|----------|----|
| 1 | CHLOROBENZENE-D5 | 3114-55-4 | 50-200 | 96 |
| 2 | 1,4-DICHLOROENZENE-D4 | 3855-82-1 | 50-200 | 95 |
| 3 | FLUOROBENZENE | 462-06-6 | 50-200 | 92 |
| # of out-of-control | | | 0 | |

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

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

| | | |
|---------------------------|--------------------------|-----------------------------|
| Client Name: GEOFON, Inc. | Project No: 04-4428.10 | Collection Date: 07/31/2003 |
| Project ID: JPL | Service ID: 34425 | Collected by: |
| Sample ID: MW-20-5 | Lab Sample ID: 03-4425-7 | Received Date: 07/31/2003 |
| Sample Type: Field Sample | Sample Matrix: Water | Moisture %: - |
| Anal. Method: 524.2 | Prep. Method: 5030 | Instrument ID: GC/MS: A |
| Batch No: 03G3595 | Prep. Date: 08/07/03 | Anal. Date: 08/07/03 |
| Data File Name: 4425-07 | Prep. No: - | Anal. Time: 18:35 |
| Methanol Vol. - | Sample Amount: 25.0 mL | Dilution Factor: 1 |
| Test Level: Low | Sparge Size: 25 mL | Heated Purge: (Y/N) N |

| # | Component Name | CAS No | Unit | RL | Result | Qualifier |
|----|-----------------------------|------------|------|-----|--------|-----------|
| 1 | BENZENE | 71-43-2 | µg/L | 0.5 | <0.5 | U |
| 2 | BROMOBENZENE | 108-86-1 | µg/L | 0.5 | <0.5 | U |
| 3 | BROMOCHLOROMETHANE | 74-97-5 | µg/L | 0.5 | <0.5 | U |
| 4 | BROMODICHLOROMETHANE | 75-27-4 | µg/L | 0.5 | <0.5 | U |
| 5 | BROMOFORM | 75-25-2 | µg/L | 0.5 | <0.5 | U |
| 6 | BROMOMETHANE | 74-83-9 | µg/L | 0.5 | <0.5 | U |
| 7 | 2-BUTANONE | 78-93-3 | µg/L | 10 | <10 | U |
| 8 | N-BUTYL BENZENE | 104-51-8 | µg/L | 0.5 | <0.5 | U |
| 9 | SEC-BUTYL BENZENE | 135-98-8 | µg/L | 0.5 | <0.5 | U |
| 10 | TERT-BUTYL BENZENE | 98-06-6 | µg/L | 0.5 | <0.5 | U |
| 11 | CARBON TETRACHLORIDE | 56-23-5 | µg/L | 0.5 | <0.5 | U |
| 12 | CHLOROBENZENE | 108-90-7 | µg/L | 0.5 | <0.5 | U |
| 13 | CHLORODIBROMOMETHANE | 124-48-1 | µg/L | 0.5 | <0.5 | U |
| 14 | CHLOROETHANE | 75-00-3 | µg/L | 0.5 | <0.5 | U |
| 15 | CHLOROFORM | 67-66-3 | µg/L | 0.5 | <0.5 | U |
| 16 | CHLOROMETHANE | 74-87-3 | µg/L | 0.5 | <0.5 | U |
| 17 | 2-CHLOROTOLUENE | 95-49-8 | µg/L | 0.5 | <0.5 | U |
| 18 | 4-CHLOROTOLUENE | 106-43-4 | µg/L | 0.5 | <0.5 | U |
| 19 | 1,2-DIBROMO-3-CHLOROPROPANE | 96-12-8 | µg/L | 0.5 | <0.5 | U |
| 20 | 1,2-DIBROMOETHANE (EDB) | 106-93-4 | µg/L | 0.5 | <0.5 | U |
| 21 | DIBROMOMETHANE | 74-95-3 | µg/L | 0.5 | <0.5 | U |
| 22 | 1,2-DICHLOROBENZENE | 95-50-1 | µg/L | 0.5 | <0.5 | U |
| 23 | 1,3-DICHLOROBENZENE | 541-73-1 | µg/L | 0.5 | <0.5 | U |
| 24 | 1,4-DICHLOROBENZENE | 106-46-7 | µg/L | 0.5 | <0.5 | U |
| 25 | DICHLORODIFLUOROMETHANE | 75-71-8 | µg/L | 0.5 | <0.5 | U |
| 26 | 1,1-DICHLOROETHANE | 75-34-3 | µg/L | 0.5 | <0.5 | U |
| 27 | 1,2-DICHLOROETHANE | 107-06-2 | µg/L | 0.5 | <0.5 | U |
| 28 | 1,1-DICHLOROETHENE | 75-35-4 | µg/L | 0.5 | <0.5 | U |
| 29 | CIS-1,2-DICHLOROETHENE | 156-59-2 | µg/L | 0.5 | <0.5 | U |
| 30 | TRANS-1,2-DICHLOROETHENE | 156-60-5 | µg/L | 0.5 | <0.5 | U |
| 31 | 1,2-DICHLOROPROPANE | 78-87-5 | µg/L | 0.5 | <0.5 | U |
| 32 | 1,3-DICHLOROPROPANE | 142-28-9 | µg/L | 0.5 | <0.5 | U |
| 33 | 2,2-DICHLOROPROPANE | 594-20-7 | µg/L | 0.5 | <0.5 | U |
| 34 | 1,1-DICHLOROPROPENE | 563-58-6 | µg/L | 0.5 | <0.5 | U |
| 35 | CIS-1,3-DICHLOROPROPENE | 10061-01-5 | µg/L | 0.5 | <0.5 | U |
| 36 | TRANS-1,3-DICHLOROPROPENE | 10061-02-6 | µg/L | 0.5 | <0.5 | U |
| 37 | ETHYLBENZENE | 100-41-4 | µg/L | 0.5 | <0.5 | U |
| 38 | HEXACHLOROBUTADIENE | 87-68-3 | µg/L | 0.5 | <0.5 | U |
| 39 | ISOPROPYLBENZENE (CUMENE) | 98-82-8 | µg/L | 0.5 | <0.5 | U |

| # | Component Name | CAS No | Unit | RL | Result | Qualifier |
|----|---|-----------|------|-----|--------|-----------|
| 40 | P-ISOPROPYLTOLUENE | 99-87-6 | µg/L | 0.5 | <0.5 | U |
| 41 | METHYLENE CHLORIDE | 75-09-2 | µg/L | 0.5 | <0.5 | U |
| 42 | METHYL-T-BUTYL ETHER (MTBE) | 1634-04-4 | µg/L | 1 | <1 | U |
| 43 | 4-METHYL-2-PENTANONE (MIBK) | 108-10-1 | µg/L | 10 | <10 | U |
| 44 | NAPHTHALENE | 91-20-3 | µg/L | 0.5 | <0.5 | U |
| 45 | N-PROPYLBENZENE | 103-65-1 | µg/L | 0.5 | <0.5 | U |
| 46 | STYRENE | 100-42-5 | µg/L | 0.5 | <0.5 | U |
| 47 | 1,1,1,2-TETRACHLOROETHANE | 630-20-6 | µg/L | 0.5 | <0.5 | U |
| 48 | 1,1,2,2-TETRACHLOROETHANE | 79-34-5 | µg/L | 0.5 | <0.5 | U |
| 49 | TETRACHLOROETHENE | 127-18-4 | µg/L | 0.5 | <0.5 | U |
| 50 | TOLUENE | 108-88-3 | µg/L | 0.5 | <0.5 | U |
| 51 | 1,2,3-TRICHLOROENZENE | 87-61-6 | µg/L | 0.5 | <0.5 | U |
| 52 | 1,2,4-TRICHLOROENZENE | 120-82-1 | µg/L | 0.5 | <0.5 | U |
| 53 | 1,1,1-TRICHLOROETHANE | 71-55-6 | µg/L | 0.5 | <0.5 | U |
| 54 | 1,1,2-TRICHLOROETHANE | 79-00-5 | µg/L | 0.5 | <0.5 | U |
| 55 | TRICHLOROETHENE | 79-01-6 | µg/L | 0.5 | <0.5 | U |
| 56 | TRICHLOROFLUOROMETHANE | 75-69-4 | µg/L | 0.5 | <0.5 | U |
| 57 | 1,2,3-TRICHLOROPROPANE | 96-18-4 | µg/L | 0.5 | <0.5 | U |
| 58 | 1,1,2-TRICHLORO-1,1,2,2-TETRACHLOROETHANE | 76-13-1 | µg/L | 0.5 | <0.5 | U |
| 59 | 1,2,4-TRIMETHYLBENZENE | 95-63-6 | µg/L | 0.5 | <0.5 | U |
| 60 | 1,3,5-TRIMETHYLBENZENE | 108-67-8 | µg/L | 0.5 | <0.5 | U |
| 61 | VINYL CHLORIDE | 75-01-4 | µg/L | 0.5 | <0.5 | U |
| 62 | O-XYLENE | 95-47-6 | µg/L | 0.5 | <0.5 | U |
| 63 | M/P-XYLENE | 108-38-3 | µg/L | 0.5 | <0.5 | U |

Surrogates

| | | Control Limit, % | Surro. Rec.% | |
|---------------------|-------------------------------------|------------------|--------------|-----|
| 1 | 1-BROMO-4-FLUOROBENZENE (4-BROMOFL) | 460-00-4 | 70-129 | 96 |
| 2 | 1,2-DICHLOROETHANE-D4 | 17060-07-0 | 70-129 | 112 |
| 3 | DIBROMOFLUOROMETHANE | 1868-53-7 | 70-122 | 109 |
| 4 | TOLUENE-D8 | 2037-26-5 | 73-129 | 98 |
| # of out-of-control | | | 0 | |

Internal Standard

| | | Control Limit, % | IS Rec.% | |
|---------------------|-----------------------|------------------|----------|----|
| 1 | CHLOROBENZENE-D5 | 3114-55-4 | 50-200 | 93 |
| 2 | 1,4-DICHLOROENZENE-D4 | 3855-82-1 | 50-200 | 94 |
| 3 | FLUOROBENZENE | 462-06-6 | 50-200 | 90 |
| # of out-of-control | | | 0 | |

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

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

| | | |
|---------------------------|--------------------------|-----------------------------|
| Client Name: GEOFON, Inc. | Project No: 04-4428.10 | Collection Date: 07/31/2003 |
| Project ID: JPL | Service ID: 34425 | Collected by: |
| Sample ID: TB-3-7-31-03 | Lab Sample ID: 03-4425-8 | Received Date: 07/31/2003 |
| Sample Type: Field Sample | Sample Matrix: Water | Moisture %: - |
| Anal. Method: 524.2 | Prep. Method: 5030 | Instrument ID: GC/MS: A |
| Batch No: 03G3595 | Prep. Date: 08/07/03 | Anal. Date: 08/07/03 |
| Data File Name: 4425-08 | Prep. No: - | Anal. Time: 14:36 |
| Methanol Vol: - | Sample Amount: 25.0 mL | Dilution Factor: 1 |
| Test Level: Low | Sparge Size: 25 mL | Heated Purge: (Y/N) N |

