Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

February 22, 2012

Gene Nance
TechLaw, Inc.
2208 Warwood Ave
Wheeling, WV 26003

RE: Project: R33917
Pace Project No.: 5058185_Revised report_Updated analysis run time on 5058185005

Dear Gene Nance:
Enclosed are the analytical results for sample(s) received by the laboratory on February 07, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mick Mayse

mick.mayse@pacelabs.com
Project Manager

Enclosures

cc: Fred Foreman, EPA
Suddha Graves, TechLaw, Inc.


DIM0271634

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# CERTIFICATIONS

Project: R33917
Pace Project No.: 5058185

**Indiana Certification IDs**
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP: CL0065
West Virginia Certification #: 330



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# SAMPLE SUMMARY

Project: R33917
Pace Project No.: 5058185

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **5058185001** | **FB10** | Water | 02/03/12 14:09 | 02/07/12 10:25 |
| **5058185002** | **HW09** | Water | 02/03/12 15:20 | 02/07/12 10:25 |
| **5058185003** | **HW09-P** | Water | 02/03/12 15:16 | 02/07/12 10:25 |
| **5058185004** | **HW28a** | Water | 02/03/12 11:49 | 02/07/12 10:25 |
| **5058185005** | **HW28a-P** | Water | 02/03/12 11:52 | 02/07/12 10:25 |
| **5058185006** | **HW28b-P** | Water | 02/03/12 14:27 | 02/07/12 10:25 |
| **5058185007** | **HW39** | Water | 02/03/12 10:42 | 02/07/12 10:25 |
| **5058185008** | **HW39-P** | Water | 02/03/12 11:13 | 02/07/12 10:25 |
| **5058185009** | **HW40** | Water | 02/02/12 15:39 | 02/07/12 10:25 |
| **5058185010** | **HW40-P** | Water | 02/02/12 15:44 | 02/07/12 10:25 |
| **5058185011** | **HW41** | Water | 02/02/12 16:12 | 02/07/12 10:25 |
| **5058185012** | **HW41-P** | Water | 02/02/12 15:54 | 02/07/12 10:25 |



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# SAMPLE ANALYTE COUNT

Project: R33917
Pace Project No.: 5058185

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **5058185001** | **FB10** | EPA 8015B Modified | CEM | 1 | PASI-I |
| **5058185002** | **HW09** | EPA 8015B Modified | CEM | 1 | PASI-I |
| **5058185003** | **HW09-P** | EPA 8015B Modified | CEM | 1 | PASI-I |
| **5058185004** | **HW28a** | EPA 8015B Modified | CEM | 1 | PASI-I |
| **5058185005** | **HW28a-P** | EPA 8015B Modified | CEM | 1 | PASI-I |
| **5058185006** | **HW28b-P** | EPA 8015B Modified | CEM | 1 | PASI-I |
| **5058185007** | **HW39** | EPA 8015B Modified | CEM | 1 | PASI-I |
| **5058185008** | **HW39-P** | EPA 8015B Modified | CEM | 1 | PASI-I |
| **5058185009** | **HW40** | EPA 8015B Modified | CEM | 1 | PASI-I |
| **5058185010** | **HW40-P** | EPA 8015B Modified | CEM | 1 | PASI-I |
| **5058185011** | **HW41** | EPA 8015B Modified | CEM | 1 | PASI-I |
| **5058185012** | **HW41-P** | EPA 8015B Modified | CEM | 1 | PASI-I |



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# ANALYTICAL RESULTS

Project: R33917
Pace Project No.: 5058185

**Sample: FB10** **Lab ID: 5058185001** Collected: 02/03/12 14:09 Received: 02/07/12 10:25 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8015M Alcohols** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| Ethylene glycol | ND | mg/L | 10.0 | 5.0 | 1 | | 02/08/12 07:26 | 107-21-1 | |



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# ANALYTICAL RESULTS

Project: R33917
Pace Project No.: 5058185

**Sample: HW09** **Lab ID: 5058185002** Collected: 02/03/12 15:20 Received: 02/07/12 10:25 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8015M Alcohols** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| Ethylene glycol | ND | mg/L | 10.0 | 5.0 | 1 | | 02/08/12 07:31 | 107-21-1 | |



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# ANALYTICAL RESULTS

Project: R33917
Pace Project No.: 5058185

**Sample: HW09-P** **Lab ID: 5058185003** Collected: 02/03/12 15:16 Received: 02/07/12 10:25 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8015M Alcohols** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| Ethylene glycol | ND | mg/L | 10.0 | 5.0 | 1 | | 02/08/12 07:36 | 107-21-1 | |



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# ANALYTICAL RESULTS

Project: R33917
Pace Project No.: 5058185

**Sample: HW28a** **Lab ID: 5058185004** Collected: 02/03/12 11:49 Received: 02/07/12 10:25 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8015M Alcohols** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| Ethylene glycol | ND | mg/L | 10.0 | 5.0 | 1 | | 02/08/12 07:41 | 107-21-1 | |



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# ANALYTICAL RESULTS

Project: R33917
Pace Project No.: 5058185

**Sample: HW28a-P** **Lab ID: 5058185005** Collected: 02/03/12 11:52 Received: 02/07/12 10:25 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8015M Alcohols** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| Ethylene glycol | ND | mg/L | 10.0 | 5.0 | 1 | | 02/08/12 07:46 | 107-21-1 | |



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# ANALYTICAL RESULTS

Project: R33917
Pace Project No.: 5058185

**Sample: HW28b-P** **Lab ID: 5058185006** Collected: 02/03/12 14:27 Received: 02/07/12 10:25 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8015M Alcohols** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| Ethylene glycol | ND | mg/L | 10.0 | 5.0 | 1 | | 02/08/12 07:51 | 107-21-1 | |



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# ANALYTICAL RESULTS

Project: R33917
Pace Project No.: 5058185

**Sample: HW39** **Lab ID: 5058185007** Collected: 02/03/12 10:42 Received: 02/07/12 10:25 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8015M Alcohols** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| Ethylene glycol | ND | mg/L | 10.0 | 5.0 | 1 | | 02/08/12 07:57 | 107-21-1 | |



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# ANALYTICAL RESULTS

Project: R33917
Pace Project No.: 5058185

**Sample: HW39-P** **Lab ID: 5058185008** Collected: 02/03/12 11:13 Received: 02/07/12 10:25 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8015M Alcohols** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| Ethylene glycol | ND | mg/L | 10.0 | 5.0 | 1 | | 02/08/12 08:01 | 107-21-1 | |



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# ANALYTICAL RESULTS

Project: R33917
Pace Project No.: 5058185

**Sample: HW40** **Lab ID: 5058185009** Collected: 02/02/12 15:39 Received: 02/07/12 10:25 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8015M Alcohols** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| Ethylene glycol | ND | mg/L | 10.0 | 5.0 | 1 | | 02/08/12 08:06 | 107-21-1 | |



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# ANALYTICAL RESULTS

Project: R33917
Pace Project No.: 5058185

**Sample: HW40-P** **Lab ID: 5058185010** Collected: 02/02/12 15:44 Received: 02/07/12 10:25 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8015M Alcohols** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| Ethylene glycol | ND | mg/L | 10.0 | 5.0 | 1 | | 02/08/12 08:12 | 107-21-1 | |



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# ANALYTICAL RESULTS

Project: R33917
Pace Project No.: 5058185

**Sample: HW41** **Lab ID: 5058185011** Collected: 02/02/12 16:12 Received: 02/07/12 10:25 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8015M Alcohols** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| Ethylene glycol | ND | mg/L | 10.0 | 5.0 | 1 | | 02/08/12 08:44 | 107-21-1 | |



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# ANALYTICAL RESULTS

Project: R33917
Pace Project No.: 5058185

**Sample: HW41-P** **Lab ID: 5058185012** Collected: 02/02/12 15:54 Received: 02/07/12 10:25 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8015M Alcohols** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| Ethylene glycol | ND | mg/L | 10.0 | 5.0 | 1 | | 02/08/12 08:49 | 107-21-1 | |



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# QUALITY CONTROL DATA

Project: R33917
Pace Project No.: 5058185

QC Batch: GCSV/8877 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified Analysis Description: EPA 8015 Modified
Associated Lab Samples: 5058185001, 5058185002, 5058185003, 5058185004, 5058185005, 5058185006, 5058185007, 5058185008, 5058185009, 5058185010, 5058185011, 5058185012

METHOD BLANK: 684571 Matrix: Water
Associated Lab Samples: 5058185001, 5058185002, 5058185003, 5058185004, 5058185005, 5058185006, 5058185007, 5058185008, 5058185009, 5058185010, 5058185011, 5058185012

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Ethylene glycol | mg/L | ND | 10.0 | 02/07/12 17:03 | |

LABORATORY CONTROL SAMPLE: 684572

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Ethylene glycol | mg/L | 250 | 241 | 96 | 78-118 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 684573 684574

| Parameter | Units | 5058185001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethylene glycol | mg/L | ND | 250 | 250 | 236 | 234 | 93 | 92 | 51-135 | .7 | 20 | |



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# QUALIFIERS

Project: R33917
Pace Project No.: 5058185

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## LABORATORIES

PASI-I Pace Analytical Services - Indianapolis



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# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: R33917
Pace Project No.: 5058185

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **5058185001** | **FB10** | EPA 8015B Modified | GCSV/8877 | | |
| **5058185002** | **HW09** | EPA 8015B Modified | GCSV/8877 | | |
| **5058185003** | **HW09-P** | EPA 8015B Modified | GCSV/8877 | | |
| **5058185004** | **HW28a** | EPA 8015B Modified | GCSV/8877 | | |
| **5058185005** | **HW28a-P** | EPA 8015B Modified | GCSV/8877 | | |
| **5058185006** | **HW28b-P** | EPA 8015B Modified | GCSV/8877 | | |
| **5058185007** | **HW39** | EPA 8015B Modified | GCSV/8877 | | |
| **5058185008** | **HW39-P** | EPA 8015B Modified | GCSV/8877 | | |
| **5058185009** | **HW40** | EPA 8015B Modified | GCSV/8877 | | |
| **5058185010** | **HW40-P** | EPA 8015B Modified | GCSV/8877 | | |
| **5058185011** | **HW41** | EPA 8015B Modified | GCSV/8877 | | |
| **5058185012** | **HW41-P** | EPA 8015B Modified | GCSV/8877 | | |



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5658185/195

**USEPA CLP Generic COC (LAB COPY)**

DateShipped: 2/6/2012
CarrierName: FedEx
AirbillNo: 7980 2795 9089

**CHAIN OF CUSTODY RECORD**

Case #: R33917

**No: 3-020612-162544-0121**

Lab: PACE Analytical DIM
Lab Contact: Mick Mayse
Lab Phone: 317.875.5894

| | Sample # | Matrix/Sampler | Coll. Method | Analysis/Turnaround | Tag/Preservative/Bottles | Station Location | Collected | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|
| 1 | FB10 | Aqueous/ Mike Ferrier | Grab | EthyGlycol(7), EthyGlycol(7) | 3337 (-NA- / 40mlGlassVial), 3338 (-NA- / 40mlGlassVial) (2) | FB10 | 02/03/2012 14:09 | 001 |
| 2 | HW09 | Drinking Water/ Tom Sedlacek | Grab | EthyGlycol(7), EthyGlycol(7) | 3409 (-NA- / 40mlGlassVial), 3410 (-NA- / 40mlGlassVial) (2) | HW09 | 02/03/2012 15:20 | 002 |
| 3 | HW09-P | Drinking Water/ Dan Jacobsen | Grab | EthyGlycol(7), EthyGlycol(7) | 3445 (-NA- / 40mlGlassVial), 3446 (-NA- / 40mlGlassVial) (2) | HW09 | 02/03/2012 15:16 | 003 |
| 4 | HW28a | Drinking Water/ David Johnson | Grab | EthyGlycol(7), EthyGlycol(7) | 3202 (-NA- / 40mlGlassVial), 3203 (-NA- / 40mlGlassVial) (2) | HW28a | 02/03/2012 11:49 | 004 |
| 5 | HW28a-P | Drinking Water/ Mike Ferrier | Grab | EthyGlycol(7), EthyGlycol(7) | 3238 (-NA- / 40mlGlassVial), 3239 (-NA- / 40mlGlassVial) (2) | HW28a | 02/03/2012 11:52 | 005 |
| 6 | HW28b-P | Drinking Water/ David Johnson | Grab | EthyGlycol(7), EthyGlycol(7) | 3373 (-NA- / 40mlGlassVial), 3374 (-NA- / 40mlGlassVial) (2) | HW28b | 02/03/2012 14:27 | 006 |
| 7 | HW39 | Drinking Water/ Tom Sedlacek | Grab | EthyGlycol(7), EthyGlycol(7) | 3116 (-NA- / 40mlGlassVial), 3117 (-NA- / 40mlGlassVial) (2) | HW39 | 02/03/2012 10:42 | 007 |

Special Instructions:

**Shipment for Case Complete? N**

**Samples Transferred From Chain of Custody #**

Analysis Key: EthyGlycol=17-Ethylene Glycol

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished By | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | [signature] | 2/6/12 | Penny Engblitt | 2/7/12 | 1025 | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

WI FedEx 7980 2795 9089
5.1°C



DIM0271634
DIM0271653

**USEPA CLP Generic COC (LAB COPY)**

DateShipped: 2/6/2012
CarrierName: FedEx
AirbillNo: 7980 2795 9089

**CHAIN OF CUSTODY RECORD**

Case #: R33917

**No: 3-020612-162544-0121**

Lab: PACE Analytical DIM
Lab Contact: Mick Mayse
Lab Phone: 317.875.5894

| | Sample # | Matrix/Sampler | Coll. Method | Analysis/Turnaround | Tag/Preservative/Bottles | Station Location | Collected | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|
| 8 | HW39-P | Drinking Water/ Dan Jacobsen | Grab | EthyGlycol(7), EthyGlycol(7) | 3166 (-NA- / 40mlGlassVial), 3167 (-NA- / 40mlGlassVial) (2) | HW39 | 02/03/2012 11:13 | 008 |
| 9 | HW40 | Drinking Water/ Tom Sedlacek | Grab | EthyGlycol(7), EthyGlycol(7) | 2972 (-NA- / 40mlGlassVial), 2973 (-NA- / 40mlGlassVial) (2) | HW40 | 02/02/2012 15:39 | 009 |
| 10 | HW40-P | Drinking Water/ Dan Jacobsen | Grab | EthyGlycol(7), EthyGlycol(7) | 3008 (-NA- / 40mlGlassVial), 3009 (-NA- / 40mlGlassVial) (2) | HW40 | 02/02/2012 15:44 | 010 |
| 11 | HW41 | Drinking Water/ David Johnson | Grab | EthyGlycol(7), EthyGlycol(7) | 3044 (-NA- / 40mlGlassVial), 3045 (-NA- / 40mlGlassVial) (2) | HW41 | 02/02/2012 16:12 | 011 |
| 12 | HW41-P | Drinking Water/ Mike Ferrier | Grab | EthyGlycol(7), EthyGlycol(7) | 3080 (-NA- / 40mlGlassVial), 3081 (-NA- / 40mlGlassVial) (2) | HW41 | 02/02/2012 15:54 | 012 |

Special Instructions:

**Shipment for Case Complete? N**

**Samples Transferred From Chain of Custody #**

Analysis Key: EthyGlycol=17-Ethylene Glycol

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished By | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | [signature] | 2/6/12 | [signature] | 2/7/12 | 10:25 | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

WI FedEx 7980 2795 9089
3.1°C



DIM0271634
DIM0271654

# Sample Condition Upon Receipt

Pace Analytical

Client Name: USEPA CLP  Project # 5058185

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 7980 2795 9089

Custody Seal on Cooler/Box Present: ☒ yes ☐ no  Seals intact: ☒ yes ☐ no

Date/Time 5035A kits placed in freezer _____

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 1 2 3 4 5 A B C D E  Type of Ice: Wet Blue None  ☐ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) 3.1 °C  Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 2-7-12 DG

| | | | | Comments: |
|---|---|---|---|---|
| Chain of Custody Present: | ☒Yes | ☐No | ☐N/A | 1. |
| Chain of Custody Filled Out: | ☒Yes | ☐No | ☐N/A | 2. |
| Chain of Custody Relinquished: | ☒Yes | ☐No | ☐N/A | 3. |
| Sampler Name & Signature on COC: | ☐Yes | ☒No | ☐N/A | 4. Has name / no signature |
| **Short Hold Time Analysis (<72hr):** | ☐Yes | ☒No | ☐N/A | 5. |
| **Rush Turn Around Time Requested:** | ☐Yes | ☒No | ☐N/A | 6. |
| Containers Intact: | ☒Yes | ☐No | ☐N/A | 7. |
| Sample Labels match COC: -Includes date/time/ID/Analysis | ☒Yes | ☐No | ☐N/A | 8. |
| All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G | ☐Yes | ☐No | ☒N/A | 9. (Circle) HNO3 H2SO4 NaOH HCl |
| All containers needing preservation are found to be in compliance with EPA recommendation. | ☐Yes | ☐No | ☒N/A | |
| Headspace in VOA Vials ( >6mm): | ☐Yes | ☒No | ☐N/A | 10. |
| Trip Blank Present: | ☐Yes | ☒No | ☐N/A | 11. |
| Trip Blank Custody Seals Present | ☐Yes | ☐No | ☒N/A | |
| **Project Manager Review** | | | | |
| Samples Arrived within Hold Time: | ☒Yes | ☐No | ☐N/A | 12. |
| Sufficient Volume: | ☒Yes | ☐No | ☐N/A | 13. |
| Correct Containers Used: | ☒Yes | ☐No | ☐N/A | 14. |

**Client Notification/ Resolution:**  Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

**Project Manager Review:** K. G. [illegible]  **Date:** 2-7-12

Form F-IN-Q290-rev.04, 28Apr2011

# Sample Container Count

Pace Analytical
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CLIENT: USEPA CLP

COC PAGE 1 of 1
COC ID#

Project # 5058185

| Sample Line Item | DG9H | AG1U | WGFU | R 4/6 | BP2N | BP2U | BP2S | BP3N | BP3U | BP3S | AG3S | AG1H | VG9U | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | 2 | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |

Container Codes

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DG9H | 40mL HCL amber voa vial | AF | Air Filter | BP1N | 1 liter HNO3 plastic | DG9P | 40mL TSP amber vial |
| AG1U | 1liter unpreserved amber glass | AG1H | 1 liter HCL amber glass | BP1S | 1 liter H2SO4 plastic | DG9S | 40mL H2SO4 amber vial |
| WGFU | 4oz clear soil jar | AG1S | 1 liter H2SO4 amber glass | BP1U | 1 liter unpreserved plastic | DG9T | 40mL Na Thio amber vial |
| R | terra core kit | AG1T | 1 liter Na Thiosulfate amber gl | BP1Z | 1 liter NaOH, Zn, Ac | DG9U | 40mL unpreserved amber vial |
| BP2N | 500mL HNO3 plastic | AG2N | 500mL HNO3 amber glass | BP2A | 500mL NaOH, Asc Acid plastic | I | Wipe/Swab |
| BP2U | 500mL unpreserved plastic | AG2S | 500mL H2SO4 amber glass | BP2O | 500mL NaOH plastic | JGFU | 4oz unpreserved amber wide |
| BP2S | 500mL H2SO4 plastic | AG2U | 500mL unpreserved amber gla | BP2Z | 500mL NaOH, Zn Ac | U | Summa Can |
| BP3N | 250mL HNO3 plastic | AG3U | 250mL unpreserved amber gla | BP3A | 250mL NaOh, Asc Acid plastic | VG9H | 40mL HCL clear vial |
| BP3U | 250mL unpreserved plastic | BG1H | 1 liter HCL clear glass | BP3C | 250mL NaOH plastic | VG9T | 40mL Na Thio. clear vial |
| BP3S | 250mL H2SO4 plastic | BG1S | 1 liter H2SO4 clear glass | BP3Z | 250mL NaOH, Zn Ac plastic | VG9U | 40mL unpreserved clear vial |
| AG3S | 250mL H2SO4 glass amber | BG1T | 1 liter Na Thiosulfate clear gla | C | Air Cassettes | VSG | Headspace septa vial & HCL |
| AG1S | 1 liter H2SO4 amber glass | BG1U | 1 liter unpreserved glass | DG9B | 40mL Na Bisulfate amber vial | WGFX | 4oz wide jar w/hexane wipe |
| BP1U | 1 liter unpreserved plastic | BP1A | 1 liter NaOH, Asc Acid plastic | DG9M | 40mL MeOH clear vial | ZPLC | Ziploc Bag |



F-IN-Q270-rev.1, 13May2009

DIM0271634
DIM0271656

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# Alcohols/Glycols 8015B Modified

**Project Number** 5058185

**Initials/ Date Compiled** CEM 2.9.12

## Section 1: Prep and Analytical Information

***Sample Preparation Logs**
***Instrument Run Logs**
***QC Summary Sheets**

Form F-IN-Q304-rev0, 22Jun2011

# INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50GCS2.i
Column DB-5 10m X 0.32mm
Misc. Prep Info [G]:
ISTD lot:
Tune std: _____

