New England ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

08/07/07

# Technical Report for

GEI Consultants, Inc.

GEI Tufts Street Somerville MA

045162

Accutest Job Number: M66578

Sampling Date: 07/25/07

Report to:

GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801-1970

ATTN: Raymond Siegener, Ph.D.

Total number of pages in report: **362**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579) NY (23346) NJ (MA926) NAVY USACE

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Test results relate only to samples analyzed.

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# Sample Summary

GEI Consultants, Inc.

**Job No:** M66578

GEI Tufts Street Somerville MA
Project No: 045162

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| M66578-1 | 07/25/07 | 16:01 | SLS | 07/26/07 | AIR | Air | 045162-19KNOW-1 |
| M66578-2 | 07/25/07 | 16:17 | SLS | 07/26/07 | AIR | Air | 045162-19KNOW-B |

# SAMPLE DELIVERY GROUP CASE NARRATIVE

| | | | |
|---|---|---|---|
| **Client:** | GEI Consultants, Inc. | **Job No** | M66578 |
| **Site:** | GEI Tufts Street Somerville MA | **Report Date** | 8/6/2007 4:29:33 PM |

2 Sample(s) were collected on 07/25/2007 and were received at Accutest on 07/26/2007. These Samples received an Accutest job number of M66578. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

## Volatiles by GCMS By Method TO-15

| | | | |
|---|---|---|---|
| **Matrix** | AIR | **Batch ID:** | MSQ221 |

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M66578-1DUP were used as the QC samples indicated.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M66578).

## Sample Results

Report of Analysis

Accutest Laboratories

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 045162-19KNOW-1 | | |
| **Lab Sample ID:** | M66578-1 | **Date Sampled:** | 07/25/07 |
| **Matrix:** | AIR - Air Summa ID: M158 | **Date Received:** | 07/26/07 |
| **Method:** | TO-15 | **Percent Solids:** | n/a |
| **Project:** | GEI Tufts Street Somerville MA | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | Q4167.D | 1 | 08/02/07 | DFT | n/a | n/a | MSQ221 |
| Run #2 | | | | | | | |

| | Initial Volume |
|---|---|
| Run #1 | 400 ml |
| Run #2 | |

| CAS No. | MW | Compound | Result | RL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 75-00-3 | 64.52 | Chloroethane | ND | 0.20 | ppbv | | ND | 0.53 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | 0.096 | 0.20 | ppbv | J | 0.60 | 1.3 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.20 | ppbv | | ND | 0.81 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.20 | ppbv | | ND | 0.79 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | 0.15 | 0.20 | ppbv | J | 0.61 | 0.81 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | ND | 0.20 | ppbv | | ND | 0.79 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | ND | 0.20 | ppbv | | ND | 0.79 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 0.20 | ppbv | | ND | 1.1 | ug/m3 |
| 79-34-5 | 167.9 | 1,1,2,2-Tetrachloroethane | ND | 0.20 | ppbv | | ND | 1.4 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.20 | ppbv | | ND | 1.1 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | 0.17 | 0.20 | ppbv | J | 1.2 | 1.4 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | ND | 0.20 | ppbv | | ND | 1.1 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | ND | 0.20 | ppbv | | ND | 0.51 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 57-139% |

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 045162-19KNOW-B | | |
| **Lab Sample ID:** | M66578-2 | **Date Sampled:** | 07/25/07 |
| **Matrix:** | AIR - Air Summa ID: M134 | **Date Received:** | 07/26/07 |
| **Method:** | TO-15 | **Percent Solids:** | n/a |
| **Project:** | GEI Tufts Street Somerville MA | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | Q4169.D | 1 | 08/02/07 | DFT | n/a | n/a | MSQ221 |
| Run #2 | | | | | | | |

| | Initial Volume |
|---|---|
| Run #1 | 400 ml |
| Run #2 | |

| CAS No. | MW | Compound | Result | RL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 75-00-3 | 64.52 | Chloroethane | ND | 0.20 | ppbv | | ND | 0.53 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | 0.094 | 0.20 | ppbv | J | 0.59 | 1.3 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.20 | ppbv | | ND | 0.81 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.20 | ppbv | | ND | 0.79 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.20 | ppbv | | ND | 0.81 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | ND | 0.20 | ppbv | | ND | 0.79 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | ND | 0.20 | ppbv | | ND | 0.79 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 0.20 | ppbv | | ND | 1.1 | ug/m3 |
| 79-34-5 | 167.9 | 1,1,2,2-Tetrachloroethane | ND | 0.20 | ppbv | | ND | 1.4 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.20 | ppbv | | ND | 1.1 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | 0.19 | 0.20 | ppbv | J | 1.3 | 1.4 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | ND | 0.20 | ppbv | | ND | 1.1 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | ND | 0.20 | ppbv | | ND | 0.51 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 106% | | 57-139% |

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Misc. Forms

## Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log
- Sample Tracking Chronicle
- Internal Chain of Custody

# CHAIN OF CUSTODY

ACCUTEST Laboratories

## Air Sampling Field Data Sheet

FED-EX Tracking #: | Bottle Order Control #: | Lab Quote #: | Lab Job #: M66578

PAGE ___ OF ___

**Client / Reporting Information**

Company Name: GEI Consultants
Address: 400 Unicorn Park Drive
City: Woburn State: MA Zip: 01801
Project Contact: Mark Ensign E-mail: mensign@geiconsultants.com
Phone #: 781-721-4000 Fax #: 781-721-4073
Sampler(s) Name(s): Samantha Slater

Project Name: Tufts Street
Street:
City: Somerville State: MA
Project #: 045162
Client Purchase Order #:

**Weather Parameters**

Temperature (Fahrenheit) Start: Maximum: Stop: Minimum:
Atmospheric Pressure (inches of Hg) Start: Maximum: Stop: Minimum:
Other weather comment:

**Requested Analysis**: Standard TO-15 Reporting List; MA DEP-APH

| Lab Sample # | Field ID / Point of Collection | Air Type: Indoor(I) Soil Vap(SV) Ambient(A) | Sampling Equipment Info: Canister Serial # | Canister Size 6L or 1L | Flow Controller Serial # | Start Sampling Information: Date | Time (24hr clock) | Canister Pressure ("Hg) | Interior Temp (F) | Sampler Init. | Stop Sampling Information: Date | Time (24hr clock) | Canister Pressure ("Hg) | Interior Temp (F) | Sampler Init. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M66578-1 | 045162-19Know-1 | I | M158 | 6L | MC103 | 7/25/07 | 1149 | 30 | 85.4 | SLS | 7/25/07 | 1601 | 4 | 85.10 | SLS |
| -2 | 045162-19Know-3 | I | M134 | 6L | MC029 | 7/25/07 | 1203 | 30 | 82.7 | SLS | 7/25/07 | 1617 | 5 | 83.3 | SLS |

**Turnaround Time / Business days**: Standard - 15 Days: X; 10 Day; 5 Day; 3 Day; 2 Day; 1 Day; Other

Approved By: ____ Date: ____

**Data Deliverable Information**: Comm A; Comm B; Full T1; Other:

**Comments / Remarks**: Please see attached list of analytes. Low AMBIENT

**Sample Custody must be documented below each time samples change possession, including courier delivery.**

| Relinquished by Laboratory: | Date Time: | Received By: | Relinquished By: | Date Time: | Received By: |
|---|---|---|---|---|---|
| 1 | | 1 | 2 GEI Lab | 7/25/07 0745 | 2 Samantha Slater |
| 3 Samantha Slater | 7/25/07 1455 | 3 GEI Lab | 4 Van Sagana GEI Lab | 7/26/07 ~~1555~~ 1535 | 4 Will Arili 7/26 2:25 |
| 5 Will Arili | 7/26 5:25P | 5 Will Arili | Custody Seal # | | |

SM013-01 (2/14/06)

M66578: Chain of Custody
Page 1 of 2

**Sub Slab Air Sampling Analyte List**

- Chloroethane
- Carbon Tetrachloride
- 1,1-Dichloroethane
- 1,1-Dichloroethylene
- 1,2-Dichloroethane
- trans-1,2-Dichloroethylene
- cis-1,2-Dichloroethylene
- 1,1,1-Trichloroethane
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- Tetrachloroethylene
- Trichloroethylene
- Vinyl Chloride

# Summa Canister and Flow Controller Log



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA
**Received:** 07/26/07



**SUMMA CANISTERS**

| Shipping | | | | | | | Receiving | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Summa ID | L | Vac " Hg | Date Out | By | SCC Batch | SCC FileID | Sample Number | Date In | By | Vac " Hg | Pres psig | Final psig | Dil Fact |
| M158 | 6 | 29.4 | 07/18/07 | DFT | CP443 | J10908.D | M66578-1 | 07/27/07 | DFT | 3.2 | | | 1 |
| M134 | 6 | 29.4 | 07/18/07 | DFT | CP446 | Q3996.D | M66578-2 | 07/27/07 | DFT | 3 | | | 1 |

**FLOW CONTROLLERS**

| Shipping | | | | | Receiving | | |
|---|---|---|---|---|---|---|---|
| Flow Crtl ID | Date Out | By | cc/ min | Time hrs. | Date In | By | cc/ min |
| MC029 | 07/02/07 | PB | 20 | 4 | 07/27/07 | DFT | 20.6 |
| MC103 | 07/02/07 | PB | 20 | 4 | 07/27/07 | DFT | 21.4 |

**Accutest Bottle Order(s):**
GEI/7-18-07/TUFTS ST
PB/7-3-07/GEI/TUFTS ST.

| Prep Date | Room Temp(F) | Bar Pres "Hg |
|---|---|---|
| 07/18/07 | 70 | 29.92 |

# Internal Sample Tracking Chronicle

GEI Consultants, Inc.

**Job No:** M66578

GEI Tufts Street Somerville MA
Project No: 045162

| Sample Number | Method | Analyzed | By | Prepped | By | Test Codes |
|---|---|---|---|---|---|---|
| M66578-1 | Collected: 25-JUL-07 16:01 | By: SLS | Received: 26-JUL-07 | By: SAP | | |
| 045162-19KNOW-1 | | | | | | |
| M66578-1 | TO-15 | 02-AUG-07 09:44 | DFT | | | VTO15STD |
| M66578-2 | Collected: 25-JUL-07 16:17 | By: SLS | Received: 26-JUL-07 | By: SAP | | |
| 045162-19KNOW-B | | | | | | |
| M66578-2 | TO-15 | 02-AUG-07 11:08 | DFT | | | VTO15STD |

# GC/MS Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Initial Calibration RT/ISTD Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

# Method Blank Summary



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| MSQ221-MB | Q4164.D | 1 | 08/01/07 | DFT | n/a | n/a | MSQ221 |



**The QC reported here applies to the following samples:** **Method:** TO-15

M66578-1, M66578-2

| CAS No. | Compound | Result | RL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|
| 75-00-3 | Chloroethane | ND | 0.20 | ppbv | | ND | 0.53 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.20 | ppbv | | ND | 1.3 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.20 | ppbv | | ND | 0.81 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.20 | ppbv | | ND | 0.79 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.20 | ppbv | | ND | 0.81 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.20 | ppbv | | ND | 0.79 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.20 | ppbv | | ND | 0.79 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.20 | ppbv | | ND | 1.1 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.20 | ppbv | | ND | 1.4 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.20 | ppbv | | ND | 1.1 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.20 | ppbv | | ND | 1.4 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.20 | ppbv | | ND | 1.1 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.20 | ppbv | | ND | 0.51 | ug/m3 |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 86% | 57-139% |

# Method Blank Summary



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| MSJ562-MB | J10870.D | 1 | 07/05/07 | DFT | n/a | n/a | MSJ562 |



**The QC reported here applies to the following samples:** **Method:** TO-15

MSJ562-SCC

| CAS No. | Compound | Result | RL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|
| 75-00-3 | Chloroethane | ND | 0.20 | ppbv | | ND | 0.53 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.20 | ppbv | | ND | 1.3 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.20 | ppbv | | ND | 0.81 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.20 | ppbv | | ND | 0.79 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.20 | ppbv | | ND | 0.81 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.20 | ppbv | | ND | 0.79 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.20 | ppbv | | ND | 0.79 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.20 | ppbv | | ND | 1.1 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.20 | ppbv | | ND | 1.4 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.20 | ppbv | | ND | 1.1 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.20 | ppbv | | ND | 1.4 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.20 | ppbv | | ND | 1.1 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.20 | ppbv | | ND | 0.51 | ug/m3 |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 90% | 57-139% |

# Method Blank Summary



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| MSQ214-MB | Q3986.D | 1 | 07/17/07 | DFT | n/a | n/a | MSQ214 |



**The QC reported here applies to the following samples:** **Method:** TO-15

MSQ214-SCC

| CAS No. | Compound | Result | RL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|
| 75-00-3 | Chloroethane | ND | 0.20 | ppbv | | ND | 0.53 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.20 | ppbv | | ND | 1.3 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.20 | ppbv | | ND | 0.81 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.20 | ppbv | | ND | 0.79 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.20 | ppbv | | ND | 0.81 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.20 | ppbv | | ND | 0.79 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.20 | ppbv | | ND | 0.79 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.20 | ppbv | | ND | 1.1 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.20 | ppbv | | ND | 1.4 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.20 | ppbv | | ND | 1.1 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.20 | ppbv | | ND | 1.4 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.20 | ppbv | | ND | 1.1 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.20 | ppbv | | ND | 0.51 | ug/m3 |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 91% | 57-139% |

# Blank Spike Summary



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| MSQ221-BS | Q4163A.D | 1 | 08/01/07 | DFT | n/a | n/a | MSQ221 |



**The QC reported here applies to the following samples:** **Method:** TO-15

M66578-1, M66578-2

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | Limits |
|---|---|---|---|---|---|
| 75-00-3 | Chloroethane | 10 | 11.3 | 113 | 70-130 |
| 56-23-5 | Carbon tetrachloride | 10 | 10.7 | 107 | 70-130 |
| 75-34-3 | 1,1-Dichloroethane | 10 | 9.9 | 99 | 70-130 |
| 75-35-4 | 1,1-Dichloroethylene | 10 | 9.5 | 95 | 70-130 |
| 107-06-2 | 1,2-Dichloroethane | 10 | 9.8 | 98 | 70-130 |
| 156-60-5 | trans-1,2-Dichloroethylene | 10 | 9.8 | 98 | 70-130 |
| 156-59-2 | cis-1,2-Dichloroethylene | 10 | 9.6 | 96 | 70-130 |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | 10.4 | 104 | 70-130 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | 11.8 | 118 | 70-130 |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | 11.0 | 110 | 70-130 |
| 127-18-4 | Tetrachloroethylene | 10 | 9.8 | 98 | 70-130 |
| 79-01-6 | Trichloroethylene | 10 | 11.6 | 116 | 70-130 |
| 75-01-4 | Vinyl chloride | 10 | 10.4 | 104 | 70-130 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 112% | 57-139% |

# Blank Spike Summary



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| MSJ562-BS | J10868B.D | 1 | 07/05/07 | DFT | n/a | n/a | MSJ562 |



**The QC reported here applies to the following samples:** **Method:** TO-15

MSJ562-SCC

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | Limits |
|---|---|---|---|---|---|
| 75-00-3 | Chloroethane | 10 | 10.6 | 106 | 70-130 |
| 56-23-5 | Carbon tetrachloride | 10 | 10.3 | 103 | 70-130 |
| 75-34-3 | 1,1-Dichloroethane | 10 | 10.3 | 103 | 70-130 |
| 75-35-4 | 1,1-Dichloroethylene | 10 | 10.2 | 102 | 70-130 |
| 107-06-2 | 1,2-Dichloroethane | 10 | 11.1 | 111 | 70-130 |
| 156-60-5 | trans-1,2-Dichloroethylene | 10 | 10.5 | 105 | 70-130 |
| 156-59-2 | cis-1,2-Dichloroethylene | 10 | 10.4 | 104 | 70-130 |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | 10.3 | 103 | 70-130 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | 11.6 | 116 | 70-130 |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | 11.8 | 118 | 70-130 |
| 127-18-4 | Tetrachloroethylene | 10 | 11.5 | 115 | 70-130 |
| 79-01-6 | Trichloroethylene | 10 | 11.3 | 113 | 70-130 |
| 75-01-4 | Vinyl chloride | 10 | 10.5 | 105 | 70-130 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 109% | 57-139% |

# Blank Spike Summary



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| MSQ214-BS | Q3984B.D | 1 | 07/17/07 | DFT | n/a | n/a | MSQ214 |



**The QC reported here applies to the following samples:** **Method:** TO-15

MSQ214-SCC

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | Limits |
|---|---|---|---|---|---|
| 75-00-3 | Chloroethane | 10 | 11.4 | 114 | 70-130 |
| 56-23-5 | Carbon tetrachloride | 10 | 11.2 | 112 | 70-130 |
| 75-34-3 | 1,1-Dichloroethane | 10 | 10.7 | 107 | 70-130 |
| 75-35-4 | 1,1-Dichloroethylene | 10 | 10.5 | 105 | 70-130 |
| 107-06-2 | 1,2-Dichloroethane | 10 | 10.2 | 102 | 70-130 |
| 156-60-5 | trans-1,2-Dichloroethylene | 10 | 10.7 | 107 | 70-130 |
| 156-59-2 | cis-1,2-Dichloroethylene | 10 | 10.2 | 102 | 70-130 |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | 10.6 | 106 | 70-130 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | 9.7 | 97 | 70-130 |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | 9.2 | 92 | 70-130 |
| 127-18-4 | Tetrachloroethylene | 10 | 9.9 | 99 | 70-130 |
| 79-01-6 | Trichloroethylene | 10 | 10.1 | 101 | 70-130 |
| 75-01-4 | Vinyl chloride | 10 | 10.6 | 106 | 70-130 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 108% | 57-139% |

# Duplicate Summary



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| M66578-1DUP | Q4168.D | 1 | 08/02/07 | DFT | n/a | n/a | MSQ221 |
| M66578-1 | Q4167.D | 1 | 08/02/07 | DFT | n/a | n/a | MSQ221 |



**The QC reported here applies to the following samples:** **Method:** TO-15

M66578-1, M66578-2

| CAS No. | Compound | M66578-1 ppbv | Q | DUP ppbv | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 75-00-3 | Chloroethane | ND | | ND | | nc | 25 |
| 56-23-5 | Carbon tetrachloride | 0.096 | J | 0.10 | J | 4 | 25 |
| 75-34-3 | 1,1-Dichloroethane | ND | | ND | | nc | 25 |
| 75-35-4 | 1,1-Dichloroethylene | ND | | ND | | nc | 25 |
| 107-06-2 | 1,2-Dichloroethane | 0.15 | J | 0.15 | J | 0 | 25 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | | ND | | nc | 25 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | | ND | | nc | 25 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | ND | | nc | 25 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | ND | | nc | 25 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | ND | | nc | 25 |
| 127-18-4 | Tetrachloroethylene | 0.17 | J | 0.17 | J | 0 | 25 |
| 79-01-6 | Trichloroethylene | ND | | ND | | nc | 25 |
| 75-01-4 | Vinyl chloride | ND | | ND | | nc | 25 |

| CAS No. | Surrogate Recoveries | DUP | M66578-1 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 101% | 101% | 57-139% |