| # | Component Name | CAS No | Unit | RL | Result | Qualifier |
|----|-----------------------------|------------|------|-----|--------|-----------|
| 1 | BENZENE | 71-43-2 | µg/L | 0.5 | <0.5 | U |
| 2 | BROMOBENZENE | 108-86-1 | µg/L | 0.5 | <0.5 | U |
| 3 | BROMOCHLOROMETHANE | 74-97-5 | µg/L | 0.5 | <0.5 | U |
| 4 | BROMODICHLOROMETHANE | 75-27-4 | µg/L | 0.5 | <0.5 | U |
| 5 | BROMOFORM | 75-25-2 | µg/L | 0.5 | <0.5 | U |
| 6 | BROMOMETHANE | 74-83-9 | µg/L | 0.5 | <0.5 | U |
| 7 | 2-BUTANONE | 78-93-3 | µg/L | 10 | <10 | U |
| 8 | N-BUTYLBENZENE | 104-51-8 | µg/L | 0.5 | <0.5 | U |
| 9 | SEC-BUTYLBENZENE | 135-98-8 | µg/L | 0.5 | <0.5 | U |
| 10 | TERT-BUTYLBENZENE | 98-06-6 | µg/L | 0.5 | <0.5 | U |
| 11 | CARBON TETRACHLORIDE | 56-23-5 | µg/L | 0.5 | <0.5 | U |
| 12 | CHLOROBENZENE | 108-90-7 | µg/L | 0.5 | <0.5 | U |
| 13 | CHLORODIBROMOMETHANE | 124-48-1 | µg/L | 0.5 | <0.5 | U |
| 14 | CHLOROETHANE | 75-00-3 | µg/L | 0.5 | <0.5 | U |
| 15 | CHLOROFORM | 67-66-3 | µg/L | 0.5 | <0.5 | U |
| 16 | CHLOROMETHANE | 74-87-3 | µg/L | 0.5 | <0.5 | U |
| 17 | 2-CHLOROTOLUENE | 95-49-8 | µg/L | 0.5 | <0.5 | U |
| 18 | 4-CHLOROTOLUENE | 106-43-4 | µg/L | 0.5 | <0.5 | U |
| 19 | 1,2-DIBROMO-3-CHLOROPROPANE | 96-12-8 | µg/L | 0.5 | <0.5 | U |
| 20 | 1,2-DIBROMOETHANE (EDB) | 106-93-4 | µg/L | 0.5 | <0.5 | U |
| 21 | DIBROMOMETHANE | 74-95-3 | µg/L | 0.5 | <0.5 | U |
| 22 | 1,2-DICHLOROBENZENE | 95-50-1 | µg/L | 0.5 | <0.5 | U |
| 23 | 1,3-DICHLOROBENZENE | 541-73-1 | µg/L | 0.5 | <0.5 | U |
| 24 | 1,4-DICHLOROBENZENE | 106-46-7 | µg/L | 0.5 | <0.5 | U |
| 25 | DICHLORODIFLUOROMETHANE | 75-71-8 | µg/L | 0.5 | <0.5 | U |
| 26 | 1,1-DICHLOROETHANE | 75-34-3 | µg/L | 0.5 | <0.5 | U |
| 27 | 1,2-DICHLOROETHANE | 107-06-2 | µg/L | 0.5 | <0.5 | U |
| 28 | 1,1-DICHLOROETHENE | 75-35-4 | µg/L | 0.5 | <0.5 | U |
| 29 | CIS-1,2-DICHLOROETHENE | 156-59-2 | µg/L | 0.5 | <0.5 | U |
| 30 | TRANS-1,2-DICHLOROETHENE | 156-60-5 | µg/L | 0.5 | <0.5 | U |
| 31 | 1,2-DICHLOROPROPANE | 78-87-5 | µg/L | 0.5 | <0.5 | U |
| 32 | 1,3-DICHLOROPROPANE | 142-28-9 | µg/L | 0.5 | <0.5 | U |
| 33 | 2,2-DICHLOROPROPANE | 594-20-7 | µg/L | 0.5 | <0.5 | U |
| 34 | 1,1-DICHLOROPROPENE | 563-58-6 | µg/L | 0.5 | <0.5 | U |
| 35 | CIS-1,3-DICHLOROPROPENE | 10061-01-5 | µg/L | 0.5 | <0.5 | U |
| 36 | TRANS-1,3-DICHLOROPROPENE | 10061-02-6 | µg/L | 0.5 | <0.5 | U |
| 37 | ETHYLBENZENE | 100-41-4 | µg/L | 0.5 | <0.5 | U |
| 38 | HEXACHLOROBUTADIENE | 87-68-3 | µg/L | 0.5 | <0.5 | U |
| 39 | ISOPROPYLBENZENE (CUMENE) | 98-82-8 | µg/L | 0.5 | <0.5 | U |

| # | Component Name | CAS No | Unit | RL | Result | Qualifier |
|----|---|-----------|------|-----|--------|-----------|
| 40 | P-ISOPROPYLTOLUENE | 99-87-6 | µg/L | 0.5 | <0.5 | U |
| 41 | METHYLENE CHLORIDE | 75-09-2 | µg/L | 0.5 | 3.1 | |
| 42 | METHYL-T-BUTYL ETHER (MTBE) | 1634-04-4 | µg/L | 1 | <1 | U |
| 43 | 4-METHYL-2-PENTANONE (MIBK) | 108-10-1 | µg/L | 10 | 2 | J |
| 44 | NAPHTHALENE | 91-20-3 | µg/L | 0.5 | <0.5 | U |
| 45 | N-PROPYLBENZENE | 103-65-1 | µg/L | 0.5 | <0.5 | U |
| 46 | STYRENE | 100-42-5 | µg/L | 0.5 | <0.5 | U |
| 47 | 1,1,1,2-TETRACHLOROETHANE | 630-20-6 | µg/L | 0.5 | <0.5 | U |
| 48 | 1,1,2,2-TETRACHLOROETHANE | 79-34-5 | µg/L | 0.5 | <0.5 | U |
| 49 | TETRACHLOROETHENE | 127-18-4 | µg/L | 0.5 | <0.5 | U |
| 50 | TOLUENE | 108-88-3 | µg/L | 0.5 | <0.5 | U |
| 51 | 1,2,3-TRICHLOROENZENE | 87-61-6 | µg/L | 0.5 | <0.5 | U |
| 52 | 1,2,4-TRICHLOROENZENE | 120-82-1 | µg/L | 0.5 | <0.5 | U |
| 53 | 1,1,1-TRICHLOROETHANE | 71-55-6 | µg/L | 0.5 | <0.5 | U |
| 54 | 1,1,2-TRICHLOROETHANE | 79-00-5 | µg/L | 0.5 | <0.5 | U |
| 55 | TRICHLOROETHENE | 79-01-6 | µg/L | 0.5 | <0.5 | U |
| 56 | TRICHLOROFLUOROMETHANE | 75-69-4 | µg/L | 0.5 | <0.5 | U |
| 57 | 1,2,3-TRICHLOROPROPANE | 96-18-4 | µg/L | 0.5 | <0.5 | U |
| 58 | 1,1,2-TRICHLORO-1,1,2,2-TETRACHLOROETHANE | 76-13-1 | µg/L | 0.5 | <0.5 | U |
| 59 | 1,2,4-TRIMETHYLBENZENE | 95-63-6 | µg/L | 0.5 | <0.5 | U |
| 60 | 1,3,5-TRIMETHYLBENZENE | 108-67-8 | µg/L | 0.5 | <0.5 | U |
| 61 | VINYL CHLORIDE | 75-01-4 | µg/L | 0.5 | <0.5 | U |
| 62 | O-XYLENE | 95-47-6 | µg/L | 0.5 | <0.5 | U |
| 63 | M/P-XYLENE | 108-38-3 | µg/L | 0.5 | <0.5 | U |

Surrogates

| | | Control Limit, % | Surro. Rec.% | |
|---------------------|-------------------------------------|------------------|--------------|-----|
| 1 | 1-BROMO-4-FLUOROBENZENE (4-BROMOFL) | 460-00-4 | 70-129 | 97 |
| 2 | 1,2-DICHLOROETHANE-D4 | 17060-07-0 | 70-129 | 111 |
| 3 | DIBROMOFLUOROMETHANE | 1868-53-7 | 70-122 | 108 |
| 4 | TOLUENE-D8 | 2037-26-5 | 73-129 | 99 |
| # of out-of-control | | | 0 | |

Internal Standard

| | | Control Limit, % | IS Rec.% | |
|---------------------|-----------------------|------------------|----------|----|
| 1 | CHLOROBENZENE-D5 | 3114-55-4 | 50-200 | 98 |
| 2 | 1,4-DICHLOROENZENE-D4 | 3855-82-1 | 50-200 | 97 |
| 3 | FLUOROBENZENE | 462-06-6 | 50-200 | 93 |
| # of out-of-control | | | 0 | |

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

Qualifier: U - Not Detected or less than MDL

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

E - Exceed calibration range

B - A positive value was found in the method blank

D - Diluted

FORM-2A

Applied P & Ch Laboratory

Surrogate Recovery Summary for Method 524.2

Client Name: GEOFON, Inc.

Contract No:

Lab Code: APCL

Case No:

SAS No:

SDG Number: 034425

Project ID: JPL

Project No: 04-4428.10

Sample Matrix: Water

Batch No: 03G3595

| # | Client Sample No | Lab Sample ID | S1 % # | S2 % # | S3 % # | S4 % # | TOT OUT |
|----|------------------|----------------|--------|--------|--------|--------|---------|
| 1 | 03G3595-LCS-01 | 03G3595-LCS-01 | 91 | 95 | 97 | 95 | 0 |
| 2 | MW-20-4MS | 03-4425-6MS | 99 | 95 | 98 | 98 | 0 |
| 3 | MW-20-4MSD | 03-4425-6MSD | 96 | 97 | 98 | 96 | 0 |
| 4 | 03G3595-MB-01 | 03G3595-MB-01 | 96 | 110 | 105 | 98 | 0 |
| 5 | TB-3-7-31-03 | 03-4425-8 | 97 | 111 | 108 | 99 | 0 |
| 6 | EB-3-7-31-03 | 03-4425-2 | 95 | 111 | 107 | 97 | 0 |
| 7 | MW-20-4 | 03-4425-6 | 97 | 111 | 108 | 97 | 0 |
| 8 | DUPE-2-3-Q03 | 03-4425-1 | 96 | 112 | 109 | 99 | 0 |
| 9 | MW-20-1 | 03-4425-3 | 96 | 112 | 109 | 99 | 0 |
| 10 | MW-20-2 | 03-4425-4 | 95 | 115 | 108 | 98 | 0 |
| 11 | MW-20-3 | 03-4425-5 | 96 | 114 | 109 | 98 | 0 |
| 12 | MW-20-5 | 03-4425-7 | 96 | 112 | 109 | 98 | 0 |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | | | | | | | |

QC Control Limit

S1 = 1-BROMO-4-FLUOROBENZENE (4-BROMOFL) 70-129
 S2 = 1,2-DICHLOROETHANE-D4 70-129
 S3 = DIBROMOFLUOROMETHANE 70-122
 S4 = TOLUENE-D8 73-129

Column to be used to flag recovery values:

* - Values outside of contract required QC Limits D - Surrogate diluted out I - Matrix Interference

FORM-3A

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 524.2

| | | |
|---------------------------|------------------------|----------------------|
| Client Name: GEOFON, Inc. | Contract No: | Lab Code: APCL |
| Case No: | SAS No: | Service ID: 34425 |
| Project ID: JPL | Project No: 04-4428.10 | Sample Matrix: Water |
| | Batch No: 03G3595 | |
| LCS Filename: G3595L01 | Date Analyzed: 080703 | Time Analyzed: 11:06 |
| LCSD Filename: - | Date Analyzed: - | Time Analyzed: - |

| Spiked Components | Unit | Spike Added | Concentration | | LCS Rec% # | QC Limit, % REC |
|---------------------|------|-------------|---------------|------|------------|-----------------|
| | | | Unspiked | LCS | | |
| BENZENE | µg/L | 20 | 0 | 18.6 | 93 | 65-120 |
| CHLOROBENZENE | µg/L | 20 | 0 | 20.1 | 101 | 65-134 |
| 1,1-DICHLOROETHENE | µg/L | 20 | 0 | 19.4 | 97 | 65-127 |
| TOLUENE | µg/L | 20 | 0 | 19.1 | 96 | 65-134 |
| TRICHLOROETHENE | µg/L | 20 | 0 | 19.5 | 98 | 67-122 |
| # 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: _____