Method: Alcohol Analysis by SW846 8015

Surr. lot:
Cal. std: _____

| Path/File | Smp Info | Mtrx/Batch | Type | DF | Method | Date | Time | Oper | Comments |
|---|---|---|---|---|---|---|---|---|---|
| 1/002f0101.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/06/12 | 13:20 | CEM | |
| 1/002f0102.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/06/12 | 13:24 | CEM | |
| 1/002f0103.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/06/12 | 13:29 | CEM | |
| 1/100f0201.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/06/12 | 13:39 | CEM | |
| 1/100f0202.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/06/12 | 13:45 | CEM | |
| 1/100f0203.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/06/12 | 13:50 | CEM | Good curve |
| 1/003f0301.d | CAL 1 14726 | G/ | CALIB_1 | 1 | 081110dsp | 2/06/12 | 13:56 | CEM | |
| 1/004f0301.d | CAL 2 14727 | G/ | CALIB_2 | 1 | 081110dsp | 2/06/12 | 14:02 | CEM | |
| 1/005f0301.d | CAL 3 14728 | G/ | CALIB_3 | 1 | 081110dsp | 2/06/12 | 14:07 | CEM | |
| 1/006f0301.d | CAL 4 14729 | G/ | CALIB_4 | 1 | 081110dsp | 2/06/12 | 14:12 | CEM | |
| 1/007f0301.d | CAL 5 14730 | G/ | CALIB_5 | 1 | 081110dsp | 2/06/12 | 14:17 | CEM | |
| 1/008f0301.d | CAL 6 14731 | G/ | CALIB_6 | 1 | 081110dsp | 2/06/12 | 14:22 | CEM | |
| 1/009f0301.d | ICV 14732 | G/ | CCALIB_5 | 1 | 081110dsp | 2/06/12 | 14:27 | CEM | ICV 98.2 Good |

File Path 1: \\192.168.50.6\chem\50GCS2.i\020612
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 10:22 02/10/2012

Page: 1

CEM
2.10.12

# INSTRUMENT RUN LOG
## Pace Analytical Services, Inc.

Instrument: 50GCS2.i
Column DB-5 10m X 0.32mm
Misc. Prep Info [G]:
ISTD lot:
Tune std: _____

Method: Alcohol Analysis by SW846 8015

Surr. lot:
Cal. std: _____

| Path/File | Smp Info | Mtrx/Batch | Type | DF | Method | Date | Time | Oper | Comments |
|---|---|---|---|---|---|---|---|---|---|
| 1/002f0101.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 11:56 | CEM | |
| 1/002f0102.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 12:05 | CEM | |
| 1/002f0103.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 12:10 | CEM | |
| 1/002f0104.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 12:15 | CEM | |
| 1/001f0201.d | CCV 14733 | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 12:20 | CEM | Good 95,91 |
| 1/100f0301.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 12:25 | CEM | |
| 1/100f0302.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 12:30 | CEM | |
| 1/100f0303.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 12:36 | CEM | |
| 1/010f0401.d | 683957B | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 12:41 | CEM | |
| 1/011f0401.d | 683958L | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 12:47 | CEM | |
| 1/012f0401.d | 683959MX10 | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 12:52 | CEM | IP |
| 1/013f0501.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 12:57 | CEM | |
| 1/013f0502.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 13:02 | CEM | |
| 1/014f0601.d | 683960DX10 | G/ | SAMPLE | 10 | 081110dsp | 2/07/12 | 13:07 | CEM | IP |
| 1/015f0701.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 13:12 | CEM | |
| 1/015f0702.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 13:17 | CEM | |
| 1/001f0801.d | CCV 14733 | G/ | CCALIB_5 | 1 | 081110dsp | 2/07/12 | 13:22 | CEM | Good 98,93 |
| 1/100f0901.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 13:27 | CEM | |
| 1/100f0902.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 13:33 | CEM | |
| 1/100f0903.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 13:38 | CEM | |
| 1/002f1001.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 13:44 | CEM | |
| 1/016f1101.d | 9211482001X10 | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 13:49 | CEM | IP |
| 1/017f1201.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 13:54 | CEM | |
| 1/017f1202.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 13:59 | CEM | |
| 1/018f1301.d | 9211482002X10 | G/ | SAMPLE | 10 | 081110dsp | 2/07/12 | 14:04 | CEM | |
| 1/019f1401.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 14:09 | CEM | |
| 1/019f1402.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 14:13 | CEM | |
| 1/020f1501.d | 9211482004X10 | G/ | SAMPLE | 10 | 081110dsp | 2/07/12 | 14:18 | CEM | |
| 1/021f1601.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 14:22 | CEM | |
| 1/021f1602.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 14:27 | CEM | |
| 1/022f1701.d | 5057902001 | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 14:32 | CEM | |
| 1/023f1701.d | 5057902002 | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 14:37 | CEM | |
| 1/024f1701.d | 5057902003 | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 14:42 | CEM | |
| 1/025f1701.d | 60114533001 | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 14:47 | CEM | |

File Path 1: \\192.168.50.6\chem\50GCS2.i\020712
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 06:54 02/08/2012

Page: 1

CEM
2.8.12

# INSTRUMENT RUN LOG
## Pace Analytical Services, Inc.

Instrument: 50GCS2.i
Column DB-5 10m X 0.32mm
Misc. Prep Info [G]:
ISTD lot:
Tune std: _____

Method: Alcohol Analysis by SW846 80
Surr. lot:
Cal. std: _____

| Path/File | Smp Info | Mtrx/Batch | Type | DF | Method | Date | Time | Oper | Comments |
|---|---|---|---|---|---|---|---|---|---|
| 1/001f1801.d | CCV 14733 | G/ | CCALIB_5 | 1 | 081110dsp | 2/07/12 | 14:53 | CEM | Good 100,95 |
| 1/100f1901.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 14:58 | CEM | |
| 1/100f1902.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 15:03 | CEM | |
| 1/100f1903.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 15:09 | CEM | |
| 1/002f2001.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 15:14 | CEM | |
| 1/027f2101.d | 505806001X1000 | G/ | SAMPLE | 1000 | 081110dsp | 2/07/12 | 15:20 | CEM | |
| 1/028f2201.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 15:24 | CEM | |
| 1/028f2202.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 15:29 | CEM | |
| 1/001f2301.d | CCV 14733 | G/ | CCALIB_5 | 1 | 081110dsp | 2/07/12 | 15:33 | CEM | Good 101,97 |
| 1/100f2401.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 15:38 | CEM | |
| 1/100f2402.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 15:43 | CEM | |
| 1/100f2403.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 15:49 | CEM | |
| 1/002f2501.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 15:54 | CEM | |
| 1/055f2601.d | 10182062001 | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 16:00 | CEM | |
| 1/002f2701.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 16:04 | CEM | |
| 1/056f2801.d | 10182062003 | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 16:09 | CEM | |
| 1/002f2901.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 16:13 | CEM | |
| 1/057f3001.d | 10182062004 | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 16:18 | CEM | |
| 1/002f3101.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 16:22 | CEM | |
| 1/058f3201.d | 10182062002 | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 16:27 | CEM | |
| 1/002f3301.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 16:32 | CEM | |
| 1/001f3401.d | CCV 14733 | G/ | CCALIB_5 | 1 | 081110dsp | 2/07/12 | 16:36 | CEM | Good 104,99 |
| 1/100f3501.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 16:41 | CEM | |
| 1/100f3502.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 16:46 | CEM | |
| 1/100f3503.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 16:52 | CEM | |
| 1/002f3601.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 16:57 | CEM | |
| 1/059f3701.d | 684571B | G/ | BLANK | 1 | 081110dsp | 2/07/12 | 17:03 | CEM | |
| 1/060f3701.d | 684572L | G/ | LCS | 1 | 081110dsp | 2/07/12 | 17:07 | CEM | |
| 1/061f3701.d | 684573M | G/ | MS | 1 | 081110dsp | 2/07/12 | 17:12 | CEM | |
| 1/062f3701.d | 684574D | G/ | MSD | 1 | 081110dsp | 2/07/12 | 17:16 | CEM | |
| 1/001f3801.d | CCV 14733 | G/ | CCALIB_5 | 1 | 081110dsp | 2/07/12 | 17:21 | CEM | Good 106,102 |
| 1/100f3901.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 17:26 | CEM | |
| 1/100f3902.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 17:31 | CEM | |
| 1/100f3903.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 17:36 | CEM | |

File Path 1: \\192.168.50.6\chem\50GCS2.i\020712
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 06:54 02/08/2012

Page: 2

CEM 2.8.12

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50GCS2.i
Column DB-5 10m X 0.32mm
Misc. Prep Info [G]:
ISTD lot:
Tune std: _____

Method: Alcohol Analysis by SW846 80
Surr. lot:
Cal. std: _____

| Path/File | Smp Info | Mtrx/Batch | Type | DF | Method | Date | Time | Oper | Comments |
|---|---|---|---|---|---|---|---|---|---|
| 1/002f4001.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 17:42 | CEM | |
| 1/063f4101.d | 5058185001 | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 17:47 | CEM | |
| 1/064f4101.d | 5058185002 | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 17:52 | CEM | |
| 1/065f4101.d | 5058185003 | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 17:57 | CEM | |
| 1/066f4101.d | 5058185004 | G/ | SAMPLE | 1 | 081110dsp | 2/07/12 | 18:01 | CEM | |

* injector error sequence stopped *

File Path 1: \\192.168.50.6\chem\50GCS2.i\020712
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 06:54 02/08/2012

Page: 3

CEM
2.8.12

# INSTRUMENT RUN LOG
## Pace Analytical Services, Inc.

Instrument: 50GCS2.i
Column DB-5 10m X 0.32mm
Misc. Prep Info [G]:
Misc. Prep Info [S]:
ISTD lot:
Tune std: _____

Method:

Surr. lot:
Cal. std: _____

| Path/File | Smp Info | Mtrx/Batch | Type | DF | Method | Date | Time | Oper | Comments |
|---|---|---|---|---|---|---|---|---|---|
| 1/002f0101.d | CCB | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 06:39 | CEM | |
| 1/002f0102.d | CCB | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 06:44 | CEM | |
| 1/002f0103.d | CCB | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 06:49 | CEM | |
| 1/002f0104.d | CCB | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 06:54 | CEM | |
| 1/001f0201.d | CCV 14733 | G/ | CCALIB_5 | 1 | 081110dsp | 2/08/12 | 06:59 | CEM | Good |
| 1/100f0301.d | RINSE | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 07:04 | CEM | |
| 1/100f0302.d | RINSE | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 07:09 | CEM | |
| 1/100f0303.d | RINSE | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 07:15 | CEM | |
| 1/002f0401.d | CCB | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 07:20 | CEM | |
| 1/063f0501.d | 5058185001 | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 07:26 | CEM | |
| 1/064f0501.d | 5058185002 | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 07:31 | CEM | |
| 1/065f0501.d | 5058185003 | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 07:36 | CEM | |
| 1/066f0501.d | 5058185004 | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 07:41 | CEM | |
| 1/067f0501.d | 5058185005 | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 07:46 | CEM | |
| 1/068f0501.d | 5058185006 | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 07:51 | CEM | |
| 1/069f0501.d | 5058185007 | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 07:57 | CEM | |
| 1/070f0501.d | 5058185008 | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 08:01 | CEM | |
| 1/071f0501.d | 5058185009 | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 08:06 | CEM | |
| 1/072f0501.d | 5058185010 | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 08:12 | CEM | |
| 1/001f0601.d | CCV 14733 | S/ | CCALIB_5 | 1 | 081110dsp | 2/08/12 | 08:17 | CEM | Good |
| 1/100f0701.d | RINSE | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 08:22 | CEM | |
| 1/100f0702.d | RINSE | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 08:27 | CEM | |
| 1/100f0703.d | RINSE | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 08:33 | CEM | |
| 1/002f0801.d | CCB | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 08:38 | CEM | |
| 1/073f0901.d | 5058185011 | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 08:44 | CEM | |
| 1/074f0901.d | 5058185012 | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 08:49 | CEM | |
| 1/075f0901.d | 92111482001X10 | S/ | SAMPLE | 10 | 081110dsp | 2/08/12 | 08:54 | CEM | |
| 1/002f1001.d | CCB | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 08:59 | CEM | |
| 1/002f1002.d | CCB | S/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 09:04 | CEM | |
| 1/001f1101.d | CCV 14733 | G/ | CCALIB_5 | 1 | 081110dsp | 2/08/12 | 09:28 | CEM | Good |
| 1/100f1201.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 09:33 | CEM | |
| 1/100f1202.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 09:38 | CEM | |
| 1/100f1203.d | RINSE | G/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 09:44 | CEM | |

File Path 1: \\192.168.50.6\chem\50GCS2.i\020812
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 10:55 02/08/2012

Page: 1

CEM
2.8.12

# INSTRUMENT RUN LOG
## Pace Analytical Services, Inc.

Instrument: 50GCS2.i
Column DB-5 10m X 0.32mm
Method:
Misc. Prep Info [G]:
Misc. Prep Info [S]:
ISTD lot:
Surr. lot:
Tune std: _____
Cal. std: _____

| Path/File | Smp Info | Mtrx/Batch | Type | DF | Method | Date | Time | Oper | Comments |
|---|---|---|---|---|---|---|---|---|---|
| 1/002f1301.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 09:49 | CEM | |
| 1/076f1401.d | 683959MX10 | G/ | MS | 10 | 081110dsp | 2/08/12 | 09:55 | CEM | |
| 1/002f1501.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 10:00 | CEM | |
| 1/002f1502.d | CCB | G/ | SAMPLE | 1 | 081110dsp | 2/08/12 | 10:05 | CEM | |
| 1/077f1601.d | 683960DX10 | G/ | MSD | 10 | 081110dsp | 2/08/12 | 10:10 | CEM | |
| 1/002f1701.d | CCB | S/ | SAMPLE | 1 | 8015b | 2/08/12 | 10:15 | CEM | |
| 1/002f1702.d | CCB | S/ | SAMPLE | 1 | 8015b | 2/08/12 | 10:20 | CEM | |
| 1/001f1801.d | CCV 14733 | G/ | CCALIB_5 | 1 | 081110dsp | 2/08/12 | 10:25 | CEM | Good |
| 1/100f1901.d | RINSE | S/ | SAMPLE | 1 | 8015b | 2/08/12 | 10:30 | CEM | |
| 1/100f1902.d | RINSE | S/ | SAMPLE | 1 | 8015b | 2/08/12 | 10:36 | CEM | |
| 1/100f1903.d | RINSE | S/ | SAMPLE | 1 | 8015b | 2/08/12 | 10:41 | CEM | |
| 1/002f2001.d | CCB | S/ | SAMPLE | 1 | 8015b | 2/08/12 | 10:47 | CEM | |

File Path 1: \\192.168.50.6\chem\50GCS2.i\020812
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 10:55 02/08/2012



CEM
2.8.12

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# Alcohols/Glycols
# 8015B Modified

## Section 2: Initial Calibration Data

***Initial Calibration Summary Table***
***Initial Calibration Standards***
***ICV Standard***

**Initial Calibrations included:**
**(Instrument name and calibration date)**

**ICAL 1:** 500GCS2 2.6.12

**ICAL 2:** _____

Form F-IN-Q304-rev0, 22Jun2011

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-FEB-2012 13:56
End Cal Date : 06-FEB-2012 14:22
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\192.168.50.6\chem\50GCS2.i\020612\081110dsp.m
Last Edit : 07-Feb-2012 11:31 cmanuputy

Calibration File Names:
Level 1: \\192.168.50.6\chem\50GCS2.i\020612\003F0301.D
Level 2: \\192.168.50.6\chem\50GCS2.i\020612\004F0301.D
Level 3: \\192.168.50.6\chem\50GCS2.i\020612\005F0301.D
Level 4: \\192.168.50.6\chem\50GCS2.i\020612\006F0301.D
Level 5: \\192.168.50.6\chem\50GCS2.i\020612\007f0301.d
Level 6: \\192.168.50.6\chem\50GCS2.i\020612\008F0301.D

| Compound | 5.0000 Level 1 | 25.0000 Level 2 | 50.0000 Level 3 | 125.0000 Level 4 | 250.0000 Level 5 | 500.0000 Level 6 | Curve | Coefficients b | m1 | m2 | %RSD or R^2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 Propylene glycol | 610 | 898 | 884 | 935 | 1001 | 1120 | AVRG | | 908 | | 18.68164 |
| 2 Ethylene glycol | 656 | 820 | 681 | 782 | 806 | 753 | AVRG | | 750 | | 8.99299 |

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-FEB-2012 13:56
End Cal Date : 06-FEB-2012 14:22
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\192.168.50.6\chem\50GCS2.i\020612\081110dsp.m
Last Edit : 07-Feb-2012 11:31 cmanuputy

| Curve | Formula | Units |
|---|---|---|
| Averaged | Amt = Rsp/ml | Response |

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020612\003f0301.d
Lab Smp Id:
Inj Date : 06-FEB-2012 13:56
Operator : CEM Inst ID: 50GCS2.i
Smp Info : CAL 1 14726
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020612\081110dsp.m
Meth Date : 07-Feb-2012 11:31 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 13:56 Cal File: 003F0301.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

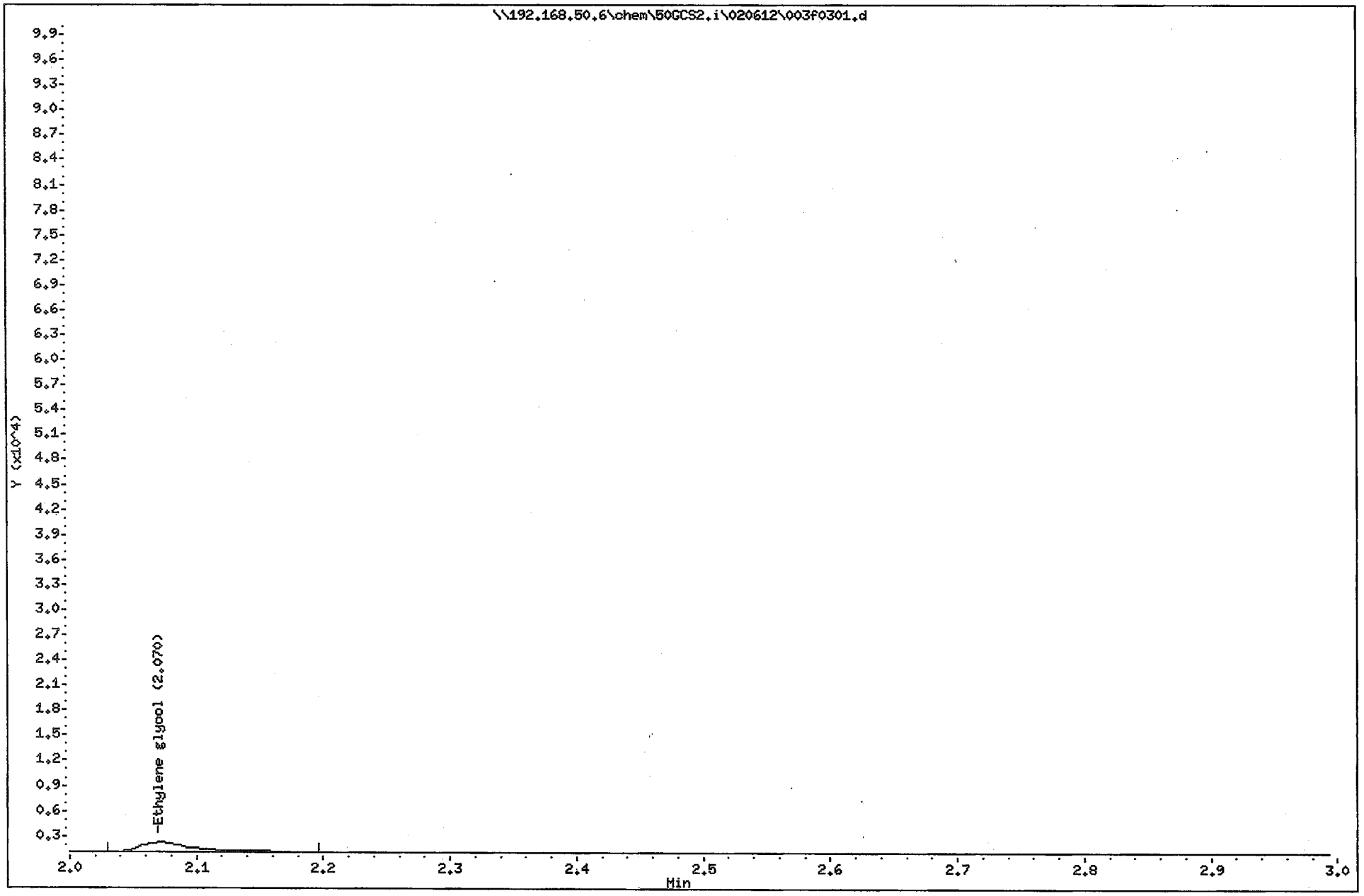
| Compounds | RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/mL) | AMOUNTS ON-COL (ug/mL) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | 1.933 | 1.930 | 0.003 | 3051 | 5.00000 | 3.78 |
| 2 Ethylene glycol | 2.070 | 2.060 | 0.010 | 3280 | 5.00000 | 4.48 |

Data File: \\192.168.50.6\chem\50GCS2.i\020612\003f0301.d
Date : 06-FEB-2012 13:56
Client ID:
Sample Info: CAL 1 14726

Column phase: DB-5

Instrument: 50GCS2.i

Operator: CEM
Column diameter: 0.32






DIM0271668

DIM0271634

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020612\004f0301.d
Lab Smp Id:
Inj Date : 06-FEB-2012 14:02
Operator : CEM Inst ID: 50GCS2.i
Smp Info : CAL 2 14727
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020612\081110dsp.m
Meth Date : 07-Feb-2012 11:31 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:02 Cal File: 004F0301.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

| Compounds | RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/mL) | AMOUNTS ON-COL (ug/mL) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | 1.936 | 1.930 | 0.006 | 22438 | 25.0000 | 26.83 |
| 2 Ethylene glycol | 2.066 | 2.060 | 0.006 | 20494 | 25.0000 | 26.93 |