# Summa Cleaning Certification



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| MSJ562-SCC | J10885.D | 1 | 07/06/07 | DFT | n/a | n/a | MSJ562 |



**The QC reported here (Summa M158) applies to the following samples:** **Method:** TO-15

Batch CP443 cleaned 07/03/07: M66578-1(M158)

| CAS No. | Compound | Result | RL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|
| 75-00-3 | Chloroethane | ND | 0.20 | ppbv | | ND | 0.53 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.20 | ppbv | | ND | 1.3 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.20 | ppbv | | ND | 0.81 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.20 | ppbv | | ND | 0.79 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.20 | ppbv | | ND | 0.81 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.20 | ppbv | | ND | 0.79 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.20 | ppbv | | ND | 0.79 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.20 | ppbv | | ND | 1.1 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.20 | ppbv | | ND | 1.4 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.20 | ppbv | | ND | 1.1 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.20 | ppbv | | ND | 1.4 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.20 | ppbv | | ND | 1.1 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.20 | ppbv | | ND | 0.51 | ug/m3 |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 88% | 57-139% |

# Summa Cleaning Certification



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| MSQ214-SCC | Q3994.D | 1 | 07/17/07 | DFT | n/a | n/a | MSQ214 |



**The QC reported here (Summa M134) applies to the following samples:** **Method:** TO-15

Batch CP446 cleaned 07/10/07: M66578-2(M134)

| CAS No. | Compound | Result | RL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|
| 75-00-3 | Chloroethane | ND | 0.20 | ppbv | | ND | 0.53 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.20 | ppbv | | ND | 1.3 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.20 | ppbv | | ND | 0.81 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.20 | ppbv | | ND | 0.79 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.20 | ppbv | | ND | 0.81 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.20 | ppbv | | ND | 0.79 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.20 | ppbv | | ND | 0.79 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.20 | ppbv | | ND | 1.1 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.20 | ppbv | | ND | 1.4 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.20 | ppbv | | ND | 1.1 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.20 | ppbv | | ND | 1.4 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.20 | ppbv | | ND | 1.1 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.20 | ppbv | | ND | 0.51 | ug/m3 |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 101% | 57-139% |

# Instrument Performance Check (BFB)



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSJ562-BFB
**Lab File ID:** J10860.D
**Instrument ID:** GCMSJ
**Injection Date:** 07/05/07
**Injection Time:** 10:47

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 19975 | 21.6 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 48614 | 52.6 | | Pass |
| 95 | Base peak, 100% relative abundance | 92470 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 6965 | 7.5 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.0 | (0.0) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 88639 | 95.9 | | Pass |
| 175 | 4.0 - 9.0% of mass 174 | 4877 | 5.3 | (5.5) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 84398 | 91.3 | (95.2) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 5762 | 6.2 | (6.8) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| MSJ562-IC562 | J10860.D | 07/05/07 | 10:47 | 00:00 | Initial cal 0.5 |
| MSJ562-IC562 | J10861.D | 07/05/07 | 11:40 | 00:53 | Initial cal 0.2 |
| MSJ562-IC562 | J10863.D | 07/05/07 | 13:26 | 02:39 | Initial cal 40 |
| MSJ562-IC562 | J10864.D | 07/05/07 | 14:22 | 03:35 | Initial cal 20 |
| MSJ562-ICC562 | J10865.D | 07/05/07 | 15:15 | 04:28 | Initial cal 10 |
| MSJ562-IC562 | J10866.D | 07/05/07 | 16:08 | 05:21 | Initial cal 5 |
| MSJ562-IC562 | J10867.D | 07/05/07 | 16:59 | 06:12 | Initial cal 2 |
| MSJ562-ICV562 | J10868.D | 07/05/07 | 17:56 | 07:09 | Initial cal verification 10 |

# Instrument Performance Check (BFB)



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSJ562-BFB
**Lab File ID:** J10868A.D
**Instrument ID:** GCMSJ
**Injection Date:** 07/05/07
**Injection Time:** 17:56

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 47380 | 20.7 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 114612 | 50.0 | | Pass |
| 95 | Base peak, 100% relative abundance | 229440 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 17680 | 7.7 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.0 | (0.0) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 218688 | 95.3 | | Pass |
| 175 | 4.0 - 9.0% of mass 174 | 10052 | 4.4 | (4.6) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 212064 | 92.4 | (97.0) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 14698 | 6.4 | (6.9) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| MSJ562-CC562 | J10868A.D | 07/05/07 | 17:56 | 00:00 | Continuing cal 10 |
| MSJ562-BS | J10868B.D | 07/05/07 | 17:56 | 00:00 | Blank Spike |
| MSJ562-SCC | J10870A.D | 07/05/07 | 19:53 | 01:57 | Summa Cleaning Certification |
| MSJ562-MB | J10870.D | 07/05/07 | 19:53 | 01:57 | Method Blank |
| MSJ562-SCC | J10871.D | 07/05/07 | 20:51 | 02:55 | Summa Cleaning Certification |
| MSJ562-SCC | J10872.D | 07/05/07 | 21:47 | 03:51 | Summa Cleaning Certification |
| MSJ562-SCC | J10873.D | 07/05/07 | 22:39 | 04:43 | Summa Cleaning Certification |
| MSJ562-SCC | J10874.D | 07/05/07 | 23:32 | 05:36 | Summa Cleaning Certification |
| MSJ562-SCC | J10875.D | 07/06/07 | 00:25 | 06:29 | Summa Cleaning Certification |
| MSJ562-SCC | J10876.D | 07/06/07 | 01:18 | 07:22 | Summa Cleaning Certification |
| MSJ562-SCC | J10877.D | 07/06/07 | 02:10 | 08:14 | Summa Cleaning Certification |
| MSJ562-SCC | J10878.D | 07/06/07 | 03:02 | 09:06 | Summa Cleaning Certification |
| MSJ562-SCC | J10879.D | 07/06/07 | 03:54 | 09:58 | Summa Cleaning Certification |
| MSJ562-SCC | J10880.D | 07/06/07 | 04:44 | 10:48 | Summa Cleaning Certification |
| MSJ562-SCC | J10881.D | 07/06/07 | 05:36 | 11:40 | Summa Cleaning Certification |
| MSJ562-SCC | J10882.D | 07/06/07 | 06:28 | 12:32 | Summa Cleaning Certification |
| MSJ562-SCC | J10883.D | 07/06/07 | 07:20 | 13:24 | Summa Cleaning Certification |
| MSJ562-SCC | J10885.D | 07/06/07 | 09:47 | 15:51 | Summa Cleaning Certification |
| MSJ562-SCC | J10886.D | 07/06/07 | 10:37 | 16:41 | Summa Cleaning Certification |
| MSJ562-SCC | J10887.D | 07/06/07 | 11:29 | 17:33 | Summa Cleaning Certification |
| M65994-1 | J10888.D | 07/06/07 | 12:22 | 18:26 | (used for QC only; not part of job M66578) |
| M65994-1 | J10890.D | 07/06/07 | 14:05 | 20:09 | (used for QC only; not part of job M66578) |
| ZZZZZZ | J10891.D | 07/06/07 | 14:57 | 21:01 | (unrelated sample) |
| M65994-1DUP | J10892.D | 07/06/07 | 15:47 | 21:51 | Duplicate |

# Instrument Performance Check (BFB)



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSQ214-BFB
**Lab File ID:** Q3977.D
**Instrument ID:** GCMSQ
**Injection Date:** 07/16/07
**Injection Time:** 16:53

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 37567 | 20.4 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 91035 | 49.5 | | Pass |
| 95 | Base peak, 100% relative abundance | 183833 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 11307 | 6.2 | | Pass |
| 173 | Less than 2.0% of mass 174 | 121 | 0.07 | (0.07) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 182726 | 99.4 | | Pass |
| 175 | 4.0 - 9.0% of mass 174 | 12997 | 7.1 | (7.1) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 176070 | 95.8 | (96.4) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 10865 | 5.9 | (6.2) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| MSQ214-IC214 | Q3977.D | 07/16/07 | 16:53 | 00:00 | Initial cal 40 |
| MSQ214-IC214 | Q3978.D | 07/16/07 | 17:36 | 00:43 | Initial cal 20 |
| MSQ214-ICC214 | Q3979.D | 07/16/07 | 18:18 | 01:25 | Initial cal 10 |
| MSQ214-IC214 | Q3980.D | 07/16/07 | 19:01 | 02:08 | Initial cal 5 |
| MSQ214-IC214 | Q3981.D | 07/16/07 | 19:44 | 02:51 | Initial cal 2 |
| MSQ214-IC214 | Q3982.D | 07/16/07 | 20:26 | 03:33 | Initial cal 0.5 |
| MSQ214-IC214 | Q3983.D | 07/16/07 | 21:09 | 04:16 | Initial cal 0.2 |

# Instrument Performance Check (BFB)



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSQ214-BFB
**Lab File ID:** Q3984.D
**Instrument ID:** GCMSQ
**Injection Date:** 07/17/07
**Injection Time:** 08:45



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 40213 | 21.2 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 102322 | 54.0 | | Pass |
| 95 | Base peak, 100% relative abundance | 189568 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 12344 | 6.5 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.0 | (0.0) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 184490 | 97.3 | | Pass |
| 175 | 4.0 - 9.0% of mass 174 | 13823 | 7.3 | (7.5) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 175296 | 92.5 | (95.0) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 11417 | 6.0 | (6.5) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| MSQ214-ICV214 | Q3984.D | 07/17/07 | 08:45 | 00:00 | Initial cal verification 10 |
| MSQ214-CC214 | Q3984A.D | 07/17/07 | 08:45 | 00:00 | Continuing cal 10 |
| MSQ214-BS | Q3984B.D | 07/17/07 | 08:45 | 00:00 | Blank Spike |
| MSQ214-MB | Q3986.D | 07/17/07 | 10:09 | 01:24 | Method Blank |
| MSQ214-SCC | Q3986A.D | 07/17/07 | 10:09 | 01:24 | Summa Cleaning Certification |
| MSQ214-SCC | Q3990.D | 07/17/07 | 13:01 | 04:16 | Summa Cleaning Certification |
| MSQ214-SCC | Q3991.D | 07/17/07 | 13:44 | 04:59 | Summa Cleaning Certification |
| MSQ214-SCC | Q3992.D | 07/17/07 | 14:27 | 05:42 | Summa Cleaning Certification |
| MSQ214-SCC | Q3993.D | 07/17/07 | 15:11 | 06:26 | Summa Cleaning Certification |
| MSQ214-SCC | Q3994.D | 07/17/07 | 15:54 | 07:09 | Summa Cleaning Certification |
| MSQ214-SCC | Q3995.D | 07/17/07 | 16:39 | 07:54 | Summa Cleaning Certification |
| MSQ214-SCC | Q3996.D | 07/17/07 | 17:22 | 08:37 | Summa Cleaning Certification |
| M66000-1R | Q3997.D | 07/17/07 | 18:04 | 09:19 | (used for QC only; not part of job M66578) |
| M66000-1RDUP | Q3998.D | 07/17/07 | 18:48 | 10:03 | Duplicate |
| ZZZZZZ | Q3999.D | 07/17/07 | 19:31 | 10:46 | (unrelated sample) |
| ZZZZZZ | Q4001.D | 07/17/07 | 20:58 | 12:13 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSQ220-BFB
**Lab File ID:** Q4139.D
**Instrument ID:** GCMSQ
**Injection Date:** 07/27/07
**Injection Time:** 12:17

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 72640 | 23.6 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 173952 | 56.5 | | Pass |
| 95 | Base peak, 100% relative abundance | 308096 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 21032 | 6.8 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.0 | (0.0) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 255424 | 82.9 | | Pass |
| 175 | 4.0 - 9.0% of mass 174 | 21024 | 6.8 | (8.2) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 249280 | 80.9 | (97.6) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 14200 | 4.6 | (5.7) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| MSQ220-IC220 | Q4139.D | 07/27/07 | 12:17 | 00:00 | Initial cal 40 |
| MSQ220-IC220 | Q4140.D | 07/27/07 | 13:01 | 00:44 | Initial cal 20 |
| MSQ220-ICC220 | Q4141.D | 07/27/07 | 13:46 | 01:29 | Initial cal 10 |
| MSQ220-IC220 | Q4142.D | 07/27/07 | 14:32 | 02:15 | Initial cal 5 |
| MSQ220-IC220 | Q4143.D | 07/27/07 | 15:20 | 03:03 | Initial cal 2 |
| MSQ220-IC220 | Q4144.D | 07/27/07 | 16:07 | 03:50 | Initial cal 0.5 |
| MSQ220-IC220 | Q4145.D | 07/27/07 | 16:55 | 04:38 | Initial cal 0.2 |

# Instrument Performance Check (BFB)



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSQ221-BFB
**Lab File ID:** Q4163.D
**Instrument ID:** GCMSQ
**Injection Date:** 08/01/07
**Injection Time:** 11:54

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 78900 | 24.1 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 178080 | 54.4 | | Pass |
| 95 | Base peak, 100% relative abundance | 327456 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 20628 | 6.3 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.0 | (0.0) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 260256 | 79.5 | | Pass |
| 175 | 4.0 - 9.0% of mass 174 | 20248 | 6.2 | (7.8) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 249696 | 76.3 | (95.9) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 17228 | 5.3 | (6.9) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| MSQ221-CC220 | Q4163.D | 08/01/07 | 11:54 | 00:00 | Continuing cal 10 |
| MSQ221-BS | Q4163A.D | 08/01/07 | 11:54 | 00:00 | Blank Spike |
| MSQ221-MB | Q4164.D | 08/01/07 | 12:47 | 00:53 | Method Blank |
| ZZZZZZ | Q4165.D | 08/01/07 | 14:05 | 02:11 | (unrelated sample) |
| ZZZZZZ | Q4166.D | 08/02/07 | 09:02 | 21:08 | (unrelated sample) |
| M66578-1 | Q4167.D | 08/02/07 | 09:44 | 21:50 | 045162-19KNOW-1 |
| M66578-1DUP | Q4168.D | 08/02/07 | 10:26 | 22:32 | Duplicate |
| M66578-2 | Q4169.D | 08/02/07 | 11:08 | 23:14 | 045162-19KNOW-B |
| ZZZZZZ | Q4170.D | 08/02/07 | 11:50 | 23:56 | (unrelated sample) |

# Volatile Internal Standard Area Summary



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| | | | |
|---|---|---|---|
| **Check Std:** | MSJ562-CC562 | **Injection Date:** | 07/05/07 |
| **Lab File ID:** | J10868A.D | **Injection Time:** | 17:56 |
| **Instrument ID:** | GCMSJ | **Method:** | TO-15 |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| Check Std | 347038 | 8.60 | 1501760 | 10.43 | 1335133 | 14.67 |
| Upper Limit [a] | 485853 | 8.93 | 2102464 | 10.76 | 1869186 | 15.00 |
| Lower Limit [b] | 208223 | 8.27 | 901056 | 10.10 | 801080 | 14.34 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| MSJ562-BS | 347038 | 8.60 | 1501760 | 10.43 | 1335133 | 14.67 |
| MSJ562-SCC | 294344 | 8.61 | 1133134 | 10.42 | 969402 | 14.66 |
| MSJ562-MB | 294344 | 8.61 | 1133134 | 10.42 | 969402 | 14.66 |
| MSJ562-SCC | 294169 | 8.59 | 1114530 | 10.42 | 964213 | 14.66 |
| MSJ562-SCC | 329350 | 8.61 | 1354559 | 10.42 | 1181161 | 14.66 |
| MSJ562-SCC | 323703 | 8.60 | 1285820 | 10.42 | 1150732 | 14.66 |
| MSJ562-SCC | 280578 | 8.62 | 1016162 | 10.43 | 911895 | 14.67 |
| MSJ562-SCC | 327828 | 8.61 | 1276874 | 10.42 | 1150146 | 14.66 |
| MSJ562-SCC | 322604 | 8.62 | 1280014 | 10.43 | 1148696 | 14.66 |
| MSJ562-SCC | 322133 | 8.61 | 1258108 | 10.43 | 1127027 | 14.66 |
| MSJ562-SCC | 324117 | 8.60 | 1259480 | 10.42 | 1131688 | 14.66 |
| MSJ562-SCC | 295333 | 8.62 | 1105346 | 10.43 | 958091 | 14.66 |
| MSJ562-SCC | 326597 | 8.61 | 1277512 | 10.43 | 1140663 | 14.66 |
| MSJ562-SCC | 321143 | 8.61 | 1250061 | 10.43 | 1099502 | 14.66 |
| MSJ562-SCC | 326078 | 8.62 | 1269000 | 10.43 | 1117672 | 14.67 |
| MSJ562-SCC | 315751 | 8.60 | 1203042 | 10.42 | 1088013 | 14.66 |
| MSJ562-SCC | 329318 | 8.62 | 1279216 | 10.44 | 1161712 | 14.67 |
| MSJ562-SCC | 331649 | 8.62 | 1287275 | 10.43 | 1186205 | 14.67 |
| MSJ562-SCC | 334082 | 8.62 | 1294221 | 10.43 | 1156038 | 14.66 |
| M65994-1 | 343201 | 8.62 | 1377355 | 10.44 | 1230677 | 14.67 |
| M65994-1 | 346884 | 8.62 | 1444823 | 10.43 | 1339609 | 14.67 |
| ZZZZZZ | 322389 | 8.62 | 1282083 | 10.43 | 1124486 | 14.67 |
| M65994-1DUP | 313094 | 8.62 | 1185553 | 10.44 | 1101242 | 14.67 |

**IS 1** = Bromochloromethane
**IS 2** = 1,4-Difluorobenzene
**IS 3** = Chlorobenzene-D5

(a) Upper Limit = +40% of check standard area; Retention time +0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

# Volatile Internal Standard Area Summary



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| | | | |
|---|---|---|---|
| **Check Std:** | MSQ214-CC214 | **Injection Date:** | 07/17/07 |
| **Lab File ID:** | Q3984A.D | **Injection Time:** | 08:45 |
| **Instrument ID:** | GCMSQ | **Method:** | TO-15 |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| Check Std | 198360 | 8.63 | 902151 | 10.46 | 781705 | 14.71 |
| Upper Limit [a] | 277704 | 8.96 | 1263011 | 10.79 | 1094387 | 15.04 |
| Lower Limit [b] | 119016 | 8.30 | 541291 | 10.13 | 469023 | 14.38 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| MSQ214-BS | 198360 | 8.63 | 902151 | 10.46 | 781705 | 14.71 |
| MSQ214-MB | 220566 | 8.63 | 986337 | 10.46 | 863843 | 14.70 |
| MSQ214-SCC | 220566 | 8.63 | 986337 | 10.46 | 863843 | 14.70 |
| MSQ214-SCC | 236761 | 8.63 | 1093738 | 10.46 | 913225 | 14.71 |
| MSQ214-SCC | 230475 | 8.63 | 1086133 | 10.46 | 911320 | 14.71 |
| MSQ214-SCC | 226928 | 8.63 | 1028230 | 10.46 | 881765 | 14.70 |
| MSQ214-SCC | 215083 | 8.63 | 998215 | 10.46 | 842492 | 14.70 |
| MSQ214-SCC | 214066 | 8.63 | 1008316 | 10.46 | 850961 | 14.70 |
| MSQ214-SCC | 205762 | 8.69 | 989502 | 10.50 | 833718 | 14.72 |
| MSQ214-SCC | 208441 | 8.63 | 990841 | 10.46 | 837512 | 14.70 |
| M66000-1R | 210606 | 8.63 | 989081 | 10.46 | 866919 | 14.71 |
| M66000-1RDUP | 225936 | 8.63 | 1060985 | 10.46 | 899670 | 14.70 |
| ZZZZZZ | 215281 | 8.56 | 990346 | 10.44 | 816031 | 14.71 |
| ZZZZZZ | 182276 | 8.67 | 862965 | 10.48 | 730052 | 14.71 |