Data Filename: C:\MSDCHEM\1\DATA\03G3595\G3595L01.D Sample : f=1
Method : C:\MSDCHEM\1\METHODS\E524A002.M Inst. : GCMS-A
Acq. Time : Aug 7 11:06 2003 RF via : Multiple Level Calibration
Method Update: Thu Jul 24 12:40 2003 Operator: zou
Quant. Time : Aug 08 13:02 2003 Multiplr: 1.000000
Print Time : Fri Aug 08 13:02 2003
Miscellaneous :

| ID | Component Name | R.T. | RT0 | DRRT | QIon | Q1 | RF/1000 | C0,ppb | C,ppb | Quality | Note |
|--------------------|-------------------|-------|-------|-------|------|-----|---------|--------|-------|---------|------|
| Internal Standards | | | | | | | | | | | |
| 1 | Fluorobenzene | 7.65 | 7.63 | 0.003 | 96 | 70 | 793.930 | 10.00 | | 0.02 | |
| 47 | Chlorobenzene-d5 | 11.55 | 11.54 | 0.000 | 117 | 82 | 618.724 | 10.00 | | 0.00 | |
| 62 | 1,4-Dichlorobenze | 13.84 | 13.84 | 0.000 | 152 | 150 | 326.278 | 10.00 | | 0.00 | |

| System Monitoring Compounds (Surrogate) | | | | | | | | | | | |
|---|-------------------|-------|-------|-------|------|-----|----------|--------|-------|---------|------|
| ID | Component Name | R.T. | RT0 | DRRT | QIon | Q1 | RF/1000 | C0,ppb | C,ppb | Quality | Note |
| 27 | Di-Br-F-Me (surr) | 6.60 | 6.58 | 0.002 | 111 | 113 | 382.390 | 19.33 | 19.3 | 96.63% | |
| 29 | 1,2-Di-Cl-Et-d4 | 7.11 | 7.08 | 0.002 | 65 | 102 | 305.597 | 19.07 | 19.1 | 95.35% | |
| 55 | toluene-d8 | 9.91 | 9.89 | 0.000 | 98 | 100 | 1484.506 | 19.04 | 19.0 | 95.19% | |
| 70 | 4-Br-1-F-Bz (S3) | 12.74 | 12.74 | 0.000 | 174 | 95 | 493.594 | 18.29 | 18.3 | 91.45% | |

| Target Compounds | | | | | | | | | | | | |
|--------------------------|----|-------------------|------|------|-------|------|-----|----------|--------|-------|---------|------|
| <<< I1 : ISTD ID = 1 >>> | ID | Component Name | R.T. | RT0 | DRRT | QIon | Q1 | RF/1000 | C0,ppb | C,ppb | Quality | Note |
| 3 | 3 | di-Cl-di-F-methan | 1.89 | 1.85 | 0.005 | 85 | 87 | 369.276 | 18.53 | 18.5 | 99 | |
| 4 | 4 | Chloromethane | 2.11 | 2.07 | 0.006 | 50 | 52 | 304.199 | 18.07 | 18.1 | 98 | |
| 2 | 2 | F114 | 2.04 | 2.00 | 0.006 | 85 | 135 | 207.161 | 19.88 | 19.9 | 60 | |
| 5 | 5 | vinyl chloride | 2.23 | 2.19 | 0.005 | 62 | 64 | 359.079 | 18.66 | 18.7 | 99 | |
| 6 | 6 | bromomethane | 2.61 | 2.58 | 0.005 | 94 | 96 | 194.910 | 21.08 | 21.1 | 97 | |
| 7 | 7 | chloroethane | 2.73 | 2.70 | 0.004 | 64 | 66 | 218.671 | 19.09 | 19.1 | 99 | |
| 8 | 8 | tri-Cl-F-methane | 3.03 | 3.00 | 0.005 | 101 | 103 | 546.331 | 19.16 | 19.2 | 100 | |
| 91 | 91 | Acetonitrile X10 | 4.07 | 4.04 | 0.004 | 41 | 40 | 631.430 | 181.28 | 181.3 | 90 | |
| 9 | 9 | acrolein X10 | 3.51 | 3.48 | 0.005 | 56 | 55 | 400.955 | 212.92 | 212.9 | 99 | |
| 11 | 11 | acetone X10 | 3.73 | 3.69 | 0.005 | 43 | 58 | 650.146 | 363.67 | 363.7 | 0 | |
| 12 | 12 | ethyl ether X5 | 3.37 | 3.34 | 0.005 | 59 | 74 | 918.938 | 107.82 | 107.8 | 92 | |
| 13 | 13 | 11-dichloroethene | 3.64 | 3.60 | 0.005 | 61 | 96 | 442.380 | 19.44 | 19.4 | 96 | |
| 14 | 14 | Iodomethane | 3.82 | 3.78 | 0.005 | 142 | 127 | 283.922 | 14.11 | 14.1 | 95 | |
| 15 | 15 | F-113 | 3.65 | 3.62 | 0.005 | 101 | 151 | 337.835 | 21.61 | 21.6 | 89 | |
| 16 | 16 | acrylonitrile X10 | 4.52 | 4.49 | 0.004 | 53 | 52 | 619.965 | 174.68 | 174.7 | 98 | |
| 17 | 17 | carbon disulfide | 3.90 | 3.87 | 0.004 | 76 | 78 | 1085.914 | 18.77 | 18.8 | 100 | |
| 94 | 94 | Isopropyl Alcohol | 4.10 | 4.01 | 0.012 | 45 | 43 | 87.466 | 175.76 | 175.8 | 100 | |
| 18 | 18 | methylene chlorid | 4.22 | 4.19 | 0.004 | 84 | 49 | 373.497 | 18.49 | 18.5 | 99 | |
| 19 | 19 | t-12-di-Cl-ethene | 4.58 | 4.55 | 0.004 | 96 | 61 | 403.208 | 18.80 | 18.8 | 93 | |

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P & Ch Lab** EPA 524.2

Data Filename: C:\MSDCHEM\1\DATA\03G3595\G3595L01.D Sample : f=1
 Method : C:\MSDCHEM\1\METHODS\E524A002.M Inst. : GCMS-A
 Acq. Time : Aug 7 11:06 2003 RF via : Multiple Level Calibration
 Method Update: Thu Jul 24 12:40 2003 Operator: zou
 Quant. Time : Aug 08 13:02 2003 Multiplr: 1.000000
 Print Time : Fri Aug 08 13:03 2003
 Miscellaneous :

| ID | Component Name | R.T. | RT0 | DRRT | Qion | Q1 | RF/1000 | C0,ppb | C,ppb | Quality | Note |
|-----|-------------------|-------|-------|--------|------|-----|----------|--------|-------|---------|------------|
| 20 | t-Bu-Me-ether | 4.60 | 4.56 | 0.005 | 73 | 57 | 679.306 | 19.03 | 19.0 | 95 | ? |
| 95 | Tert butyl alcoho | 4.50 | 4.47 | 0.004 | 59 | 57 | 178.587 | 190.90 | 190.9 | 100 | m? De |
| 94 | allyl chloride | 4.07 | 4.04 | 0.004 | 41 | 76 | 631.430 | 20.22 | 20.2 | 87 | #? 8/10/03 |
| 21 | 11-dichloroethane | 5.12 | 5.09 | 0.004 | 63 | 83 | 619.320 | 18.00 | 18.0 | 99 | |
| 97 | propionitrile | 6.03 | 5.99 | 0.004 | 54 | 51 | 24.827 | 18.64 | 18.6 | 100 | #? |
| 22 | c-12-di-Cl-ethene | 5.92 | 5.89 | 0.003 | 96 | 61 | 410.531 | 18.99 | 19.0 | 86 | ? |
| 23 | 22-Dichloropropan | 5.92 | 5.89 | 0.004 | 77 | 97 | 545.825 | 25.22 | 25.2 | 99 | ? |
| 24 | Br-Cl-methane | 6.25 | 6.23 | 0.003 | 128 | 130 | 192.595 | 18.37 | 18.4 | 100 | ? |
| 25 | chloroform | 6.38 | 6.35 | 0.003 | 83 | 85 | 651.929 | 20.10 | 20.1 | 100 | |
| 26 | tetrahydrofuranX5 | 6.35 | 6.32 | 0.003 | 42 | 72 | 233.474 | 89.54 | 89.5 | 95 | |
| 98 | Diisopropyl ether | 5.24 | 5.22 | 0.003 | 45 | 87 | 993.491 | 18.75 | 18.7 | 98 | |
| 99 | ETBE | 5.74 | 5.72 | 0.003 | 59 | 87 | 816.157 | 20.15 | 20.1 | 98 | |
| 30 | 12-dichloroethane | 7.22 | 7.20 | 0.003 | 64 | 62 | 114.311 | 20.42 | 20.4 | 93 | ? |
| 32 | vinyl acetate X5 | 5.20 | 5.17 | 0.004 | 43 | 86 | 2461.337 | 99.36 | 99.4 | 99 | |
| 92 | Nitro Methane(X10 | 5.83 | 5.80 | 0.004 | 61 | 46 | 82.946 | 188.13 | 188.1 | 84 | |
| 33 | 2-butanoneMEK X10 | 5.95 | 5.92 | 0.003 | 43 | 72 | 822.173 | 246.70 | 246.7 | 97 | ? |
| 93 | Ethyl Acetate X2 | 6.04 | 6.02 | 0.002 | 43 | 61 | 321.252 | 37.07 | 37.1 | 89 | #? |
| 34 | 111-trichloroetha | 6.65 | 6.63 | 0.002 | 97 | 99 | 617.465 | 19.30 | 19.3 | 98 | |
| 35 | 11-Di-Cl-propene | 6.91 | 6.88 | 0.003 | 75 | 110 | 503.514 | 20.83 | 20.8 | 91 | ? |
| 36 | benzene | 7.21 | 7.19 | 0.003 | 78 | 52 | 1502.217 | 18.64 | 18.6 | 98 | ? |
| 37 | CCl4 | 6.91 | 6.89 | 0.003 | 117 | 119 | 592.977 | 20.11 | 20.1 | 100 | ? |
| 100 | Isobutyl alcohol | 7.17 | 7.39 | -0.030 | 43 | 42 | 67.268 | 183.84 | 183.8 | 92 | m? 8/10/03 |
| 38 | thiophene | 7.53 | 7.51 | 0.003 | 84 | 58 | 779.187 | 19.45 | 19.5 | 98 | |
| 39 | 12-di-Cl-propane | 8.56 | 8.54 | 0.002 | 63 | 76 | 333.738 | 18.51 | 18.5 | 95 | |
| 40 | trichloroethene | 8.24 | 8.23 | 0.002 | 130 | 132 | 488.601 | 19.45 | 19.5 | 100 | |
| 41 | dibromomethane | 8.73 | 8.71 | 0.002 | 174 | 172 | 209.626 | 18.33 | 18.3 | 100 | |
| 101 | TAME | 7.41 | 7.39 | 0.002 | 73 | 43 | 714.381 | 20.34 | 20.3 | 97 | |
| 42 | Br-di-Cl-methane | 8.96 | 8.95 | 0.002 | 83 | 85 | 467.835 | 19.81 | 19.8 | 99 | |
| 43 | Me-methacrylate | 8.76 | 8.75 | 0.002 | 69 | 100 | 165.240 | 18.01 | 18.0 | 92 | |
| 44 | 2-ClEt-Vi-ether10 | 9.38 | 9.37 | 0.000 | 63 | 43 | 237.296 | 118.57 | 118.6 | 96 | |
| 45 | c-13-di-Cl-propen | 9.56 | 9.55 | 0.002 | 75 | 110 | 534.067 | 20.38 | 20.4 | 92 | |
| 46 | t-1,3-dichloropro | 10.25 | 10.24 | 0.000 | 75 | 110 | 434.279 | 20.84 | 20.8 | 92 | |