Data File: \\192.168.50.6\chem\50GCS2.i\020612\004f0301.d
Date : 06-FEB-2012 14:02
Client ID:
Sample Info: CAL 2 14727

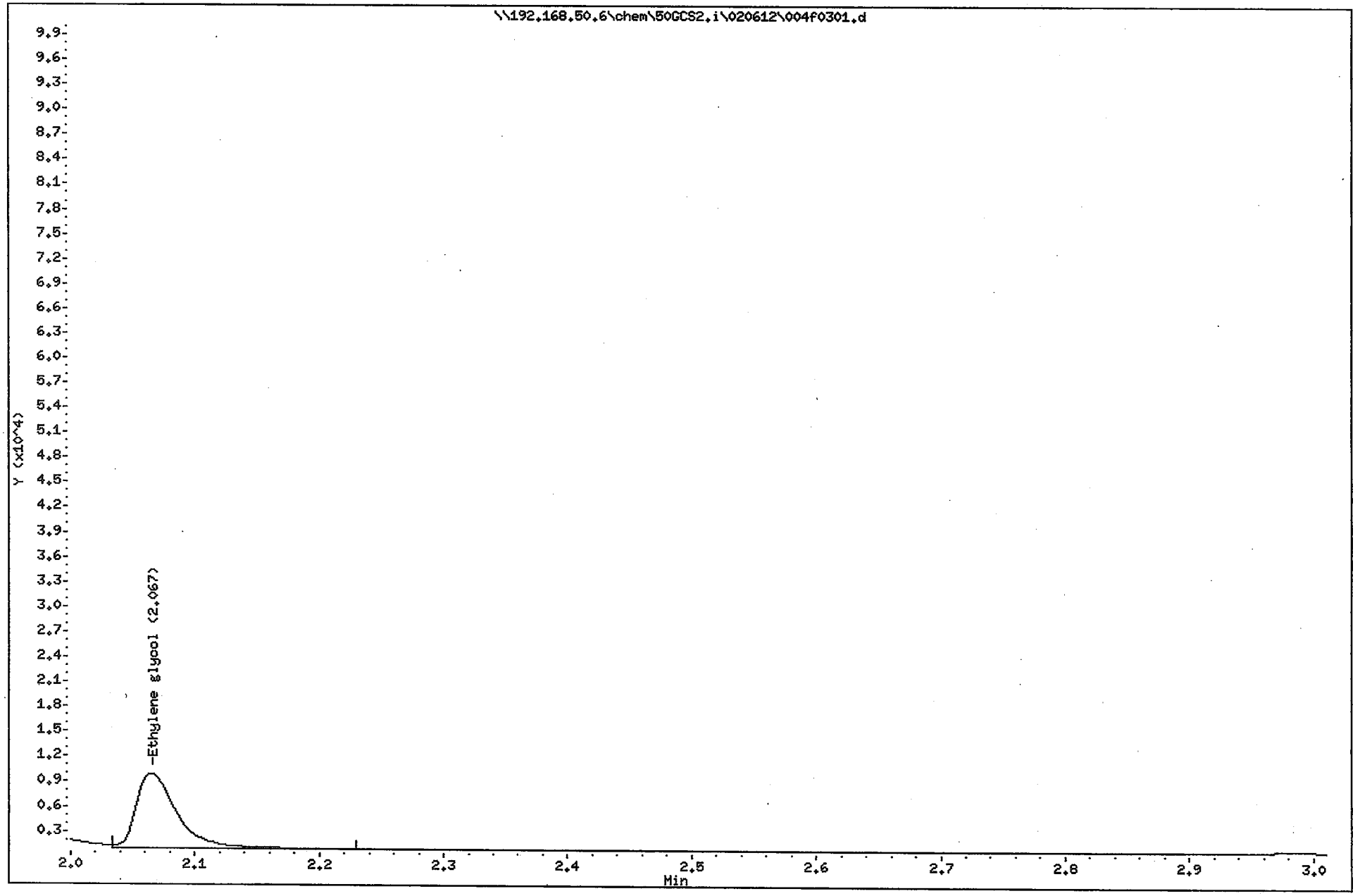
Column phase: DB-5

Instrument: 50GCS2.i

Operator: CEM
Column diameter: 0.32








DIM0271670

DIM0271634

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020612\005f0301.d
Lab Smp Id:
Inj Date : 06-FEB-2012 14:07
Operator : CEM
Inst ID: 50GCS2.i
Smp Info : CAL 3 14728
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020612\081110dsp.m
Meth Date : 07-Feb-2012 11:31 cmanuputy
Quant Type: ESTD
Cal Date : 06-FEB-2012 14:07
Cal File: 005F0301.D
Als bottle: 5
Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

| Compounds | RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/mL) | AMOUNTS ON-COL (ug/mL) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | 1.933 | 1.930 | 0.003 | 44181 | 50.0000 | 52.09 |
| 2 Ethylene glycol | 2.060 | 2.060 | 0.000 | 34037 | 50.0000 | 45.94 |

Data File: \\192.168.50.6\chem\50GCS2.i\020612\005f0301.d

Page 2

Date : 06-FEB-2012 14:07

Client ID:

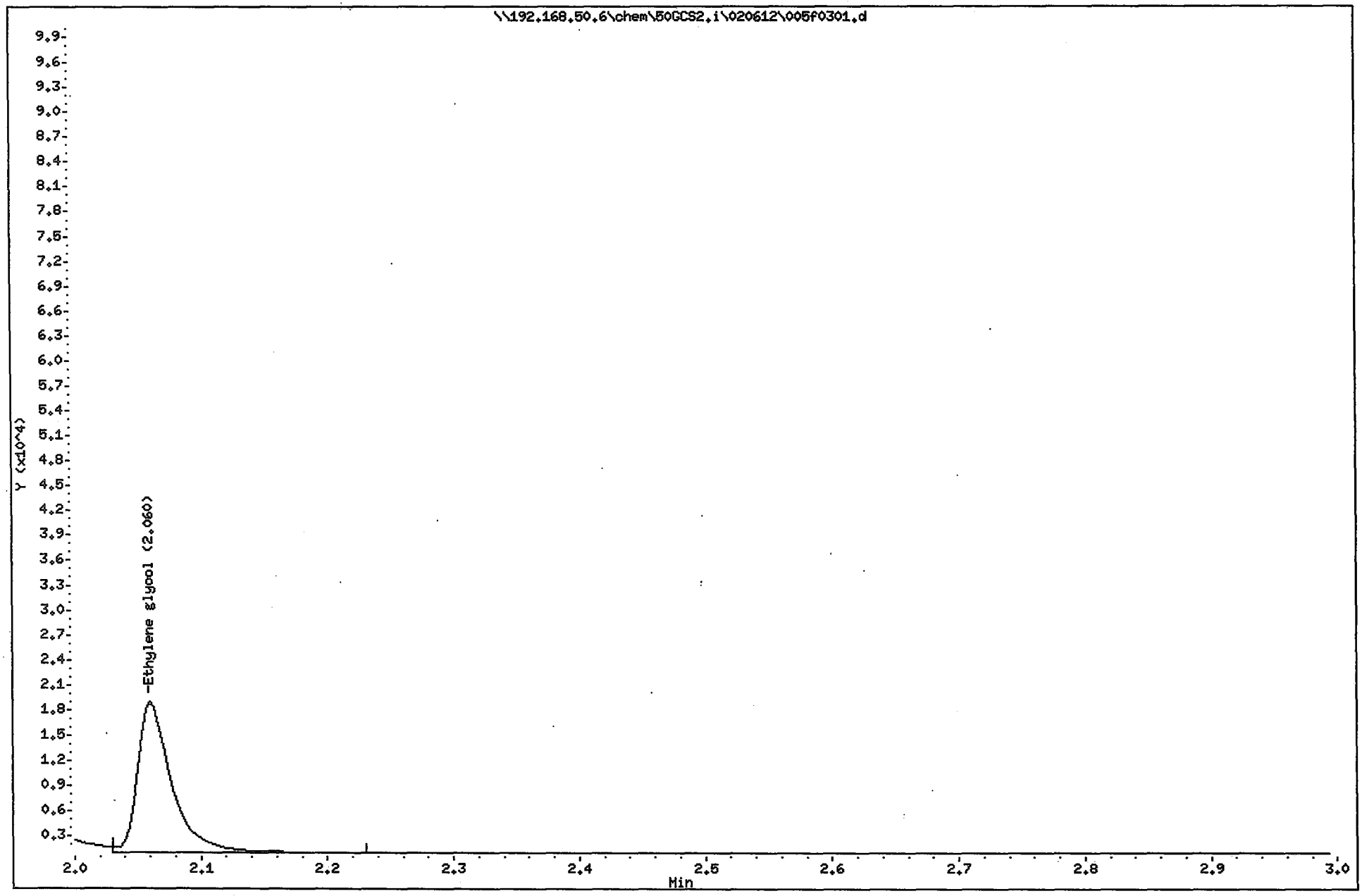
Instrument: 50GCS2.i

Sample Info: CAL 3 14728

Operator: CEM

Column phase: DB-5

Column diameter: 0.32






DIM0271672

DIM0271634

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020612\006f0301.d
Lab Smp Id:
Inj Date : 06-FEB-2012 14:12
Operator : CEM Inst ID: 50GCS2.i
Smp Info : CAL 4 14729
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020612\081110dsp.m
Meth Date : 07-Feb-2012 11:31 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:12 Cal File: 006F0301.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

| Compounds | RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/mL) | AMOUNTS ON-COL (ug/mL) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | 1.933 | 1.930 | 0.003 | 116913 | 125.000 | 135.08 |
| 2 Ethylene glycol | 2.063 | 2.060 | 0.003 | 97759 | 125.000 | 130.51 |

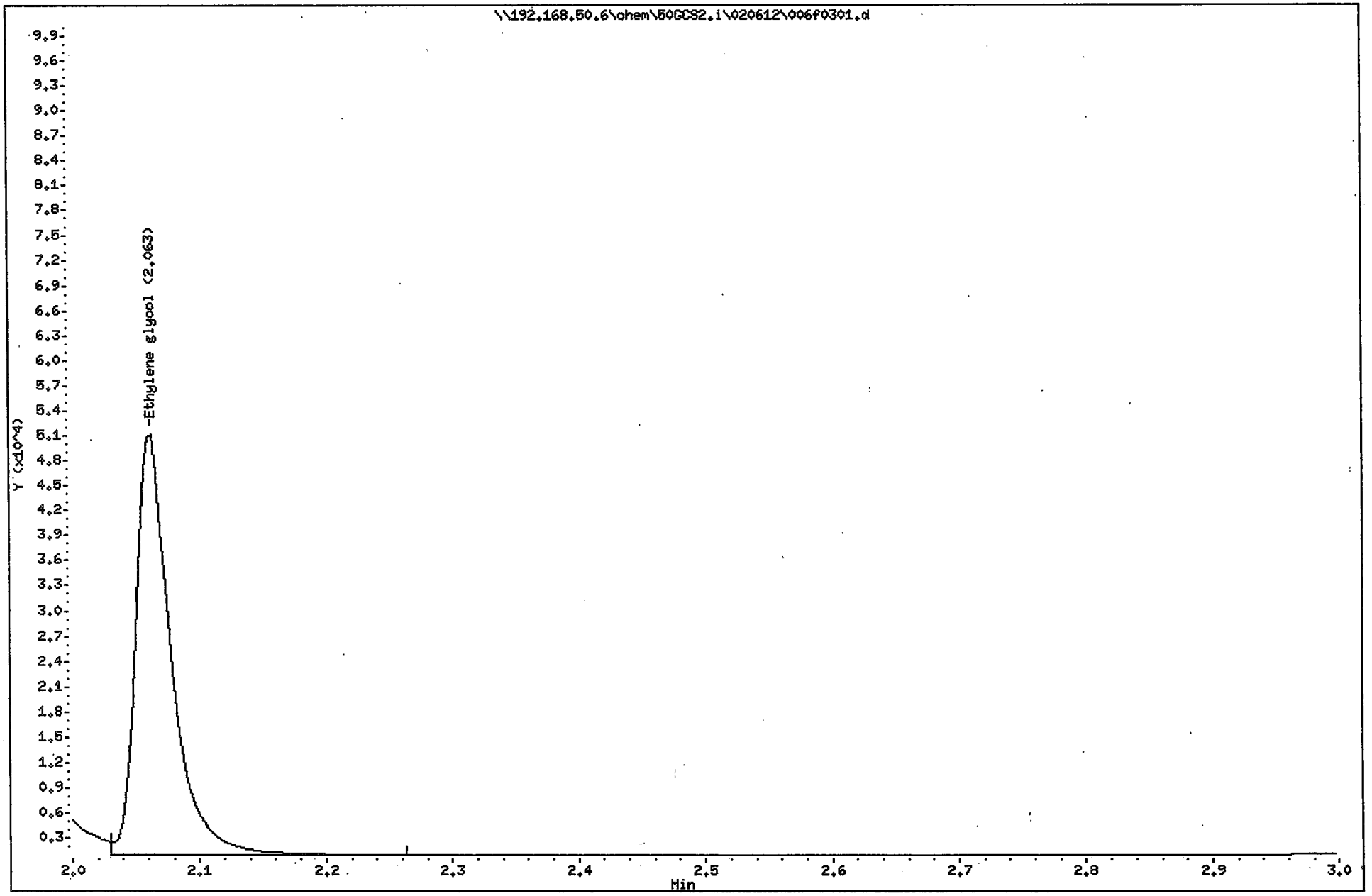
Data File: \\192.168.50.6\chem\50GCS2.i\020612\006f0301.d
Date : 06-FEB-2012 14:12
Client ID:
Sample Info: CAL 4 14729

Instrument: 50GCS2.i

Operator: CEM

Column phase: DB-5

Column diameter: 0.32






DIM0271674

DIM0271634

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020612\007f0301.d
Lab Smp Id:
Inj Date : 06-FEB-2012 14:17
Operator : CEM Inst ID: 50GCS2.i
Smp Info : CAL 5 14730
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020612\081110dsp.m
Meth Date : 07-Feb-2012 11:31 cmanuputy Quant Type: ESTD
Cal Date : 02-FEB-2012 15:23 Cal File: 008f0301.d
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

| Compounds | RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/mL) | AMOUNTS ON-COL (ug/mL) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | 1.930 | 1.930 | 0.000 | 250208 | 250.000 | 275.56(H) |
| 2 Ethylene glycol | 2.060 | 2.060 | 0.000 | 201617 | 250.000 | 268.95 |

QC Flag Legend

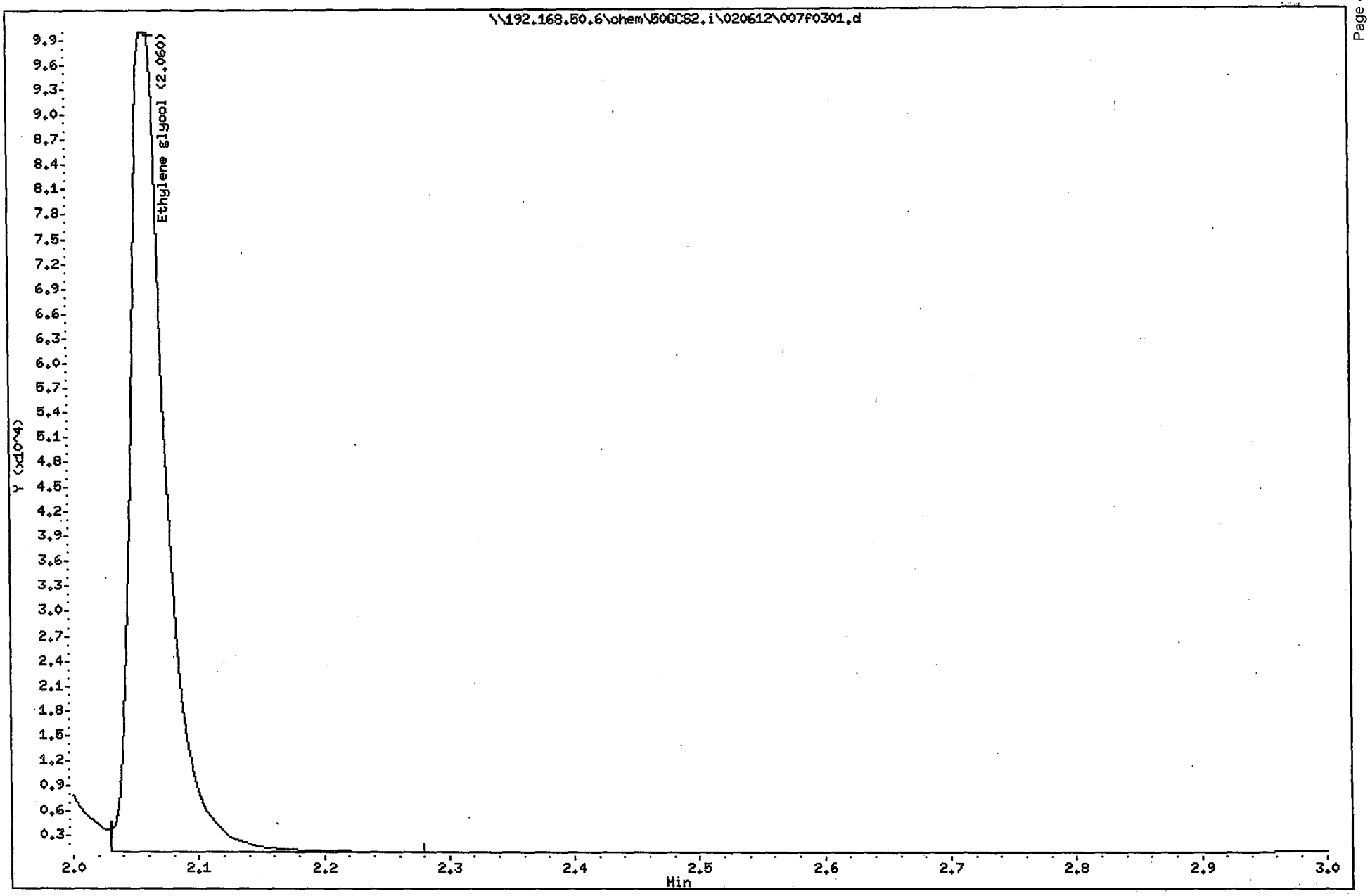
H - Operator selected an alternate compound hit.

Data File: \\192.168.50.6\chem\50GCS2.i\020612\007f0301.d
Date : 06-FEB-2012 14:17
Client ID:
Sample Info: CAL 5 14730

Instrument: 50GCS2.i

Operator: CEM
Column diameter: 0.32

Column phase: DB-5






DIM0271676

DIM0271634

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020612\008f0301.d
Lab Smp Id:
Inj Date : 06-FEB-2012 14:22
Operator : CEM Inst ID: 50GCS2.i
Smp Info : CAL 6 14731
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020612\081110dsp.m
Meth Date : 07-Feb-2012 11:31 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:22 Cal File: 008F0301.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

| Compounds | RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/mL) | AMOUNTS ON-COL (ug/mL) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | 1.930 | 1.930 | 0.000 | 560197 | 500.000 | 616.97(A) |
| 2 Ethylene glycol | 2.063 | 2.060 | 0.003 | 376369 | 500.000 | 502.07(A) |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\192.168.50.6\chem\50GCS2.i\020612\008f0301.d

Date : 06-FEB-2012 14:22

Client ID:

Sample Info: CAL 6 14731

Column phase: DB-5

Instrument: 50GCS2.i

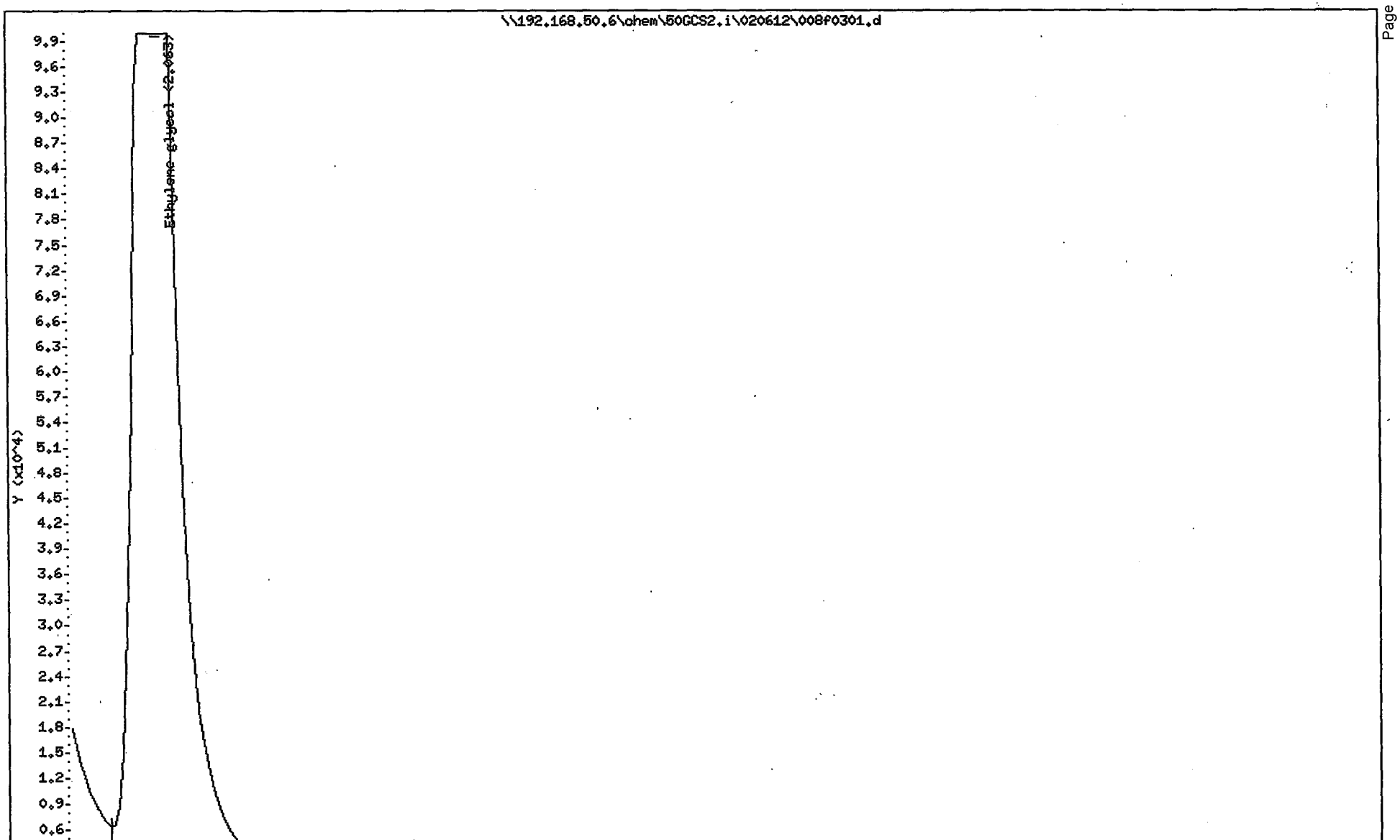
Operator: CEM

Column diameter: 0.32





DIM0271678




DIM0271634

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020612\009f0301.d
Lab Smp Id:
Inj Date : 06-FEB-2012 14:27
Operator : CEM Inst ID: 50GCS2.i
Smp Info : ICV 14732
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020612\081110dsp.m
Meth Date : 07-Feb-2012 11:31 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17 Cal File: 007f0301.d
Als bottle: 9 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

| Compounds | RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/mL) | AMOUNTS ON-COL (ug/mL) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | 1.930 | 1.930 | 0.000 | 230061 | 250.000 | 253.37 |
| 2 Ethylene glycol | 2.060 | 2.060 | 0.000 | 184122 | 250.000 | 245.61 |