**IS 1** = Bromochloromethane
**IS 2** = 1,4-Difluorobenzene
**IS 3** = Chlorobenzene-D5

(a) Upper Limit = +40% of check standard area; Retention time +0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

# Volatile Internal Standard Area Summary



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| | | | |
|---|---|---|---|
| **Check Std:** | MSQ221-CC220 | **Injection Date:** | 08/01/07 |
| **Lab File ID:** | Q4163.D | **Injection Time:** | 11:54 |
| **Instrument ID:** | GCMSQ | **Method:** | TO-15 |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| Check Std | 297723 | 8.63 | 1450955 | 10.46 | 1234001 | 14.70 |
| Upper Limit [a] | 416812 | 8.96 | 2031337 | 10.79 | 1727601 | 15.03 |
| Lower Limit [b] | 178634 | 8.30 | 870573 | 10.13 | 740401 | 14.37 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| MSQ221-BS | 297723 | 8.63 | 1450955 | 10.46 | 1234001 | 14.70 |
| MSQ221-MB | 262442 | 8.63 | 1125920 | 10.46 | 984999 | 14.70 |
| ZZZZZZ | 249609 | 8.63 | 1098881 | 10.46 | 979684 | 14.70 |
| ZZZZZZ | 555623* | 8.63 | 2645827* | 10.46 | 2449301* | 14.70 |
| M66578-1 | 296513 | 8.63 | 1299438 | 10.46 | 1224400 | 14.70 |
| M66578-1DUP | 291934 | 8.63 | 1306960 | 10.46 | 1215991 | 14.70 |
| M66578-2 | 274593 | 8.63 | 1245330 | 10.46 | 1148895 | 14.70 |
| ZZZZZZ | 179704 | 8.63 | 950268 | 10.46 | 783045 | 14.70 |