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Data Filename: C:\MSDCHEM\1\DATA\03G3595\G3595L01.D Sample : F=1
 Method : C:\MSDCHEM\1\METHODS\E524A002.M Inst. : GCMS-A
 Acq. Time : Aug 7 11:06 2003 RF via : Multiple Level Calibration
 Method Update: Thu Jul 24 12:40 2003 Operator: zou
 Quant. Time : Aug 08 13:02 2003 Multiplr: 1.000000
 Print Time : Fri Aug 08 13:03 2003
 Miscellaneous :

| ID | Component Name | R.T. | RT0 | DRRT | Qion | Q1 | RF/1000 | C0,ppb | C,ppb | Quality | Note |
|-----|-----------------------|-------|-------|-------|------|-----|----------|--------|-------|---------|------|
| <<< | I2 : ISTD ID = 47 >>> | | | | | | | | | | |
| 48 | 112-tri-Cl-Et | 10.46 | 10.45 | 0.000 | 97 | 83 | 266.282 | 17.83 | 17.8 | 96 | |
| 49 | 13-di-Cl-propane | 10.65 | 10.64 | 0.000 | 76 | 78 | 425.025 | 18.05 | 18.0 | 100 | ? |
| 50 | Et methacrylate | 10.37 | 10.37 | 0.000 | 69 | 99 | 352.814 | 18.85 | 18.8 | 93 | |
| 51 | di-Br-Cl-methane | 10.91 | 10.90 | 0.000 | 129 | 127 | 360.265 | 19.22 | 19.2 | 100 | |
| 52 | bromoform | 12.42 | 12.41 | 0.000 | 173 | 174 | 206.684 | 18.03 | 18.0 | 100 | |
| 53 | 1,4-dichlorobutan | 12.68 | 12.67 | 0.000 | 55 | 41 | 385.529 | 17.58 | 17.6 | 96 | |
| 54 | MIBK | 9.77 | 9.76 | 0.000 | 43 | 58 | 167.522 | 18.59 | 18.6 | 93 | |
| 56 | toluene | 9.99 | 9.98 | 0.000 | 91 | 92 | 1713.697 | 19.12 | 19.1 | 98 | |
| 57 | 2-hexanone X5 | 10.76 | 10.75 | 0.000 | 43 | 58 | 638.973 | 104.47 | 104.5 | 94 | |
| 58 | 12-dibromoethane | 11.03 | 11.03 | 0.000 | 107 | 109 | 264.841 | 17.98 | 18.0 | 98 | |
| 59 | tetra-Cl-ethene | 10.64 | 10.64 | 0.000 | 166 | 168 | 514.519 | 19.22 | 19.2 | 98 | ? |
| 60 | chlorobenzene | 11.57 | 11.57 | 0.000 | 112 | 77 | 1169.530 | 20.06 | 20.1 | 92 | ? |
| 61 | 1112-tetra-Cl-Et | 11.66 | 11.66 | 0.000 | 131 | 133 | 418.584 | 18.35 | 18.4 | 99 | |
| <<< | I3 : ISTD ID = 62 >>> | | | | | | | | | | |
| 63 | 1-chlorohexane | 11.56 | 11.56 | 0.000 | 93 | 55 | 220.620 | 20.73 | 20.7 | 97 | ? |
| 64 | Et-Bz | 11.70 | 11.69 | 0.000 | 91 | 106 | 1969.836 | 19.29 | 19.3 | 97 | |
| 65 | m/p-Xylenes X2 | 11.82 | 11.82 | 0.000 | 91 | 106 | 3028.780 | 39.24 | 39.2 | 98 | |
| 66 | styrene | 12.24 | 12.23 | 0.000 | 104 | 78 | 1168.041 | 19.91 | 19.9 | 93 | ? |
| 67 | o-xylene | 12.22 | 12.22 | 0.000 | 91 | 106 | 1557.202 | 20.11 | 20.1 | 96 | ? |
| 68 | 1122-Tetra-Cl-Et | 12.87 | 12.87 | 0.000 | 83 | 85 | 286.399 | 16.62 | 16.6 | 99 | |
| 69 | 123-tri-Cl-Pr | 12.91 | 12.91 | 0.000 | 110 | 97 | 89.557 | 17.36 | 17.4 | 98 | ? |
| 71 | Isopropylbenzene | 12.60 | 12.59 | 0.000 | 105 | 120 | 2074.435 | 20.91 | 20.9 | 98 | |
| 72 | bromobenzene | 12.89 | 12.89 | 0.000 | 156 | 158 | 504.142 | 18.92 | 18.9 | 99 | ? |
| 92 | t-1,4-dichloro-2- | 12.92 | 12.92 | 0.000 | 89 | 53 | 53.051 | 18.16 | 18.2 | 89 | ? |
| 73 | n-propylbenzene | 13.00 | 12.99 | 0.000 | 120 | 78 | 638.876 | 20.56 | 20.6 | 92 | |
| 74 | 2-Cl-Toluene | 13.08 | 13.08 | 0.000 | 126 | 128 | 542.111 | 19.74 | 19.7 | 98 | |
| 75 | 4-Cl-Toluene | 13.19 | 13.18 | 0.000 | 126 | 128 | 540.239 | 19.34 | 19.3 | 99 | ? |
| 76 | 135-tri-Me-Benzen | 13.16 | 13.16 | 0.000 | 105 | 120 | 1765.629 | 20.68 | 20.7 | 98 | ? |
| 77 | 4-Iso-Pr-toluene | 13.81 | 13.81 | 0.000 | 119 | 134 | 1999.950 | 20.97 | 21.0 | 98 | ? |
| 78 | 124-tri-Me-Benzen | 13.52 | 13.51 | 0.000 | 105 | 120 | 1791.811 | 20.15 | 20.1 | 96 | |
| 79 | tert-butylbenzene | 13.47 | 13.47 | 0.000 | 119 | 91 | 1659.210 | 20.35 | 20.3 | 94 | |

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

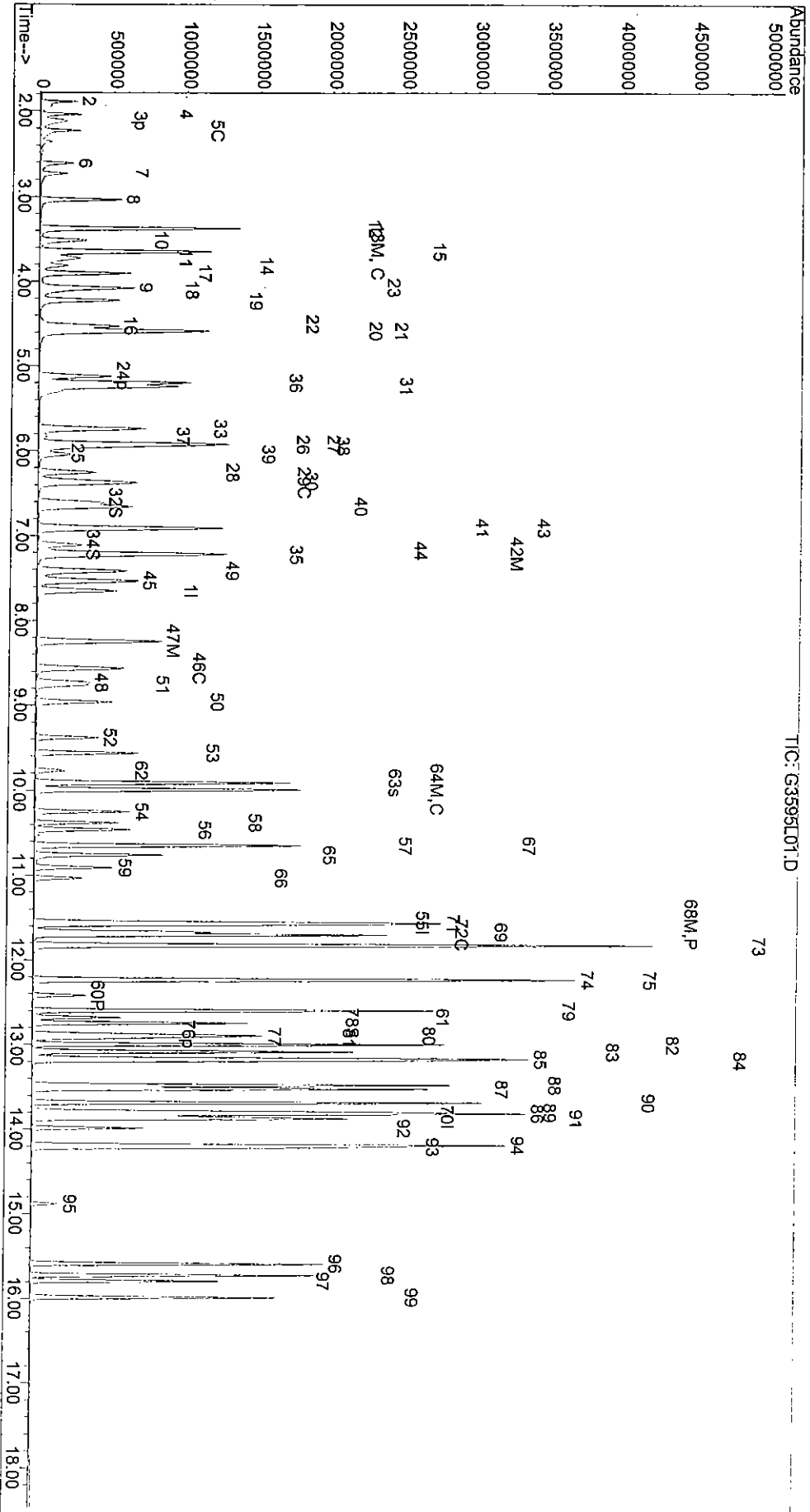
Data Filename: C:\MSDCHEM\1\DATA\03G3595\G3595L01.D Sample : F=1
 Method : C:\MSDCHEM\1\METHODS\E524A002.M Inst. : GCMS-A
 Acq. Time : Aug 7 11:06 2003 RF via : Multiple Level Calibration
 Method Update: Thu Jul 24 12:40 2003 Operator: zou
 Quant. Time : Aug 08 13:02 2003 Multiplr: 1.000000
 Print Time : Fri Aug 08 13:03 2003
 Miscelaneous :

| ID | Component Name | R.T. | RT0 | DRRT | Qion | Q1 | RF/1000 | C0,ppb | C,ppb | Quality | Note |
|----|------------------|-------|-------|-------|------|-----|----------|--------|-------|---------|------|
| 80 | 13-DCB | 13.79 | 13.78 | 0.000 | 146 | 148 | 1042.667 | 18.62 | 18.6 | 100 | ? |
| 81 | sec-butylbenzene | 13.68 | 13.68 | 0.000 | 105 | 134 | 2413.449 | 21.03 | 21.0 | 97 | |
| 82 | 14-DCB | 13.87 | 13.87 | 0.000 | 146 | 148 | 1033.426 | 19.40 | 19.4 | 98 | |
| 83 | Cl-benzyl | 13.98 | 13.98 | 0.000 | 126 | 91 | 140.844 | 26.10 | 26.1 | 75 | # |
| 84 | 12-DCB | 14.21 | 14.21 | 0.000 | 146 | 148 | 923.354 | 18.51 | 18.5 | 100 | ? |
| 85 | n-butylbenzene | 14.18 | 14.18 | 0.000 | 134 | 91 | 564.528 | 20.19 | 20.2 | 87 | #? |
| 86 | 12-diBr-2-Cl-Pra | 14.88 | 14.88 | 0.000 | 157 | 155 | 62.189 | 17.71 | 17.7 | 97 | |
| 87 | 124-tri-Cl-Bz | 15.58 | 15.58 | 0.000 | 180 | 182 | 689.242 | 21.34 | 21.3 | 100 | |
| 88 | naphthalene | 15.79 | 15.78 | 0.000 | 128 | 129 | 1114.456 | 19.02 | 19.0 | 99 | |
| 89 | hx-Cl-butadiene | 15.72 | 15.72 | 0.000 | 225 | 258 | 388.066 | 19.85 | 19.8 | 97 | |
| 90 | 123-Tri-Cl-Bz | 15.98 | 15.98 | 0.000 | 180 | 182 | 586.574 | 20.24 | 20.2 | 100 | |

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Data Filename: C:\MSDCHEM\1\DATA\03G3595L01.D
 Method : C:\MSDCHEM\1\METHODS\E524A002.M
 Acq. Time : Aug 7 11:06 2003
 Method Update: Thu Jul 24 12:40 2003
 Quant. Time : Aug 08 13:02 2003
 Print Time : Fri Aug 08 13:03 2003
 Miscellaneous :

Sample : F=1
 Inst. : GCMS-A
 RF via : Multiple Level Calibration
 Operator: zou
 Multiplr: 1.000000



FORM-3A

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 524.2

Client Name: GEOFON, Inc.