101% Good
98.2% CEM
2.10.12

Data File: \\192.168.50.6\chem\50GCS2.i\020612\009f0301.d
Date : 06-FEB-2012 14:27
Client ID:
Sample Info: ICV 14732

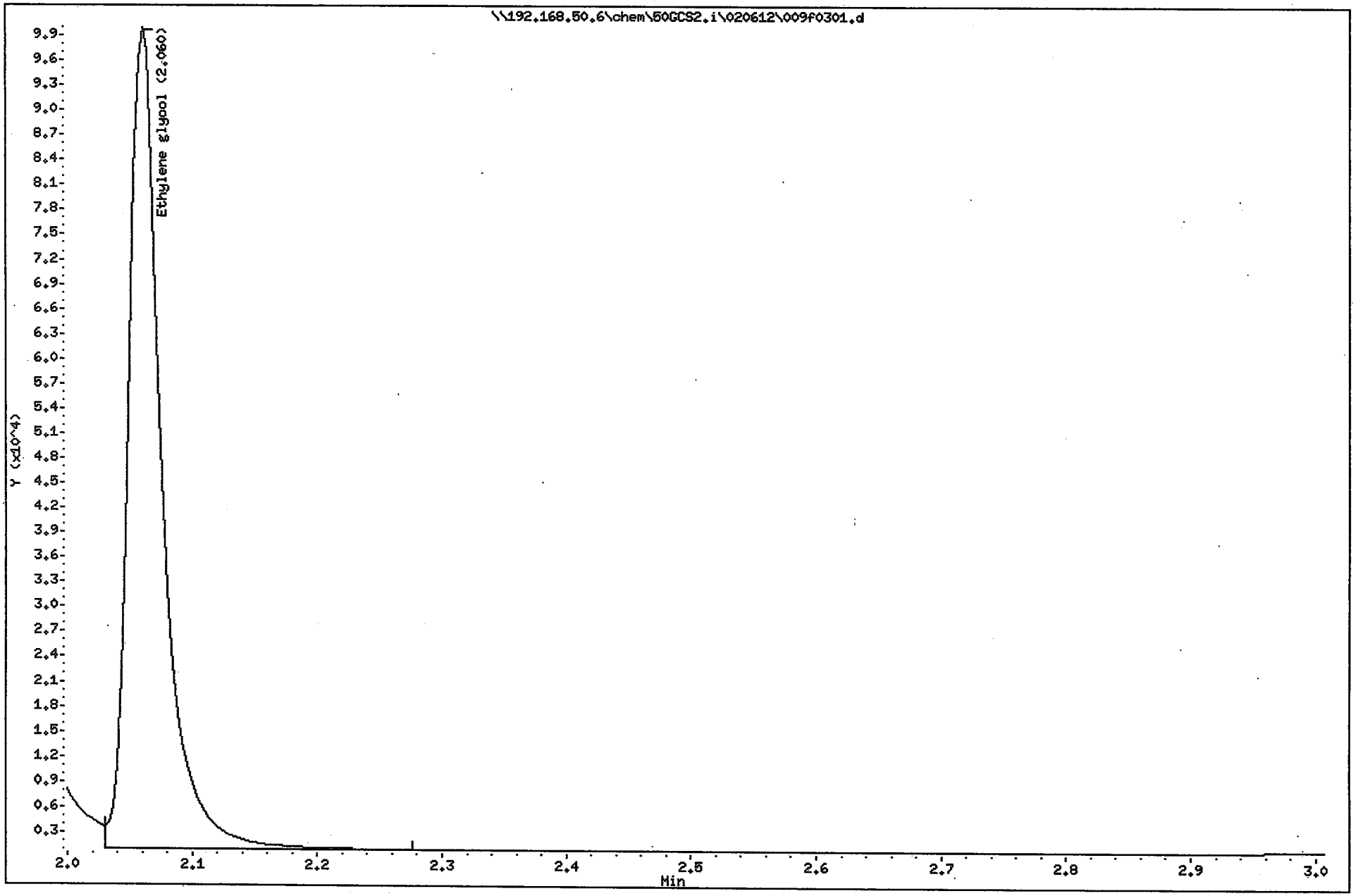
Column phase: DB-5

Instrument: 50GCS2.i

Operator: CEM
Column diameter: 0.32








DIM0271680

DIM0271634

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# Alcohols/Glycols
# 8015B Modified

## Section 3: Calibration Verification Data

***Calibration Verification Summary Table***
***Calibration Verification Standards***
***Calibration Blanks***

Form F-IN-Q304-rev0, 22Jun2011

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020712\001f3401.d
Lab Smp Id: CCV 14733
Inj Date : 07-FEB-2012 16:36
Operator : CEM
Inst ID: 50GCS2.i
Smp Info : CCV 14733
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020712\081110dsp.m
Meth Date : 08-Feb-2012 06:49 cmanuputy
Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17
Cal File: 007f0301.d
Als bottle: 1
Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: ccv.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

| Compounds | RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/mL) | AMOUNTS ON-COL (ug/mL) | |
|---|---|---|---|---|---|---|---|
| 1 Propylene glycol | 1.930 | 1.930 | 0.000 | 236358 | 250.000 | 260.31 | 104 |
| 2 Ethylene glycol | 2.060 | 2.060 | 0.000 | 185121 | 250.000 | 246.94 | 99 |

Good
CEM
2.8.12

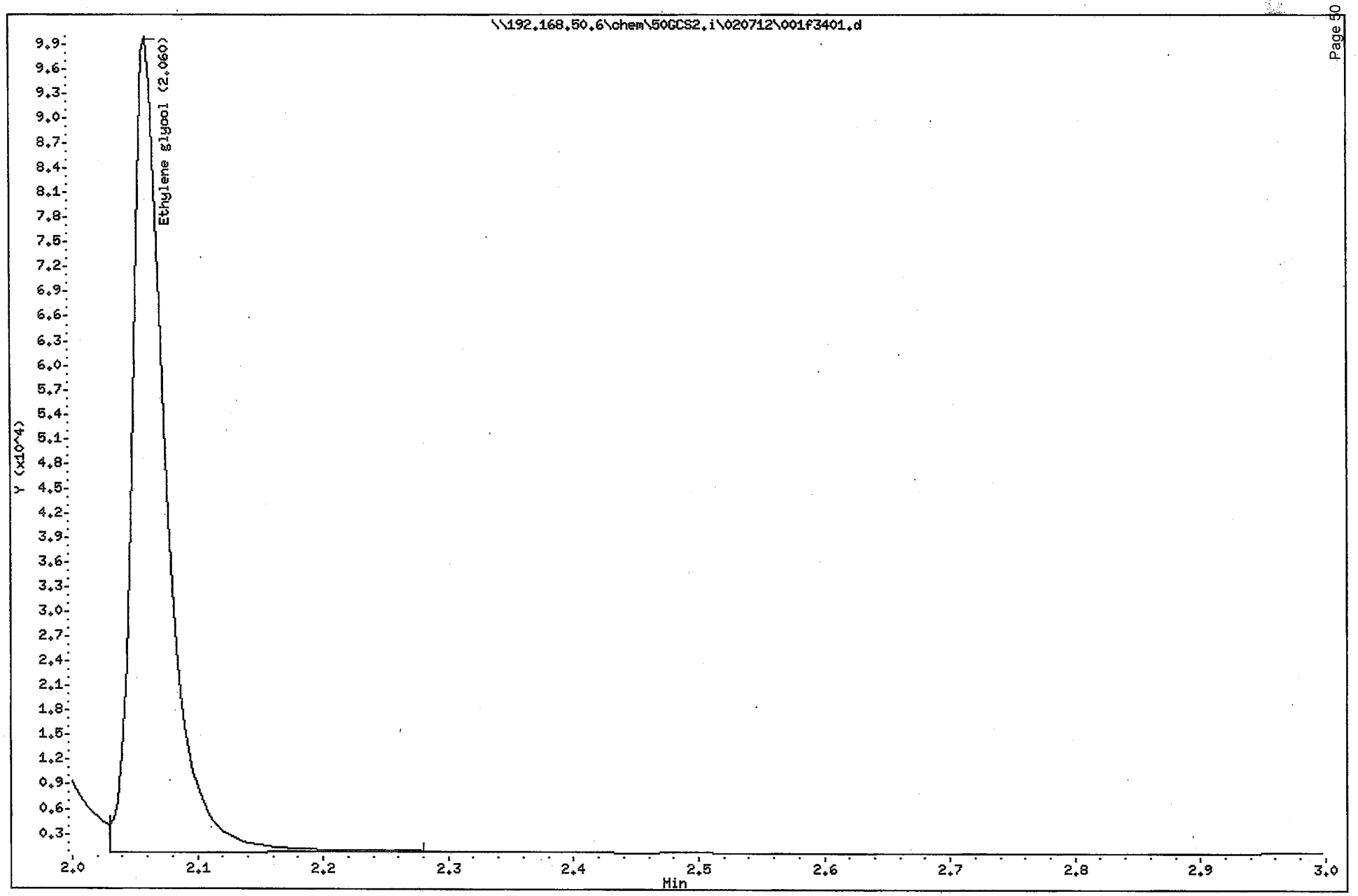
Data File: \\192.168.50.6\chem\50GCS2.i\020712\001f3401.d
Date : 07-FEB-2012 16:36
Client ID:
Sample Info: CCV 14733

Instrument: 50GCS2.i

Operator: CEM

Column phase: DB-5

Column diameter: 0.32






DIM0271683

DIM0271634

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020712\001f3801.d
Lab Smp Id: CCV 14733
Inj Date : 07-FEB-2012 17:21
Operator : CEM Inst ID: 50GCS2.i
Smp Info : CCV 14733
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020712\081110dsp.m
Meth Date : 08-Feb-2012 06:51 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17 Cal File: 007f0301.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ccv.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

| Compounds | RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/mL) | AMOUNTS ON-COL (ug/mL) | |
|---|---|---|---|---|---|---|---|
| 1 Propylene glycol | 1.930 | 1.930 | 0.000 | 240432 | 250.000 | 264.79 | 106 |
| 2 Ethylene glycol | 2.060 | 2.060 | 0.000 | 191353 | 250.000 | 255.26 | 102 |

Good
CEM
2.8.12

Data File: \\192.168.50.6\chem\50GCS2.i\020712\001f3801.d
Date : 07-FEB-2012 17:21
Client ID:
Sample Info: CCV 14733

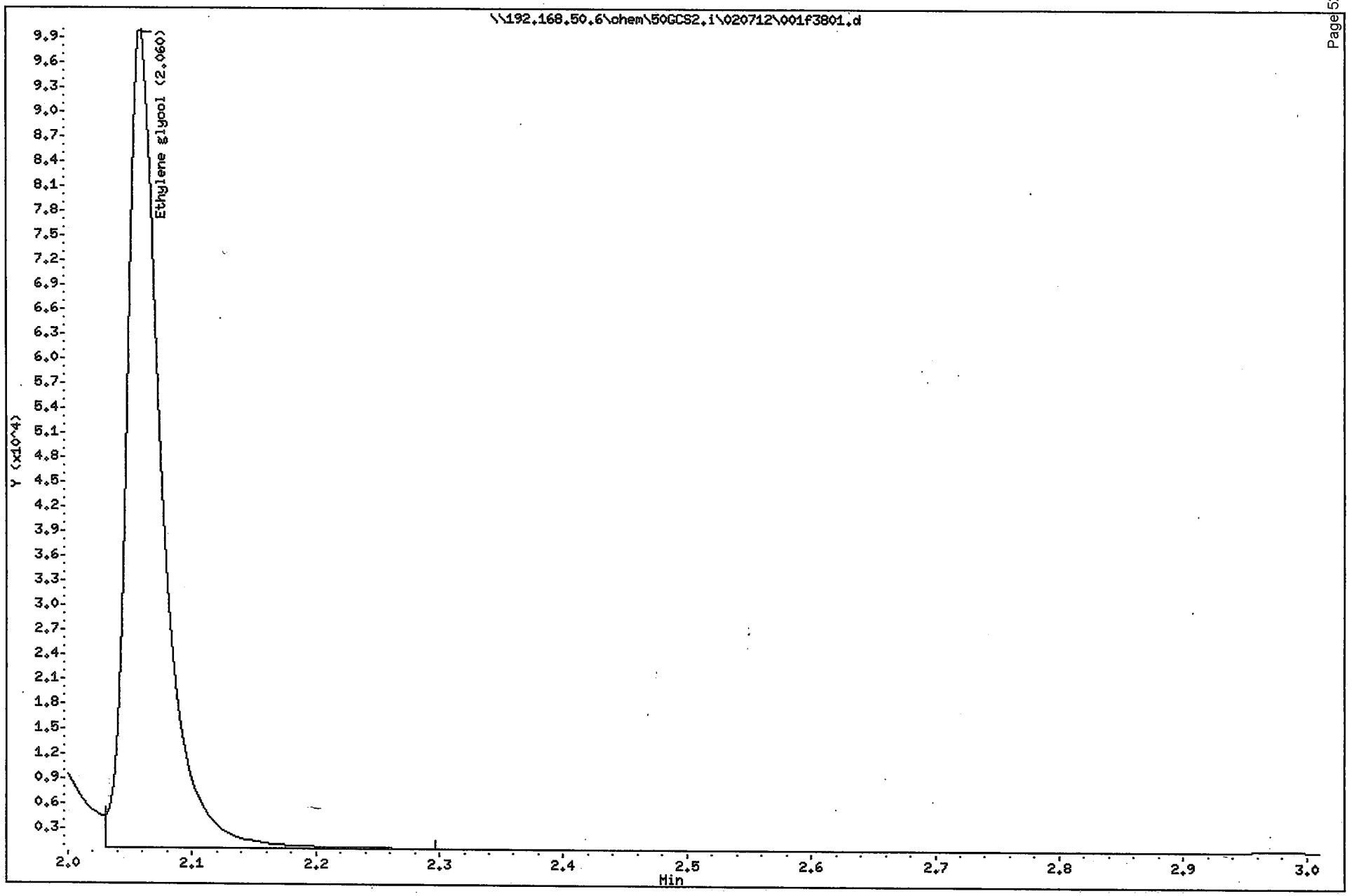
Column phase: DB-5

Instrument: 50GCS2.i

Operator: CEM
Column diameter: 0.32








DIM0271685

DIM0271634

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020812\001f0201.d
Lab Smp Id: CCV 14733
Inj Date : 08-FEB-2012 06:59
Operator : CEM Inst ID: 50GCS2.i
Smp Info : CCV 14733
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020812\081110dsp.m
Meth Date : 08-Feb-2012 09:40 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17 Cal File: 007f0301.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ccv.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

| Compounds | RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/mL) | AMOUNTS ON-COL (ug/mL) | |
|---|---|---|---|---|---|---|---|
| 1 Propylene glycol | 1.930 | 1.930 | 0.000 | 223441 | 250.000 | 246.08 | 98 |
| 2 Ethylene glycol | 2.060 | 2.060 | 0.000 | 176821 | 250.000 | 235.87 | 94 |

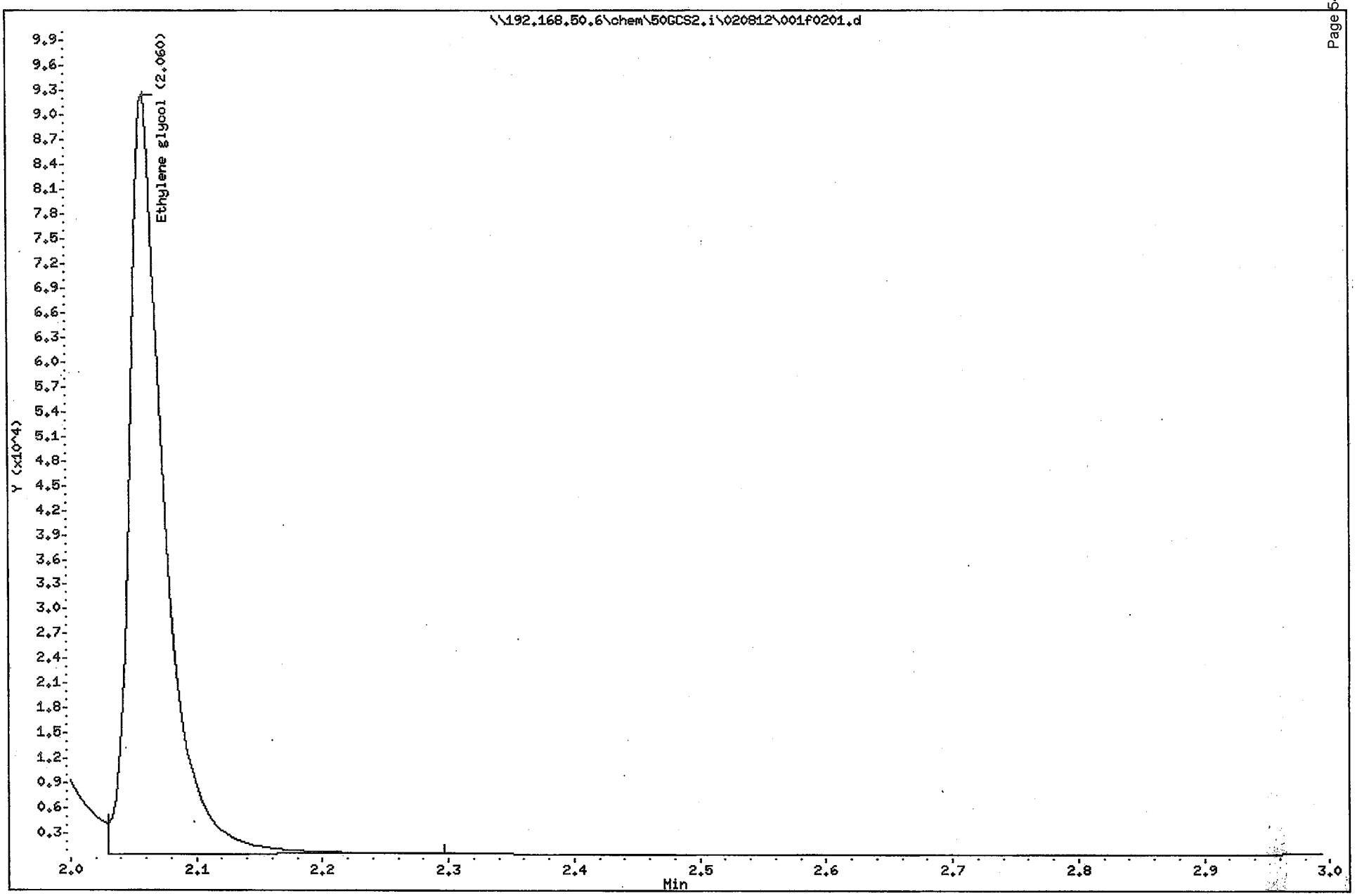
Good
CEM
2.8.12

Data File: \\192.168.50.6\chem\50GCS2.i\020812\001f0201.d
Date : 08-FEB-2012 06:59
Client ID:
Sample Info: CCV 14733

Instrument: 50GCS2.i

Operator: CEM
Column phase: DB-5
Column diameter: 0.32






DIM0271687
DIM0271634

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020812\001f0601.d
Lab Smp Id:
Inj Date : 08-FEB-2012 08:17
Operator : CEM Inst ID: 50GCS2.i
Smp Info : CCV 14733
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020812\081110dsp.m
Meth Date : 08-Feb-2012 09:40 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17 Cal File: 007f0301.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ccv.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVa

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 30.000 | Weight of sample extracted (g) |
| M | 0.00000 | % moisture |
| Cpnd Variable | | Local Compound Variable |

| Compounds | RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/mL) | AMOUNTS ON-COL (ug/mL) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | 1.930 | 1.930 | 0.000 | 233486 | 250.000 | 257.14 |
| 2 Ethylene glycol | 2.060 | 2.060 | 0.000 | 184430 | 250.000 | 246.02 |

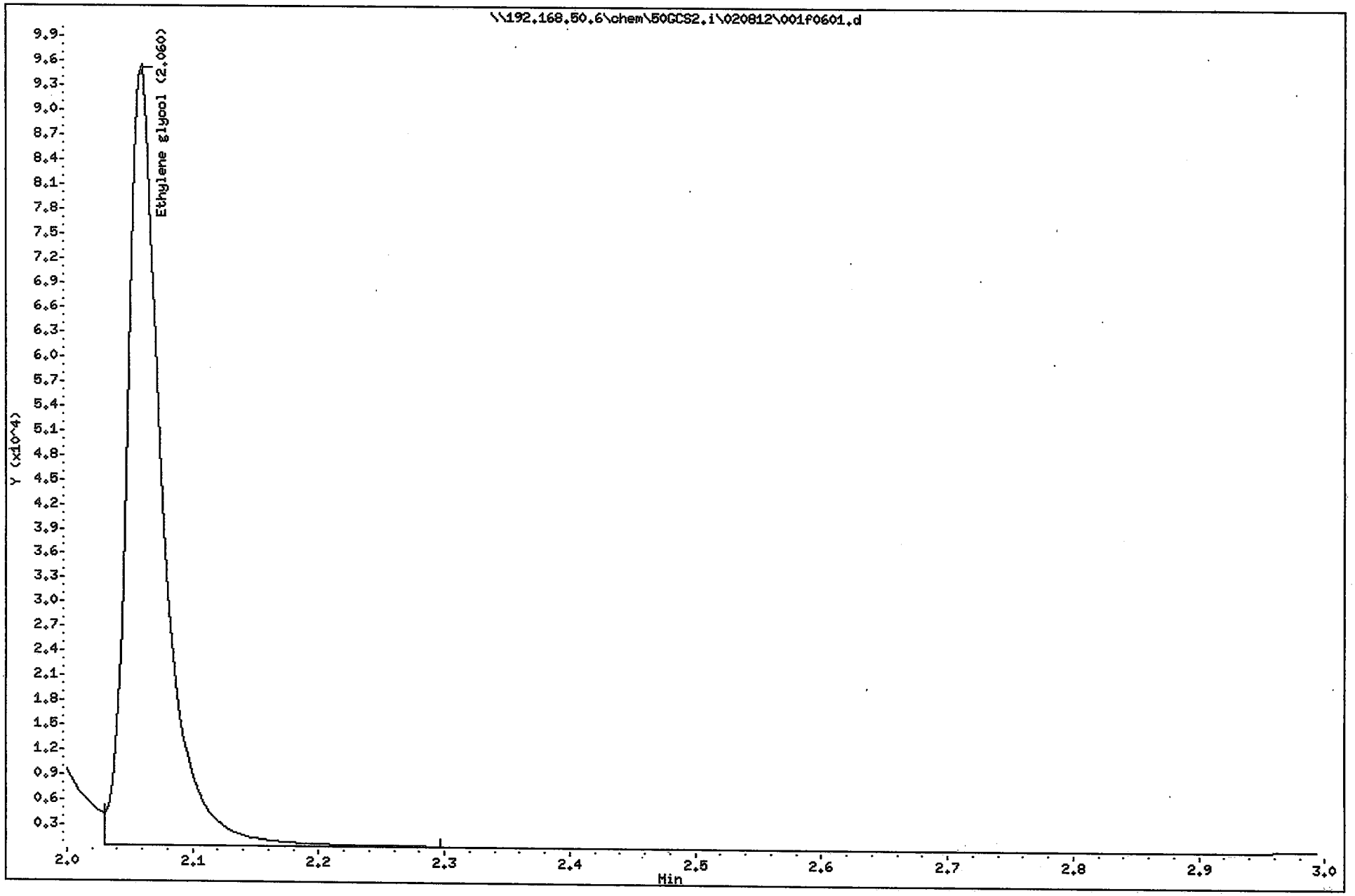
103
98

CEM
2.8.12

Data File: \\192.168.50.6\chem\50GCS2.i\020812\001f0601.d
Date : 08-FEB-2012 08:17
Client ID:
Sample Info: CCV 14733
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: 50GCS2.i

Operator: CEM
Column diameter: 0.32






DIM0271689

DIM0271634

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020812\001f1101.d
Lab Smp Id: CCV 14733
Inj Date : 08-FEB-2012 09:28
Operator : CEM Inst ID: 50GCS2.i
Smp Info : CCV 14733
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020812\081110dsp.m
Meth Date : 08-Feb-2012 09:40 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17 Cal File: 007f0301.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ccv.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

| Compounds | RT | EXP RT | DLT RT | RESPONSE | AMOUNTS CAL-AMT (ug/mL) | AMOUNTS ON-COL (ug/mL) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | 1.930 | 1.930 | 0.000 | 236415 | 250.000 | 260.37 |
| 2 Ethylene glycol | 2.060 | 2.060 | 0.000 | 187016 | 250.000 | 249.47 |

104
99

Good
OEM
2.8.12

Data File: \\192.168.50.6\chem\50GCS2.i\020812\001f1101.d
Date : 08-FEB-2012 09:28
Client ID:
Sample Info: CCV 14733

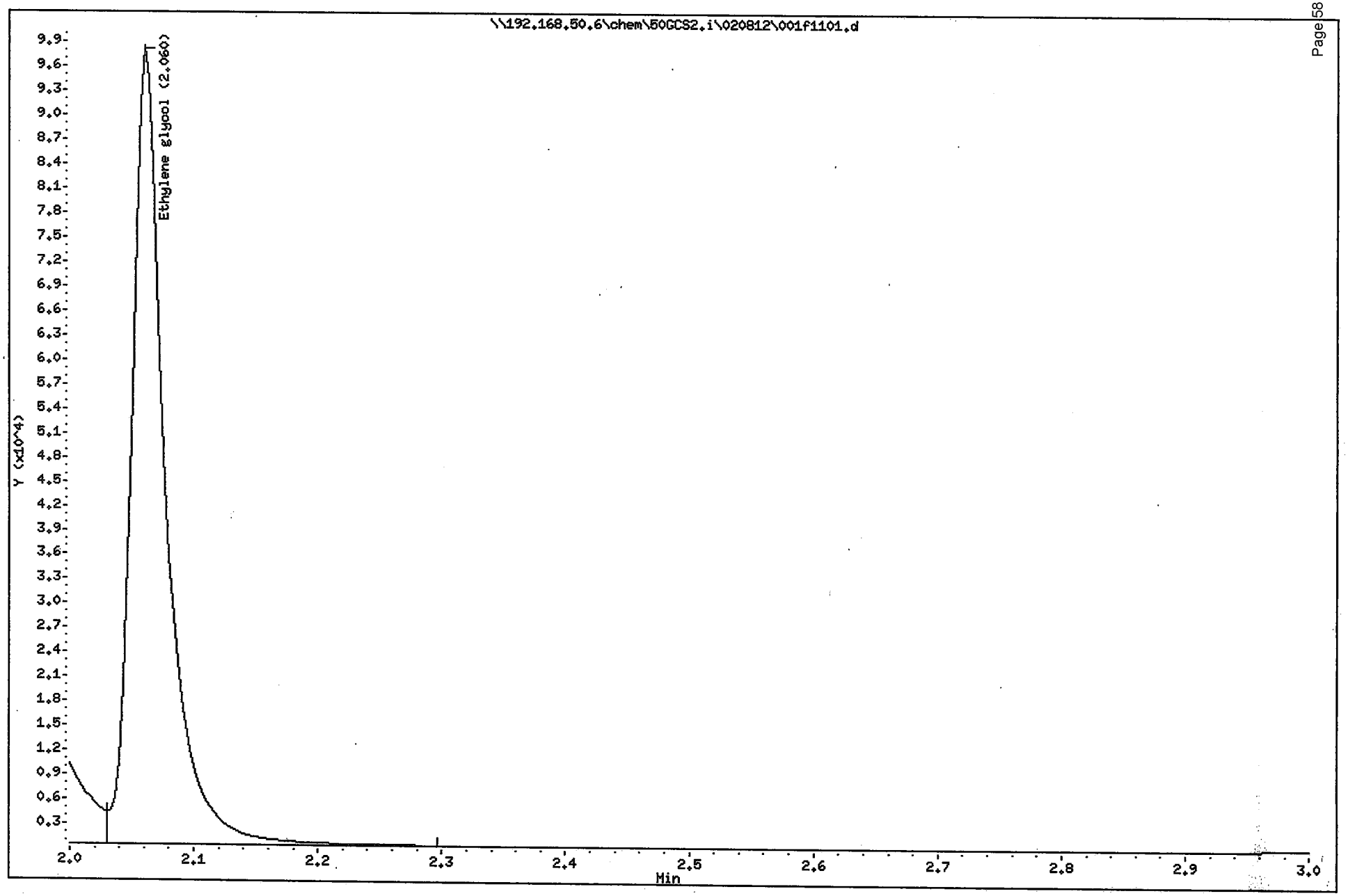
Column phase: DB-5

Instrument: 50GCS2.i

Operator: CEM
Column diameter: 0.32








DIM0271691

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# Alcohols/Glycols 8015B Modified

## Section 4: Quality Control Data

***Laboratory Control Samples (LCS)***
***Matrix Spike and Spike Duplicate Samples (MS/MSD)***

Form F-IN-Q304-rev0, 22Jun2011

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020712\060f3701.d
Lab Smp Id:
Inj Date : 07-FEB-2012 17:07
Operator : CEM Inst ID: 50GCS2.i
Smp Info : 684572L
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020712\081110dsp.m
Meth Date : 08-Feb-2012 06:51 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17 Cal File: 007f0301.d
Als bottle: 60 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/mL) | CONCENTRATIONS FINAL ( ug/L) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | 1.930 | 1.930 | 0.000 | 224920 | 247.715 | 247.71 |
| 2 Ethylene glycol | 2.060 | 2.060 | 0.000 | 180580 | 240.892 | 240.89 |

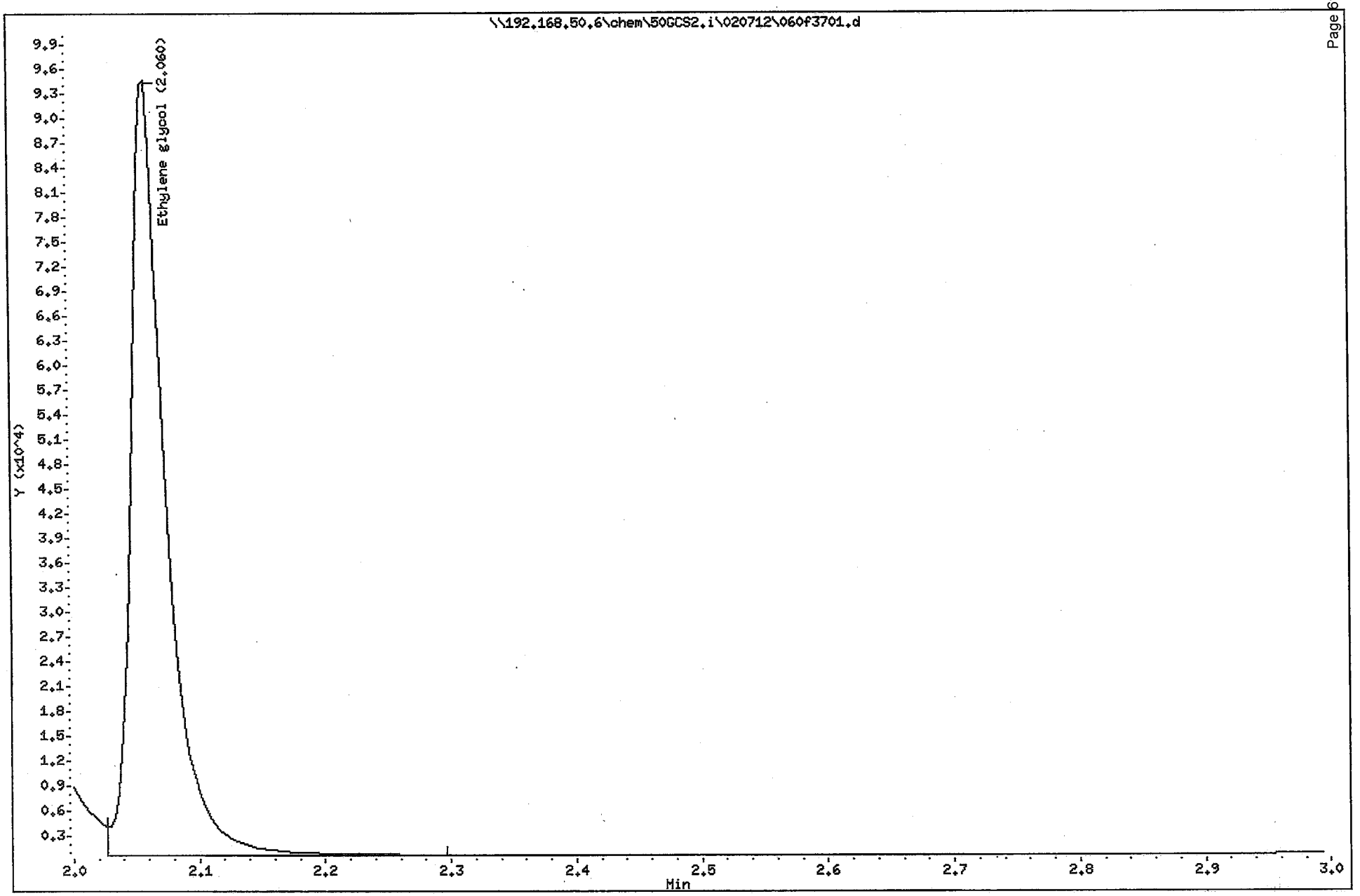
Data File: \\192.168.50.6\chem\50GCS2.i\020712\060f3701.d
Date : 07-FEB-2012 17:07
Client ID:
Sample Info: 684572L

Column phase: DB-5

Instrument: 50GCS2.i

Operator: CEM
Column diameter: 0.32






DIM0271694
DIM0271634

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020712\061f3701.d
Lab Smp Id:
Inj Date : 07-FEB-2012 17:12
Operator : CEM
Inst ID: 50GCS2.i
Smp Info : 684573M
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020712\081110dsp.m
Meth Date : 08-Feb-2012 06:51 cmanuputy
Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17
Cal File: 007f0301.d
Als bottle: 61
QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/mL) | CONCENTRATIONS FINAL ( ug/L) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | 1.930 | 1.930 | 0.000 | 220723 | 243.093 | 243.09 |
| 2 Ethylene glycol | 2.060 | 2.060 | 0.000 | 176664 | 235.668 | 235.66 |

Data File: \\192.168.50.6\chem\50GCS2.i\020712\061f3701.d
Date : 07-FEB-2012 17:12
Client ID:
Sample Info: 684573M

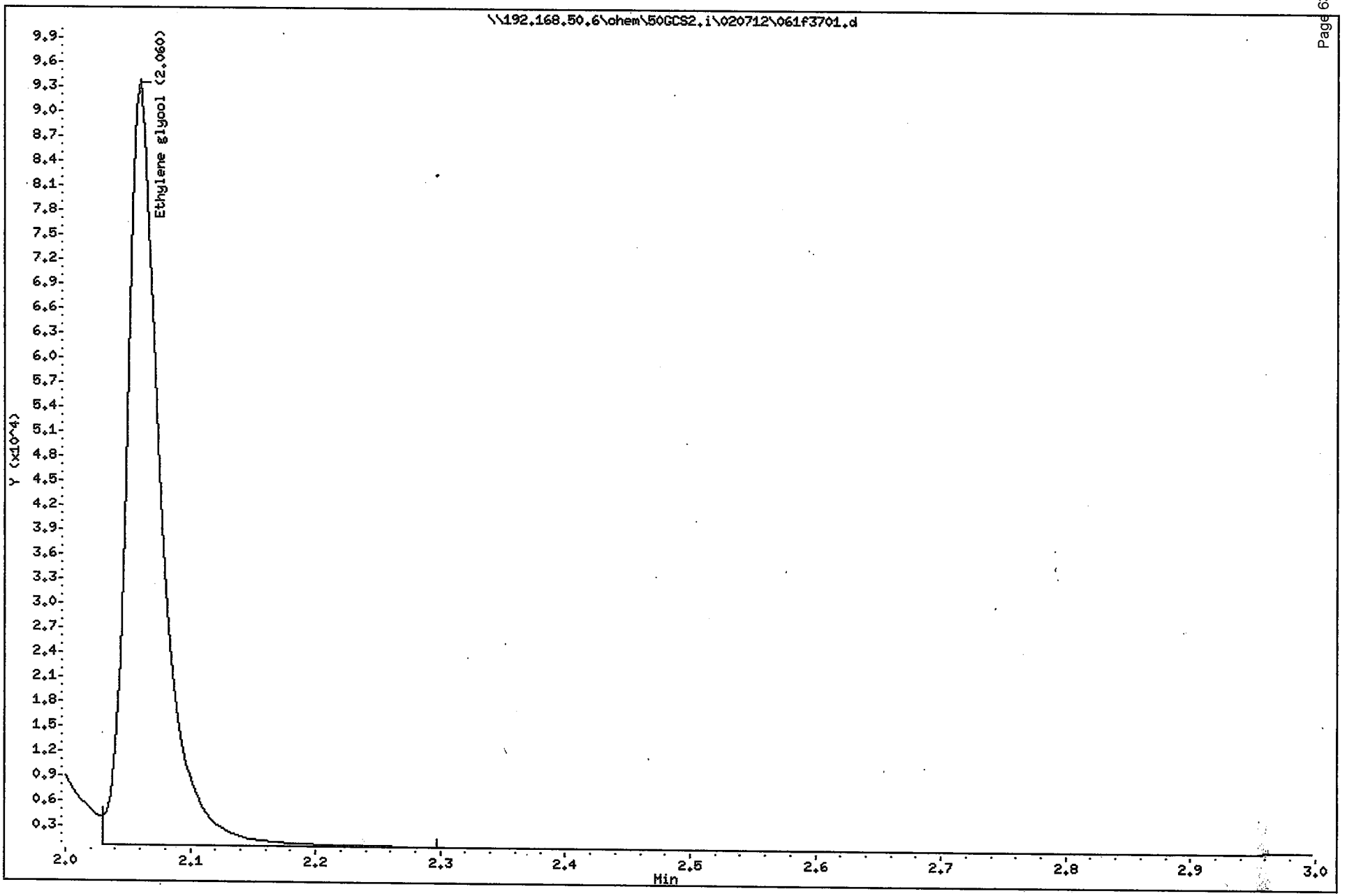
Column phase: DB-5

Instrument: 50GCS2.i

Operator: CEM
Column diameter: 0.32








DIM0271696

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Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020712\062f3701.d
Lab Smp Id:
Inj Date : 07-FEB-2012 17:16
Operator : CEM Inst ID: 50GCS2.i
Smp Info : 684574D
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020712\081110dsp.m
Meth Date : 08-Feb-2012 06:51 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17 Cal File: 007f0301.d
Als bottle: 62 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/mL) | CONCENTRATIONS FINAL ( ug/L) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | 1.930 | 1.930 | 0.000 | 219883 | 242.168 | 242.16 |
| 2 Ethylene glycol | 2.060 | 2.060 | 0.000 | 175367 | 233.938 | 233.93 |