**IS 1** = Bromochloromethane
**IS 2** = 1,4-Difluorobenzene
**IS 3** = Chlorobenzene-D5

(a) Upper Limit = +40% of check standard area; Retention time +0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSJ562-IC562 | J10860.D | 07/05/07 10:47 | DFT | 0.5 | GCMSJ | TO-15 | Reporting this level |
| MSJ562-IC562 | J10861.D | 07/05/07 11:40 | DFT | 0.2 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10863.D | 07/05/07 13:26 | DFT | 40 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10864.D | 07/05/07 14:22 | DFT | 20 | GCMSJ | TO-15 | |
| MSJ562-ICC562 | J10865.D | 07/05/07 15:15 | DFT | 10 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10866.D | 07/05/07 16:08 | DFT | 5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10867.D | 07/05/07 16:59 | DFT | 2 | GCMSJ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Acetone | 5.69 | 8.62 | 0.660 | ok | 0.658 | 0.598-0.718 |
| 1,3-Butadiene | 4.58 | 8.62 | 0.531 | ok | 0.531 | 0.471-0.591 |
| Benzene | 10.12 | 10.44 | 0.969 | ok | 0.970 | 0.910-1.030 |
| Bromodichloromethane | 11.09 | 10.44 | 1.062 | ok | 1.062 | 1.002-1.122 |
| Bromoform | 15.39 | 14.67 | 1.049 | ok | 1.050 | 0.990-1.110 |
| Bromomethane | 4.86 | 8.62 | 0.564 | ok | 0.563 | 0.503-0.623 |
| Bromoethene | 5.38 | 8.62 | 0.624 | ok | 0.624 | 0.564-0.684 |
| Benzyl Chloride | 17.89 | 14.67 | 1.219 | ok | 1.219 | 1.159-1.279 |
| Carbon disulfide | 6.84 | 8.62 | 0.794 | ok | 0.794 | 0.734-0.854 |
| Chlorobenzene | 14.71 | 14.67 | 1.003 | ok | 1.003 | 0.943-1.063 |
| Chloroethane | 5.03 | 8.62 | 0.584 | ok | 0.583 | 0.523-0.643 |
| Chloroform | 8.74 | 8.62 | 1.014 | ok | 1.014 | 0.954-1.074 |
| Chloromethane | 4.23 | 8.62 | 0.491 | ok | 0.491 | 0.431-0.551 |
| 3-Chloropropene | 6.66 | 8.62 | 0.773 | ok | 0.772 | 0.712-0.832 |
| 2-Chlorotoluene | 16.98 | 14.67 | 1.157 | ok | 1.158 | 1.098-1.218 |
| Carbon tetrachloride | 10.25 | 8.62 | 1.189 | ok | 1.190 | 1.130-1.250 |
| Cyclohexane | 10.37 | 10.44 | 0.993 | ok | 0.993 | 0.933-1.053 |
| 1,1-Dichloroethane | 7.65 | 8.62 | 0.887 | ok | 0.887 | 0.827-0.947 |
| 1,1-Dichloroethylene | 6.43 | 8.62 | 0.746 | ok | 0.745 | 0.685-0.805 |
| 1,2-Dibromoethane | 13.57 | 14.67 | 0.925 | ok | 0.925 | 0.865-0.985 |
| 1,2-Dichloroethane | 9.45 | 8.62 | 1.096 | ok | 1.096 | 1.036-1.156 |
| 1,2-Dichloropropane | 10.90 | 10.44 | 1.044 | ok | 1.044 | 0.984-1.104 |
| 1,4-Dioxane | 11.28 | 10.44 | 1.080 | ok | 1.074 | 1.014-1.134 |
| Dichlorodifluoromethane | 4.06 | 8.62 | 0.471 | ok | 0.472 | 0.412-0.532 |
| Dibromochloromethane | 13.32 | 14.67 | 0.908 | ok | 0.908 | 0.848-0.968 |
| trans-1,2-Dichloroethylene | 7.45 | 8.62 | 0.864 | ok | 0.864 | 0.804-0.924 |
| cis-1,2-Dichloroethylene | 8.46 | 8.62 | 0.981 | ok | 0.981 | 0.921-1.041 |
| cis-1,3-Dichloropropene | 11.94 | 10.44 | 1.144 | ok | 1.144 | 1.084-1.204 |
| m-Dichlorobenzene | 17.90 | 14.67 | 1.220 | ok | 1.220 | 1.160-1.280 |
| o-Dichlorobenzene | 18.37 | 14.67 | 1.252 | ok | 1.252 | 1.192-1.312 |
| p-Dichlorobenzene | 17.98 | 14.67 | 1.226 | ok | 1.226 | 1.166-1.286 |
| trans-1,3-Dichloropropene | 12.44 | 10.44 | 1.192 | ok | 1.193 | 1.133-1.253 |
| Ethanol | 5.32 | 8.62 | 0.617 | ok | 0.608 | 0.548-0.668 |
| Ethylbenzene | 15.09 | 14.67 | 1.029 | ok | 1.029 | 0.969-1.089 |
| Ethyl Acetate | 8.71 | 8.62 | 1.010 | ok | 1.010 | 0.950-1.070 |
| 4-Ethyltoluene | 17.16 | 14.67 | 1.170 | ok | 1.170 | 1.110-1.230 |
| Freon 113 | 6.79 | 8.62 | 0.788 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 4.33 | 8.62 | 0.502 | ok | 0.501 | 0.441-0.561 |
| Heptane | 11.36 | 10.44 | 1.088 | ok | 1.088 | 1.028-1.148 |
| Hexachlorobutadiene | 20.76 | 14.67 | 1.415 | ok | 1.415 | 1.355-1.475 |
| Hexane | 8.63 | 8.62 | 1.001 | ok | 1.001 | 0.941-1.061 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSJ562-IC562 | J10860.D | 07/05/07 10:47 | DFT | 0.5 | GCMSJ | TO-15 | Reporting this level |
| MSJ562-IC562 | J10861.D | 07/05/07 11:40 | DFT | 0.2 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10863.D | 07/05/07 13:26 | DFT | 40 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10864.D | 07/05/07 14:22 | DFT | 20 | GCMSJ | TO-15 | |
| MSJ562-ICC562 | J10865.D | 07/05/07 15:15 | DFT | 10 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10866.D | 07/05/07 16:08 | DFT | 5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10867.D | 07/05/07 16:59 | DFT | 2 | GCMSJ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| 2-Hexanone | 13.20 | 14.67 | 0.900 | ok | 0.899 | 0.839-0.959 |
| Isopropylbenzene | 16.42 | 14.67 | 1.119 | ok | 1.120 | 1.060-1.180 |
| Isopropyl Alcohol | 6.07 | 8.62 | 0.704 | ok | 0.696 | 0.636-0.756 |
| Methylene chloride | 6.55 | 8.62 | 0.760 | ok | 0.759 | 0.699-0.819 |
| Methyl ethyl ketone | 8.10 | 8.62 | 0.940 | ok | 0.939 | 0.879-0.999 |
| Methyl Isobutyl Ketone | 12.02 | 10.44 | 1.151 | ok | 1.151 | 1.091-1.211 |
| Methyl Tert Butyl Ether | 7.75 | 8.62 | 0.899 | ok | 0.898 | 0.838-0.958 |
| Nonane | 15.97 | 14.67 | 1.089 | ok | 1.088 | 1.028-1.148 |
| Pentane | 6.13 | 8.62 | 0.711 | ok | 0.711 | 0.651-0.771 |
| Propylene | 4.00 | 8.62 | 0.464 | ok | 0.464 | 0.404-0.524 |
| Styrene | 15.67 | 14.67 | 1.068 | ok | 1.068 | 1.008-1.128 |
| 1,1,1-Trichloroethane | 9.68 | 8.62 | 1.123 | ok | 1.123 | 1.063-1.183 |
| 1,1,2,2-Tetrachloroethane | 15.79 | 14.67 | 1.076 | ok | 1.077 | 1.017-1.137 |
| 1,1,2-Trichloroethane | 12.62 | 10.44 | 1.209 | ok | 1.210 | 1.150-1.270 |
| 1,2,4-Trichlorobenzene | 20.28 | 14.67 | 1.382 | ok | 1.382 | 1.322-1.442 |
| 1,2,4-Trimethylbenzene | 17.72 | 14.67 | 1.208 | ok | 1.208 | 1.148-1.268 |
| 1,3,5-Trimethylbenzene | 17.25 | 14.67 | 1.176 | ok | 1.176 | 1.116-1.236 |
| 2,2,4-Trimethylpentane | 11.12 | 10.44 | 1.065 | ok | 1.066 | 1.006-1.126 |
| Tertiary Butyl Alcohol | 6.69 | 8.62 | 0.776 | ok | 0.767 | 0.707-0.827 |
| Tetrachloroethylene | 14.01 | 14.67 | 0.955 | ok | 0.955 | 0.895-1.015 |
| Tetrahydrofuran | 9.23 | 8.62 | 1.071 | ok | 1.066 | 1.006-1.126 |
| Toluene | 12.88 | 10.44 | 1.234 | ok | 1.235 | 1.175-1.295 |
| Trichloroethylene | 11.11 | 10.44 | 1.064 | ok | 1.065 | 1.005-1.125 |
| Trichlorofluoromethane | 5.79 | 8.62 | 0.672 | ok | 0.671 | 0.611-0.731 |
| Vinyl chloride | 4.45 | 8.62 | 0.516 | ok | 0.516 | 0.456-0.576 |
| Vinyl Acetate | 7.81 | 8.62 | 0.906 | ok | 0.905 | 0.845-0.965 |
| m,p-Xylene | 15.27 | 14.67 | 1.041 | ok | 1.041 | 0.981-1.101 |
| o-Xylene | 15.78 | 14.67 | 1.076 | ok | 1.076 | 1.016-1.136 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+/- 0.33) | Area | | Mean Area | Area Range (+/- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 8.62 | ok | 8.62 | 8.29-8.95 | 309281 | ok | 333675 | 200205-467145 |
| 1,4-Difluorobenzene | 10.44 | ok | 10.43 | 10.10-10.76 | 1310708 | ok | 1414039 | 848423-1979655 |
| Chlorobenzene-D5 | 14.67 | ok | 14.67 | 14.34-15.00 | 1115339 | ok | 1228766 | 737260-1720272 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSJ562-IC562 | J10860.D | 07/05/07 10:47 | DFT | 0.5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10861.D | 07/05/07 11:40 | DFT | 0.2 | GCMSJ | TO-15 | Reporting this level |
| MSJ562-IC562 | J10863.D | 07/05/07 13:26 | DFT | 40 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10864.D | 07/05/07 14:22 | DFT | 20 | GCMSJ | TO-15 | |
| MSJ562-ICC562 | J10865.D | 07/05/07 15:15 | DFT | 10 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10866.D | 07/05/07 16:08 | DFT | 5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10867.D | 07/05/07 16:59 | DFT | 2 | GCMSJ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Acetone | 5.70 | 8.61 | 0.662 | ok | 0.658 | 0.598-0.718 |
| 1,3-Butadiene | 4.58 | 8.61 | 0.532 | ok | 0.531 | 0.471-0.591 |
| Benzene | 10.11 | 10.43 | 0.969 | ok | 0.970 | 0.910-1.030 |
| Bromodichloromethane | 11.08 | 10.43 | 1.062 | ok | 1.062 | 1.002-1.122 |
| Bromoform | 15.39 | 14.66 | 1.050 | ok | 1.050 | 0.990-1.110 |
| Bromomethane | 4.84 | 8.61 | 0.562 | ok | 0.563 | 0.503-0.623 |
| Bromoethene | 5.38 | 8.61 | 0.625 | ok | 0.624 | 0.564-0.684 |
| Benzyl Chloride | 17.89 | 14.66 | 1.220 | ok | 1.219 | 1.159-1.279 |
| Carbon disulfide | 6.84 | 8.61 | 0.794 | ok | 0.794 | 0.734-0.854 |
| Chlorobenzene | 14.71 | 14.66 | 1.003 | ok | 1.003 | 0.943-1.063 |
| Chloroethane | 5.02 | 8.61 | 0.583 | ok | 0.583 | 0.523-0.643 |
| Chloroform | 8.73 | 8.61 | 1.014 | ok | 1.014 | 0.954-1.074 |
| Chloromethane | 4.23 | 8.61 | 0.491 | ok | 0.491 | 0.431-0.551 |
| Carbon tetrachloride | 10.25 | 8.61 | 1.190 | ok | 1.190 | 1.130-1.250 |
| 1,1-Dichloroethane | 7.65 | 8.61 | 0.889 | ok | 0.887 | 0.827-0.947 |
| 1,1-Dichloroethylene | 6.42 | 8.61 | 0.746 | ok | 0.745 | 0.685-0.805 |
| 1,2-Dibromoethane | 13.56 | 14.66 | 0.925 | ok | 0.925 | 0.865-0.985 |
| 1,2-Dichloroethane | 9.44 | 8.61 | 1.096 | ok | 1.096 | 1.036-1.156 |
| 1,2-Dichloropropane | 10.89 | 10.43 | 1.044 | ok | 1.044 | 0.984-1.104 |
| Dichlorodifluoromethane | 4.06 | 8.61 | 0.472 | ok | 0.472 | 0.412-0.532 |
| Dibromochloromethane | 13.32 | 14.66 | 0.909 | ok | 0.908 | 0.848-0.968 |
| trans-1,2-Dichloroethylene | 7.46 | 8.61 | 0.866 | ok | 0.864 | 0.804-0.924 |
| cis-1,2-Dichloroethylene | 8.45 | 8.61 | 0.981 | ok | 0.981 | 0.921-1.041 |
| m-Dichlorobenzene | 17.91 | 14.66 | 1.222 | ok | 1.220 | 1.160-1.280 |
| o-Dichlorobenzene | 18.37 | 14.66 | 1.253 | ok | 1.252 | 1.192-1.312 |
| p-Dichlorobenzene | 17.98 | 14.66 | 1.226 | ok | 1.226 | 1.166-1.286 |
| Ethyl Acetate | 8.73 | 8.61 | 1.014 | ok | 1.010 | 0.950-1.070 |
| Freon 113 | 6.78 | 8.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 4.32 | 8.61 | 0.502 | ok | 0.501 | 0.441-0.561 |
| Hexachlorobutadiene | 20.76 | 14.66 | 1.416 | ok | 1.415 | 1.355-1.475 |
| Hexane | 8.62 | 8.61 | 1.001 | ok | 1.001 | 0.941-1.061 |
| Methylene chloride | 6.54 | 8.61 | 0.760 | ok | 0.759 | 0.699-0.819 |
| Methyl ethyl ketone | 8.13 | 8.61 | 0.944 | ok | 0.939 | 0.879-0.999 |
| Methyl Tert Butyl Ether | 7.77 | 8.61 | 0.902 | ok | 0.898 | 0.838-0.958 |
| Pentane | 6.14 | 8.61 | 0.713 | ok | 0.711 | 0.651-0.771 |
| Propylene | 4.00 | 8.61 | 0.465 | ok | 0.464 | 0.404-0.524 |
| 1,1,1-Trichloroethane | 9.67 | 8.61 | 1.123 | ok | 1.123 | 1.063-1.183 |
| 1,1,2,2-Tetrachloroethane | 15.79 | 14.66 | 1.077 | ok | 1.077 | 1.017-1.137 |
| 1,1,2-Trichloroethane | 12.62 | 10.43 | 1.210 | ok | 1.210 | 1.150-1.270 |
| 1,2,4-Trichlorobenzene | 20.27 | 14.66 | 1.383 | ok | 1.382 | 1.322-1.442 |
| 2,2,4-Trimethylpentane | 11.12 | 10.43 | 1.066 | ok | 1.066 | 1.006-1.126 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSJ562-IC562 | J10860.D | 07/05/07 10:47 | DFT | 0.5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10861.D | 07/05/07 11:40 | DFT | 0.2 | GCMSJ | TO-15 | Reporting this level |
| MSJ562-IC562 | J10863.D | 07/05/07 13:26 | DFT | 40 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10864.D | 07/05/07 14:22 | DFT | 20 | GCMSJ | TO-15 | |
| MSJ562-ICC562 | J10865.D | 07/05/07 15:15 | DFT | 10 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10866.D | 07/05/07 16:08 | DFT | 5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10867.D | 07/05/07 16:59 | DFT | 2 | GCMSJ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Tetrachloroethylene | 14.01 | 14.66 | 0.956 | ok | 0.955 | 0.895-1.015 |
| Trichloroethylene | 11.10 | 10.43 | 1.064 | ok | 1.065 | 1.005-1.125 |
| Trichlorofluoromethane | 5.79 | 8.61 | 0.672 | ok | 0.671 | 0.611-0.731 |
| Vinyl chloride | 4.44 | 8.61 | 0.516 | ok | 0.516 | 0.456-0.576 |
| m,p-Xylene | 15.25 | 14.66 | 1.040 | ok | 1.041 | 0.981-1.101 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+/- 0.33) | Area | | Mean Area | Area Range (+/- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 8.61 | ok | 8.62 | 8.29-8.95 | 314205 | ok | 333675 | 200205-467145 |
| 1,4-Difluorobenzene | 10.43 | ok | 10.43 | 10.10-10.76 | 1315959 | ok | 1414039 | 848423-1979655 |
| Chlorobenzene-D5 | 14.66 | ok | 14.67 | 14.34-15.00 | 1039945 | ok | 1228766 | 737260-1720272 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSJ562-IC562 | J10860.D | 07/05/07 10:47 | DFT | 0.5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10861.D | 07/05/07 11:40 | DFT | 0.2 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10863.D | 07/05/07 13:26 | DFT | 40 | GCMSJ | TO-15 | Reporting this level |
| MSJ562-IC562 | J10864.D | 07/05/07 14:22 | DFT | 20 | GCMSJ | TO-15 | |
| MSJ562-ICC562 | J10865.D | 07/05/07 15:15 | DFT | 10 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10866.D | 07/05/07 16:08 | DFT | 5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10867.D | 07/05/07 16:59 | DFT | 2 | GCMSJ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Acetone | 5.64 | 8.62 | 0.654 | ok | 0.658 | 0.598-0.718 |
| 1,3-Butadiene | 4.57 | 8.62 | 0.530 | ok | 0.531 | 0.471-0.591 |
| Benzene | 10.13 | 10.45 | 0.969 | ok | 0.970 | 0.910-1.030 |
| Bromodichloromethane | 11.11 | 10.45 | 1.063 | ok | 1.062 | 1.002-1.122 |
| Bromoform | 15.44 | 14.70 | 1.050 | ok | 1.050 | 0.990-1.110 |
| Bromomethane | 4.85 | 8.62 | 0.563 | ok | 0.563 | 0.503-0.623 |
| Bromoethene | 5.37 | 8.62 | 0.623 | ok | 0.624 | 0.564-0.684 |
| Benzyl Chloride | 17.91 | 14.70 | 1.218 | ok | 1.219 | 1.159-1.279 |
| Carbon disulfide | 6.83 | 8.62 | 0.792 | ok | 0.794 | 0.734-0.854 |
| Chlorobenzene | 14.74 | 14.70 | 1.003 | ok | 1.003 | 0.943-1.063 |
| Chloroethane | 5.01 | 8.62 | 0.581 | ok | 0.583 | 0.523-0.643 |
| Chloroform | 8.75 | 8.62 | 1.015 | ok | 1.014 | 0.954-1.074 |
| Chloromethane | 4.23 | 8.62 | 0.491 | ok | 0.491 | 0.431-0.551 |
| 3-Chloropropene | 6.65 | 8.62 | 0.771 | ok | 0.772 | 0.712-0.832 |
| 2-Chlorotoluene | 17.01 | 14.70 | 1.157 | ok | 1.158 | 1.098-1.218 |
| Carbon tetrachloride | 10.26 | 8.62 | 1.190 | ok | 1.190 | 1.130-1.250 |
| Cyclohexane | 10.36 | 10.45 | 0.991 | ok | 0.993 | 0.933-1.053 |
| 1,1-Dichloroethane | 7.65 | 8.62 | 0.887 | ok | 0.887 | 0.827-0.947 |
| 1,1-Dichloroethylene | 6.41 | 8.62 | 0.744 | ok | 0.745 | 0.685-0.805 |
| 1,2-Dibromoethane | 13.61 | 14.70 | 0.926 | ok | 0.925 | 0.865-0.985 |
| 1,2-Dichloroethane | 9.46 | 8.62 | 1.097 | ok | 1.096 | 1.036-1.156 |
| 1,2-Dichloropropane | 10.91 | 10.45 | 1.044 | ok | 1.044 | 0.984-1.104 |
| 1,4-Dioxane | 11.20 | 10.45 | 1.072 | ok | 1.074 | 1.014-1.134 |
| Dichlorodifluoromethane | 4.07 | 8.62 | 0.472 | ok | 0.472 | 0.412-0.532 |
| Dibromochloromethane | 13.36 | 14.70 | 0.909 | ok | 0.908 | 0.848-0.968 |
| trans-1,2-Dichloroethylene | 7.44 | 8.62 | 0.863 | ok | 0.864 | 0.804-0.924 |
| cis-1,2-Dichloroethylene | 8.45 | 8.62 | 0.980 | ok | 0.981 | 0.921-1.041 |
| cis-1,3-Dichloropropene | 11.95 | 10.45 | 1.144 | ok | 1.144 | 1.084-1.204 |
| m-Dichlorobenzene | 17.93 | 14.70 | 1.220 | ok | 1.220 | 1.160-1.280 |
| o-Dichlorobenzene | 18.39 | 14.70 | 1.251 | ok | 1.252 | 1.192-1.312 |
| p-Dichlorobenzene | 18.00 | 14.70 | 1.224 | ok | 1.226 | 1.166-1.286 |
| trans-1,3-Dichloropropene | 12.47 | 10.45 | 1.193 | ok | 1.193 | 1.133-1.253 |
| Ethanol | 5.23 | 8.62 | 0.607 | ok | 0.608 | 0.548-0.668 |
| Ethylbenzene | 15.12 | 14.70 | 1.029 | ok | 1.029 | 0.969-1.089 |
| Ethyl Acetate | 8.70 | 8.62 | 1.009 | ok | 1.010 | 0.950-1.070 |
| 4-Ethyltoluene | 17.19 | 14.70 | 1.169 | ok | 1.170 | 1.110-1.230 |
| Freon 113 | 6.77 | 8.62 | 0.785 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 4.32 | 8.62 | 0.501 | ok | 0.501 | 0.441-0.561 |