Contract No:

Lab Code: APCL

Case No:

SAS No:

Service ID: 34425

Project ID: JPL

Project No: 04-4428.10

Sample Matrix: Water

Batch No: 03G3595

MS Filename: G3595M01

Date Analyzed: 080703

Time Analyzed: 11:32

MSD Filename: G3595N01

Date Analyzed: 080703

Time Analyzed: 11:58

MS Sample No: MW-20-4

Sample Lab ID: 03-4425-6

| Spiked Components | Unit | Spike Added | Concentration | | MS Rec% # | QC Limit, % REC |
|---------------------|------|-------------|---------------|------|-----------|-----------------|
| | | | Unspiked | MS | | |
| BENZENE | µg/L | 20 | 0 | 18.8 | 94 | 65-121 |
| CHLOROBENZENE | µg/L | 20 | 0 | 20.5 | 103 | 65-134 |
| 1,1-DICHLOROETHENE | µg/L | 20 | 0 | 19.5 | 98 | 65-127 |
| TOLUENE | µg/L | 20 | 0 | 19.4 | 97 | 65-134 |
| TRICHLOROETHENE | µg/L | 20 | 0 | 19.8 | 99 | 65-125 |
| # of Out-of-control | | | | | 0 | |

| Spiked Components | Unit | Spike Added | MSD Concentration | MSD Rec% # | RPD% # | QC Limit, % | |
|---------------------|------|-------------|-------------------|------------|--------|-------------|--------|
| | | | | | | RPD | REC |
| BENZENE | µg/L | 20 | 18.9 | 95 | 1 | 28 | 65-121 |
| CHLOROBENZENE | µg/L | 20 | 20.3 | 102 | 1 | 35 | 65-134 |
| 1,1-DICHLOROETHENE | µg/L | 20 | 19.2 | 96 | 2 | 31 | 65-127 |
| TOLUENE | µg/L | 20 | 19.3 | 97 | 0 | 35 | 65-134 |
| TRICHLOROETHENE | µg/L | 20 | 19.7 | 99 | 0 | 30 | 65-125 |
| # 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: _____

Data Filename: C:\MSDCHEM\1\DATA\03G3595\G3595M01.D Sample : f=1 \$4425-06
 Method : C:\MSDCHEM\1\METHODS\E524A002.M Inst. : GCMS-A
 Acq. Time : Aug 7 11:32 2003 RF via : Multiple Level Calibration
 Method Update: Thu Jul 24 12:40 2003 Operator: zou
 Quant. Time : Aug 08 13:06 2003 Multiplr: 1.000000
 Print Time : Fri Aug 08 13:06 2003
 Miscellaneous :

| ID | Component Name | R.T. | RT0 | DRRT | QIon | Q1 | RF/1000 | C0,ppb | C,ppb | Quality | Note |
|--------------------|---------------------|-------|-------|-------|------|-----|---------|--------|-------|---------|------|
| Internal Standards | | | | | | | | | | | |
| 1 | Fluorobenzene | 7.65 | 7.63 | 0.003 | 96 | 70 | 813.408 | 10.00 | | 0.02 | |
| 47 | Chlorobenzene-d5 | 11.54 | 11.54 | 0.000 | 117 | 82 | 623.673 | 10.00 | | 0.00 | |
| 62 | 1,4-Dichlorobenzene | 13.84 | 13.84 | 0.000 | 152 | 150 | 310.405 | 10.00 | | 0.00 | |

| System Monitoring Compounds (Surrogate) | | | | | | | | | | | |
|---|-------------------|-------|-------|-------|-----|-----|----------|-------|--|------|--------|
| 27 | Di-Br-F-Me (surr) | 6.60 | 6.58 | 0.002 | 111 | 113 | 395.218 | 19.50 | | 19.5 | 97.48% |
| 29 | 1,2-Di-Cl-Et-d4 (| 7.11 | 7.08 | 0.002 | 65 | 102 | 311.505 | 18.97 | | 19.0 | 94.87% |
| 55 | toluene-d8 | 9.91 | 9.89 | 0.000 | 98 | 100 | 1535.715 | 19.54 | | 19.5 | 97.69% |
| 70 | 4-Br-1-F-Bz (S3) | 12.74 | 12.74 | 0.000 | 174 | 95 | 510.658 | 19.89 | | 19.9 | 99.45% |

| Target Compounds | | | | | | | | | | | | |
|------------------|----|-------------------|------|------|-------|-----|-----|----------|--------|-------|-----|--------|
| <<< | I1 | : ISTD ID = 1 | >>> | | | | | | | | | Qvalue |
| 3 | 3 | di-Cl-di-F-methan | 1.89 | 1.85 | 0.005 | 85 | 87 | 381.912 | 18.70 | 18.7 | 100 | |
| 4 | 4 | Chloromethane | 2.12 | 2.07 | 0.006 | 50 | 52 | 299.727 | 17.35 | 17.3 | 100 | |
| 2 | 2 | F114 | 2.04 | 2.00 | 0.006 | 85 | 135 | 217.241 | 20.35 | 20.3 | 59 | |
| 5 | 5 | vinyl chloride | 2.23 | 2.19 | 0.005 | 62 | 64 | 371.362 | 18.83 | 18.8 | 98 | |
| 6 | 6 | bromomethane | 2.61 | 2.58 | 0.005 | 94 | 96 | 132.682 | 14.01 | 14.0 | 99 | |
| 7 | 7 | chloroethane | 2.73 | 2.70 | 0.004 | 64 | 66 | 225.408 | 19.21 | 19.2 | 99 | |
| 8 | 8 | tri-Cl-F-methane | 3.03 | 3.00 | 0.005 | 101 | 103 | 573.102 | 19.62 | 19.6 | 100 | |
| 91 | 91 | Acetonitrile X10 | 4.07 | 4.04 | 0.004 | 41 | 40 | 647.925 | 181.56 | 181.6 | 90 | |
| 9 | 9 | acrolein X10 | 3.51 | 3.48 | 0.005 | 56 | 55 | 332.192 | 169.55 | 169.6 | 98 | |
| 11 | 11 | acetone X10 | 3.72 | 3.69 | 0.004 | 43 | 58 | 375.738 | 192.11 | 192.1 | 100 | |
| 12 | 12 | ethyl ether X5 | 3.37 | 3.34 | 0.005 | 59 | 74 | 935.434 | 107.07 | 107.1 | 91 | |
| 13 | 13 | 11-dichloroethene | 3.64 | 3.60 | 0.005 | 61 | 96 | 454.299 | 19.48 | 19.5 | 98 | |
| 14 | 14 | Iodomethane | 3.82 | 3.78 | 0.005 | 142 | 127 | 483.819 | 23.47 | 23.5 | 94 | |
| 15 | 15 | F-113 | 3.65 | 3.62 | 0.005 | 101 | 151 | 348.580 | 21.77 | 21.8 | 89 | |
| 16 | 16 | acrylonitrile X10 | 4.52 | 4.49 | 0.004 | 53 | 52 | 639.436 | 175.85 | 175.9 | 97 | |
| 17 | 17 | carbon disulfide | 3.91 | 3.87 | 0.005 | 76 | 78 | 1191.042 | 20.09 | 20.1 | 100 | |
| 94 | 94 | Isopropyl Alcohol | 4.07 | 4.01 | 0.008 | 45 | 43 | 93.168 | 182.56 | 182.6 | 100 | |
| 18 | 18 | methylene chlorid | 4.22 | 4.19 | 0.005 | 84 | 49 | 394.484 | 19.10 | 19.1 | 100 | |
| 19 | 19 | t-12-di-Cl-ethene | 4.58 | 4.55 | 0.004 | 96 | 61 | 418.205 | 19.03 | 19.0 | 93 | |

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

m *08/08/03*
m *08/08/03*
m *08/08/03*

Data Filename: C:\MSDCHEM\1\DATA\03G3595\G3595M01.D
 Method : C:\MSDCHEM\1\METHODS\E524A002.M
 Acq. Time : Aug 7 11:32 2003
 Method Update: Thu Jul 24 12:40 2003
 Quant. Time : Aug 08 13:06 2003
 Print Time : Fri Aug 08 13:06 2003
 Miscellaneous :

Sample : F=1 \$4425-06
 Inst. : GCMS-A
 RF via : Multiple Level Calibration
 Operator: zou
 Multiplr: 1.000000

| ID | Component Name | R.T. | RT0 | DRRT | Qion | Q1 | RF/1000 | C0,ppb | C,ppb | Quality | Note |
|-----|-------------------|-------|-------|--------|------|-----|----------|--------|-------|---------|-----------|
| 20 | t-Bu-Me-ether | 4.60 | 4.56 | 0.005 | 73 | 57 | 708.053 | 19.36 | 19.4 | 96 | ? |
| 95 | Tert butyl alcoho | 4.49 | 4.47 | 0.003 | 59 | 57 | 200.206 | 206.61 | 206.6 | 100 | ? |
| 94 | allyl chloride | 4.07 | 4.04 | 0.004 | 41 | 76 | 647.925 | 20.25 | 20.2 | 86 | #228/8/03 |
| 21 | 11-dichloroethane | 5.12 | 5.09 | 0.004 | 63 | 83 | 644.781 | 18.29 | 18.3 | 100 | |
| 97 | propionitrile | 6.01 | 5.99 | 0.002 | 54 | 51 | 27.591 | 20.22 | 20.2 | 100 | |
| 22 | c-12-di-Cl-ethene | 5.92 | 5.89 | 0.003 | 96 | 61 | 425.635 | 19.21 | 19.2 | 91 | ? |
| 23 | 22-Dichloropropan | 5.92 | 5.89 | 0.003 | 77 | 97 | 587.004 | 26.52 | 26.5 | 98 | ? |
| 24 | Br-Cl-methane | 6.25 | 6.23 | 0.003 | 128 | 130 | 198.167 | 18.45 | 18.4 | 94 | ? |
| 25 | chloroform | 6.37 | 6.35 | 0.003 | 83 | 85 | 676.723 | 20.37 | 20.4 | 98 | ? |
| 26 | tetrahydrofuranX5 | 6.35 | 6.32 | 0.003 | 42 | 72 | 241.522 | 90.41 | 90.4 | 96 | ? |
| 98 | Disopropyl ether | 5.24 | 5.22 | 0.003 | 45 | 87 | 1021.207 | 18.81 | 18.8 | 99 | ? |
| 99 | ETBE | 5.74 | 5.72 | 0.003 | 59 | 87 | 843.058 | 20.31 | 20.3 | 98 | |
| 30 | 12-dichloroethane | 7.22 | 7.20 | 0.003 | 64 | 62 | 117.841 | 20.55 | 20.5 | 94 | ? |
| 32 | vinyl acetate X5 | 5.20 | 5.17 | 0.004 | 43 | 86 | 2484.946 | 97.91 | 97.9 | 100 | |
| 92 | Nitro Methane(X10 | 5.82 | 5.80 | 0.003 | 61 | 46 | 95.645 | 211.74 | 211.7 | 82 | |
| 33 | 2-butanoneMEK X10 | 5.95 | 5.92 | 0.003 | 43 | 72 | 650.570 | 188.62 | 188.6 | 97 | |
| 93 | Ethyl Acetate x2 | 6.04 | 6.02 | 0.003 | 43 | 61 | 334.180 | 37.64 | 37.6 | 90 | # |
| 34 | 111-trichloroetha | 6.65 | 6.63 | 0.002 | 97 | 99 | 638.865 | 19.50 | 19.5 | 99 | |
| 35 | 11-Di-Cl-propene | 6.91 | 6.88 | 0.003 | 75 | 110 | 527.807 | 21.32 | 21.3 | 90 | ? |
| 36 | benzene | 7.21 | 7.19 | 0.003 | 78 | 52 | 1554.235 | 18.83 | 18.8 | 98 | ? |
| 37 | CCl4 | 6.91 | 6.89 | 0.003 | 117 | 119 | 610.151 | 20.19 | 20.2 | 100 | ? |
| 100 | Isobutyl alcohol | 7.17 | 7.39 | -0.030 | 43 | 42 | 67.710 | 180.79 | 180.8 | 96 | 08/08/03 |
| 38 | thiophene | 7.53 | 7.51 | 0.002 | 84 | 58 | 807.069 | 19.66 | 19.7 | 98 | |
| 39 | 12-di-Cl-propane | 8.56 | 8.54 | 0.002 | 63 | 76 | 345.921 | 18.73 | 18.7 | 97 | |
| 40 | trichloroethene | 8.24 | 8.23 | 0.002 | 130 | 132 | 509.410 | 19.80 | 19.8 | 99 | |
| 41 | dibromomethane | 8.73 | 8.71 | 0.002 | 174 | 172 | 216.661 | 18.49 | 18.5 | 99 | |
| 101 | TAME | 7.41 | 7.39 | 0.002 | 73 | 43 | 747.246 | 20.76 | 20.8 | 97 | |
| 42 | Br-di-Cl-methane | 8.96 | 8.95 | 0.002 | 83 | 85 | 476.893 | 19.71 | 19.7 | 100 | |
| 43 | Me-methacrylate | 8.76 | 8.75 | 0.002 | 69 | 100 | 170.901 | 18.18 | 18.2 | 92 | |
| 44 | 2-ClEt-Vl-ether10 | 9.57 | 9.37 | 0.026 | 63 | 43 | 2.421 | 16.44 | 16.4 | 28 | #? |
| 45 | c-13-di-Cl-propen | 9.56 | 9.55 | 0.002 | 75 | 110 | 545.702 | 20.33 | 20.3 | 93 | ? |
| 46 | t-1,3-dichloropro | 10.25 | 10.24 | 0.000 | 75 | 110 | 446.469 | 20.91 | 20.9 | 93 | |