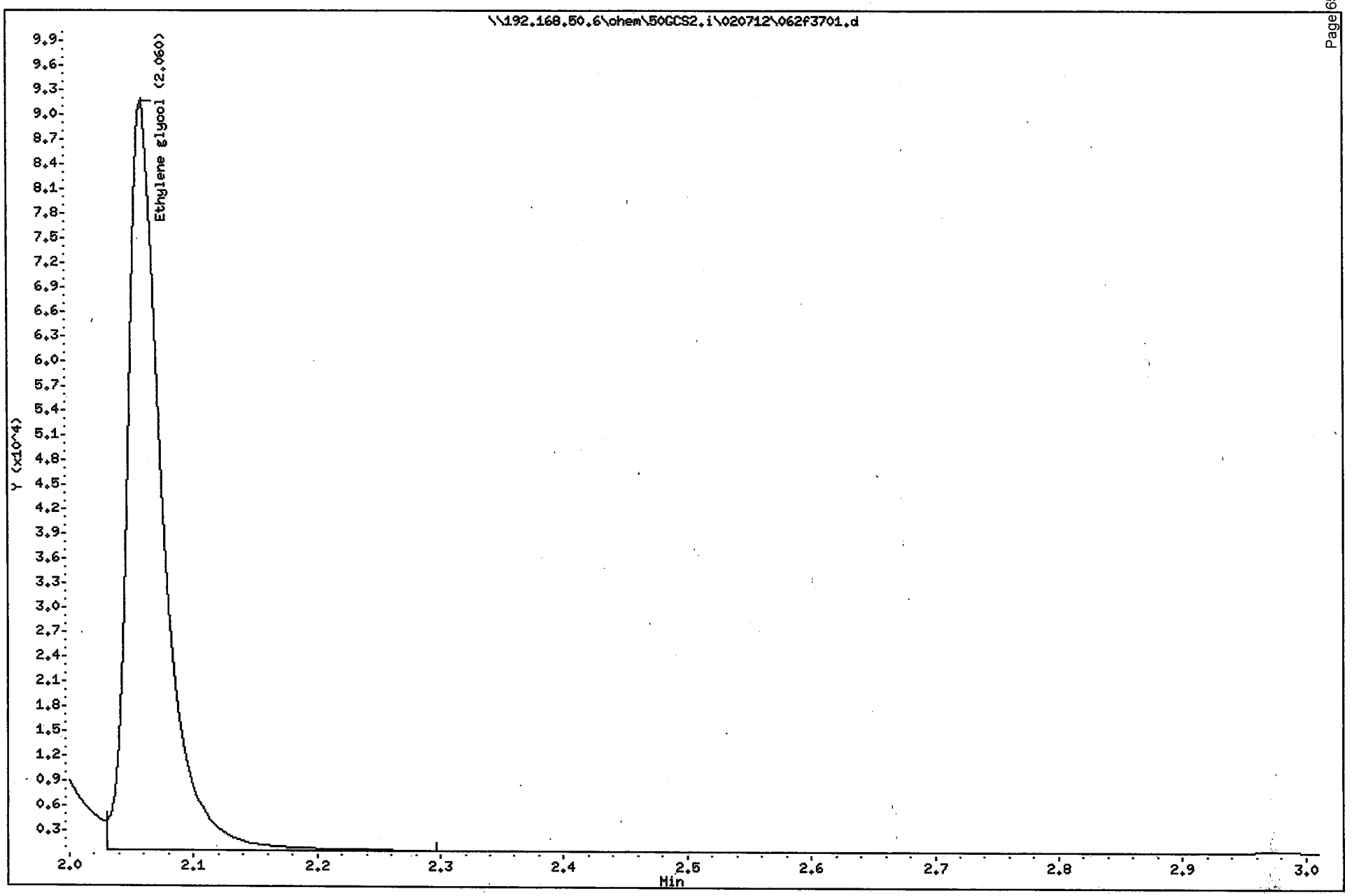
Data File: \\192.168.50.6\chem\50GCS2.i\020712\062f3701.d
Date : 07-FEB-2012 17:16
Client ID:
Sample Info: 684574D

Column phase: DB-5

Instrument: 50GCS2.i

Operator: CEM
Column diameter: 0.32



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# Alcohols/Glycols 8015B Modified

## Section 5: Method Blank Data

***Method Blanks***

Form F-IN-Q304-rev0, 22Jun2011

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020712\059f3701.d
Lab Smp Id:
Inj Date : 07-FEB-2012 17:03
Operator : CEM Inst ID: 50GCS2.i
Smp Info : 684571B
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020712\081110dsp.m
Meth Date : 08-Feb-2012 06:51 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17 Cal File: 007f0301.d
Als bottle: 59 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/mL) | CONCENTRATIONS FINAL ( ug/L) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | Compound Not Detected. | | | | | |
| 2 Ethylene glycol | 2.076 | 2.060 | 0.016 | 2971 | 3.96329 | 3.96 |

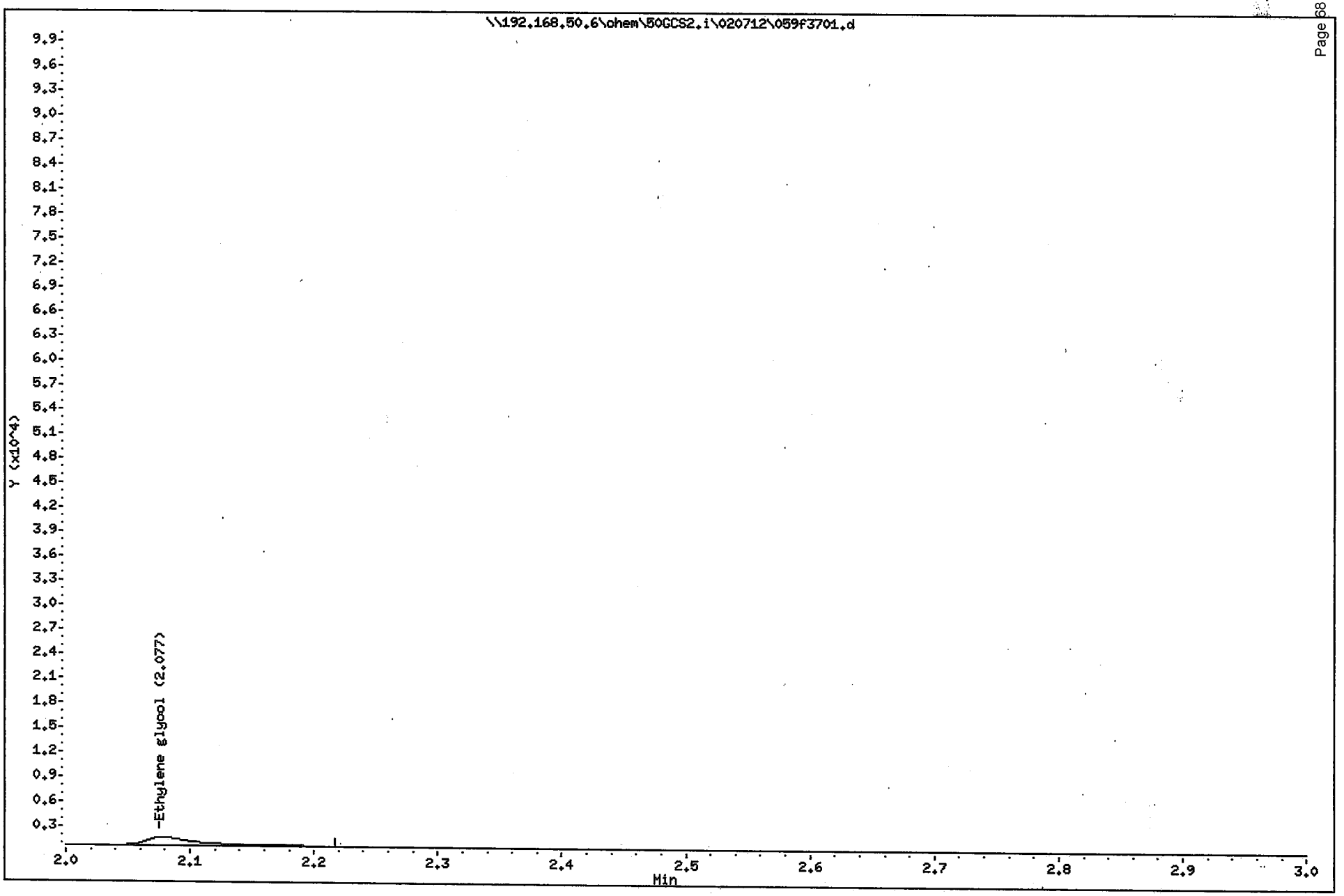
Data File: \\192.168.50.6\chem\50GCS2.i\020712\059f3701.d
Date : 07-FEB-2012 17:03
Client ID:
Sample Info: 684571B

Instrument: 50GCS2.i

Operator: CEM
Column diameter: 0.32

Column phase: DB-5





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# Alcohols/Glycols 8015B Modified

## Section 6: Client Sample Data

***Client Sample Raw Data***
***Dilutions or Reruns of Client Samples***
***(Sample data should be in numerical order by Lab Number)***

Form F-IN-Q304-rev0, 22Jun2011

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020812\063f0501.d
Lab Smp Id:
Inj Date : 08-FEB-2012 07:26
Operator : CEM Inst ID: 50GCS2.i
Smp Info : 5058185001
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020812\081110dsp.m
Meth Date : 08-Feb-2012 09:40 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17 Cal File: 007f0301.d
Als bottle: 63
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

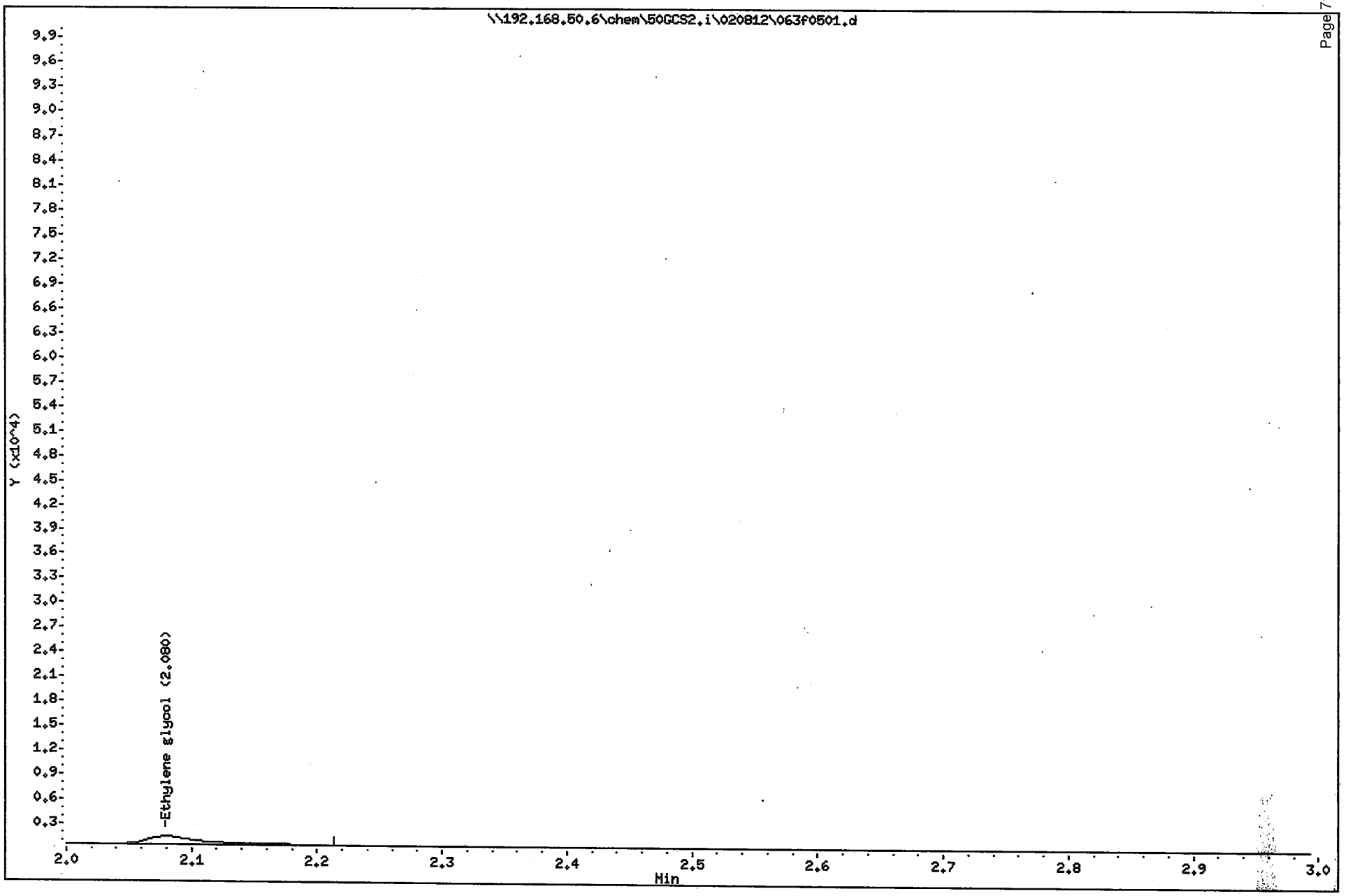
Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVa

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 30.000 | Weight of sample extracted (g) |
| M | 0.00000 | % moisture |
| Cpnd Variable | | Local Compound Variable |

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/mL) | CONCENTRATIONS FINAL (ug/Kg) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | Compound Not Detected. | | | | | |
| 2 Ethylene glycol | 2.080 | 2.060 | 0.020 | 2790 | 3.72184 | 124.06 |

Data File: \\192.168.50.6\chem\50GCS2.i\020812\063f0501.d
Date : 08-FEB-2012 07:26
Client ID:
Sample Info: 5058185001
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: 50GCS2.i
Operator: CEM
Column diameter: 0.32






DIM0271704
DIM0271634

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020812\064f0501.d
Lab Smp Id:
Inj Date : 08-FEB-2012 07:31
Operator : CEM Inst ID: 50GCS2.i
Smp Info : 5058185002
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020812\081110dsp.m
Meth Date : 08-Feb-2012 09:40 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17 Cal File: 007f0301.d
Als bottle: 64
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

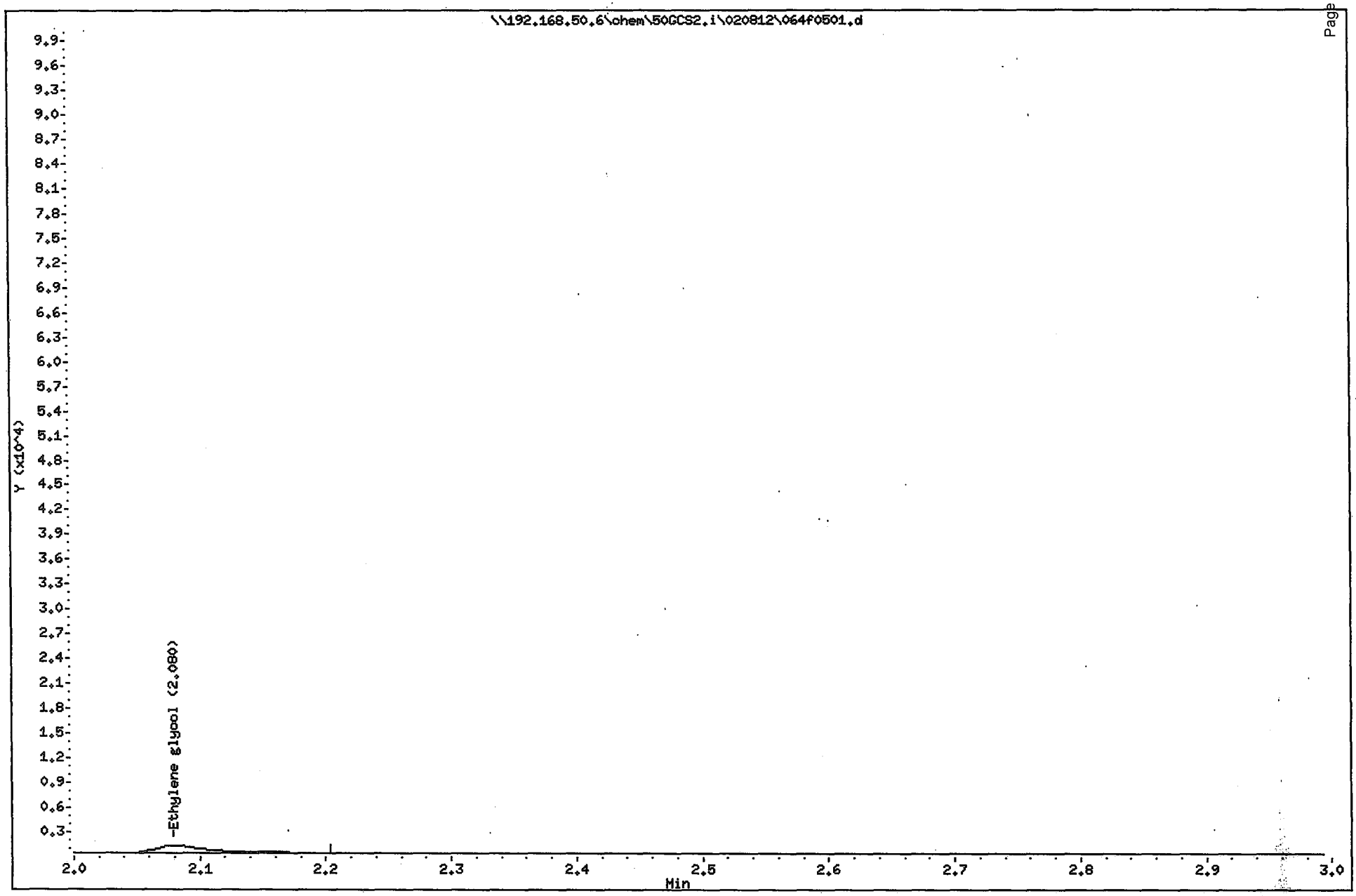
Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVa

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 30.000 | Weight of sample extracted (g) |
| M | 0.00000 | % moisture |
| Cpnd Variable | | Local Compound Variable |

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/mL) | CONCENTRATIONS FINAL (ug/Kg) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | Compound Not Detected. | | | | | |
| 2 Ethylene glycol | 2.080 | 2.060 | 0.020 | 2433 | 3.24560 | 108.18 |

Data File: \\192.168.50.6\chem\50GCS2.i\020812\064f0501.d
Date : 08-FEB-2012 07:31
Client ID:
Sample Info: 5058185002
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: 50GCS2.i
Operator: CEM
Column diameter: 0.32






DIM0271706
DIM0271634

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020812\065f0501.d
Lab Smp Id:
Inj Date : 08-FEB-2012 07:36
Operator : CEM Inst ID: 50GCS2.i
Smp Info : 5058185003
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020812\081110dsp.m
Meth Date : 08-Feb-2012 09:40 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17 Cal File: 007f0301.d
Als bottle: 65
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVa

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 30.000 | Weight of sample extracted (g) |
| M | 0.00000 | % moisture |
| Cpnd Variable | | Local Compound Variable |

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/mL) | CONCENTRATIONS FINAL (ug/Kg) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | Compound Not Detected. | | | | | |
| 2 Ethylene glycol | 2.080 | 2.060 | 0.020 | 2162 | 2.88409 | 96.13 |

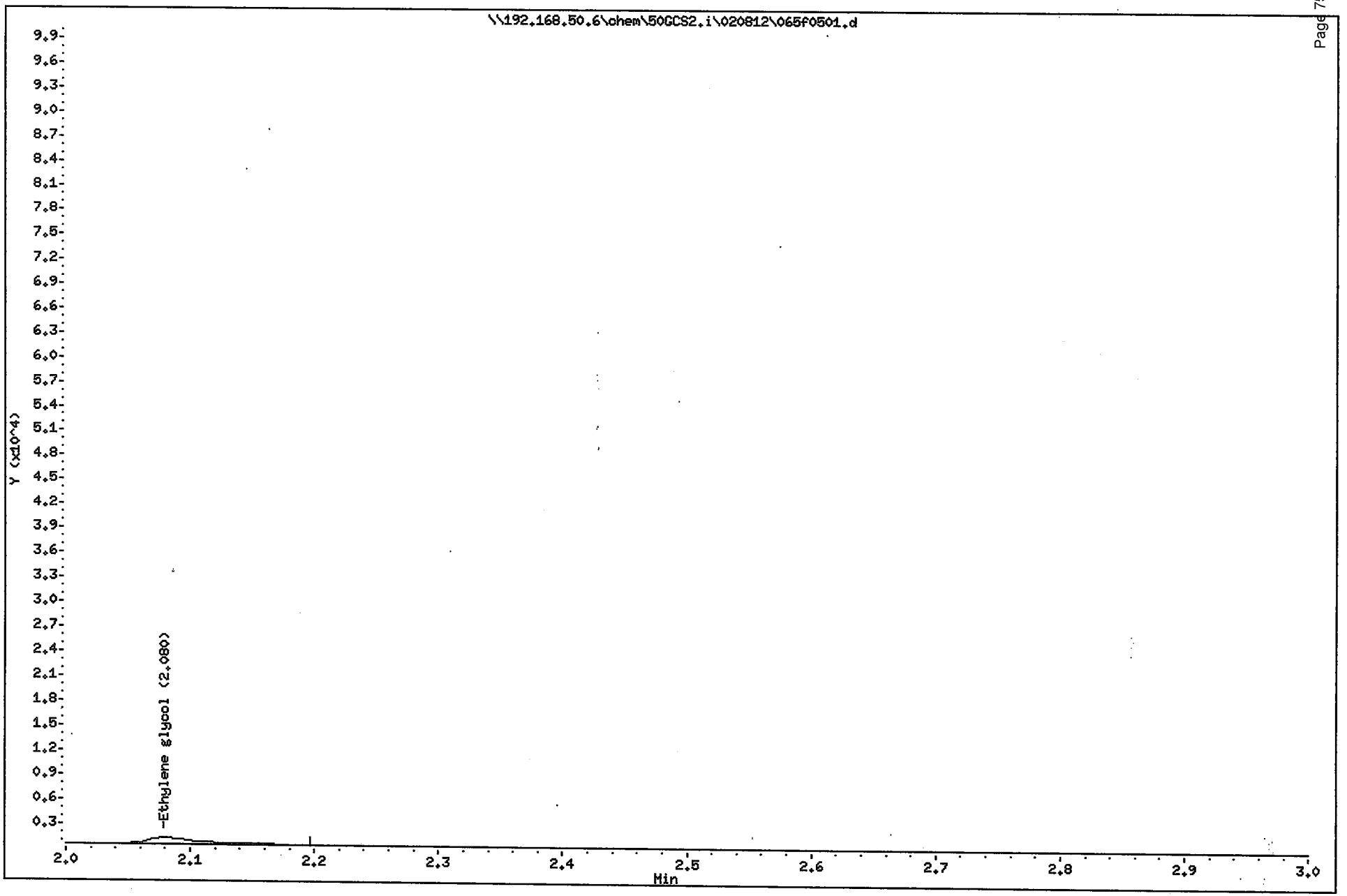
Data File: \\192.168.50.6\chem\50GCS2.i\020812\065f0501.d
Date : 08-FEB-2012 07:36
Client ID:
Sample Info: 5058185003
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: 50GCS2.i