| Heptane | 11.37 | 10.45 | 1.088 | ok | 1.088 | 1.028-1.148 |
| Hexachlorobutadiene | 20.76 | 14.70 | 1.412 | ok | 1.415 | 1.355-1.475 |
| Hexane | 8.62 | 8.62 | 1.000 | ok | 1.001 | 0.941-1.061 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSJ562-IC562 | J10860.D | 07/05/07 10:47 | DFT | 0.5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10861.D | 07/05/07 11:40 | DFT | 0.2 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10863.D | 07/05/07 13:26 | DFT | 40 | GCMSJ | TO-15 | Reporting this level |
| MSJ562-IC562 | J10864.D | 07/05/07 14:22 | DFT | 20 | GCMSJ | TO-15 | |
| MSJ562-ICC562 | J10865.D | 07/05/07 15:15 | DFT | 10 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10866.D | 07/05/07 16:08 | DFT | 5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10867.D | 07/05/07 16:59 | DFT | 2 | GCMSJ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| 2-Hexanone | 13.21 | 14.70 | 0.899 | ok | 0.899 | 0.839-0.959 |
| Isopropylbenzene | 16.45 | 14.70 | 1.119 | ok | 1.120 | 1.060-1.180 |
| Isopropyl Alcohol | 6.04 | 8.62 | 0.701 | ok | 0.696 | 0.636-0.756 |
| Methylene chloride | 6.53 | 8.62 | 0.758 | ok | 0.759 | 0.699-0.819 |
| Methyl ethyl ketone | 8.09 | 8.62 | 0.939 | ok | 0.939 | 0.879-0.999 |
| Methyl Isobutyl Ketone | 12.03 | 10.45 | 1.151 | ok | 1.151 | 1.091-1.211 |
| Methyl Tert Butyl Ether | 7.72 | 8.62 | 0.896 | ok | 0.898 | 0.838-0.958 |
| Nonane | 15.99 | 14.70 | 1.088 | ok | 1.088 | 1.028-1.148 |
| Pentane | 6.12 | 8.62 | 0.710 | ok | 0.711 | 0.651-0.771 |
| Propylene | 3.99 | 8.62 | 0.463 | ok | 0.464 | 0.404-0.524 |
| Styrene | 15.70 | 14.70 | 1.068 | ok | 1.068 | 1.008-1.128 |
| 1,1,1-Trichloroethane | 9.68 | 8.62 | 1.123 | ok | 1.123 | 1.063-1.183 |
| 1,1,2,2-Tetrachloroethane | 15.83 | 14.70 | 1.077 | ok | 1.077 | 1.017-1.137 |
| 1,1,2-Trichloroethane | 12.65 | 10.45 | 1.211 | ok | 1.210 | 1.150-1.270 |
| 1,2,4-Trichlorobenzene | 20.28 | 14.70 | 1.380 | ok | 1.382 | 1.322-1.442 |
| 1,2,4-Trimethylbenzene | 17.74 | 14.70 | 1.207 | ok | 1.208 | 1.148-1.268 |
| 1,3,5-Trimethylbenzene | 17.28 | 14.70 | 1.176 | ok | 1.176 | 1.116-1.236 |
| 2,2,4-Trimethylpentane | 11.13 | 10.45 | 1.065 | ok | 1.066 | 1.006-1.126 |
| Tertiary Butyl Alcohol | 6.65 | 8.62 | 0.771 | ok | 0.767 | 0.707-0.827 |
| Tetrachloroethylene | 14.03 | 14.70 | 0.954 | ok | 0.955 | 0.895-1.015 |
| Tetrahydrofuran | 9.17 | 8.62 | 1.064 | ok | 1.066 | 1.006-1.126 |
| Toluene | 12.90 | 10.45 | 1.234 | ok | 1.235 | 1.175-1.295 |
| Trichloroethylene | 11.13 | 10.45 | 1.065 | ok | 1.065 | 1.005-1.125 |
| Trichlorofluoromethane | 5.78 | 8.62 | 0.671 | ok | 0.671 | 0.611-0.731 |
| Vinyl chloride | 4.44 | 8.62 | 0.515 | ok | 0.516 | 0.456-0.576 |
| Vinyl Acetate | 7.80 | 8.62 | 0.905 | ok | 0.905 | 0.845-0.965 |
| m,p-Xylene | 15.31 | 14.70 | 1.041 | ok | 1.041 | 0.981-1.101 |
| o-Xylene | 15.82 | 14.70 | 1.076 | ok | 1.076 | 1.016-1.136 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+/- 0.33) | Area | | Mean Area | Area Range (+/- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 8.62 | ok | 8.62 | 8.29-8.95 | 350136 | ok | 333675 | 200205-467145 |
| 1,4-Difluorobenzene | 10.45 | ok | 10.43 | 10.10-10.76 | 1441648 | ok | 1414039 | 848423-1979655 |
| Chlorobenzene-D5 | 14.70 | ok | 14.67 | 14.34-15.00 | 1373333 | ok | 1228766 | 737260-1720272 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSJ562-IC562 | J10860.D | 07/05/07 10:47 | DFT | 0.5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10861.D | 07/05/07 11:40 | DFT | 0.2 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10863.D | 07/05/07 13:26 | DFT | 40 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10864.D | 07/05/07 14:22 | DFT | 20 | GCMSJ | TO-15 | Reporting this level |
| MSJ562-ICC562 | J10865.D | 07/05/07 15:15 | DFT | 10 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10866.D | 07/05/07 16:08 | DFT | 5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10867.D | 07/05/07 16:59 | DFT | 2 | GCMSJ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Acetone | 5.63 | 8.60 | 0.655 | ok | 0.658 | 0.598-0.718 |
| 1,3-Butadiene | 4.57 | 8.60 | 0.531 | ok | 0.531 | 0.471-0.591 |
| Benzene | 10.11 | 10.43 | 0.969 | ok | 0.970 | 0.910-1.030 |
| Bromodichloromethane | 11.08 | 10.43 | 1.062 | ok | 1.062 | 1.002-1.122 |
| Bromoform | 15.42 | 14.68 | 1.050 | ok | 1.050 | 0.990-1.110 |
| Bromomethane | 4.84 | 8.60 | 0.563 | ok | 0.563 | 0.503-0.623 |
| Bromoethene | 5.36 | 8.60 | 0.623 | ok | 0.624 | 0.564-0.684 |
| Benzyl Chloride | 17.90 | 14.68 | 1.219 | ok | 1.219 | 1.159-1.279 |
| Carbon disulfide | 6.82 | 8.60 | 0.793 | ok | 0.794 | 0.734-0.854 |
| Chlorobenzene | 14.72 | 14.68 | 1.003 | ok | 1.003 | 0.943-1.063 |
| Chloroethane | 5.01 | 8.60 | 0.583 | ok | 0.583 | 0.523-0.643 |
| Chloroform | 8.73 | 8.60 | 1.015 | ok | 1.014 | 0.954-1.074 |
| Chloromethane | 4.22 | 8.60 | 0.491 | ok | 0.491 | 0.431-0.551 |
| 3-Chloropropene | 6.63 | 8.60 | 0.771 | ok | 0.772 | 0.712-0.832 |
| 2-Chlorotoluene | 16.99 | 14.68 | 1.157 | ok | 1.158 | 1.098-1.218 |
| Carbon tetrachloride | 10.24 | 8.60 | 1.191 | ok | 1.190 | 1.130-1.250 |
| Cyclohexane | 10.35 | 10.43 | 0.992 | ok | 0.993 | 0.933-1.053 |
| 1,1-Dichloroethane | 7.63 | 8.60 | 0.887 | ok | 0.887 | 0.827-0.947 |
| 1,1-Dichloroethylene | 6.40 | 8.60 | 0.744 | ok | 0.745 | 0.685-0.805 |
| 1,2-Dibromoethane | 13.58 | 14.68 | 0.925 | ok | 0.925 | 0.865-0.985 |
| 1,2-Dichloroethane | 9.44 | 8.60 | 1.098 | ok | 1.096 | 1.036-1.156 |
| 1,2-Dichloropropane | 10.89 | 10.43 | 1.044 | ok | 1.044 | 0.984-1.104 |
| 1,4-Dioxane | 11.17 | 10.43 | 1.071 | ok | 1.074 | 1.014-1.134 |
| Dichlorodifluoromethane | 4.06 | 8.60 | 0.472 | ok | 0.472 | 0.412-0.532 |
| Dibromochloromethane | 13.34 | 14.68 | 0.909 | ok | 0.908 | 0.848-0.968 |
| trans-1,2-Dichloroethylene | 7.43 | 8.60 | 0.864 | ok | 0.864 | 0.804-0.924 |
| cis-1,2-Dichloroethylene | 8.44 | 8.60 | 0.981 | ok | 0.981 | 0.921-1.041 |
| cis-1,3-Dichloropropene | 11.93 | 10.43 | 1.144 | ok | 1.144 | 1.084-1.204 |
| m-Dichlorobenzene | 17.91 | 14.68 | 1.220 | ok | 1.220 | 1.160-1.280 |
| o-Dichlorobenzene | 18.38 | 14.68 | 1.252 | ok | 1.252 | 1.192-1.312 |
| p-Dichlorobenzene | 17.99 | 14.68 | 1.225 | ok | 1.226 | 1.166-1.286 |
| trans-1,3-Dichloropropene | 12.45 | 10.43 | 1.194 | ok | 1.193 | 1.133-1.253 |
| Ethanol | 5.21 | 8.60 | 0.606 | ok | 0.608 | 0.548-0.668 |
| Ethylbenzene | 15.10 | 14.68 | 1.029 | ok | 1.029 | 0.969-1.089 |
| Ethyl Acetate | 8.68 | 8.60 | 1.009 | ok | 1.010 | 0.950-1.070 |
| 4-Ethyltoluene | 17.18 | 14.68 | 1.170 | ok | 1.170 | 1.110-1.230 |
| Freon 113 | 6.76 | 8.60 | 0.786 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 4.31 | 8.60 | 0.501 | ok | 0.501 | 0.441-0.561 |
| Heptane | 11.35 | 10.43 | 1.088 | ok | 1.088 | 1.028-1.148 |
| Hexachlorobutadiene | 20.76 | 14.68 | 1.414 | ok | 1.415 | 1.355-1.475 |
| Hexane | 8.61 | 8.60 | 1.001 | ok | 1.001 | 0.941-1.061 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSJ562-IC562 | J10860.D | 07/05/07 10:47 | DFT | 0.5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10861.D | 07/05/07 11:40 | DFT | 0.2 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10863.D | 07/05/07 13:26 | DFT | 40 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10864.D | 07/05/07 14:22 | DFT | 20 | GCMSJ | TO-15 | Reporting this level |
| MSJ562-ICC562 | J10865.D | 07/05/07 15:15 | DFT | 10 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10866.D | 07/05/07 16:08 | DFT | 5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10867.D | 07/05/07 16:59 | DFT | 2 | GCMSJ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| 2-Hexanone | 13.18 | 14.68 | 0.898 | ok | 0.899 | 0.839-0.959 |
| Isopropylbenzene | 16.44 | 14.68 | 1.120 | ok | 1.120 | 1.060-1.180 |
| Isopropyl Alcohol | 5.97 | 8.60 | 0.694 | ok | 0.696 | 0.636-0.756 |
| Methylene chloride | 6.52 | 8.60 | 0.758 | ok | 0.759 | 0.699-0.819 |
| Methyl ethyl ketone | 8.06 | 8.60 | 0.937 | ok | 0.939 | 0.879-0.999 |
| Methyl Isobutyl Ketone | 12.00 | 10.43 | 1.151 | ok | 1.151 | 1.091-1.211 |
| Methyl Tert Butyl Ether | 7.70 | 8.60 | 0.895 | ok | 0.898 | 0.838-0.958 |
| Nonane | 15.98 | 14.68 | 1.089 | ok | 1.088 | 1.028-1.148 |
| Pentane | 6.11 | 8.60 | 0.710 | ok | 0.711 | 0.651-0.771 |
| Propylene | 3.99 | 8.60 | 0.464 | ok | 0.464 | 0.404-0.524 |
| Styrene | 15.68 | 14.68 | 1.068 | ok | 1.068 | 1.008-1.128 |
| 1,1,1-Trichloroethane | 9.67 | 8.60 | 1.124 | ok | 1.123 | 1.063-1.183 |
| 1,1,2,2-Tetrachloroethane | 15.81 | 14.68 | 1.077 | ok | 1.077 | 1.017-1.137 |
| 1,1,2-Trichloroethane | 12.63 | 10.43 | 1.211 | ok | 1.210 | 1.150-1.270 |
| 1,2,4-Trichlorobenzene | 20.27 | 14.68 | 1.381 | ok | 1.382 | 1.322-1.442 |
| 1,2,4-Trimethylbenzene | 17.73 | 14.68 | 1.208 | ok | 1.208 | 1.148-1.268 |
| 1,3,5-Trimethylbenzene | 17.27 | 14.68 | 1.176 | ok | 1.176 | 1.116-1.236 |
| 2,2,4-Trimethylpentane | 11.11 | 10.43 | 1.065 | ok | 1.066 | 1.006-1.126 |
| Tertiary Butyl Alcohol | 6.57 | 8.60 | 0.764 | ok | 0.767 | 0.707-0.827 |
| Tetrachloroethylene | 14.01 | 14.68 | 0.954 | ok | 0.955 | 0.895-1.015 |
| Tetrahydrofuran | 9.15 | 8.60 | 1.064 | ok | 1.066 | 1.006-1.126 |
| Toluene | 12.89 | 10.43 | 1.236 | ok | 1.235 | 1.175-1.295 |
| Trichloroethylene | 11.11 | 10.43 | 1.065 | ok | 1.065 | 1.005-1.125 |
| Trichlorofluoromethane | 5.77 | 8.60 | 0.671 | ok | 0.671 | 0.611-0.731 |
| Vinyl chloride | 4.44 | 8.60 | 0.516 | ok | 0.516 | 0.456-0.576 |
| Vinyl Acetate | 7.78 | 8.60 | 0.905 | ok | 0.905 | 0.845-0.965 |
| m,p-Xylene | 15.29 | 14.68 | 1.042 | ok | 1.041 | 0.981-1.101 |
| o-Xylene | 15.80 | 14.68 | 1.076 | ok | 1.076 | 1.016-1.136 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+/- 0.33) | Area | | Mean Area | Area Range (+/- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 8.60 | ok | 8.62 | 8.29-8.95 | 365307 | ok | 333675 | 200205-467145 |
| 1,4-Difluorobenzene | 10.43 | ok | 10.43 | 10.10-10.76 | 1518441 | ok | 1414039 | 848423-1979655 |
| Chlorobenzene-D5 | 14.68 | ok | 14.67 | 14.34-15.00 | 1386139 | ok | 1228766 | 737260-1720272 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSJ562-IC562 | J10860.D | 07/05/07 10:47 | DFT | 0.5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10861.D | 07/05/07 11:40 | DFT | 0.2 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10863.D | 07/05/07 13:26 | DFT | 40 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10864.D | 07/05/07 14:22 | DFT | 20 | GCMSJ | TO-15 | |
| MSJ562-ICC562 | J10865.D | 07/05/07 15:15 | DFT | 10 | GCMSJ | TO-15 | Reporting this level |
| MSJ562-IC562 | J10866.D | 07/05/07 16:08 | DFT | 5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10867.D | 07/05/07 16:59 | DFT | 2 | GCMSJ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Acetone | 5.65 | 8.62 | 0.655 | ok | 0.658 | 0.598-0.718 |
| 1,3-Butadiene | 4.58 | 8.62 | 0.531 | ok | 0.531 | 0.471-0.591 |
| Benzene | 10.11 | 10.43 | 0.969 | ok | 0.970 | 0.910-1.030 |
| Bromodichloromethane | 11.08 | 10.43 | 1.062 | ok | 1.062 | 1.002-1.122 |
| Bromoform | 15.41 | 14.67 | 1.050 | ok | 1.050 | 0.990-1.110 |
| Bromomethane | 4.85 | 8.62 | 0.563 | ok | 0.563 | 0.503-0.623 |
| Bromoethene | 5.37 | 8.62 | 0.623 | ok | 0.624 | 0.564-0.684 |
| Benzyl Chloride | 17.89 | 14.67 | 1.219 | ok | 1.219 | 1.159-1.279 |
| Carbon disulfide | 6.84 | 8.62 | 0.794 | ok | 0.794 | 0.734-0.854 |
| Chlorobenzene | 14.72 | 14.67 | 1.003 | ok | 1.003 | 0.943-1.063 |
| Chloroethane | 5.02 | 8.62 | 0.582 | ok | 0.583 | 0.523-0.643 |
| Chloroform | 8.74 | 8.62 | 1.014 | ok | 1.014 | 0.954-1.074 |
| Chloromethane | 4.23 | 8.62 | 0.491 | ok | 0.491 | 0.431-0.551 |
| 3-Chloropropene | 6.65 | 8.62 | 0.771 | ok | 0.772 | 0.712-0.832 |
| 2-Chlorotoluene | 16.99 | 14.67 | 1.158 | ok | 1.158 | 1.098-1.218 |
| Carbon tetrachloride | 10.25 | 8.62 | 1.189 | ok | 1.190 | 1.130-1.250 |
| Cyclohexane | 10.36 | 10.43 | 0.993 | ok | 0.993 | 0.933-1.053 |
| 1,1-Dichloroethane | 7.64 | 8.62 | 0.886 | ok | 0.887 | 0.827-0.947 |
| 1,1-Dichloroethylene | 6.41 | 8.62 | 0.744 | ok | 0.745 | 0.685-0.805 |
| 1,2-Dibromoethane | 13.57 | 14.67 | 0.925 | ok | 0.925 | 0.865-0.985 |
| 1,2-Dichloroethane | 9.44 | 8.62 | 1.095 | ok | 1.096 | 1.036-1.156 |
| 1,2-Dichloropropane | 10.89 | 10.43 | 1.044 | ok | 1.044 | 0.984-1.104 |
| 1,4-Dioxane | 11.17 | 10.43 | 1.071 | ok | 1.074 | 1.014-1.134 |
| Dichlorodifluoromethane | 4.07 | 8.62 | 0.472 | ok | 0.472 | 0.412-0.532 |
| Dibromochloromethane | 13.33 | 14.67 | 0.909 | ok | 0.908 | 0.848-0.968 |
| trans-1,2-Dichloroethylene | 7.44 | 8.62 | 0.863 | ok | 0.864 | 0.804-0.924 |
| cis-1,2-Dichloroethylene | 8.45 | 8.62 | 0.980 | ok | 0.981 | 0.921-1.041 |
| cis-1,3-Dichloropropene | 11.93 | 10.43 | 1.144 | ok | 1.144 | 1.084-1.204 |
| m-Dichlorobenzene | 17.91 | 14.67 | 1.221 | ok | 1.220 | 1.160-1.280 |
| o-Dichlorobenzene | 18.37 | 14.67 | 1.252 | ok | 1.252 | 1.192-1.312 |
| p-Dichlorobenzene | 17.99 | 14.67 | 1.226 | ok | 1.226 | 1.166-1.286 |
| trans-1,3-Dichloropropene | 12.44 | 10.43 | 1.193 | ok | 1.193 | 1.133-1.253 |
| Ethanol | 5.22 | 8.62 | 0.606 | ok | 0.608 | 0.548-0.668 |
| Ethylbenzene | 15.10 | 14.67 | 1.029 | ok | 1.029 | 0.969-1.089 |
| Ethyl Acetate | 8.69 | 8.62 | 1.008 | ok | 1.010 | 0.950-1.070 |
| 4-Ethyltoluene | 17.17 | 14.67 | 1.170 | ok | 1.170 | 1.110-1.230 |
| Freon 113 | 6.77 | 8.62 | 0.785 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 4.32 | 8.62 | 0.501 | ok | 0.501 | 0.441-0.561 |
| Heptane | 11.36 | 10.43 | 1.089 | ok | 1.088 | 1.028-1.148 |
| Hexachlorobutadiene | 20.76 | 14.67 | 1.415 | ok | 1.415 | 1.355-1.475 |
| Hexane | 8.62 | 8.62 | 1.000 | ok | 1.001 | 0.941-1.061 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSJ562-IC562 | J10860.D | 07/05/07 10:47 | DFT | 0.5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10861.D | 07/05/07 11:40 | DFT | 0.2 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10863.D | 07/05/07 13:26 | DFT | 40 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10864.D | 07/05/07 14:22 | DFT | 20 | GCMSJ | TO-15 | |
| MSJ562-ICC562 | J10865.D | 07/05/07 15:15 | DFT | 10 | GCMSJ | TO-15 | Reporting this level |
| MSJ562-IC562 | J10866.D | 07/05/07 16:08 | DFT | 5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10867.D | 07/05/07 16:59 | DFT | 2 | GCMSJ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| 2-Hexanone | 13.18 | 14.67 | 0.898 | ok | 0.899 | 0.839-0.959 |
| Isopropylbenzene | 16.43 | 14.67 | 1.120 | ok | 1.120 | 1.060-1.180 |
| Isopropyl Alcohol | 5.97 | 8.62 | 0.693 | ok | 0.696 | 0.636-0.756 |
| Methylene chloride | 6.53 | 8.62 | 0.758 | ok | 0.759 | 0.699-0.819 |
| Methyl ethyl ketone | 8.07 | 8.62 | 0.936 | ok | 0.939 | 0.879-0.999 |
| Methyl Isobutyl Ketone | 12.00 | 10.43 | 1.151 | ok | 1.151 | 1.091-1.211 |
| Methyl Tert Butyl Ether | 7.72 | 8.62 | 0.896 | ok | 0.898 | 0.838-0.958 |
| Nonane | 15.97 | 14.67 | 1.089 | ok | 1.088 | 1.028-1.148 |
| Pentane | 6.13 | 8.62 | 0.711 | ok | 0.711 | 0.651-0.771 |
| Propylene | 4.00 | 8.62 | 0.464 | ok | 0.464 | 0.404-0.524 |
| Styrene | 15.68 | 14.67 | 1.069 | ok | 1.068 | 1.008-1.128 |
| 1,1,1-Trichloroethane | 9.67 | 8.62 | 1.122 | ok | 1.123 | 1.063-1.183 |
| 1,1,2,2-Tetrachloroethane | 15.80 | 14.67 | 1.077 | ok | 1.077 | 1.017-1.137 |
| 1,1,2-Trichloroethane | 12.63 | 10.43 | 1.211 | ok | 1.210 | 1.150-1.270 |