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Data Filename: C:\MSDCHEM\1\DATA\03G3595\G3595M01.D Sample : f=1 \$4425-06
 Method : C:\MSDCHEM\1\METHODS\E524A002.M Inst. : GCMS-A
 Acq. Time : Aug 7 11:32 2003 RF via : Multiple Level Calibration
 Method Update: Thu Jul 24 12:40 2003 Operator: zou
 Quant. Time : Aug 08 13:06 2003 Multiplr: 1.000000
 Print Time : Fri Aug 08 13:06 2003
 Miscellaneous :

| ID | Component Name | R.T. | RT0 | DRRT | Qion | Q1 | RF/1000 | C0,ppb | C,ppb | Quality | Note |
|--------|--------------------|-------|-------|-------|------|-----|----------|--------|-------|---------|------|
| <<< 12 | : ISTD ID = 47 >>> | | | | | | | | | | |
| 48 | 112-tri-Cl-Et | 10.46 | 10.45 | 0.000 | 97 | 83 | 268.579 | 17.84 | 17.8 | 96 | |
| 49 | 13-di-Cl-propane | 10.65 | 10.64 | 0.001 | 76 | 78 | 430.303 | 18.12 | 18.1 | 100 | |
| 50 | Et methacrylate | 10.38 | 10.37 | 0.000 | 69 | 99 | 364.301 | 19.28 | 19.3 | 94 | |
| 51 | di-Br-Cl-methane | 10.91 | 10.90 | 0.000 | 129 | 127 | 368.083 | 19.48 | 19.5 | 99 | |
| 52 | bromoform | 12.42 | 12.41 | 0.000 | 173 | 174 | 209.966 | 18.17 | 18.2 | 100 | |
| 53 | 1,4-dichlorobutan | 12.68 | 12.67 | 0.000 | 55 | 41 | 387.686 | 17.54 | 17.5 | 95 | |
| 54 | MIBK | 9.77 | 9.76 | 0.000 | 43 | 58 | 170.391 | 18.76 | 18.8 | 92 | |
| 56 | toluene | 9.99 | 9.98 | 0.001 | 91 | 92 | 1749.406 | 19.37 | 19.4 | 99 | |
| 57 | 2-hexanone X5 | 10.76 | 10.75 | 0.000 | 43 | 58 | 574.987 | 93.27 | 93.3 | 95 | |
| 58 | 12-dibromoethane | 11.03 | 11.03 | 0.000 | 107 | 109 | 271.410 | 18.28 | 18.3 | 98 | |
| 59 | tetra-Cl-ethene | 10.65 | 10.64 | 0.001 | 166 | 168 | 531.592 | 19.70 | 19.7 | 98 | |
| 60 | chlorobenzene | 11.58 | 11.57 | 0.000 | 112 | 77 | 1202.279 | 20.46 | 20.5 | 91 | |
| 61 | 1112-tetra-Cl-Et | 11.66 | 11.66 | 0.000 | 131 | 133 | 425.717 | 18.52 | 18.5 | 98 | |
| <<< 13 | : ISTD ID = 62 >>> | | | | | | | | | | |
| 63 | 1-chlorohexane | 11.56 | 11.56 | 0.000 | 93 | 55 | 226.646 | 22.39 | 22.4 | 96 | |
| 64 | Et-Bz | 11.70 | 11.69 | 0.000 | 91 | 106 | 2026.841 | 20.87 | 20.9 | 96 | |
| 65 | m/p-Xylenes X2 | 11.82 | 11.82 | 0.000 | 91 | 106 | 3115.832 | 42.44 | 42.4 | 97 | |
| 66 | styrene | 12.24 | 12.23 | 0.000 | 104 | 78 | 1208.705 | 21.65 | 21.7 | 93 | |
| 67 | o-xylene | 12.22 | 12.22 | 0.000 | 91 | 106 | 1605.946 | 21.80 | 21.8 | 97 | |
| 68 | 1122-Tetra-Cl-Et | 12.87 | 12.87 | 0.000 | 83 | 85 | 290.212 | 17.70 | 17.7 | 98 | |
| 69 | 123-tri-Cl-Pr | 12.91 | 12.91 | 0.000 | 110 | 97 | 88.445 | 18.02 | 18.0 | 100 | |
| 71 | isopropylbenzene | 12.60 | 12.59 | 0.000 | 105 | 120 | 2124.998 | 22.52 | 22.5 | 98 | |
| 72 | bromobenzene | 12.89 | 12.89 | 0.000 | 156 | 158 | 515.846 | 20.35 | 20.4 | 98 | |
| 92 | t-1,4-dichloro-2- | 12.92 | 12.92 | 0.000 | 89 | 53 | 55.583 | 19.87 | 19.9 | 83 | |
| 73 | n-propylbenzene | 13.00 | 12.99 | 0.000 | 120 | 78 | 656.002 | 22.19 | 22.2 | 91 | |
| 74 | 2-Cl-Toluene | 13.08 | 13.08 | 0.000 | 126 | 128 | 555.051 | 21.25 | 21.2 | 98 | |
| 75 | 4-Cl-Toluene | 13.19 | 13.18 | 0.000 | 126 | 128 | 552.258 | 20.78 | 20.8 | 99 | |
| 76 | 135-tri-Me-Benzen | 13.16 | 13.16 | 0.000 | 105 | 120 | 1814.924 | 22.34 | 22.3 | 97 | |
| 77 | 4-iso-Pr-toluene | 13.81 | 13.81 | 0.000 | 119 | 134 | 2053.468 | 22.63 | 22.6 | 98 | |
| 78 | 124-tri-Me-Benzen | 13.52 | 13.51 | 0.000 | 105 | 120 | 1831.600 | 21.65 | 21.6 | 96 | |
| 79 | tert-butylbenzene | 13.47 | 13.47 | 0.000 | 119 | 91 | 1702.030 | 21.94 | 21.9 | 94 | |

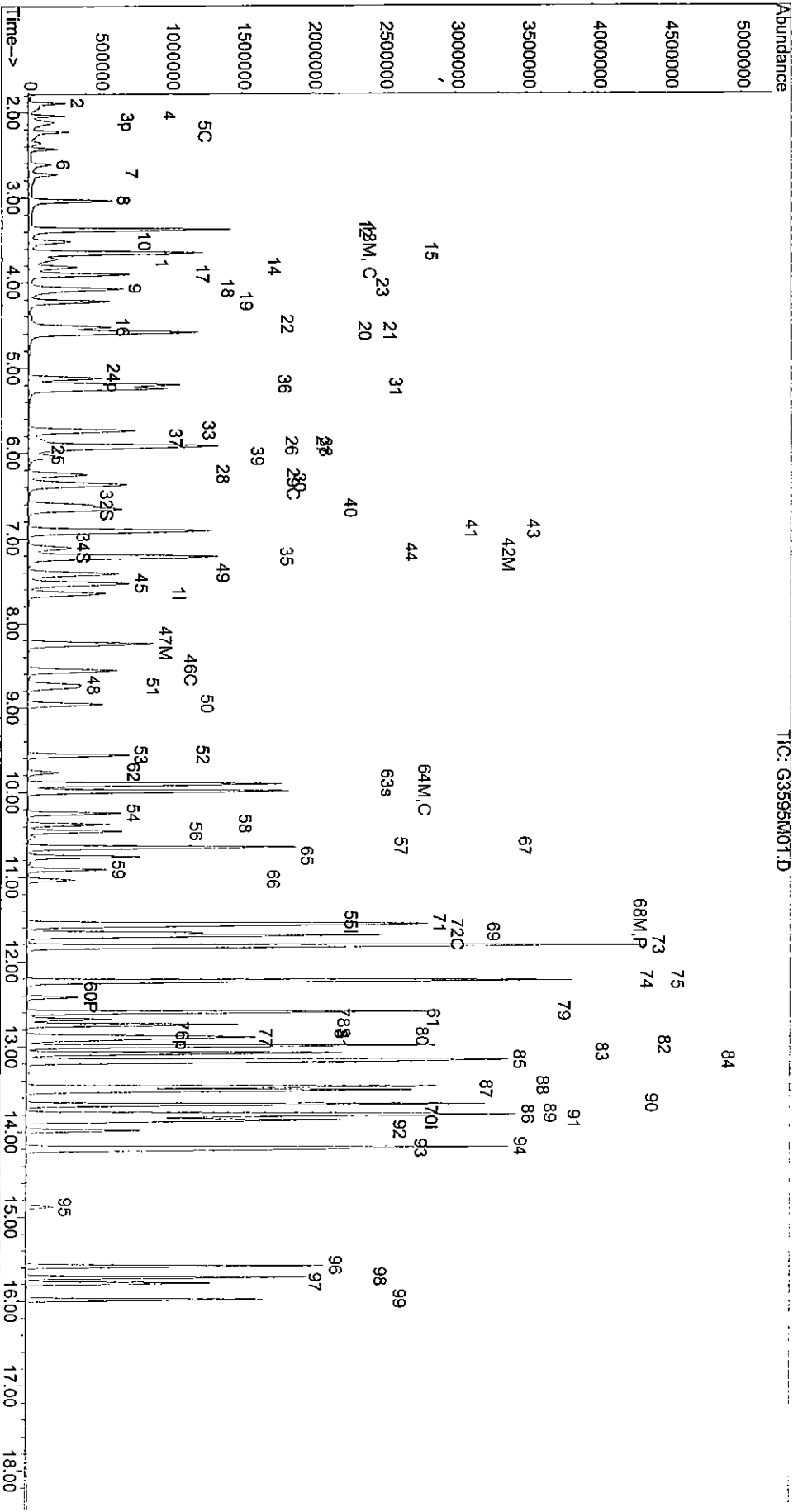
= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Data Filename: C:\MSDCHEM\1\DATA\03G3595\G3595M01.D Sample : F=1 \$4425-06
 Method : C:\MSDCHEM\1\METHODS\E524A002.M Inst. : GCMS-A
 Acq. Time : Aug 7 11:32 2003 RF via : Multiple Level Calibration
 Method Update: Thu Jul 24 12:40 2003 Operator: zou
 Quant. Time : Aug 08 13:06 2003 Multiplr: 1.000000
 Print Time : Fri Aug 08 13:06 2003
 Miscaneous :

| ID | Component Name | R.T. | RT0 | DRRT | Qion | Q1 | RF/1000 | C0,ppb | C,ppb | Quality | Note |
|----|------------------|-------|-------|-------|------|-----|----------|--------|-------|---------|------|
| 80 | 13-DCB | 13.79 | 13.78 | 0.000 | 146 | 148 | 1067.975 | 20.04 | 20.0 | 100 | ? |
| 81 | sec-butylbenzene | 13.68 | 13.68 | 0.000 | 105 | 134 | 2471.219 | 22.63 | 22.6 | 97 | |
| 82 | 14-DCB | 13.87 | 13.87 | 0.000 | 146 | 148 | 1052.303 | 20.77 | 20.8 | 99 | |
| 83 | Cl-benzyl | 13.98 | 13.98 | 0.000 | 126 | 91 | 146.524 | 28.54 | 28.5 | 74 | # |
| 84 | 12-DCB | 14.21 | 14.21 | 0.000 | 146 | 148 | 935.960 | 19.73 | 19.7 | 100 | ? |
| 85 | n-butylbenzene | 14.18 | 14.18 | 0.000 | 134 | 91 | 578.129 | 21.71 | 21.7 | 84 | #? |
| 86 | 12-diBr-2-Cl-Pra | 14.88 | 14.88 | 0.000 | 157 | 155 | 65.296 | 19.54 | 19.5 | 100 | |
| 87 | 124-tri-Cl-Bz | 15.58 | 15.58 | 0.000 | 180 | 182 | 706.807 | 23.01 | 23.0 | 100 | |
| 88 | naphthalene | 15.79 | 15.78 | 0.000 | 128 | 129 | 1132.987 | 20.32 | 20.3 | 100 | |
| 89 | hx-Cl-butadiene | 15.72 | 15.72 | 0.000 | 225 | 258 | 391.640 | 21.06 | 21.1 | 97 | |
| 90 | 123-Tri-Cl-Bz | 15.98 | 15.98 | 0.000 | 180 | 182 | 589.534 | 21.38 | 21.4 | 99 | |