Operator: CEM
Column diameter: 0.32







Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020812\066f0501.d
Lab Smp Id:
Inj Date : 08-FEB-2012 07:41
Operator : CEM Inst ID: 50GCS2.i
Smp Info : 5058185004
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020812\081110dsp.m
Meth Date : 08-Feb-2012 09:40 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17 Cal File: 007f0301.d
Als bottle: 66
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVa

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 30.000 | Weight of sample extracted (g) |
| M | 0.00000 | % moisture |
| Cpnd Variable | | Local Compound Variable |

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/mL) | CONCENTRATIONS FINAL (ug/Kg) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | Compound Not Detected. | | | | | |
| 2 Ethylene glycol | 2.080 | 2.060 | 0.020 | 2043 | 2.72535 | 90.84 |

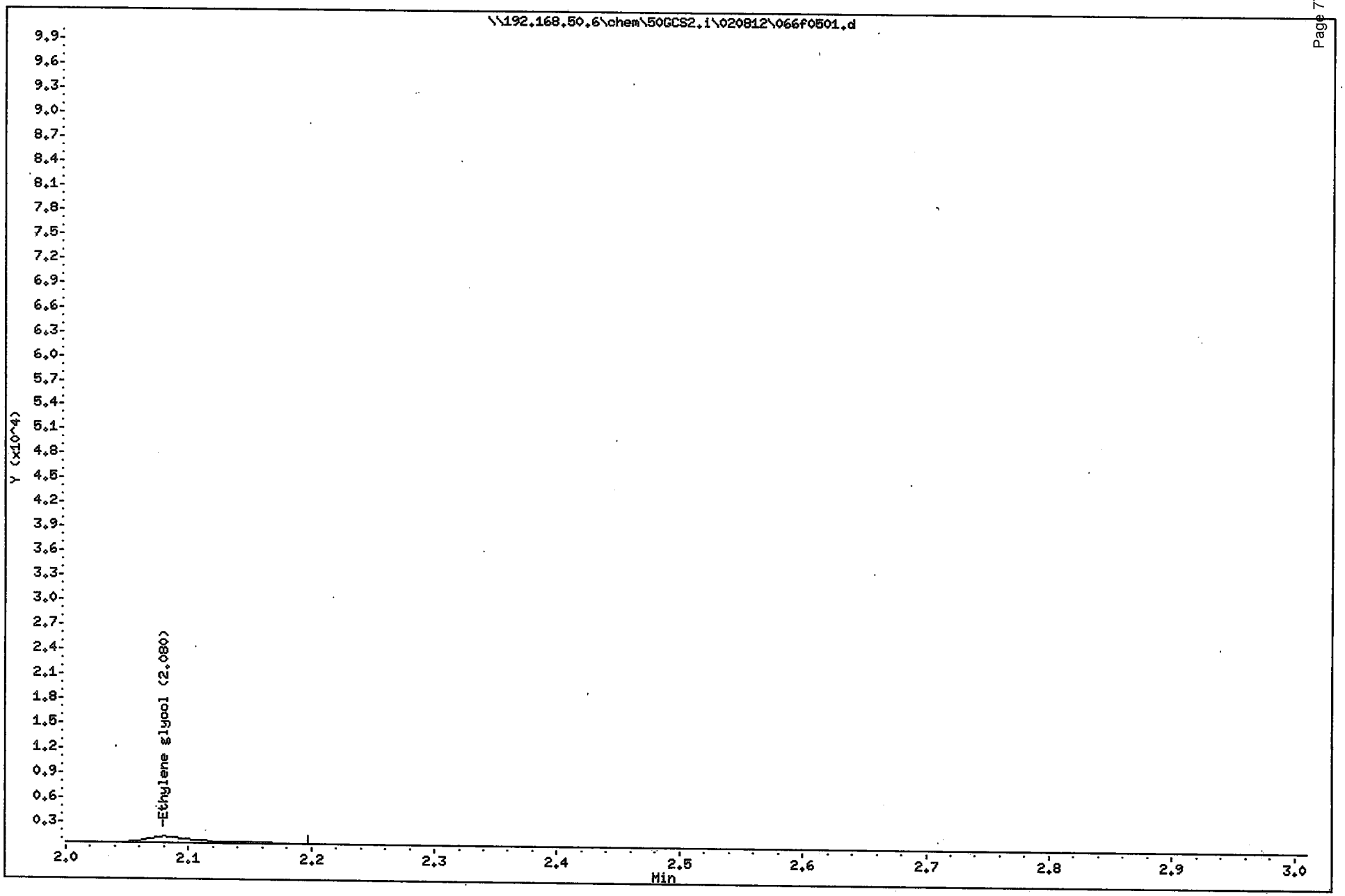
Data File: \\192.168.50.6\chem\50GCS2.i\020812\066f0501.d
Date : 08-FEB-2012 07:41
Client ID:
Sample Info: 5058185004
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: 50GCS2.i

Operator: CEM
Column diameter: 0.32








DIM0271710

DIM0271634

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020812\067f0501.d
Lab Smp Id:
Inj Date : 08-FEB-2012 07:46
Operator : CEM Inst ID: 50GCS2.i
Smp Info : 5058185005
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020812\081110dsp.m
Meth Date : 08-Feb-2012 09:40 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17 Cal File: 007f0301.d
Als bottle: 67
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVa

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 30.000 | Weight of sample extracted (g) |
| M | 0.00000 | % moisture |
| Cpnd Variable | | Local Compound Variable |

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/mL) | CONCENTRATIONS FINAL (ug/Kg) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | Compound Not Detected. | | | | | |
| 2 Ethylene glycol | 2.080 | 2.060 | 0.020 | 1945 | 2.59461 | 86.48 |

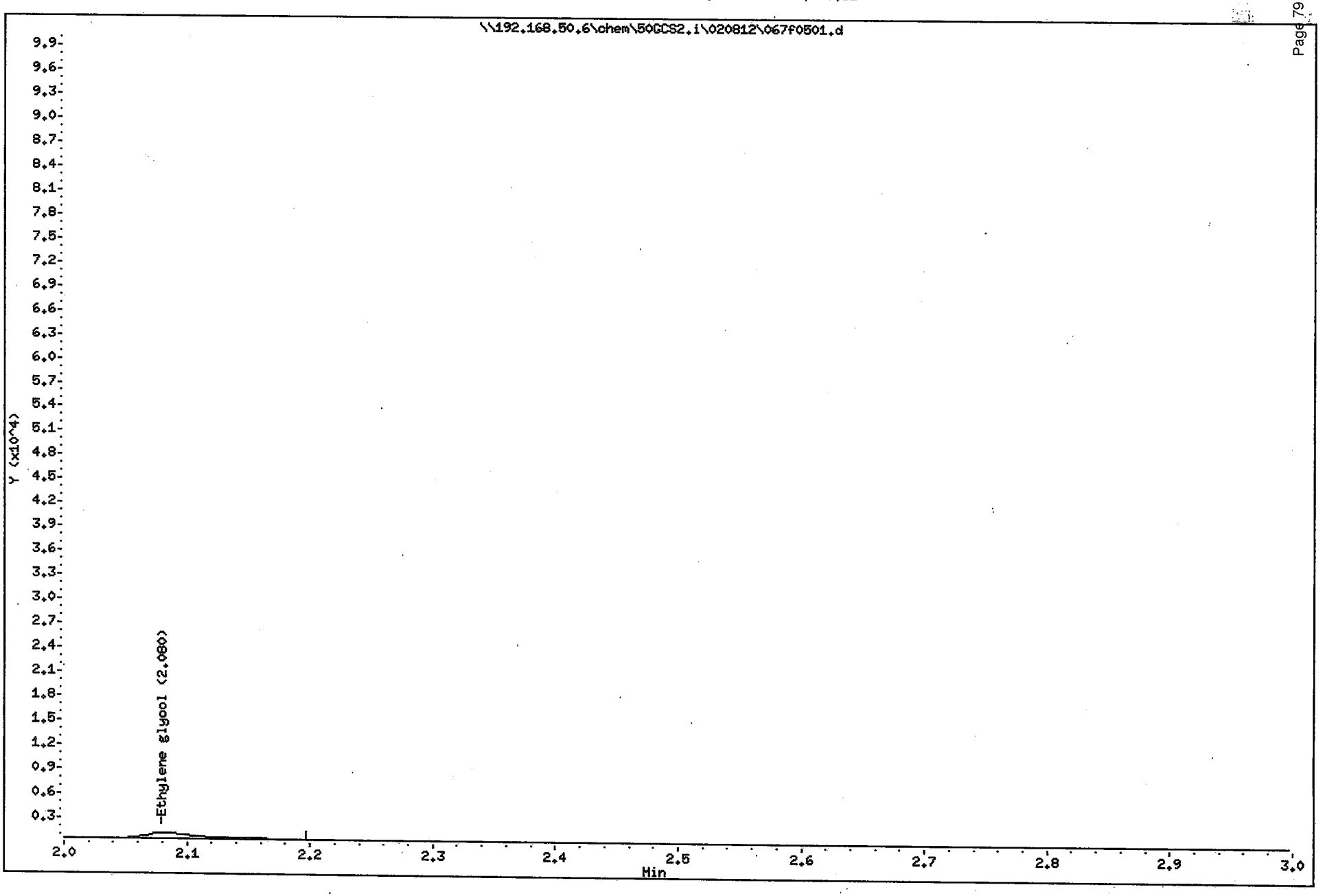
Data File: \\192.168.50.6\chem\50GCS2.i\020812\067f0501.d
Date : 08-FEB-2012 07:46
Client ID:
Sample Info: 5058185005
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: 50GCS2.i

Operator: CEM
Column diameter: 0.32







Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020812\068f0501.d
Lab Smp Id:
Inj Date : 08-FEB-2012 07:51
Operator : CEM Inst ID: 50GCS2.i
Smp Info : 5058185006
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020812\081110dsp.m
Meth Date : 08-Feb-2012 09:40 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17 Cal File: 007f0301.d
Als bottle: 68
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVa

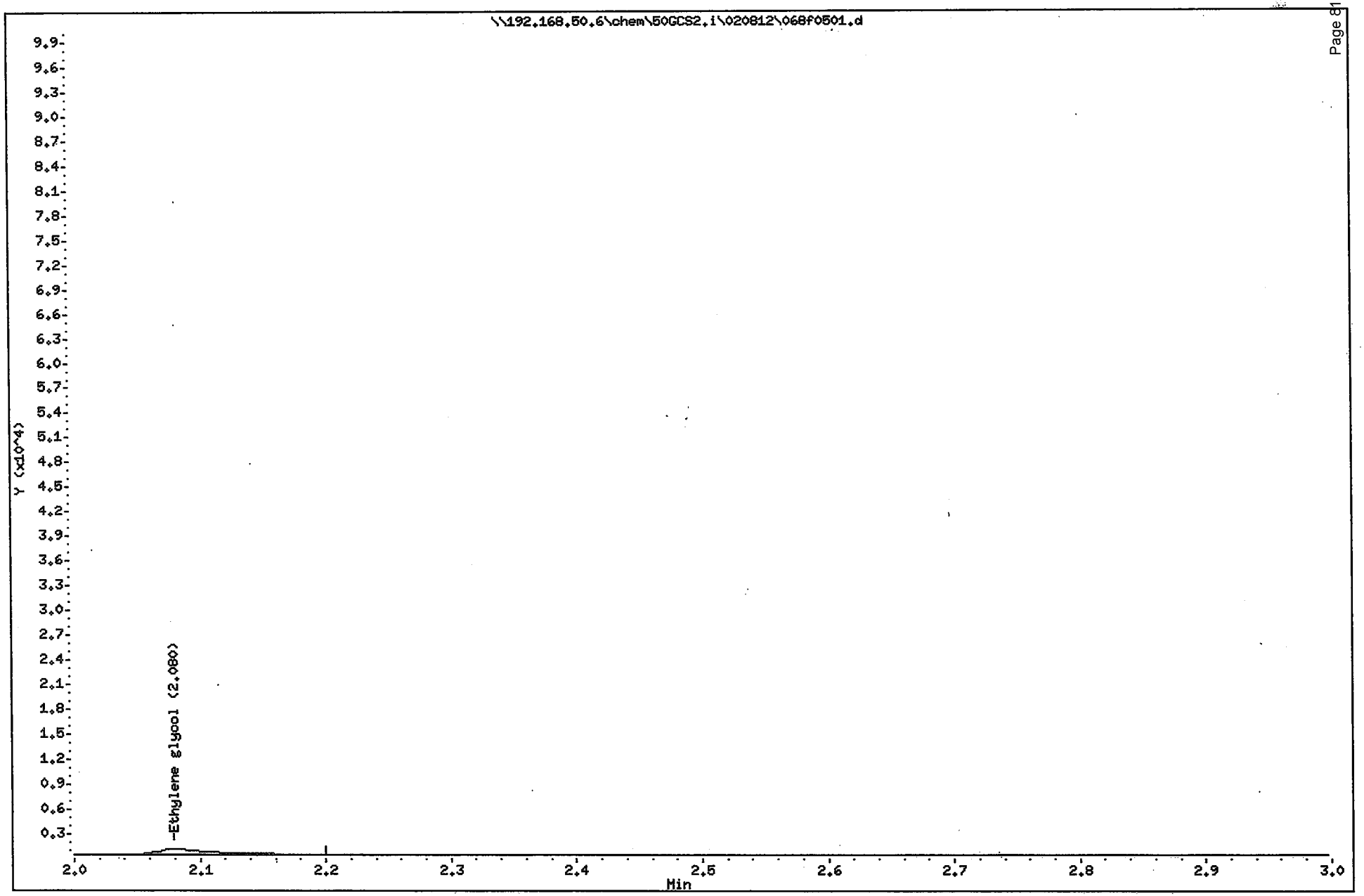
| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 30.000 | Weight of sample extracted (g) |
| M | 0.00000 | % moisture |
| Cpnd Variable | | Local Compound Variable |

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/mL) | CONCENTRATIONS FINAL (ug/Kg) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | Compound Not Detected. | | | | | |
| 2 Ethylene glycol | 2.080 | 2.060 | 0.020 | 1845 | 2.46122 | 82.04 |

Data File: \\192.168.50.6\chem\50GCS2.i\020812\068f0501.d
Date : 08-FEB-2012 07:51
Client ID:
Sample Info: 5058185006
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: 50GCS2.i
Operator: CEM
Column diameter: 0.32






DIM0271714
DIM0271634

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020812\069f0501.d
Lab Smp Id:
Inj Date : 08-FEB-2012 07:57
Operator : CEM Inst ID: 50GCS2.i
Smp Info : 5058185007
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020812\081110dsp.m
Meth Date : 08-Feb-2012 09:40 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17 Cal File: 007f0301.d
Als bottle: 69
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVa

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 30.000 | Weight of sample extracted (g) |
| M | 0.00000 | % moisture |
| Cpnd Variable | | Local Compound Variable |

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/mL) | CONCENTRATIONS FINAL (ug/Kg) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | Compound Not Detected. | | | | | |
| 2 Ethylene glycol | 2.080 | 2.060 | 0.020 | 1785 | 2.38118 | 79.37 |

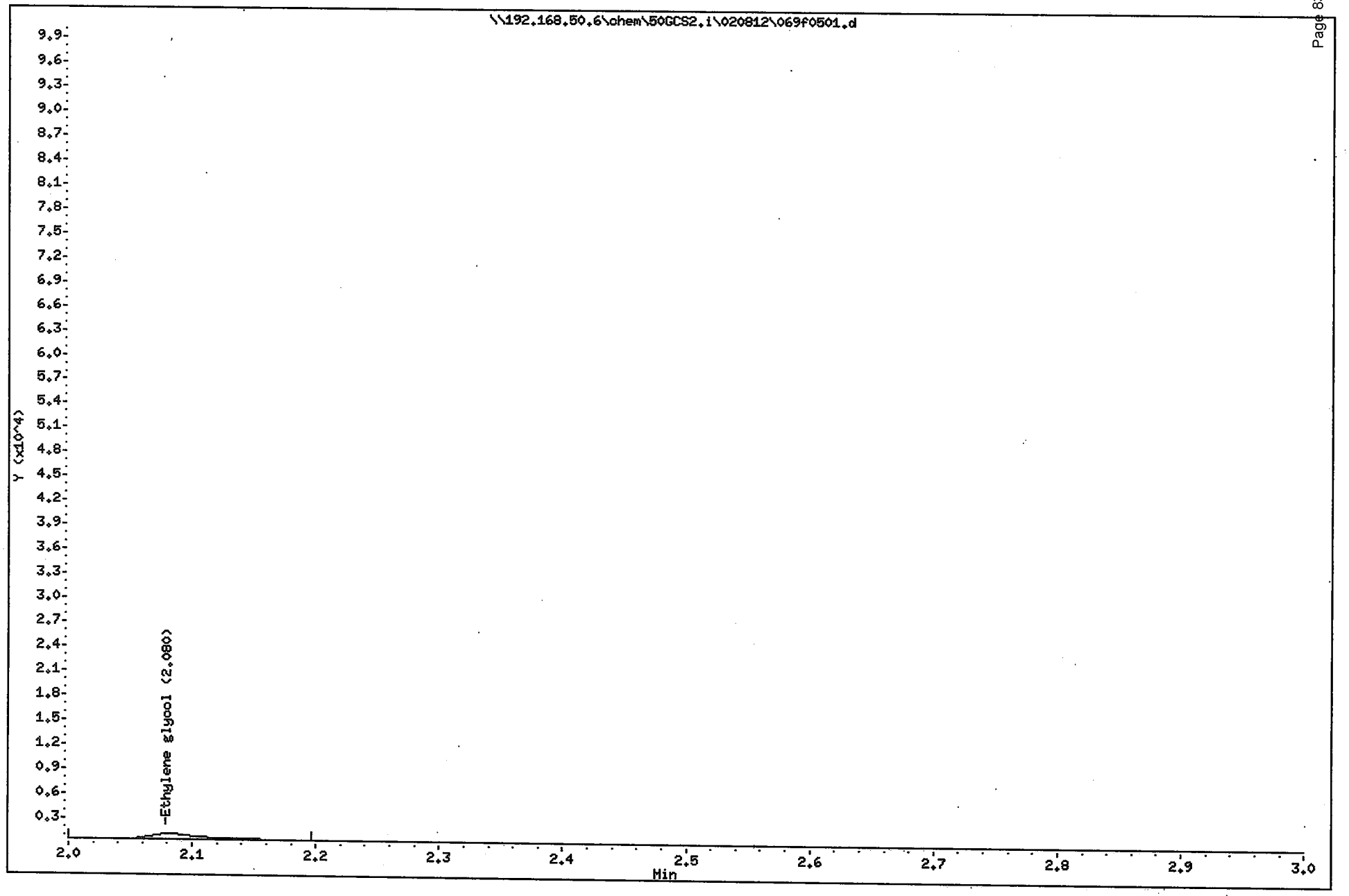
Data File: \\192.168.50.6\chem\50GCS2.i\020812\069f0501.d
Date : 08-FEB-2012 07:57
Client ID:
Sample Info: 5058185007
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: 50GCS2.i

Operator: CEM
Column diameter: 0.32







Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020812\070f0501.d
Lab Smp Id:
Inj Date : 08-FEB-2012 08:01
Operator : CEM Inst ID: 50GCS2.i
Smp Info : 5058185008
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020812\081110dsp.m
Meth Date : 08-Feb-2012 09:40 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17 Cal File: 007f0301.d
Als bottle: 70
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVa

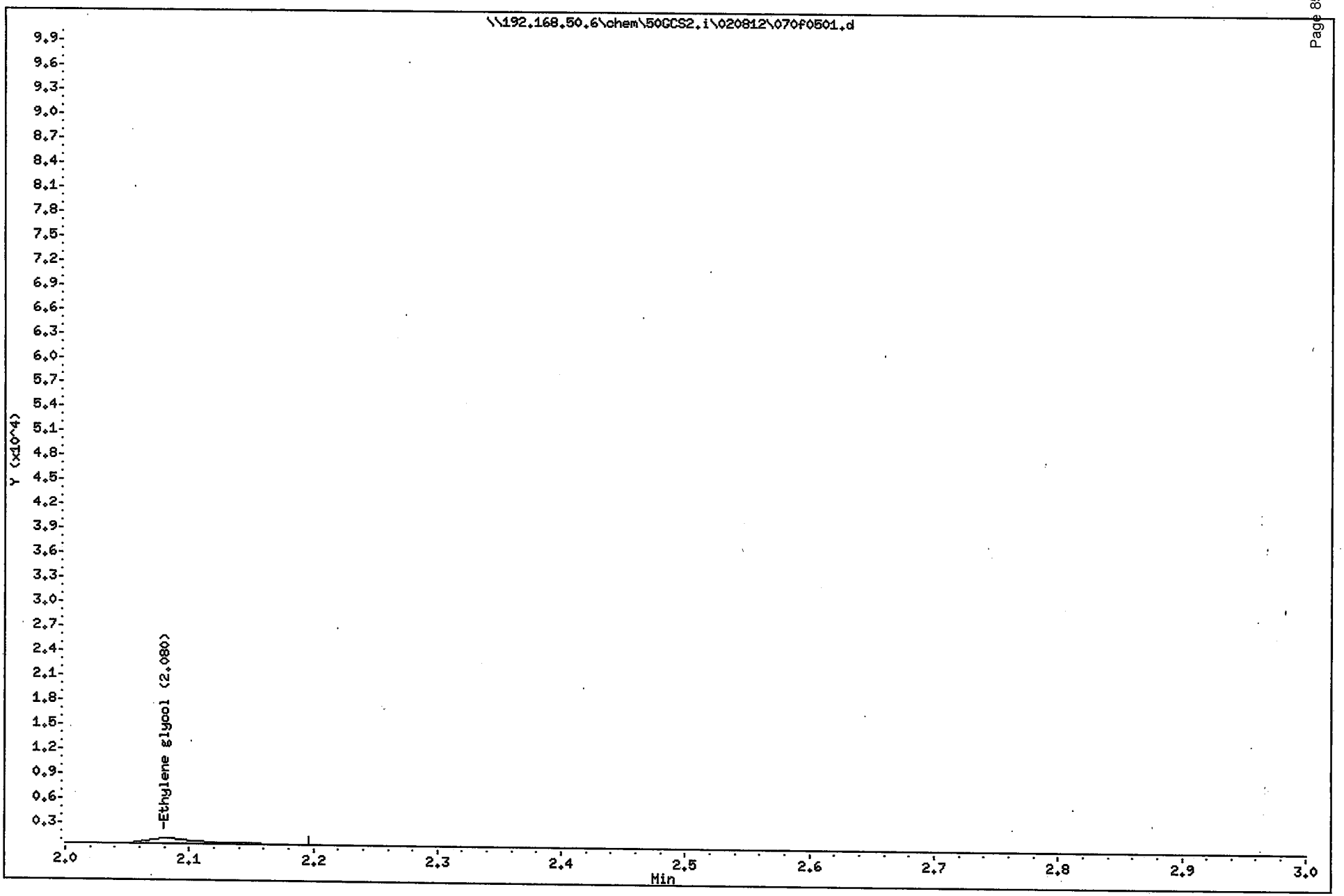
| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 30.000 | Weight of sample extracted (g) |
| M | 0.00000 | % moisture |
| Cpnd Variable | | Local Compound Variable |