| 1,2,4-Trichlorobenzene | 20.27 | 14.67 | 1.382 | ok | 1.382 | 1.322-1.442 |
| 1,2,4-Trimethylbenzene | 17.72 | 14.67 | 1.208 | ok | 1.208 | 1.148-1.268 |
| 1,3,5-Trimethylbenzene | 17.26 | 14.67 | 1.177 | ok | 1.176 | 1.116-1.236 |
| 2,2,4-Trimethylpentane | 11.12 | 10.43 | 1.066 | ok | 1.066 | 1.006-1.126 |
| Tertiary Butyl Alcohol | 6.57 | 8.62 | 0.762 | ok | 0.767 | 0.707-0.827 |
| Tetrachloroethylene | 14.01 | 14.67 | 0.955 | ok | 0.955 | 0.895-1.015 |
| Tetrahydrofuran | 9.17 | 8.62 | 1.064 | ok | 1.066 | 1.006-1.126 |
| Toluene | 12.89 | 10.43 | 1.236 | ok | 1.235 | 1.175-1.295 |
| Trichloroethylene | 11.11 | 10.43 | 1.065 | ok | 1.065 | 1.005-1.125 |
| Trichlorofluoromethane | 5.78 | 8.62 | 0.671 | ok | 0.671 | 0.611-0.731 |
| Vinyl chloride | 4.45 | 8.62 | 0.516 | ok | 0.516 | 0.456-0.576 |
| Vinyl Acetate | 7.79 | 8.62 | 0.904 | ok | 0.905 | 0.845-0.965 |
| m,p-Xylene | 15.28 | 14.67 | 1.042 | ok | 1.041 | 0.981-1.101 |
| o-Xylene | 15.79 | 14.67 | 1.076 | ok | 1.076 | 1.016-1.136 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+/- 0.33) | Area | | Mean Area | Area Range (+/- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 8.62 | ok | 8.62 | 8.29-8.95 | 357730 | ok | 333675 | 200205-467145 |
| 1,4-Difluorobenzene | 10.43 | ok | 10.43 | 10.10-10.76 | 1553136 | ok | 1414039 | 848423-1979655 |
| Chlorobenzene-D5 | 14.67 | ok | 14.67 | 14.34-15.00 | 1367583 | ok | 1228766 | 737260-1720272 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSJ562-IC562 | J10860.D | 07/05/07 10:47 | DFT | 0.5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10861.D | 07/05/07 11:40 | DFT | 0.2 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10863.D | 07/05/07 13:26 | DFT | 40 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10864.D | 07/05/07 14:22 | DFT | 20 | GCMSJ | TO-15 | |
| MSJ562-ICC562 | J10865.D | 07/05/07 15:15 | DFT | 10 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10866.D | 07/05/07 16:08 | DFT | 5 | GCMSJ | TO-15 | Reporting this level |
| MSJ562-IC562 | J10867.D | 07/05/07 16:59 | DFT | 2 | GCMSJ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Acetone | 5.66 | 8.62 | 0.657 | ok | 0.658 | 0.598-0.718 |
| 1,3-Butadiene | 4.58 | 8.62 | 0.531 | ok | 0.531 | 0.471-0.591 |
| Benzene | 10.12 | 10.43 | 0.970 | ok | 0.970 | 0.910-1.030 |
| Bromodichloromethane | 11.08 | 10.43 | 1.062 | ok | 1.062 | 1.002-1.122 |
| Bromoform | 15.40 | 14.67 | 1.050 | ok | 1.050 | 0.990-1.110 |
| Bromomethane | 4.85 | 8.62 | 0.563 | ok | 0.563 | 0.503-0.623 |
| Bromoethene | 5.38 | 8.62 | 0.624 | ok | 0.624 | 0.564-0.684 |
| Benzyl Chloride | 17.89 | 14.67 | 1.219 | ok | 1.219 | 1.159-1.279 |
| Carbon disulfide | 6.84 | 8.62 | 0.794 | ok | 0.794 | 0.734-0.854 |
| Chlorobenzene | 14.71 | 14.67 | 1.003 | ok | 1.003 | 0.943-1.063 |
| Chloroethane | 5.02 | 8.62 | 0.582 | ok | 0.583 | 0.523-0.643 |
| Chloroform | 8.73 | 8.62 | 1.013 | ok | 1.014 | 0.954-1.074 |
| Chloromethane | 4.23 | 8.62 | 0.491 | ok | 0.491 | 0.431-0.551 |
| 3-Chloropropene | 6.65 | 8.62 | 0.771 | ok | 0.772 | 0.712-0.832 |
| 2-Chlorotoluene | 16.98 | 14.67 | 1.157 | ok | 1.158 | 1.098-1.218 |
| Carbon tetrachloride | 10.25 | 8.62 | 1.189 | ok | 1.190 | 1.130-1.250 |
| Cyclohexane | 10.36 | 10.43 | 0.993 | ok | 0.993 | 0.933-1.053 |
| 1,1-Dichloroethane | 7.65 | 8.62 | 0.887 | ok | 0.887 | 0.827-0.947 |
| 1,1-Dichloroethylene | 6.42 | 8.62 | 0.745 | ok | 0.745 | 0.685-0.805 |
| 1,2-Dibromoethane | 13.57 | 14.67 | 0.925 | ok | 0.925 | 0.865-0.985 |
| 1,2-Dichloroethane | 9.44 | 8.62 | 1.095 | ok | 1.096 | 1.036-1.156 |
| 1,2-Dichloropropane | 10.89 | 10.43 | 1.044 | ok | 1.044 | 0.984-1.104 |
| 1,4-Dioxane | 11.18 | 10.43 | 1.072 | ok | 1.074 | 1.014-1.134 |
| Dichlorodifluoromethane | 4.07 | 8.62 | 0.472 | ok | 0.472 | 0.412-0.532 |
| Dibromochloromethane | 13.32 | 14.67 | 0.908 | ok | 0.908 | 0.848-0.968 |
| trans-1,2-Dichloroethylene | 7.45 | 8.62 | 0.864 | ok | 0.864 | 0.804-0.924 |
| cis-1,2-Dichloroethylene | 8.45 | 8.62 | 0.980 | ok | 0.981 | 0.921-1.041 |
| cis-1,3-Dichloropropene | 11.93 | 10.43 | 1.144 | ok | 1.144 | 1.084-1.204 |
| m-Dichlorobenzene | 17.90 | 14.67 | 1.220 | ok | 1.220 | 1.160-1.280 |
| o-Dichlorobenzene | 18.37 | 14.67 | 1.252 | ok | 1.252 | 1.192-1.312 |
| p-Dichlorobenzene | 17.98 | 14.67 | 1.226 | ok | 1.226 | 1.166-1.286 |
| trans-1,3-Dichloropropene | 12.44 | 10.43 | 1.193 | ok | 1.193 | 1.133-1.253 |
| Ethanol | 5.22 | 8.62 | 0.606 | ok | 0.608 | 0.548-0.668 |
| Ethylbenzene | 15.09 | 14.67 | 1.029 | ok | 1.029 | 0.969-1.089 |
| Ethyl Acetate | 8.69 | 8.62 | 1.008 | ok | 1.010 | 0.950-1.070 |
| 4-Ethyltoluene | 17.16 | 14.67 | 1.170 | ok | 1.170 | 1.110-1.230 |
| Freon 113 | 6.78 | 8.62 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 4.32 | 8.62 | 0.501 | ok | 0.501 | 0.441-0.561 |
| Heptane | 11.35 | 10.43 | 1.088 | ok | 1.088 | 1.028-1.148 |
| Hexachlorobutadiene | 20.76 | 14.67 | 1.415 | ok | 1.415 | 1.355-1.475 |
| Hexane | 8.63 | 8.62 | 1.001 | ok | 1.001 | 0.941-1.061 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSJ562-IC562 | J10860.D | 07/05/07 10:47 | DFT | 0.5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10861.D | 07/05/07 11:40 | DFT | 0.2 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10863.D | 07/05/07 13:26 | DFT | 40 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10864.D | 07/05/07 14:22 | DFT | 20 | GCMSJ | TO-15 | |
| MSJ562-ICC562 | J10865.D | 07/05/07 15:15 | DFT | 10 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10866.D | 07/05/07 16:08 | DFT | 5 | GCMSJ | TO-15 | Reporting this level |
| MSJ562-IC562 | J10867.D | 07/05/07 16:59 | DFT | 2 | GCMSJ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| 2-Hexanone | 13.18 | 14.67 | 0.898 | ok | 0.899 | 0.839-0.959 |
| Isopropylbenzene | 16.43 | 14.67 | 1.120 | ok | 1.120 | 1.060-1.180 |
| Isopropyl Alcohol | 5.95 | 8.62 | 0.690 | ok | 0.696 | 0.636-0.756 |
| Methylene chloride | 6.54 | 8.62 | 0.759 | ok | 0.759 | 0.699-0.819 |
| Methyl ethyl ketone | 8.07 | 8.62 | 0.936 | ok | 0.939 | 0.879-0.999 |
| Methyl Isobutyl Ketone | 12.00 | 10.43 | 1.151 | ok | 1.151 | 1.091-1.211 |
| Methyl Tert Butyl Ether | 7.73 | 8.62 | 0.897 | ok | 0.898 | 0.838-0.958 |
| Nonane | 15.97 | 14.67 | 1.089 | ok | 1.088 | 1.028-1.148 |
| Pentane | 6.13 | 8.62 | 0.711 | ok | 0.711 | 0.651-0.771 |
| Propylene | 4.00 | 8.62 | 0.464 | ok | 0.464 | 0.404-0.524 |
| Styrene | 15.67 | 14.67 | 1.068 | ok | 1.068 | 1.008-1.128 |
| 1,1,1-Trichloroethane | 9.67 | 8.62 | 1.122 | ok | 1.123 | 1.063-1.183 |
| 1,1,2,2-Tetrachloroethane | 15.79 | 14.67 | 1.076 | ok | 1.077 | 1.017-1.137 |
| 1,1,2-Trichloroethane | 12.62 | 10.43 | 1.210 | ok | 1.210 | 1.150-1.270 |
| 1,2,4-Trichlorobenzene | 20.27 | 14.67 | 1.382 | ok | 1.382 | 1.322-1.442 |
| 1,2,4-Trimethylbenzene | 17.72 | 14.67 | 1.208 | ok | 1.208 | 1.148-1.268 |
| 1,3,5-Trimethylbenzene | 17.25 | 14.67 | 1.176 | ok | 1.176 | 1.116-1.236 |
| 2,2,4-Trimethylpentane | 11.12 | 10.43 | 1.066 | ok | 1.066 | 1.006-1.126 |
| Tertiary Butyl Alcohol | 6.56 | 8.62 | 0.761 | ok | 0.767 | 0.707-0.827 |
| Tetrachloroethylene | 14.01 | 14.67 | 0.955 | ok | 0.955 | 0.895-1.015 |
| Tetrahydrofuran | 9.18 | 8.62 | 1.065 | ok | 1.066 | 1.006-1.126 |
| Toluene | 12.88 | 10.43 | 1.235 | ok | 1.235 | 1.175-1.295 |
| Trichloroethylene | 11.11 | 10.43 | 1.065 | ok | 1.065 | 1.005-1.125 |
| Trichlorofluoromethane | 5.79 | 8.62 | 0.672 | ok | 0.671 | 0.611-0.731 |
| Vinyl chloride | 4.45 | 8.62 | 0.516 | ok | 0.516 | 0.456-0.576 |
| Vinyl Acetate | 7.79 | 8.62 | 0.904 | ok | 0.905 | 0.845-0.965 |
| m,p-Xylene | 15.28 | 14.67 | 1.042 | ok | 1.041 | 0.981-1.101 |
| o-Xylene | 15.78 | 14.67 | 1.076 | ok | 1.076 | 1.016-1.136 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+/- 0.33) | Area | | Mean Area | Area Range (+/- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 8.62 | ok | 8.62 | 8.29-8.95 | 308937 | ok | 333675 | 200205-467145 |
| 1,4-Difluorobenzene | 10.43 | ok | 10.43 | 10.10-10.76 | 1344037 | ok | 1414039 | 848423-1979655 |
| Chlorobenzene-D5 | 14.67 | ok | 14.67 | 14.34-15.00 | 1158520 | ok | 1228766 | 737260-1720272 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSJ562-IC562 | J10860.D | 07/05/07 10:47 | DFT | 0.5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10861.D | 07/05/07 11:40 | DFT | 0.2 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10863.D | 07/05/07 13:26 | DFT | 40 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10864.D | 07/05/07 14:22 | DFT | 20 | GCMSJ | TO-15 | |
| MSJ562-ICC562 | J10865.D | 07/05/07 15:15 | DFT | 10 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10866.D | 07/05/07 16:08 | DFT | 5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10867.D | 07/05/07 16:59 | DFT | 2 | GCMSJ | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Acetone | 5.69 | 8.62 | 0.660 | ok | 0.658 | 0.598-0.718 |
| 1,3-Butadiene | 4.58 | 8.62 | 0.531 | ok | 0.531 | 0.471-0.591 |
| Benzene | 10.12 | 10.43 | 0.970 | ok | 0.970 | 0.910-1.030 |
| Bromodichloromethane | 11.08 | 10.43 | 1.062 | ok | 1.062 | 1.002-1.122 |
| Bromoform | 15.39 | 14.67 | 1.049 | ok | 1.050 | 0.990-1.110 |
| Bromomethane | 4.86 | 8.62 | 0.564 | ok | 0.563 | 0.503-0.623 |
| Bromoethene | 5.39 | 8.62 | 0.625 | ok | 0.624 | 0.564-0.684 |
| Benzyl Chloride | 17.89 | 14.67 | 1.219 | ok | 1.219 | 1.159-1.279 |
| Carbon disulfide | 6.85 | 8.62 | 0.795 | ok | 0.794 | 0.734-0.854 |
| Chlorobenzene | 14.71 | 14.67 | 1.003 | ok | 1.003 | 0.943-1.063 |
| Chloroethane | 5.03 | 8.62 | 0.584 | ok | 0.583 | 0.523-0.643 |
| Chloroform | 8.74 | 8.62 | 1.014 | ok | 1.014 | 0.954-1.074 |
| Chloromethane | 4.24 | 8.62 | 0.492 | ok | 0.491 | 0.431-0.551 |
| 3-Chloropropene | 6.66 | 8.62 | 0.773 | ok | 0.772 | 0.712-0.832 |
| 2-Chlorotoluene | 16.98 | 14.67 | 1.157 | ok | 1.158 | 1.098-1.218 |
| Carbon tetrachloride | 10.25 | 8.62 | 1.189 | ok | 1.190 | 1.130-1.250 |
| Cyclohexane | 10.37 | 10.43 | 0.994 | ok | 0.993 | 0.933-1.053 |
| 1,1-Dichloroethane | 7.65 | 8.62 | 0.887 | ok | 0.887 | 0.827-0.947 |
| 1,1-Dichloroethylene | 6.42 | 8.62 | 0.745 | ok | 0.745 | 0.685-0.805 |
| 1,2-Dibromoethane | 13.57 | 14.67 | 0.925 | ok | 0.925 | 0.865-0.985 |
| 1,2-Dichloroethane | 9.45 | 8.62 | 1.096 | ok | 1.096 | 1.036-1.156 |
| 1,2-Dichloropropane | 10.90 | 10.43 | 1.045 | ok | 1.044 | 0.984-1.104 |
| 1,4-Dioxane | 11.22 | 10.43 | 1.076 | ok | 1.074 | 1.014-1.134 |
| Dichlorodifluoromethane | 4.06 | 8.62 | 0.471 | ok | 0.472 | 0.412-0.532 |
| Dibromochloromethane | 13.32 | 14.67 | 0.908 | ok | 0.908 | 0.848-0.968 |
| trans-1,2-Dichloroethylene | 7.45 | 8.62 | 0.864 | ok | 0.864 | 0.804-0.924 |
| cis-1,2-Dichloroethylene | 8.45 | 8.62 | 0.980 | ok | 0.981 | 0.921-1.041 |
| cis-1,3-Dichloropropene | 11.93 | 10.43 | 1.144 | ok | 1.144 | 1.084-1.204 |
| m-Dichlorobenzene | 17.90 | 14.67 | 1.220 | ok | 1.220 | 1.160-1.280 |
| o-Dichlorobenzene | 18.37 | 14.67 | 1.252 | ok | 1.252 | 1.192-1.312 |
| p-Dichlorobenzene | 17.98 | 14.67 | 1.226 | ok | 1.226 | 1.166-1.286 |
| trans-1,3-Dichloropropene | 12.44 | 10.43 | 1.193 | ok | 1.193 | 1.133-1.253 |
| Ethanol | 5.25 | 8.62 | 0.609 | ok | 0.608 | 0.548-0.668 |
| Ethylbenzene | 15.09 | 14.67 | 1.029 | ok | 1.029 | 0.969-1.089 |
| Ethyl Acetate | 8.71 | 8.62 | 1.010 | ok | 1.010 | 0.950-1.070 |
| 4-Ethyltoluene | 17.16 | 14.67 | 1.170 | ok | 1.170 | 1.110-1.230 |
| Freon 113 | 6.79 | 8.62 | 0.788 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 4.32 | 8.62 | 0.501 | ok | 0.501 | 0.441-0.561 |
| Heptane | 11.36 | 10.43 | 1.089 | ok | 1.088 | 1.028-1.148 |
| Hexane | 8.63 | 8.62 | 1.001 | ok | 1.001 | 0.941-1.061 |
| 2-Hexanone | 13.19 | 14.67 | 0.899 | ok | 0.899 | 0.839-0.959 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSJ562-IC562 | J10860.D | 07/05/07 10:47 | DFT | 0.5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10861.D | 07/05/07 11:40 | DFT | 0.2 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10863.D | 07/05/07 13:26 | DFT | 40 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10864.D | 07/05/07 14:22 | DFT | 20 | GCMSJ | TO-15 | |
| MSJ562-ICC562 | J10865.D | 07/05/07 15:15 | DFT | 10 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10866.D | 07/05/07 16:08 | DFT | 5 | GCMSJ | TO-15 | |
| MSJ562-IC562 | J10867.D | 07/05/07 16:59 | DFT | 2 | GCMSJ | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Isopropylbenzene | 16.42 | 14.67 | 1.119 | ok | 1.120 | 1.060-1.180 |
| Isopropyl Alcohol | 5.98 | 8.62 | 0.694 | ok | 0.696 | 0.636-0.756 |
| Methylene chloride | 6.55 | 8.62 | 0.760 | ok | 0.759 | 0.699-0.819 |
| Methyl ethyl ketone | 8.09 | 8.62 | 0.939 | ok | 0.939 | 0.879-0.999 |
| Methyl Isobutyl Ketone | 12.01 | 10.43 | 1.151 | ok | 1.151 | 1.091-1.211 |
| Methyl Tert Butyl Ether | 7.74 | 8.62 | 0.898 | ok | 0.898 | 0.838-0.958 |
| Nonane | 15.97 | 14.67 | 1.089 | ok | 1.088 | 1.028-1.148 |
| Pentane | 6.14 | 8.62 | 0.712 | ok | 0.711 | 0.651-0.771 |
| Propylene | 4.00 | 8.62 | 0.464 | ok | 0.464 | 0.404-0.524 |
| Styrene | 15.67 | 14.67 | 1.068 | ok | 1.068 | 1.008-1.128 |
| 1,1,1-Trichloroethane | 9.67 | 8.62 | 1.122 | ok | 1.123 | 1.063-1.183 |
| 1,1,2,2-Tetrachloroethane | 15.78 | 14.67 | 1.076 | ok | 1.077 | 1.017-1.137 |
| 1,1,2-Trichloroethane | 12.61 | 10.43 | 1.209 | ok | 1.210 | 1.150-1.270 |
| 1,2,4-Trichlorobenzene | 20.28 | 14.67 | 1.382 | ok | 1.382 | 1.322-1.442 |
| 1,2,4-Trimethylbenzene | 17.72 | 14.67 | 1.208 | ok | 1.208 | 1.148-1.268 |
| 1,3,5-Trimethylbenzene | 17.25 | 14.67 | 1.176 | ok | 1.176 | 1.116-1.236 |
| 2,2,4-Trimethylpentane | 11.12 | 10.43 | 1.066 | ok | 1.066 | 1.006-1.126 |
| Tertiary Butyl Alcohol | 6.59 | 8.62 | 0.765 | ok | 0.767 | 0.707-0.827 |
| Tetrachloroethylene | 14.01 | 14.67 | 0.955 | ok | 0.955 | 0.895-1.015 |
| Tetrahydrofuran | 9.21 | 8.62 | 1.068 | ok | 1.066 | 1.006-1.126 |
| Toluene | 12.88 | 10.43 | 1.235 | ok | 1.235 | 1.175-1.295 |
| Trichloroethylene | 11.11 | 10.43 | 1.065 | ok | 1.065 | 1.005-1.125 |
| Trichlorofluoromethane | 5.79 | 8.62 | 0.672 | ok | 0.671 | 0.611-0.731 |
| Vinyl chloride | 4.45 | 8.62 | 0.516 | ok | 0.516 | 0.456-0.576 |
| Vinyl Acetate | 7.80 | 8.62 | 0.905 | ok | 0.905 | 0.845-0.965 |
| m,p-Xylene | 15.28 | 14.67 | 1.042 | ok | 1.041 | 0.981-1.101 |
| o-Xylene | 15.78 | 14.67 | 1.076 | ok | 1.076 | 1.016-1.136 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+/- 0.33) | Area | | Mean Area | Area Range (+/- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 8.62 | ok | 8.62 | 8.29-8.95 | 330127 | ok | 333675 | 200205-467145 |
| 1,4-Difluorobenzene | 10.43 | ok | 10.43 | 10.10-10.76 | 1414347 | ok | 1414039 | 848423-1979655 |
| Chlorobenzene-D5 | 14.67 | ok | 14.67 | 14.34-15.00 | 1160504 | ok | 1228766 | 737260-1720272 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ214-IC214 | Q3977.D | 07/16/07 16:53 | DFT | 40 | GCMSQ | TO-15 | Reporting this level |
| MSQ214-IC214 | Q3978.D | 07/16/07 17:36 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ214-ICC214 | Q3979.D | 07/16/07 18:18 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3980.D | 07/16/07 19:01 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3981.D | 07/16/07 19:44 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3982.D | 07/16/07 20:26 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3983.D | 07/16/07 21:09 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Acetone | 5.59 | 8.63 | 0.648 | ok | 0.649 | 0.589-0.709 |