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Data Filename: C:\MSDCHEM\1\DATA\03G3595\G3595M01.D Sample : f=1 \$4425-06
 Method : C:\MSDCHEM\1\METHODS\E524A002.M Inst. : GCMS-A
 Acq. Time : Aug 7 11:32 2003 RF via : Multiple Level Calibration
 Method Update: Thu Jul 24 12:40 2003 Operator: zou
 Quant. Time : Aug 08 13:06 2003 Multiplr: 1.000000
 Print Time : Fri Aug 08 13:06 2003
 Miscellaneous :



Data Filename: C:\MSDCHEM\1\DATA\03G3595\G3595N01.D
 Method : C:\MSDCHEM\1\METHODS\E524A002.M
 Acq. Time : Aug 7 11:58 2003
 Method Update: Thu Jul 24 12:40 2003
 Quant. Time : Aug 08 13:11 2003
 Print Time : Fri Aug 08 13:11 2003
 Miscellaneous :

Sample : F=1 \$4425-06
 Inst. : GCMS-A
 RF via : Multiple Level Calibration
 Operator: zou
 Multiplr: 1.000000

| ID | Component Name | R.T. | RT0 | DRRT | Qion | Q1 | RF/1000 | C0,ppb | C,ppb | Quality | Note |
|-----|-------------------|-------|-------|--------|------|-----|----------|--------|-------|---------|-----------|
| 20 | t-Bu-Me-ether | 4.60 | 4.56 | 0.005 | 73 | 57 | 753.421 | 20.43 | 20.4 | 95 | ? |
| 95 | Tert butyl alcoho | 4.51 | 4.47 | 0.006 | 59 | 57 | 215.385 | 218.83 | 218.8 | 100 | m2 |
| 94 | allyl chloride | 4.07 | 4.04 | 0.004 | 41 | 76 | 663.719 | 20.57 | 20.6 | 85 | #? 8/8/03 |
| 21 | 11-dichloroethane | 5.12 | 5.09 | 0.004 | 63 | 83 | 653.135 | 18.37 | 18.4 | 99 | |
| 97 | propionitrile | 6.03 | 5.99 | 0.004 | 54 | 51 | 28.168 | 20.47 | 20.5 | 100 | #? |
| 22 | c-12-di-Cl-ethene | 5.92 | 5.89 | 0.003 | 96 | 61 | 429.744 | 19.24 | 19.2 | 94 | ? |
| 23 | 22-Dichloropropan | 5.92 | 5.89 | 0.004 | 77 | 97 | 576.534 | 25.81 | 25.8 | 96 | ? |
| 24 | Br-Cl-methane | 6.25 | 6.23 | 0.003 | 128 | 130 | 204.795 | 18.91 | 18.9 | 96 | ? |
| 25 | chloroform | 6.37 | 6.35 | 0.002 | 83 | 85 | 686.182 | 20.49 | 20.5 | 99 | ? |
| 26 | tetrahydrofuranX5 | 6.35 | 6.32 | 0.003 | 42 | 72 | 262.264 | 97.37 | 97.4 | 98 | ? |
| 98 | Disopropyl ether | 5.24 | 5.22 | 0.003 | 45 | 87 | 1041.256 | 19.02 | 19.0 | 99 | ? |
| 99 | ETBE | 5.74 | 5.72 | 0.003 | 59 | 87 | 889.082 | 21.25 | 21.2 | 97 | |
| 30 | 12-dichloroethane | 7.22 | 7.20 | 0.003 | 64 | 62 | 119.758 | 20.71 | 20.7 | 98 | ? |
| 32 | vinyl acetate X5 | 5.20 | 5.17 | 0.004 | 43 | 86 | 2594.186 | 101.38 | 101.4 | 99 | |
| 92 | Nitro Methane(X10 | 5.82 | 5.80 | 0.003 | 61 | 46 | 98.539 | 216.35 | 216.4 | 78 | |
| 33 | 2-butanoneMEK X10 | 5.95 | 5.92 | 0.003 | 43 | 72 | 700.851 | 202.10 | 202.1 | 98 | ? |
| 93 | Ethyl Acetate x2 | 6.04 | 6.02 | 0.003 | 43 | 61 | 368.573 | 41.18 | 41.2 | 93 | #? |
| 34 | 111-trichloroetha | 6.65 | 6.63 | 0.002 | 97 | 99 | 638.649 | 19.33 | 19.3 | 99 | |
| 35 | 11-Di-Cl-propene | 6.90 | 6.88 | 0.002 | 75 | 110 | 530.655 | 21.25 | 21.3 | 91 | ? |
| 36 | benzene | 7.21 | 7.19 | 0.003 | 78 | 52 | 1572.880 | 18.89 | 18.9 | 99 | ? |
| 37 | CCl4 | 6.91 | 6.89 | 0.003 | 117 | 119 | 611.152 | 20.06 | 20.1 | 98 | ? |
| 100 | Isobutyl alcohol | 7.18 | 7.39 | -0.029 | 43 | 42 | 73.697 | 194.37 | 194.4 | 96 | m2 8/8/03 |
| 38 | thiophene | 7.53 | 7.51 | 0.002 | 84 | 58 | 821.203 | 19.84 | 19.8 | 99 | |
| 39 | 12-di-Cl-propane | 8.56 | 8.54 | 0.002 | 63 | 76 | 350.588 | 18.82 | 18.8 | 96 | |
| 40 | trichloroethene | 8.24 | 8.23 | 0.002 | 130 | 132 | 511.760 | 19.72 | 19.7 | 100 | |
| 41 | dibromomethane | 8.73 | 8.71 | 0.002 | 174 | 172 | 227.281 | 19.24 | 19.2 | 98 | |
| 101 | TAME | 7.41 | 7.39 | 0.002 | 73 | 43 | 787.712 | 21.71 | 21.7 | 97 | |
| 42 | Br-di-Cl-methane | 8.96 | 8.95 | 0.002 | 83 | 85 | 488.256 | 20.02 | 20.0 | 99 | |
| 43 | Me-methacrylate | 8.76 | 8.75 | 0.002 | 69 | 100 | 184.494 | 19.39 | 19.4 | 92 | |
| 44 | 2-ClEt-Vi-ether10 | 9.57 | 9.37 | 0.026 | 63 | 43 | 2.385 | 16.41 | 16.4 | 28 | #? |
| 45 | c-13-di-Cl-propen | 9.56 | 9.55 | 0.002 | 75 | 110 | 559.203 | 20.66 | 20.7 | 93 | ? |
| 46 | t-1,3-dichloropro | 10.25 | 10.24 | 0.000 | 75 | 110 | 464.859 | 21.60 | 21.6 | 92 | |

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Data Filename: C:\MSDCHEM\1\DATA\03G3595\G3595N01.D Sample : f=1 \$4425-06
 Method : C:\MSDCHEM\1\METHODS\E524A002.M Inst. : GCMS-A
 Acq. Time : Aug 7 11:58 2003 RF via : Multiple Level Calibration
 Method Update: Thu Jul 24 12:40 2003 Operator: zou
 Quant. Time : Aug 08 13:11 2003 Multiplr: 1.000000
 Print Time : Fri Aug 08 13:11 2003
 Miscellaneous :

2047

| ID | Component Name | R.T. | RT0 | DRRT | Qion | Q1 | RF/1000 | C0,ppb | C,ppb | Quality | Note |
|-----|-----------------------|-------|-------|-------|------|-----|----------|--------|-------|---------|------|
| <<< | I2 : ISTD ID = 47 >>> | | | | | | | | | | |
| 48 | 112-tri-Cl-Et | 10.46 | 10.45 | 0.000 | 97 | 83 | 285.102 | 18.50 | 18.5 | 94 | |
| 49 | 13-di-Cl-propane | 10.65 | 10.64 | 0.000 | 76 | 78 | 452.321 | 18.61 | 18.6 | 99 | |
| 50 | Et methacrylate | 10.38 | 10.37 | 0.000 | 69 | 99 | 391.052 | 20.17 | 20.2 | 94 | ? |
| 51 | di-Br-Cl-methane | 10.91 | 10.90 | 0.000 | 129 | 127 | 380.853 | 19.68 | 19.7 | 99 | |
| 52 | bromoform | 12.42 | 12.41 | 0.000 | 173 | 174 | 221.249 | 18.71 | 18.7 | 99 | |
| 53 | 1,4-dichlorobutan | 12.68 | 12.67 | 0.000 | 55 | 41 | 412.254 | 18.22 | 18.2 | 95 | |
| 54 | MIBK | 9.77 | 9.76 | 0.000 | 43 | 58 | 189.992 | 20.43 | 20.4 | 94 | |
| 56 | toluene | 9.99 | 9.98 | 0.000 | 91 | 92 | 1779.849 | 19.25 | 19.2 | 98 | |
| 57 | 2-hexanone X5 | 10.76 | 10.75 | 0.000 | 43 | 58 | 634.630 | 100.55 | 100.6 | 94 | |
| 58 | 12-dibromoethane | 11.03 | 11.03 | 0.000 | 107 | 109 | 287.036 | 18.88 | 18.9 | 98 | |
| 59 | tetra-Cl-ethene | 10.64 | 10.64 | 0.000 | 166 | 168 | 533.355 | 19.30 | 19.3 | 98 | |
| 60 | chlorobenzene | 11.57 | 11.57 | 0.000 | 112 | 77 | 1218.144 | 20.25 | 20.2 | 92 | ? |
| 61 | 1112-tetra-Cl-Et | 11.66 | 11.66 | 0.000 | 131 | 133 | 440.606 | 18.72 | 18.7 | 99 | |
| <<< | I3 : ISTD ID = 62 >>> | | | | | | | | | | |
| 63 | 1-chlorohexane | 11.56 | 11.56 | 0.000 | 93 | 55 | 231.400 | 21.81 | 21.8 | 95 | ? |
| 64 | Et-Bz | 11.70 | 11.69 | 0.000 | 91 | 106 | 2045.202 | 20.09 | 20.1 | 96 | |
| 65 | m/p-Xylenes X2 | 11.82 | 11.82 | 0.000 | 91 | 106 | 3149.058 | 40.91 | 40.9 | 95 | |
| 66 | styrene | 12.24 | 12.23 | 0.000 | 104 | 78 | 1231.281 | 21.04 | 21.0 | 92 | ? |
| 67 | o-xylene | 12.22 | 12.22 | 0.000 | 91 | 106 | 1631.513 | 21.13 | 21.1 | 96 | ? |
| 68 | 1122-Tetra-Cl-Et | 12.87 | 12.87 | 0.000 | 83 | 85 | 308.178 | 17.93 | 17.9 | 99 | |
| 69 | 123-tri-Cl-Pr | 12.91 | 12.91 | 0.000 | 110 | 97 | 96.138 | 18.68 | 18.7 | 98 | ? |
| 71 | isopropylbenzene | 12.60 | 12.59 | 0.000 | 105 | 120 | 2159.861 | 21.83 | 21.8 | 97 | |
| 72 | bromobenzene | 12.89 | 12.89 | 0.000 | 156 | 158 | 527.990 | 19.87 | 19.9 | 99 | |
| 92 | t-1,4-dichloro-2- | 12.92 | 12.92 | 0.000 | 89 | 53 | 59.319 | 20.21 | 20.2 | 82 | ? |
| 73 | n-propylbenzene | 13.00 | 12.99 | 0.000 | 120 | 78 | 660.240 | 21.31 | 21.3 | 92 | #? |
| 74 | 2-Cl-Toluene | 13.08 | 13.08 | 0.000 | 126 | 128 | 560.793 | 20.48 | 20.5 | 98 | |
| 75 | 4-Cl-Toluene | 13.19 | 13.18 | 0.000 | 126 | 128 | 557.665 | 20.02 | 20.0 | 98 | ? |
| 76 | 135-tri-Me-Benzen | 13.16 | 13.16 | 0.000 | 105 | 120 | 1818.466 | 21.35 | 21.4 | 96 | ? |
| 77 | 4-iso-Pr-toluene | 13.81 | 13.81 | 0.000 | 119 | 134 | 2090.132 | 21.98 | 22.0 | 98 | ? |
| 78 | 124-tri-Me-Benzen | 13.51 | 13.51 | 0.000 | 105 | 120 | 1856.326 | 20.93 | 20.9 | 97 | |
| 79 | tert-butylbenzene | 13.47 | 13.47 | 0.000 | 119 | 91 | 1722.730 | 21.18 | 21.2 | 95 | |