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/mL) | CONCENTRATIONS FINAL (ug/Kg) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | Compound Not Detected. | | | | | |
| 2 Ethylene glycol | 2.080 | 2.060 | 0.020 | 1792 | 2.39051 | 79.68 |

Data File: \\192.168.50.6\chem\50GCS2.i\020812\070f0501.d
Date : 08-FEB-2012 08:01
Client ID:
Sample Info: 5058185008
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: 50GCS2.i

Operator: CEM
Column diameter: 0.32






DIM0271718

DIM0271634

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020812\071f0501.d
Lab Smp Id:
Inj Date : 08-FEB-2012 08:06
Operator : CEM Inst ID: 50GCS2.i
Smp Info : 5058185009
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020812\081110dsp.m
Meth Date : 08-Feb-2012 09:40 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17 Cal File: 007f0301.d
Als bottle: 71
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVa

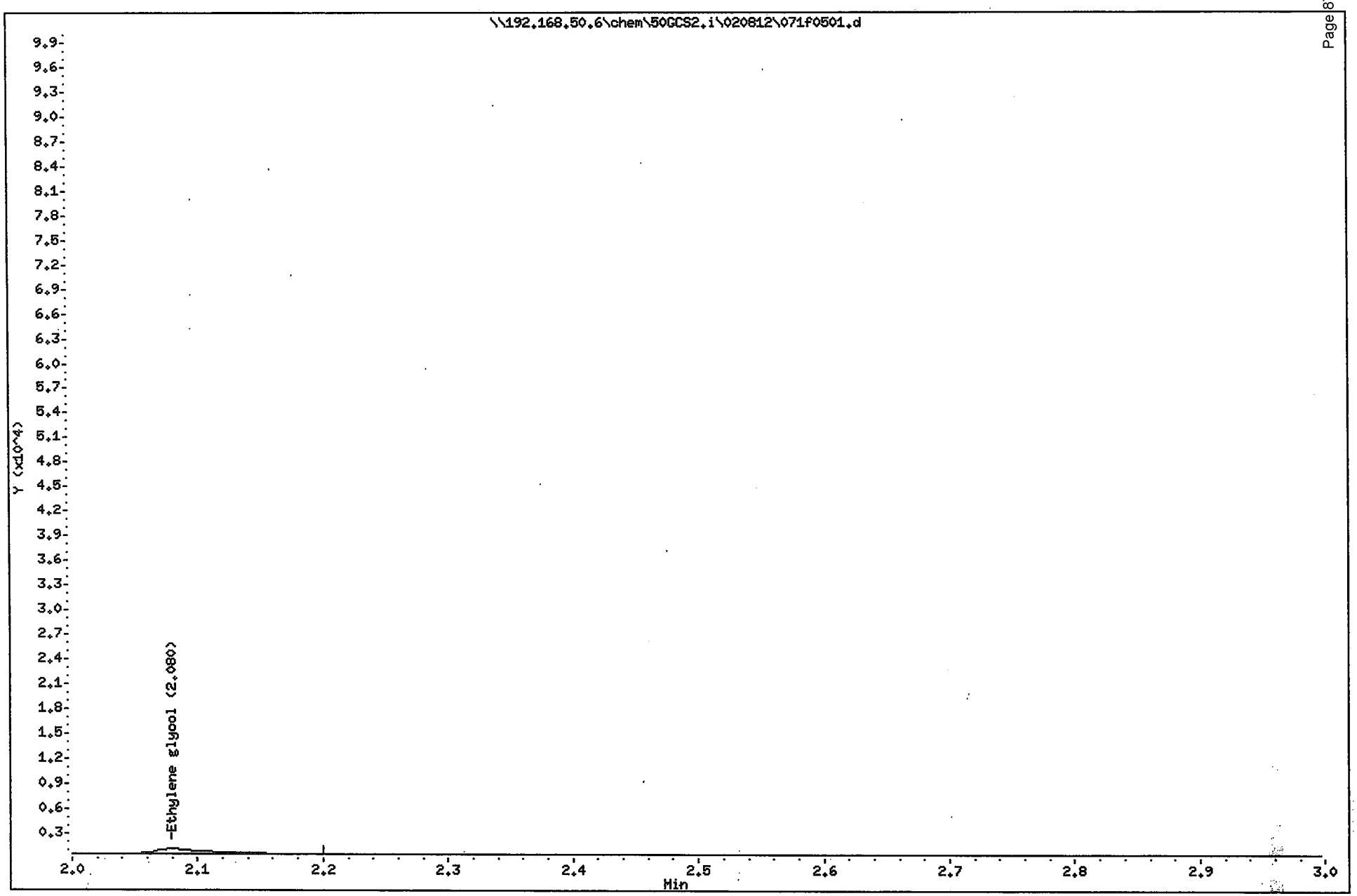
| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 30.000 | Weight of sample extracted (g) |
| M | 0.00000 | % moisture |
| Cpnd Variable | | Local Compound Variable |

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/mL) | CONCENTRATIONS FINAL (ug/Kg) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | Compound Not Detected. | | | | | |
| 2 Ethylene glycol | 2.080 | 2.060 | 0.020 | 1673 | 2.23177 | 74.39 |

Data File: \\192.168.50.6\chem\50GCS2.i\020812\071f0501.d
Date : 08-FEB-2012 08:06
Client ID:
Sample Info: 5058185009
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: 50GCS2.i
Operator: CEM
Column diameter: 0.32






DIM0271720
DIM0271634

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020812\072f0501.d
Lab Smp Id:
Inj Date : 08-FEB-2012 08:12
Operator : CEM Inst ID: 50GCS2.i
Smp Info : 5058185010
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020812\081110dsp.m
Meth Date : 08-Feb-2012 09:40 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17 Cal File: 007f0301.d
Als bottle: 72
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVa

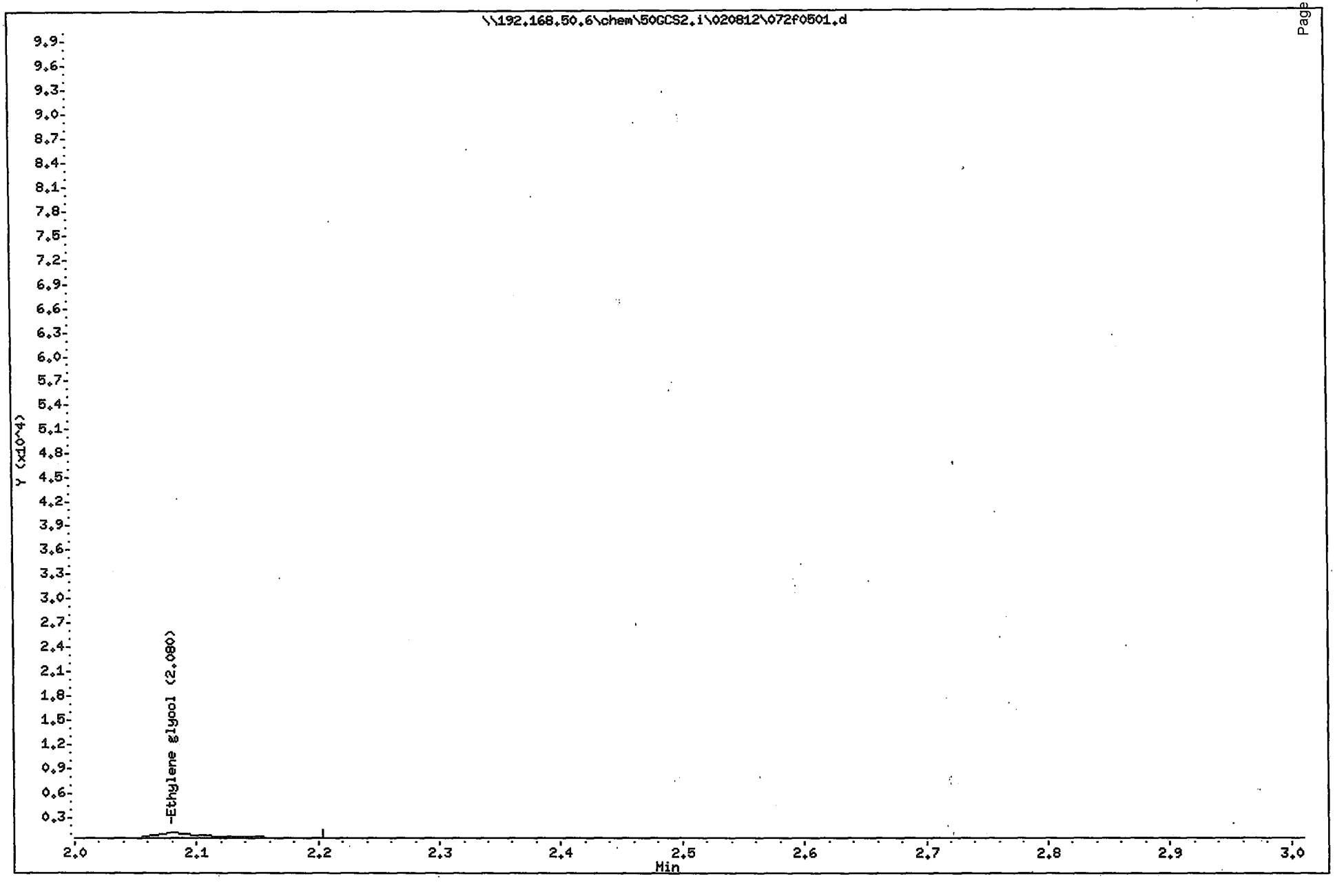
| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 30.000 | Weight of sample extracted (g) |
| M | 0.00000 | % moisture |
| Cpnd Variable | | Local Compound Variable |

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/mL) | CONCENTRATIONS FINAL (ug/Kg) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | Compound Not Detected. | | | | | |
| 2 Ethylene glycol | 2.080 | 2.060 | 0.020 | 1704 | 2.27312 | 75.77 |

Data File: \\192.168.50.6\chem\50GCS2.i\020812\072f0501.d
Date : 08-FEB-2012 08:12
Client ID:
Sample Info: 5058185010
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: 50GCS2.i
Operator: CEM
Column diameter: 0.32






DIM0271722
DIM0271634

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020812\073f0901.d
Lab Smp Id:
Inj Date : 08-FEB-2012 08:44
Operator : CEM Inst ID: 50GCS2.i
Smp Info : 5058185011
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020812\081110dsp.m
Meth Date : 08-Feb-2012 09:40 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17 Cal File: 007f0301.d
Als bottle: 73
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVa

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 30.000 | Weight of sample extracted (g) |
| M | 0.00000 | % moisture |
| Cpnd Variable | | Local Compound Variable |

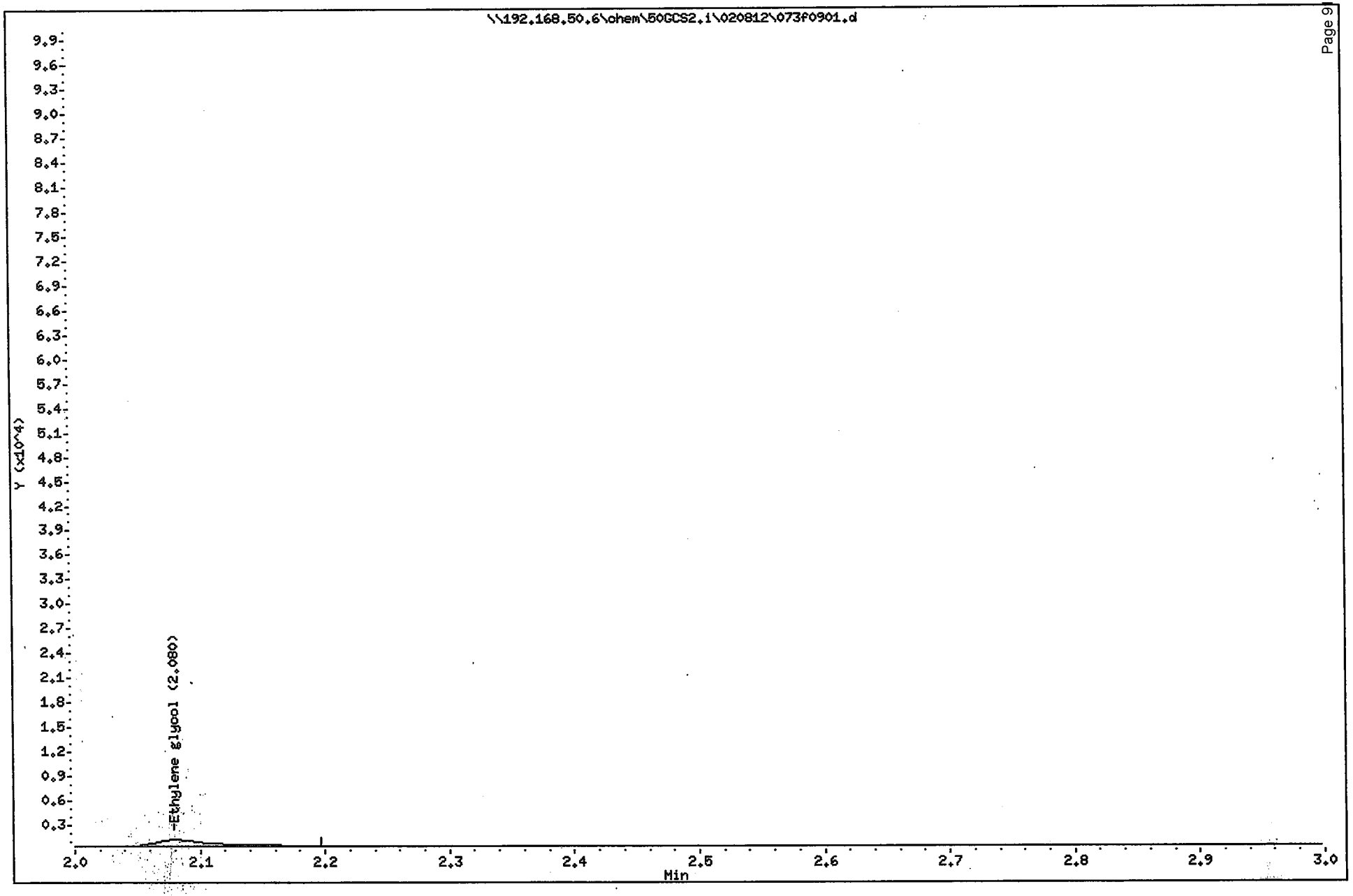
| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/mL) | CONCENTRATIONS FINAL (ug/Kg) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | Compound Not Detected. | | | | | |
| 2 Ethylene glycol | 2.080 | 2.060 | 0.020 | 2201 | 2.93612 | 97.87 |

Data File: \\192.168.50.6\chem\50GCS2.i\020812\073f0901.d
Date : 08-FEB-2012 08:44
Client ID:
Sample Info: 5058185011
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: 50GCS2.i

Operator: CEM
Column diameter: 0.32






DIM0271724
DIM0271634

Pace Analytical Services, Inc.

Alcohol Analysis by SW846 8015C FID

Data file : \\192.168.50.6\chem\50GCS2.i\020812\074f0901.d
Lab Smp Id:
Inj Date : 08-FEB-2012 08:49
Operator : CEM Inst ID: 50GCS2.i
Smp Info : 5058185012
Misc Info :
Comment : Alcohol Analysis by SW846 8015C FID
Method : \\192.168.50.6\chem\50GCS2.i\020812\081110dsp.m
Meth Date : 08-Feb-2012 09:40 cmanuputy Quant Type: ESTD
Cal Date : 06-FEB-2012 14:17 Cal File: 007f0301.d
Als bottle: 74
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-SVOA-CEM

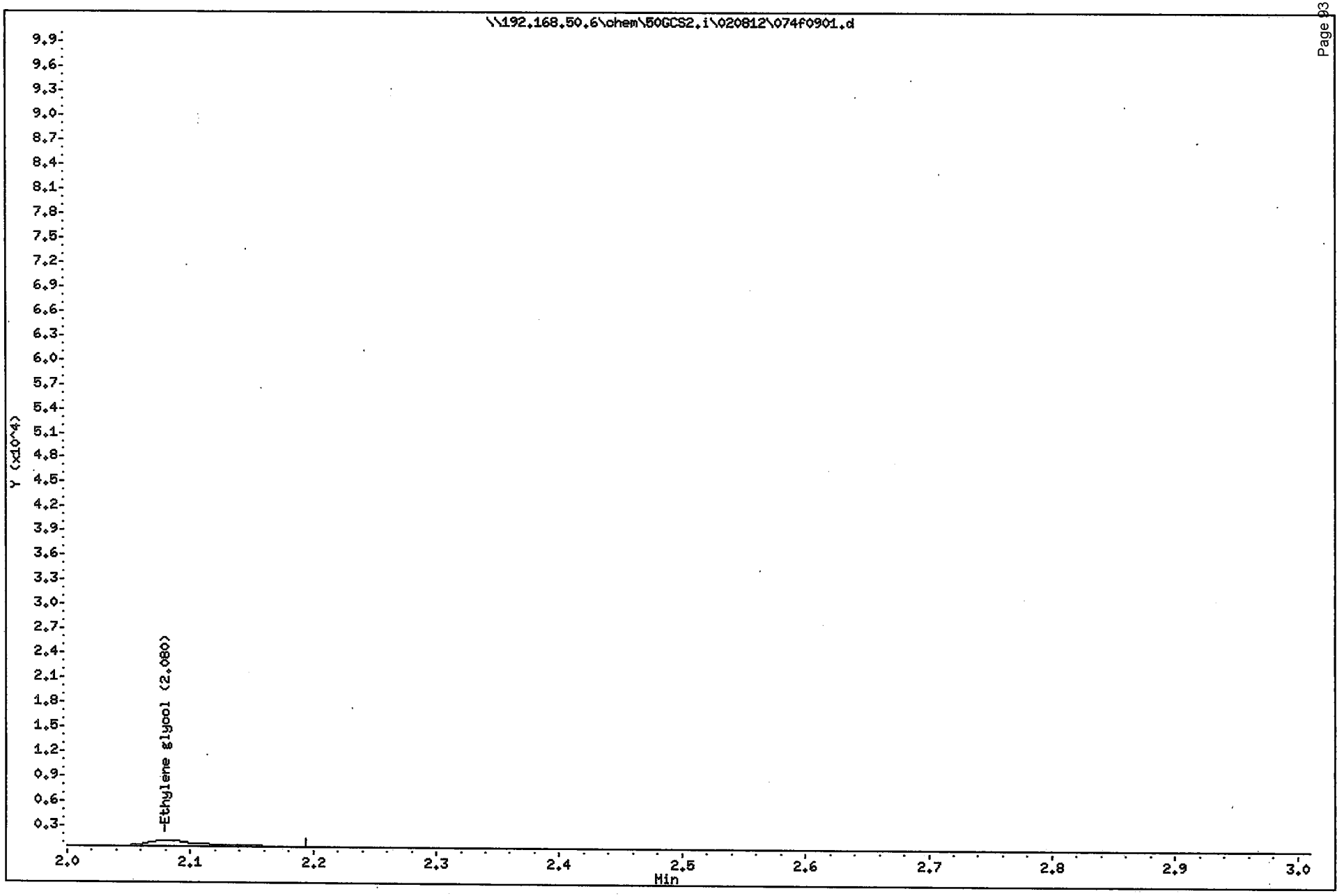
Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVa

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Uf | 1.000 | ng unit correction factor |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Ws | 30.000 | Weight of sample extracted (g) |
| M | 0.00000 | % moisture |
| Cpnd Variable | | Local Compound Variable |

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/mL) | CONCENTRATIONS FINAL (ug/Kg) |
|---|---|---|---|---|---|---|
| 1 Propylene glycol | Compound Not Detected. | | | | | |
| 2 Ethylene glycol | 2.080 | 2.060 | 0.020 | 1948 | 2.59862 | 86.62 |

Data File: \\192.168.50.6\chem\50GCS2.i\020812\074f0901.d
Date : 08-FEB-2012 08:49
Client ID:
Sample Info: 5058185012
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: 50GCS2.i
Operator: CEM
Column diameter: 0.32






DIM0271726
DIM0271634