| 1,3-Butadiene | 4.56 | 8.63 | 0.528 | ok | 0.528 | 0.468-0.588 |
| Benzene | 10.15 | 10.46 | 0.970 | ok | 0.970 | 0.910-1.030 |
| Bromodichloromethane | 11.11 | 10.46 | 1.062 | ok | 1.062 | 1.002-1.122 |
| Bromoform | 15.43 | 14.71 | 1.049 | ok | 1.049 | 0.989-1.109 |
| Bromomethane | 4.84 | 8.63 | 0.561 | ok | 0.560 | 0.500-0.620 |
| Bromoethene | 5.37 | 8.63 | 0.622 | ok | 0.622 | 0.562-0.682 |
| Benzyl Chloride | 17.92 | 14.71 | 1.218 | ok | 1.219 | 1.159-1.279 |
| Carbon disulfide | 6.86 | 8.63 | 0.795 | ok | 0.795 | 0.735-0.855 |
| Chlorobenzene | 14.75 | 14.71 | 1.003 | ok | 1.003 | 0.943-1.063 |
| Chloroethane | 5.01 | 8.63 | 0.581 | ok | 0.580 | 0.520-0.640 |
| Chloroform | 8.76 | 8.63 | 1.015 | ok | 1.014 | 0.954-1.074 |
| Chloromethane | 4.20 | 8.63 | 0.487 | ok | 0.486 | 0.426-0.546 |
| 3-Chloropropene | 6.66 | 8.63 | 0.772 | ok | 0.772 | 0.712-0.832 |
| 2-Chlorotoluene | 17.02 | 14.71 | 1.157 | ok | 1.158 | 1.098-1.218 |
| Carbon tetrachloride | 10.29 | 8.63 | 1.192 | ok | 1.192 | 1.132-1.252 |
| Cyclohexane | 10.41 | 10.46 | 0.995 | ok | 0.996 | 0.936-1.056 |
| 1,1-Dichloroethane | 7.67 | 8.63 | 0.889 | ok | 0.888 | 0.828-0.948 |
| 1,1-Dichloroethylene | 6.43 | 8.63 | 0.745 | ok | 0.744 | 0.684-0.804 |
| 1,2-Dibromoethane | 13.60 | 14.71 | 0.925 | ok | 0.925 | 0.865-0.985 |
| 1,2-Dichloroethane | 9.46 | 8.63 | 1.096 | ok | 1.096 | 1.036-1.156 |
| 1,2-Dichloropropane | 10.93 | 10.46 | 1.045 | ok | 1.044 | 0.984-1.104 |
| 1,4-Dioxane | 11.13 | 10.46 | 1.064 | ok | 1.065 | 1.005-1.125 |
| Dichlorodifluoromethane | 4.03 | 8.63 | 0.467 | ok | 0.468 | 0.408-0.528 |
| Dibromochloromethane | 13.35 | 14.71 | 0.908 | ok | 0.908 | 0.848-0.968 |
| trans-1,2-Dichloroethylene | 7.47 | 8.63 | 0.866 | ok | 0.865 | 0.805-0.925 |
| cis-1,2-Dichloroethylene | 8.47 | 8.63 | 0.981 | ok | 0.981 | 0.921-1.041 |
| cis-1,3-Dichloropropene | 11.96 | 10.46 | 1.143 | ok | 1.144 | 1.084-1.204 |
| m-Dichlorobenzene | 17.94 | 14.71 | 1.220 | ok | 1.220 | 1.160-1.280 |
| o-Dichlorobenzene | 18.40 | 14.71 | 1.251 | ok | 1.251 | 1.191-1.311 |
| p-Dichlorobenzene | 18.02 | 14.71 | 1.225 | ok | 1.225 | 1.165-1.285 |
| trans-1,3-Dichloropropene | 12.47 | 10.46 | 1.192 | ok | 1.192 | 1.132-1.252 |
| Ethanol | 5.10 | 8.63 | 0.591 | ok | 0.591 | 0.531-0.651 |
| Ethylbenzene | 15.13 | 14.71 | 1.029 | ok | 1.029 | 0.969-1.089 |
| Ethyl Acetate | 8.66 | 8.63 | 1.003 | ok | 1.004 | 0.944-1.064 |
| 4-Ethyltoluene | 17.21 | 14.71 | 1.170 | ok | 1.171 | 1.111-1.231 |
| Freon 113 | 6.80 | 8.63 | 0.788 | ok | 0.788 | 0.728-0.848 |
| Freon 114 | 4.30 | 8.63 | 0.498 | ok | 0.498 | 0.438-0.558 |
| Heptane | 11.41 | 10.46 | 1.091 | ok | 1.091 | 1.031-1.151 |
| Hexachlorobutadiene | 20.80 | 14.71 | 1.414 | ok | 1.415 | 1.355-1.475 |
| Hexane | 8.67 | 8.63 | 1.005 | ok | 1.004 | 0.944-1.064 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ214-IC214 | Q3977.D | 07/16/07 16:53 | DFT | 40 | GCMSQ | TO-15 | Reporting this level |
| MSQ214-IC214 | Q3978.D | 07/16/07 17:36 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ214-ICC214 | Q3979.D | 07/16/07 18:18 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3980.D | 07/16/07 19:01 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3981.D | 07/16/07 19:44 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3982.D | 07/16/07 20:26 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3983.D | 07/16/07 21:09 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| 2-Hexanone | 13.15 | 14.71 | 0.894 | ok | 0.894 | 0.834-0.954 |
| Isopropylbenzene | 16.47 | 14.71 | 1.120 | ok | 1.120 | 1.060-1.180 |
| Isopropyl Alcohol | 5.83 | 8.63 | 0.676 | ok | 0.676 | 0.616-0.736 |
| Methylene chloride | 6.54 | 8.63 | 0.758 | ok | 0.758 | 0.698-0.818 |
| Methyl ethyl ketone | 8.03 | 8.63 | 0.930 | ok | 0.931 | 0.871-0.991 |
| Methyl Isobutyl Ketone | 11.98 | 10.46 | 1.145 | ok | 1.146 | 1.086-1.206 |
| Methyl Tert Butyl Ether | 7.71 | 8.63 | 0.893 | ok | 0.894 | 0.834-0.954 |
| Nonane | 16.03 | 14.71 | 1.090 | ok | 1.090 | 1.030-1.150 |
| Pentane | 6.14 | 8.63 | 0.711 | ok | 0.712 | 0.652-0.772 |
| Propylene | 3.97 | 8.63 | 0.460 | ok | 0.460 | 0.400-0.520 |
| Styrene | 15.71 | 14.71 | 1.068 | ok | 1.068 | 1.008-1.128 |
| 1,1,1-Trichloroethane | 9.71 | 8.63 | 1.125 | ok | 1.125 | 1.065-1.185 |
| 1,1,2,2-Tetrachloroethane | 15.81 | 14.71 | 1.075 | ok | 1.075 | 1.015-1.135 |
| 1,1,2-Trichloroethane | 12.65 | 10.46 | 1.209 | ok | 1.209 | 1.149-1.269 |
| 1,2,4-Trichlorobenzene | 20.31 | 14.71 | 1.381 | ok | 1.381 | 1.321-1.441 |
| 1,2,4-Trimethylbenzene | 17.76 | 14.71 | 1.207 | ok | 1.208 | 1.148-1.268 |
| 1,3,5-Trimethylbenzene | 17.30 | 14.71 | 1.176 | ok | 1.176 | 1.116-1.236 |
| 2,2,4-Trimethylpentane | 11.17 | 10.46 | 1.068 | ok | 1.068 | 1.008-1.128 |
| Tertiary Butyl Alcohol | 6.43 | 8.63 | 0.745 | ok | 0.746 | 0.686-0.806 |
| Tetrachloroethylene | 14.06 | 14.71 | 0.956 | ok | 0.956 | 0.896-1.016 |
| Tetrahydrofuran | 9.14 | 8.63 | 1.059 | ok | 1.060 | 1.000-1.120 |
| Toluene | 12.93 | 10.46 | 1.236 | ok | 1.235 | 1.175-1.295 |
| Trichloroethylene | 11.15 | 10.46 | 1.066 | ok | 1.066 | 1.006-1.126 |
| Trichlorofluoromethane | 5.79 | 8.63 | 0.671 | ok | 0.671 | 0.611-0.731 |
| Vinyl chloride | 4.42 | 8.63 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Vinyl Acetate | 7.79 | 8.63 | 0.903 | ok | 0.903 | 0.843-0.963 |
| m,p-Xylene | 15.33 | 14.71 | 1.042 | ok | 1.042 | 0.982-1.102 |
| o-Xylene | 15.83 | 14.71 | 1.076 | ok | 1.076 | 1.016-1.136 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+/- 0.33) | Area | | Mean Area | Area Range (+/- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 8.63 | ok | 8.63 | 8.30-8.96 | 209689 | ok | 206550 | 123930-289170 |
| 1,4-Difluorobenzene | 10.46 | ok | 10.46 | 10.13-10.79 | 900241 | ok | 933706 | 560224-1307188 |
| Chlorobenzene-D5 | 14.71 | ok | 14.70 | 14.37-15.03 | 823235 | ok | 816411 | 489847-1142975 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ214-IC214 | Q3977.D | 07/16/07 16:53 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3978.D | 07/16/07 17:36 | DFT | 20 | GCMSQ | TO-15 | Reporting this level |
| MSQ214-ICC214 | Q3979.D | 07/16/07 18:18 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3980.D | 07/16/07 19:01 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3981.D | 07/16/07 19:44 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3982.D | 07/16/07 20:26 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3983.D | 07/16/07 21:09 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Acetone | 5.59 | 8.63 | 0.648 | ok | 0.649 | 0.589-0.709 |
| 1,3-Butadiene | 4.56 | 8.63 | 0.528 | ok | 0.528 | 0.468-0.588 |
| Benzene | 10.15 | 10.46 | 0.970 | ok | 0.970 | 0.910-1.030 |
| Bromodichloromethane | 11.11 | 10.46 | 1.062 | ok | 1.062 | 1.002-1.122 |
| Bromoform | 15.43 | 14.70 | 1.050 | ok | 1.049 | 0.989-1.109 |
| Bromomethane | 4.83 | 8.63 | 0.560 | ok | 0.560 | 0.500-0.620 |
| Bromoethene | 5.37 | 8.63 | 0.622 | ok | 0.622 | 0.562-0.682 |
| Benzyl Chloride | 17.92 | 14.70 | 1.219 | ok | 1.219 | 1.159-1.279 |
| Carbon disulfide | 6.86 | 8.63 | 0.795 | ok | 0.795 | 0.735-0.855 |
| Chlorobenzene | 14.75 | 14.70 | 1.003 | ok | 1.003 | 0.943-1.063 |
| Chloroethane | 5.01 | 8.63 | 0.581 | ok | 0.580 | 0.520-0.640 |
| Chloroform | 8.75 | 8.63 | 1.014 | ok | 1.014 | 0.954-1.074 |
| Chloromethane | 4.20 | 8.63 | 0.487 | ok | 0.486 | 0.426-0.546 |
| 3-Chloropropene | 6.66 | 8.63 | 0.772 | ok | 0.772 | 0.712-0.832 |
| 2-Chlorotoluene | 17.02 | 14.70 | 1.158 | ok | 1.158 | 1.098-1.218 |
| Carbon tetrachloride | 10.29 | 8.63 | 1.192 | ok | 1.192 | 1.132-1.252 |
| Cyclohexane | 10.41 | 10.46 | 0.995 | ok | 0.996 | 0.936-1.056 |
| 1,1-Dichloroethane | 7.66 | 8.63 | 0.888 | ok | 0.888 | 0.828-0.948 |
| 1,1-Dichloroethylene | 6.42 | 8.63 | 0.744 | ok | 0.744 | 0.684-0.804 |
| 1,2-Dibromoethane | 13.60 | 14.70 | 0.925 | ok | 0.925 | 0.865-0.985 |
| 1,2-Dichloroethane | 9.46 | 8.63 | 1.096 | ok | 1.096 | 1.036-1.156 |
| 1,2-Dichloropropane | 10.92 | 10.46 | 1.044 | ok | 1.044 | 0.984-1.104 |
| 1,4-Dioxane | 11.13 | 10.46 | 1.064 | ok | 1.065 | 1.005-1.125 |
| Dichlorodifluoromethane | 4.03 | 8.63 | 0.467 | ok | 0.468 | 0.408-0.528 |
| Dibromochloromethane | 13.35 | 14.70 | 0.908 | ok | 0.908 | 0.848-0.968 |
| trans-1,2-Dichloroethylene | 7.47 | 8.63 | 0.866 | ok | 0.865 | 0.805-0.925 |
| cis-1,2-Dichloroethylene | 8.47 | 8.63 | 0.981 | ok | 0.981 | 0.921-1.041 |
| cis-1,3-Dichloropropene | 11.96 | 10.46 | 1.143 | ok | 1.144 | 1.084-1.204 |
| m-Dichlorobenzene | 17.94 | 14.70 | 1.220 | ok | 1.220 | 1.160-1.280 |
| o-Dichlorobenzene | 18.40 | 14.70 | 1.252 | ok | 1.251 | 1.191-1.311 |
| p-Dichlorobenzene | 18.01 | 14.70 | 1.225 | ok | 1.225 | 1.165-1.285 |
| trans-1,3-Dichloropropene | 12.46 | 10.46 | 1.191 | ok | 1.192 | 1.132-1.252 |
| Ethanol | 5.10 | 8.63 | 0.591 | ok | 0.591 | 0.531-0.651 |
| Ethylbenzene | 15.13 | 14.70 | 1.029 | ok | 1.029 | 0.969-1.089 |
| Ethyl Acetate | 8.67 | 8.63 | 1.005 | ok | 1.004 | 0.944-1.064 |
| 4-Ethyltoluene | 17.21 | 14.70 | 1.171 | ok | 1.171 | 1.111-1.231 |
| Freon 113 | 6.80 | 8.63 | 0.788 | ok | 0.788 | 0.728-0.848 |
| Freon 114 | 4.30 | 8.63 | 0.498 | ok | 0.498 | 0.438-0.558 |
| Heptane | 11.41 | 10.46 | 1.091 | ok | 1.091 | 1.031-1.151 |
| Hexachlorobutadiene | 20.80 | 14.70 | 1.415 | ok | 1.415 | 1.355-1.475 |
| Hexane | 8.67 | 8.63 | 1.005 | ok | 1.004 | 0.944-1.064 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ214-IC214 | Q3977.D | 07/16/07 16:53 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3978.D | 07/16/07 17:36 | DFT | 20 | GCMSQ | TO-15 | Reporting this level |
| MSQ214-ICC214 | Q3979.D | 07/16/07 18:18 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3980.D | 07/16/07 19:01 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3981.D | 07/16/07 19:44 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3982.D | 07/16/07 20:26 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3983.D | 07/16/07 21:09 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| 2-Hexanone | 13.14 | 14.70 | 0.894 | ok | 0.894 | 0.834-0.954 |
| Isopropylbenzene | 16.47 | 14.70 | 1.120 | ok | 1.120 | 1.060-1.180 |
| Isopropyl Alcohol | 5.82 | 8.63 | 0.674 | ok | 0.676 | 0.616-0.736 |
| Methylene chloride | 6.54 | 8.63 | 0.758 | ok | 0.758 | 0.698-0.818 |
| Methyl ethyl ketone | 8.03 | 8.63 | 0.930 | ok | 0.931 | 0.871-0.991 |
| Methyl Isobutyl Ketone | 11.98 | 10.46 | 1.145 | ok | 1.146 | 1.086-1.206 |
| Methyl Tert Butyl Ether | 7.71 | 8.63 | 0.893 | ok | 0.894 | 0.834-0.954 |
| Nonane | 16.03 | 14.70 | 1.090 | ok | 1.090 | 1.030-1.150 |
| Pentane | 6.14 | 8.63 | 0.711 | ok | 0.712 | 0.652-0.772 |
| Propylene | 3.97 | 8.63 | 0.460 | ok | 0.460 | 0.400-0.520 |
| Styrene | 15.71 | 14.70 | 1.069 | ok | 1.068 | 1.008-1.128 |
| 1,1,1-Trichloroethane | 9.71 | 8.63 | 1.125 | ok | 1.125 | 1.065-1.185 |
| 1,1,2,2-Tetrachloroethane | 15.81 | 14.70 | 1.076 | ok | 1.075 | 1.015-1.135 |
| 1,1,2-Trichloroethane | 12.64 | 10.46 | 1.208 | ok | 1.209 | 1.149-1.269 |
| 1,2,4-Trichlorobenzene | 20.31 | 14.70 | 1.382 | ok | 1.381 | 1.321-1.441 |
| 1,2,4-Trimethylbenzene | 17.76 | 14.70 | 1.208 | ok | 1.208 | 1.148-1.268 |
| 1,3,5-Trimethylbenzene | 17.29 | 14.70 | 1.176 | ok | 1.176 | 1.116-1.236 |
| 2,2,4-Trimethylpentane | 11.17 | 10.46 | 1.068 | ok | 1.068 | 1.008-1.128 |
| Tertiary Butyl Alcohol | 6.43 | 8.63 | 0.745 | ok | 0.746 | 0.686-0.806 |
| Tetrachloroethylene | 14.06 | 14.70 | 0.956 | ok | 0.956 | 0.896-1.016 |
| Tetrahydrofuran | 9.14 | 8.63 | 1.059 | ok | 1.060 | 1.000-1.120 |
| Toluene | 12.92 | 10.46 | 1.235 | ok | 1.235 | 1.175-1.295 |
| Trichloroethylene | 11.14 | 10.46 | 1.065 | ok | 1.066 | 1.006-1.126 |
| Trichlorofluoromethane | 5.79 | 8.63 | 0.671 | ok | 0.671 | 0.611-0.731 |
| Vinyl chloride | 4.42 | 8.63 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Vinyl Acetate | 7.79 | 8.63 | 0.903 | ok | 0.903 | 0.843-0.963 |
| m,p-Xylene | 15.32 | 14.70 | 1.042 | ok | 1.042 | 0.982-1.102 |
| o-Xylene | 15.82 | 14.70 | 1.076 | ok | 1.076 | 1.016-1.136 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+/- 0.33) | Area | | Mean Area | Area Range (+/- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 8.63 | ok | 8.63 | 8.30-8.96 | 221510 | ok | 206550 | 123930-289170 |
| 1,4-Difluorobenzene | 10.46 | ok | 10.46 | 10.13-10.79 | 1017396 | ok | 933706 | 560224-1307188 |
| Chlorobenzene-D5 | 14.70 | ok | 14.70 | 14.37-15.03 | 906135 | ok | 816411 | 489847-1142975 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ214-IC214 | Q3977.D | 07/16/07 16:53 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3978.D | 07/16/07 17:36 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ214-ICC214 | Q3979.D | 07/16/07 18:18 | DFT | 10 | GCMSQ | TO-15 | Reporting this level |
| MSQ214-IC214 | Q3980.D | 07/16/07 19:01 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3981.D | 07/16/07 19:44 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3982.D | 07/16/07 20:26 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3983.D | 07/16/07 21:09 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Acetone | 5.60 | 8.63 | 0.649 | ok | 0.649 | 0.589-0.709 |
| 1,3-Butadiene | 4.56 | 8.63 | 0.528 | ok | 0.528 | 0.468-0.588 |
| Benzene | 10.15 | 10.46 | 0.970 | ok | 0.970 | 0.910-1.030 |
| Bromodichloromethane | 11.11 | 10.46 | 1.062 | ok | 1.062 | 1.002-1.122 |
| Bromoform | 15.42 | 14.71 | 1.048 | ok | 1.049 | 0.989-1.109 |
| Bromomethane | 4.83 | 8.63 | 0.560 | ok | 0.560 | 0.500-0.620 |
| Bromoethene | 5.37 | 8.63 | 0.622 | ok | 0.622 | 0.562-0.682 |
| Benzyl Chloride | 17.92 | 14.71 | 1.218 | ok | 1.219 | 1.159-1.279 |
| Carbon disulfide | 6.86 | 8.63 | 0.795 | ok | 0.795 | 0.735-0.855 |
| Chlorobenzene | 14.75 | 14.71 | 1.003 | ok | 1.003 | 0.943-1.063 |
| Chloroethane | 5.01 | 8.63 | 0.581 | ok | 0.580 | 0.520-0.640 |
| Chloroform | 8.75 | 8.63 | 1.014 | ok | 1.014 | 0.954-1.074 |
| Chloromethane | 4.20 | 8.63 | 0.487 | ok | 0.486 | 0.426-0.546 |
| 3-Chloropropene | 6.66 | 8.63 | 0.772 | ok | 0.772 | 0.712-0.832 |
| 2-Chlorotoluene | 17.02 | 14.71 | 1.157 | ok | 1.158 | 1.098-1.218 |
| Carbon tetrachloride | 10.29 | 8.63 | 1.192 | ok | 1.192 | 1.132-1.252 |
| Cyclohexane | 10.41 | 10.46 | 0.995 | ok | 0.996 | 0.936-1.056 |
| 1,1-Dichloroethane | 7.66 | 8.63 | 0.888 | ok | 0.888 | 0.828-0.948 |
| 1,1-Dichloroethylene | 6.42 | 8.63 | 0.744 | ok | 0.744 | 0.684-0.804 |
| 1,2-Dibromoethane | 13.60 | 14.71 | 0.925 | ok | 0.925 | 0.865-0.985 |
| 1,2-Dichloroethane | 9.46 | 8.63 | 1.096 | ok | 1.096 | 1.036-1.156 |
| 1,2-Dichloropropane | 10.92 | 10.46 | 1.044 | ok | 1.044 | 0.984-1.104 |
| 1,4-Dioxane | 11.14 | 10.46 | 1.065 | ok | 1.065 | 1.005-1.125 |
| Dichlorodifluoromethane | 4.03 | 8.63 | 0.467 | ok | 0.468 | 0.408-0.528 |
| Dibromochloromethane | 13.35 | 14.71 | 0.908 | ok | 0.908 | 0.848-0.968 |
| trans-1,2-Dichloroethylene | 7.47 | 8.63 | 0.866 | ok | 0.865 | 0.805-0.925 |
| cis-1,2-Dichloroethylene | 8.47 | 8.63 | 0.981 | ok | 0.981 | 0.921-1.041 |
| cis-1,3-Dichloropropene | 11.96 | 10.46 | 1.143 | ok | 1.144 | 1.084-1.204 |
| m-Dichlorobenzene | 17.94 | 14.71 | 1.220 | ok | 1.220 | 1.160-1.280 |
| o-Dichlorobenzene | 18.40 | 14.71 | 1.251 | ok | 1.251 | 1.191-1.311 |