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Data Filename: C:\MSDCHEM\1\DATA\03G3595\G3595N01.D Sample : f=1 \$4425-06
 Method : C:\MSDCHEM\1\METHODS\E524A002.M Inst. : GCMS-A
 Acq. Time : Aug 7 11:58 2003 RF via : Multiple Level Calibration
 Method Update: Thu Jul 24 12:40 2003 Operator: zou
 Quant. Time : Aug 08 13:11 2003 Multiplr: 1.000000
 Print Time : Fri Aug 08 13:11 2003
 Miscellaneous :

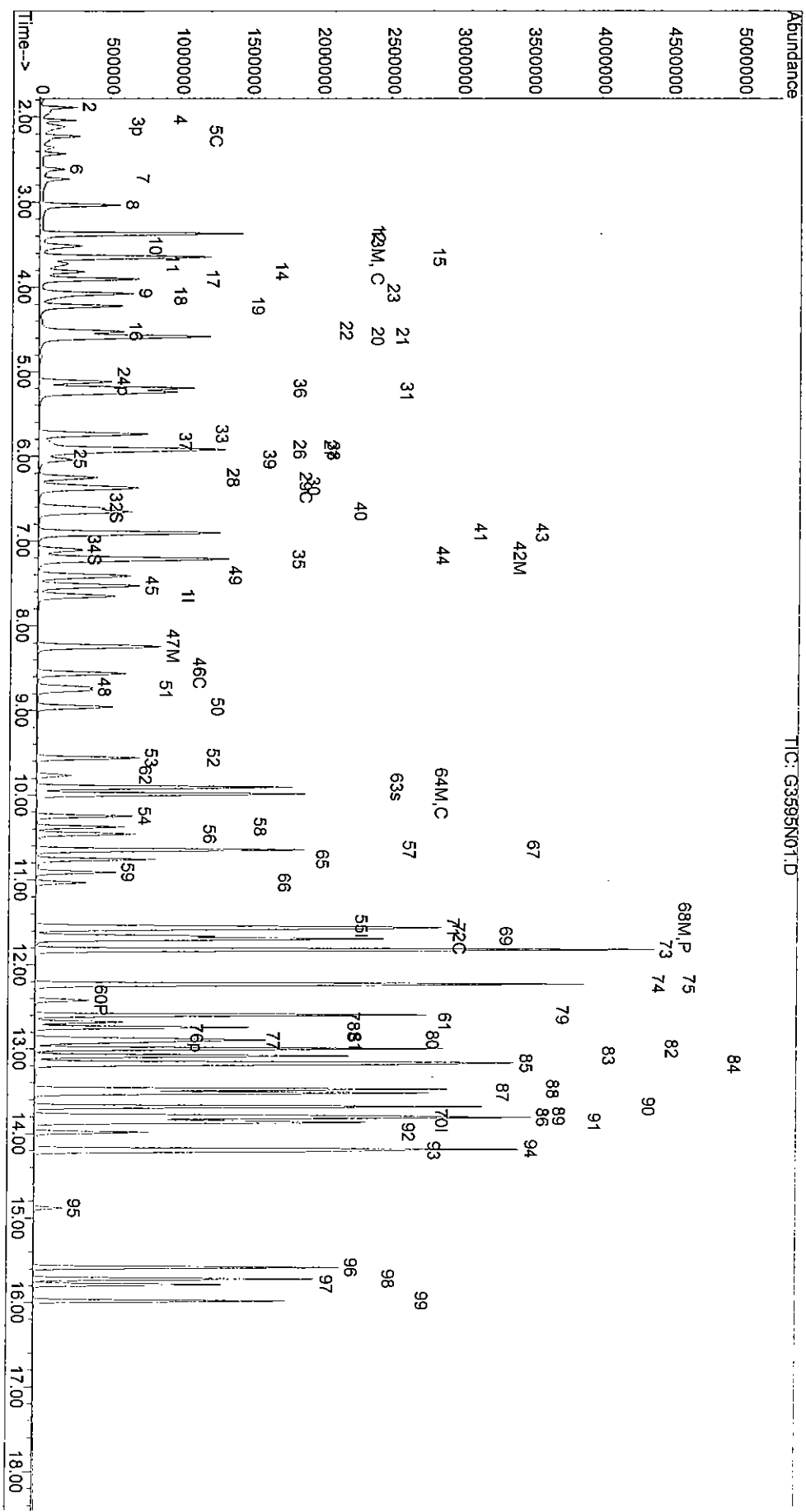
| ID | Component Name | R.T. | RT0 | DRRT | Qion | Q1 | RF/1000 | C0,ppb | C,ppb | Quality | Note |
|----|------------------|-------|-------|-------|------|-----|----------|--------|-------|---------|------|
| 80 | 13-DCB | 13.79 | 13.78 | 0.000 | 146 | 148 | 1088.428 | 19.49 | 19.5 | 100 | ? |
| 81 | sec-butylbenzene | 13.68 | 13.68 | 0.000 | 105 | 134 | 2493.990 | 21.79 | 21.8 | 96 | |
| 82 | 14-DCB | 13.87 | 13.87 | 0.000 | 146 | 148 | 1076.495 | 20.27 | 20.3 | 97 | |
| 83 | Cl-benzy1 | 13.98 | 13.98 | 0.000 | 126 | 91 | 153.423 | 28.50 | 28.5 | 73 | # |
| 84 | 12-DCB | 14.21 | 14.21 | 0.000 | 146 | 148 | 957.896 | 19.26 | 19.3 | 99 | ? |
| 85 | n-butylbenzene | 14.18 | 14.18 | 0.000 | 134 | 91 | 582.965 | 20.89 | 20.9 | 87 | #? |
| 86 | 12-diBr-2-Cl-Pra | 14.88 | 14.88 | 0.000 | 157 | 155 | 70.819 | 20.22 | 20.2 | 99 | |
| 87 | 124-tri-Cl-Bz | 15.58 | 15.58 | 0.000 | 180 | 182 | 728.613 | 22.62 | 22.6 | 100 | |
| 88 | naphthalene | 15.79 | 15.78 | 0.000 | 128 | 129 | 1213.693 | 20.77 | 20.8 | 99 | |
| 89 | hx-Cl-butadiene | 15.72 | 15.72 | 0.000 | 225 | 258 | 399.169 | 20.47 | 20.5 | 98 | |
| 90 | 123-Tri-Cl-Bz | 15.98 | 15.98 | 0.000 | 180 | 182 | 623.335 | 21.57 | 21.6 | 98 | |

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Data Filename: C:\MSDCHEM\1\DATA\03G3595\G3595N01.D
 Method : C:\MSDCHEM\1\METHODS\E524A002.M
 Acq. Time : Aug 7 11:58 2003
 Method Update: Thu Jul 24 12:40 2003
 Quant. Time : Aug 08 13:11 2003
 Print Time : Fri Aug 08 13:11 2003
 Miscellaneous :

Sample : F=1 \$4425-06
 Inst. : GCMS-A
 RF via : Multiple Level Calibration
 Operator: zou
 Multiplr: 1.000000

2049



Data Filename: C:\MSDCHEM\1\DATA\03G3595\4425-06.D
 Method : C:\MSDCHEM\1\METHODS\E524A002.M
 Acq. Time : Aug 7 16:22 2003
 Method Update: Thu Jul 24 12:40 2003
 Quant. Time : Aug 08 11:35 2003
 Print Time : Fri Aug 08 13:12 2003
 Miscellaneous :

Sample : f=1 ms
 Inst. : GCMS-A
 RF via : Multiple Level Calibration
 Operator: zou
 Multiplr: 1.000000

ID , Component Name R.T. RT0 DRRT QIon Q1 RF/1000 C0,ppb C,ppb Quality Note

Internal Standards

| ID | Component Name | R.T. | RT0 | DRRT | QIon | Q1 | RF/1000 | C0,ppb | C,ppb | Quality | Note |
|----|-------------------|-------|-------|-------|------|-----|---------|--------|-------|---------|------|
| 1 | Fluorobenzene | 7.65 | 7.63 | 0.003 | 96 | 70 | 704.743 | 10.00 | 10.00 | 0.02 | |
| 47 | Chlorobenzene-d5 | 11.54 | 11.54 | 0.000 | 117 | 82 | 574.822 | 10.00 | 10.00 | 0.00 | |
| 62 | 1,4-Dichlorobenze | 13.84 | 13.84 | 0.000 | 152 | 150 | 298.518 | 10.00 | 10.00 | 0.00 | |

System Monitoring Compounds (Surrogate)

| ID | Component Name | R.T. | RT0 | DRRT | QIon | Q1 | RF/1000 | C0,ppb | C,ppb | Quality | Note |
|----|-------------------|-------|-------|-------|------|-----|----------|--------|-------|---------|------|
| 27 | Di-Br-F-Me (surr) | 6.60 | 6.58 | 0.002 | 111 | 113 | 377.276 | 21.48 | 21.5 | 107.41% | |
| 29 | 1,2-Di-Cl-Et-d4 | 7.11 | 7.08 | 0.002 | 65 | 102 | 315.939 | 22.21 | 22.2 | 111.05% | |
| 55 | toluene-d8 | 9.91 | 9.89 | 0.000 | 98 | 100 | 1394.529 | 19.25 | 19.2 | 96.25% | |
| 70 | 4-Br-1-F-Bz (S3) | 12.74 | 12.74 | 0.000 | 174 | 95 | 476.109 | 19.28 | 19.3 | 96.41% | |

Target Compounds

| ID | Component Name | R.T. | RT0 | DRRT | QIon | Q1 | RF/1000 | C0,ppb | C,ppb | Quality | Note |
|--------|-------------------|------|------|--------|------|----|---------|--------|-------|---------|------|
| <<< I1 | : ISTD ID = 1 | >>> | | | | | | | | | |
| 5 | vinyl chloride | 2.43 | 2.19 | 0.031 | 62 | 64 | 6.684 | 0.39 | 0.4 | 95 | |
| 95 | Tert butyl alcoho | 4.41 | 4.47 | -0.007 | 59 | 57 | 1.525 | 25.77 | 25.8 | 100 | |
| 92 | Nitro Methane(x10 | 5.89 | 5.80 | 0.012 | 61 | 46 | 6.502 | 16.61 | 16.6 | 35 | |
| <<< I2 | : ISTD ID = 47 | >>> | | | | | | | | | |
| 54 | MIBK | 9.91 | 9.76 | 0.013 | 43 | 58 | 3.977 | 0.48 | 0.5 | 1 | |

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Data Filename: C:\MSDCHEM\1\DATA\03G3595\4425-06.D
Method : C:\MSDCHEM\1\METHODS\E524A002.M
Acq. Time : Aug 7 16:22 2003
Method Update: Thu Jul 24 12:40 2003
Quant. Time : Aug 08 11:35 2003
Print Time : Fri Aug 08 13:12 2003
Miscellaneous :

Sample : F=1 ms
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplier: 1.000000