| p-Dichlorobenzene | 18.01 | 14.71 | 1.224 | ok | 1.225 | 1.165-1.285 |
| trans-1,3-Dichloropropene | 12.46 | 10.46 | 1.191 | ok | 1.192 | 1.132-1.252 |
| Ethanol | 5.09 | 8.63 | 0.590 | ok | 0.591 | 0.531-0.651 |
| Ethylbenzene | 15.13 | 14.71 | 1.029 | ok | 1.029 | 0.969-1.089 |
| Ethyl Acetate | 8.66 | 8.63 | 1.003 | ok | 1.004 | 0.944-1.064 |
| 4-Ethyltoluene | 17.21 | 14.71 | 1.170 | ok | 1.171 | 1.111-1.231 |
| Freon 113 | 6.80 | 8.63 | 0.788 | ok | 0.788 | 0.728-0.848 |
| Freon 114 | 4.29 | 8.63 | 0.497 | ok | 0.498 | 0.438-0.558 |
| Heptane | 11.41 | 10.46 | 1.091 | ok | 1.091 | 1.031-1.151 |
| Hexachlorobutadiene | 20.80 | 14.71 | 1.414 | ok | 1.415 | 1.355-1.475 |
| Hexane | 8.67 | 8.63 | 1.005 | ok | 1.004 | 0.944-1.064 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ214-IC214 | Q3977.D | 07/16/07 16:53 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3978.D | 07/16/07 17:36 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ214-ICC214 | Q3979.D | 07/16/07 18:18 | DFT | 10 | GCMSQ | TO-15 | Reporting this level |
| MSQ214-IC214 | Q3980.D | 07/16/07 19:01 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3981.D | 07/16/07 19:44 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3982.D | 07/16/07 20:26 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3983.D | 07/16/07 21:09 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| 2-Hexanone | 13.15 | 14.71 | 0.894 | ok | 0.894 | 0.834-0.954 |
| Isopropylbenzene | 16.47 | 14.71 | 1.120 | ok | 1.120 | 1.060-1.180 |
| Isopropyl Alcohol | 5.82 | 8.63 | 0.674 | ok | 0.676 | 0.616-0.736 |
| Methylene chloride | 6.54 | 8.63 | 0.758 | ok | 0.758 | 0.698-0.818 |
| Methyl ethyl ketone | 8.03 | 8.63 | 0.930 | ok | 0.931 | 0.871-0.991 |
| Methyl Isobutyl Ketone | 11.98 | 10.46 | 1.145 | ok | 1.146 | 1.086-1.206 |
| Methyl Tert Butyl Ether | 7.71 | 8.63 | 0.893 | ok | 0.894 | 0.834-0.954 |
| Nonane | 16.03 | 14.71 | 1.090 | ok | 1.090 | 1.030-1.150 |
| Pentane | 6.14 | 8.63 | 0.711 | ok | 0.712 | 0.652-0.772 |
| Propylene | 3.97 | 8.63 | 0.460 | ok | 0.460 | 0.400-0.520 |
| Styrene | 15.70 | 14.71 | 1.067 | ok | 1.068 | 1.008-1.128 |
| 1,1,1-Trichloroethane | 9.71 | 8.63 | 1.125 | ok | 1.125 | 1.065-1.185 |
| 1,1,2,2-Tetrachloroethane | 15.81 | 14.71 | 1.075 | ok | 1.075 | 1.015-1.135 |
| 1,1,2-Trichloroethane | 12.64 | 10.46 | 1.208 | ok | 1.209 | 1.149-1.269 |
| 1,2,4-Trichlorobenzene | 20.31 | 14.71 | 1.381 | ok | 1.381 | 1.321-1.441 |
| 1,2,4-Trimethylbenzene | 17.76 | 14.71 | 1.207 | ok | 1.208 | 1.148-1.268 |
| 1,3,5-Trimethylbenzene | 17.29 | 14.71 | 1.175 | ok | 1.176 | 1.116-1.236 |
| 2,2,4-Trimethylpentane | 11.17 | 10.46 | 1.068 | ok | 1.068 | 1.008-1.128 |
| Tertiary Butyl Alcohol | 6.43 | 8.63 | 0.745 | ok | 0.746 | 0.686-0.806 |
| Tetrachloroethylene | 14.06 | 14.71 | 0.956 | ok | 0.956 | 0.896-1.016 |
| Tetrahydrofuran | 9.14 | 8.63 | 1.059 | ok | 1.060 | 1.000-1.120 |
| Toluene | 12.92 | 10.46 | 1.235 | ok | 1.235 | 1.175-1.295 |
| Trichloroethylene | 11.15 | 10.46 | 1.066 | ok | 1.066 | 1.006-1.126 |
| Trichlorofluoromethane | 5.79 | 8.63 | 0.671 | ok | 0.671 | 0.611-0.731 |
| Vinyl chloride | 4.42 | 8.63 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Vinyl Acetate | 7.79 | 8.63 | 0.903 | ok | 0.903 | 0.843-0.963 |
| m,p-Xylene | 15.33 | 14.71 | 1.042 | ok | 1.042 | 0.982-1.102 |
| o-Xylene | 15.82 | 14.71 | 1.075 | ok | 1.076 | 1.016-1.136 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+/- 0.33) | Area | | Mean Area | Area Range (+/- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 8.63 | ok | 8.63 | 8.30-8.96 | 220494 | ok | 206550 | 123930-289170 |
| 1,4-Difluorobenzene | 10.46 | ok | 10.46 | 10.13-10.79 | 1001449 | ok | 933706 | 560224-1307188 |
| Chlorobenzene-D5 | 14.71 | ok | 14.70 | 14.37-15.03 | 880366 | ok | 816411 | 489847-1142975 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ214-IC214 | Q3977.D | 07/16/07 16:53 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3978.D | 07/16/07 17:36 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ214-ICC214 | Q3979.D | 07/16/07 18:18 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3980.D | 07/16/07 19:01 | DFT | 5 | GCMSQ | TO-15 | Reporting this level |
| MSQ214-IC214 | Q3981.D | 07/16/07 19:44 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3982.D | 07/16/07 20:26 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3983.D | 07/16/07 21:09 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Acetone | 5.60 | 8.63 | 0.649 | ok | 0.649 | 0.589-0.709 |
| 1,3-Butadiene | 4.56 | 8.63 | 0.528 | ok | 0.528 | 0.468-0.588 |
| Benzene | 10.15 | 10.46 | 0.970 | ok | 0.970 | 0.910-1.030 |
| Bromodichloromethane | 11.11 | 10.46 | 1.062 | ok | 1.062 | 1.002-1.122 |
| Bromoform | 15.43 | 14.70 | 1.050 | ok | 1.049 | 0.989-1.109 |
| Bromomethane | 4.84 | 8.63 | 0.561 | ok | 0.560 | 0.500-0.620 |
| Bromoethene | 5.37 | 8.63 | 0.622 | ok | 0.622 | 0.562-0.682 |
| Benzyl Chloride | 17.92 | 14.70 | 1.219 | ok | 1.219 | 1.159-1.279 |
| Carbon disulfide | 6.86 | 8.63 | 0.795 | ok | 0.795 | 0.735-0.855 |
| Chlorobenzene | 14.75 | 14.70 | 1.003 | ok | 1.003 | 0.943-1.063 |
| Chloroethane | 5.01 | 8.63 | 0.581 | ok | 0.580 | 0.520-0.640 |
| Chloroform | 8.75 | 8.63 | 1.014 | ok | 1.014 | 0.954-1.074 |
| Chloromethane | 4.19 | 8.63 | 0.486 | ok | 0.486 | 0.426-0.546 |
| 3-Chloropropene | 6.66 | 8.63 | 0.772 | ok | 0.772 | 0.712-0.832 |
| 2-Chlorotoluene | 17.02 | 14.70 | 1.158 | ok | 1.158 | 1.098-1.218 |
| Carbon tetrachloride | 10.29 | 8.63 | 1.192 | ok | 1.192 | 1.132-1.252 |
| Cyclohexane | 10.41 | 10.46 | 0.995 | ok | 0.996 | 0.936-1.056 |
| 1,1-Dichloroethane | 7.67 | 8.63 | 0.889 | ok | 0.888 | 0.828-0.948 |
| 1,1-Dichloroethylene | 6.43 | 8.63 | 0.745 | ok | 0.744 | 0.684-0.804 |
| 1,2-Dibromoethane | 13.60 | 14.70 | 0.925 | ok | 0.925 | 0.865-0.985 |
| 1,2-Dichloroethane | 9.46 | 8.63 | 1.096 | ok | 1.096 | 1.036-1.156 |
| 1,2-Dichloropropane | 10.92 | 10.46 | 1.044 | ok | 1.044 | 0.984-1.104 |
| 1,4-Dioxane | 11.14 | 10.46 | 1.065 | ok | 1.065 | 1.005-1.125 |
| Dichlorodifluoromethane | 4.04 | 8.63 | 0.468 | ok | 0.468 | 0.408-0.528 |
| Dibromochloromethane | 13.35 | 14.70 | 0.908 | ok | 0.908 | 0.848-0.968 |
| trans-1,2-Dichloroethylene | 7.47 | 8.63 | 0.866 | ok | 0.865 | 0.805-0.925 |
| cis-1,2-Dichloroethylene | 8.47 | 8.63 | 0.981 | ok | 0.981 | 0.921-1.041 |
| cis-1,3-Dichloropropene | 11.96 | 10.46 | 1.143 | ok | 1.144 | 1.084-1.204 |
| m-Dichlorobenzene | 17.94 | 14.70 | 1.220 | ok | 1.220 | 1.160-1.280 |
| o-Dichlorobenzene | 18.40 | 14.70 | 1.252 | ok | 1.251 | 1.191-1.311 |
| p-Dichlorobenzene | 18.01 | 14.70 | 1.225 | ok | 1.225 | 1.165-1.285 |
| trans-1,3-Dichloropropene | 12.46 | 10.46 | 1.191 | ok | 1.192 | 1.132-1.252 |
| Ethanol | 5.10 | 8.63 | 0.591 | ok | 0.591 | 0.531-0.651 |
| Ethylbenzene | 15.13 | 14.70 | 1.029 | ok | 1.029 | 0.969-1.089 |
| Ethyl Acetate | 8.66 | 8.63 | 1.003 | ok | 1.004 | 0.944-1.064 |
| 4-Ethyltoluene | 17.21 | 14.70 | 1.171 | ok | 1.171 | 1.111-1.231 |
| Freon 113 | 6.80 | 8.63 | 0.788 | ok | 0.788 | 0.728-0.848 |
| Freon 114 | 4.30 | 8.63 | 0.498 | ok | 0.498 | 0.438-0.558 |
| Heptane | 11.41 | 10.46 | 1.091 | ok | 1.091 | 1.031-1.151 |
| Hexachlorobutadiene | 20.79 | 14.70 | 1.414 | ok | 1.415 | 1.355-1.475 |
| Hexane | 8.67 | 8.63 | 1.005 | ok | 1.004 | 0.944-1.064 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ214-IC214 | Q3977.D | 07/16/07 16:53 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3978.D | 07/16/07 17:36 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ214-ICC214 | Q3979.D | 07/16/07 18:18 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3980.D | 07/16/07 19:01 | DFT | 5 | GCMSQ | TO-15 | Reporting this level |
| MSQ214-IC214 | Q3981.D | 07/16/07 19:44 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3982.D | 07/16/07 20:26 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3983.D | 07/16/07 21:09 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| 2-Hexanone | 13.15 | 14.70 | 0.895 | ok | 0.894 | 0.834-0.954 |
| Isopropylbenzene | 16.47 | 14.70 | 1.120 | ok | 1.120 | 1.060-1.180 |
| Isopropyl Alcohol | 5.83 | 8.63 | 0.676 | ok | 0.676 | 0.616-0.736 |
| Methylene chloride | 6.54 | 8.63 | 0.758 | ok | 0.758 | 0.698-0.818 |
| Methyl ethyl ketone | 8.04 | 8.63 | 0.932 | ok | 0.931 | 0.871-0.991 |
| Methyl Isobutyl Ketone | 11.98 | 10.46 | 1.145 | ok | 1.146 | 1.086-1.206 |
| Methyl Tert Butyl Ether | 7.71 | 8.63 | 0.893 | ok | 0.894 | 0.834-0.954 |
| Nonane | 16.02 | 14.70 | 1.090 | ok | 1.090 | 1.030-1.150 |
| Pentane | 6.14 | 8.63 | 0.711 | ok | 0.712 | 0.652-0.772 |
| Propylene | 3.96 | 8.63 | 0.459 | ok | 0.460 | 0.400-0.520 |
| Styrene | 15.70 | 14.70 | 1.068 | ok | 1.068 | 1.008-1.128 |
| 1,1,1-Trichloroethane | 9.71 | 8.63 | 1.125 | ok | 1.125 | 1.065-1.185 |
| 1,1,2,2-Tetrachloroethane | 15.81 | 14.70 | 1.076 | ok | 1.075 | 1.015-1.135 |
| 1,1,2-Trichloroethane | 12.65 | 10.46 | 1.209 | ok | 1.209 | 1.149-1.269 |
| 1,2,4-Trichlorobenzene | 20.31 | 14.70 | 1.382 | ok | 1.381 | 1.321-1.441 |
| 1,2,4-Trimethylbenzene | 17.76 | 14.70 | 1.208 | ok | 1.208 | 1.148-1.268 |
| 1,3,5-Trimethylbenzene | 17.29 | 14.70 | 1.176 | ok | 1.176 | 1.116-1.236 |
| 2,2,4-Trimethylpentane | 11.17 | 10.46 | 1.068 | ok | 1.068 | 1.008-1.128 |
| Tertiary Butyl Alcohol | 6.44 | 8.63 | 0.746 | ok | 0.746 | 0.686-0.806 |
| Tetrachloroethylene | 14.06 | 14.70 | 0.956 | ok | 0.956 | 0.896-1.016 |
| Tetrahydrofuran | 9.14 | 8.63 | 1.059 | ok | 1.060 | 1.000-1.120 |
| Toluene | 12.93 | 10.46 | 1.236 | ok | 1.235 | 1.175-1.295 |
| Trichloroethylene | 11.14 | 10.46 | 1.065 | ok | 1.066 | 1.006-1.126 |
| Trichlorofluoromethane | 5.79 | 8.63 | 0.671 | ok | 0.671 | 0.611-0.731 |
| Vinyl chloride | 4.42 | 8.63 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Vinyl Acetate | 7.79 | 8.63 | 0.903 | ok | 0.903 | 0.843-0.963 |
| m,p-Xylene | 15.32 | 14.70 | 1.042 | ok | 1.042 | 0.982-1.102 |
| o-Xylene | 15.82 | 14.70 | 1.076 | ok | 1.076 | 1.016-1.136 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+/- 0.33) | Area | | Mean Area | Area Range (+/- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 8.63 | ok | 8.63 | 8.30-8.96 | 205904 | ok | 206550 | 123930-289170 |
| 1,4-Difluorobenzene | 10.46 | ok | 10.46 | 10.13-10.79 | 947064 | ok | 933706 | 560224-1307188 |
| Chlorobenzene-D5 | 14.70 | ok | 14.70 | 14.37-15.03 | 825944 | ok | 816411 | 489847-1142975 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ214-IC214 | Q3977.D | 07/16/07 16:53 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3978.D | 07/16/07 17:36 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ214-ICC214 | Q3979.D | 07/16/07 18:18 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3980.D | 07/16/07 19:01 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3981.D | 07/16/07 19:44 | DFT | 2 | GCMSQ | TO-15 | Reporting this level |
| MSQ214-IC214 | Q3982.D | 07/16/07 20:26 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3983.D | 07/16/07 21:09 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Acetone | 5.61 | 8.63 | 0.650 | ok | 0.649 | 0.589-0.709 |
| 1,3-Butadiene | 4.56 | 8.63 | 0.528 | ok | 0.528 | 0.468-0.588 |
| Benzene | 10.15 | 10.46 | 0.970 | ok | 0.970 | 0.910-1.030 |
| Bromodichloromethane | 11.11 | 10.46 | 1.062 | ok | 1.062 | 1.002-1.122 |
| Bromoform | 15.42 | 14.70 | 1.049 | ok | 1.049 | 0.989-1.109 |
| Bromomethane | 4.84 | 8.63 | 0.561 | ok | 0.560 | 0.500-0.620 |
| Bromoethene | 5.37 | 8.63 | 0.622 | ok | 0.622 | 0.562-0.682 |
| Benzyl Chloride | 17.92 | 14.70 | 1.219 | ok | 1.219 | 1.159-1.279 |
| Carbon disulfide | 6.86 | 8.63 | 0.795 | ok | 0.795 | 0.735-0.855 |
| Chlorobenzene | 14.75 | 14.70 | 1.003 | ok | 1.003 | 0.943-1.063 |
| Chloroethane | 5.01 | 8.63 | 0.581 | ok | 0.580 | 0.520-0.640 |
| Chloroform | 8.75 | 8.63 | 1.014 | ok | 1.014 | 0.954-1.074 |
| Chloromethane | 4.20 | 8.63 | 0.487 | ok | 0.486 | 0.426-0.546 |
| 3-Chloropropene | 6.65 | 8.63 | 0.771 | ok | 0.772 | 0.712-0.832 |
| 2-Chlorotoluene | 17.02 | 14.70 | 1.158 | ok | 1.158 | 1.098-1.218 |
| Carbon tetrachloride | 10.29 | 8.63 | 1.192 | ok | 1.192 | 1.132-1.252 |
| Cyclohexane | 10.42 | 10.46 | 0.996 | ok | 0.996 | 0.936-1.056 |
| 1,1-Dichloroethane | 7.66 | 8.63 | 0.888 | ok | 0.888 | 0.828-0.948 |
| 1,1-Dichloroethylene | 6.42 | 8.63 | 0.744 | ok | 0.744 | 0.684-0.804 |
| 1,2-Dibromoethane | 13.60 | 14.70 | 0.925 | ok | 0.925 | 0.865-0.985 |
| 1,2-Dichloroethane | 9.47 | 8.63 | 1.097 | ok | 1.096 | 1.036-1.156 |
| 1,2-Dichloropropane | 10.93 | 10.46 | 1.045 | ok | 1.044 | 0.984-1.104 |
| 1,4-Dioxane | 11.14 | 10.46 | 1.065 | ok | 1.065 | 1.005-1.125 |
| Dichlorodifluoromethane | 4.04 | 8.63 | 0.468 | ok | 0.468 | 0.408-0.528 |
| Dibromochloromethane | 13.35 | 14.70 | 0.908 | ok | 0.908 | 0.848-0.968 |
| trans-1,2-Dichloroethylene | 7.47 | 8.63 | 0.866 | ok | 0.865 | 0.805-0.925 |
| cis-1,2-Dichloroethylene | 8.47 | 8.63 | 0.981 | ok | 0.981 | 0.921-1.041 |
| cis-1,3-Dichloropropene | 11.96 | 10.46 | 1.143 | ok | 1.144 | 1.084-1.204 |
| m-Dichlorobenzene | 17.94 | 14.70 | 1.220 | ok | 1.220 | 1.160-1.280 |
| o-Dichlorobenzene | 18.40 | 14.70 | 1.252 | ok | 1.251 | 1.191-1.311 |
| p-Dichlorobenzene | 18.01 | 14.70 | 1.225 | ok | 1.225 | 1.165-1.285 |
| trans-1,3-Dichloropropene | 12.47 | 10.46 | 1.192 | ok | 1.192 | 1.132-1.252 |
| Ethanol | 5.10 | 8.63 | 0.591 | ok | 0.591 | 0.531-0.651 |
| Ethylbenzene | 15.13 | 14.70 | 1.029 | ok | 1.029 | 0.969-1.089 |
| Ethyl Acetate | 8.67 | 8.63 | 1.005 | ok | 1.004 | 0.944-1.064 |
| 4-Ethyltoluene | 17.21 | 14.70 | 1.171 | ok | 1.171 | 1.111-1.231 |
| Freon 113 | 6.80 | 8.63 | 0.788 | ok | 0.788 | 0.728-0.848 |
| Freon 114 | 4.30 | 8.63 | 0.498 | ok | 0.498 | 0.438-0.558 |
| Heptane | 11.41 | 10.46 | 1.091 | ok | 1.091 | 1.031-1.151 |
| Hexachlorobutadiene | 20.80 | 14.70 | 1.415 | ok | 1.415 | 1.355-1.475 |
| Hexane | 8.67 | 8.63 | 1.005 | ok | 1.004 | 0.944-1.064 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ214-IC214 | Q3977.D | 07/16/07 16:53 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3978.D | 07/16/07 17:36 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ214-ICC214 | Q3979.D | 07/16/07 18:18 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3980.D | 07/16/07 19:01 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3981.D | 07/16/07 19:44 | DFT | 2 | GCMSQ | TO-15 | Reporting this level |
| MSQ214-IC214 | Q3982.D | 07/16/07 20:26 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3983.D | 07/16/07 21:09 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| 2-Hexanone | 13.15 | 14.70 | 0.895 | ok | 0.894 | 0.834-0.954 |
| Isopropylbenzene | 16.47 | 14.70 | 1.120 | ok | 1.120 | 1.060-1.180 |
| Isopropyl Alcohol | 5.83 | 8.63 | 0.676 | ok | 0.676 | 0.616-0.736 |
| Methylene chloride | 6.54 | 8.63 | 0.758 | ok | 0.758 | 0.698-0.818 |
| Methyl ethyl ketone | 8.04 | 8.63 | 0.932 | ok | 0.931 | 0.871-0.991 |
| Methyl Isobutyl Ketone | 11.99 | 10.46 | 1.146 | ok | 1.146 | 1.086-1.206 |
| Methyl Tert Butyl Ether | 7.72 | 8.63 | 0.895 | ok | 0.894 | 0.834-0.954 |
| Nonane | 16.02 | 14.70 | 1.090 | ok | 1.090 | 1.030-1.150 |
| Pentane | 6.14 | 8.63 | 0.711 | ok | 0.712 | 0.652-0.772 |
| Propylene | 3.97 | 8.63 | 0.460 | ok | 0.460 | 0.400-0.520 |
| Styrene | 15.70 | 14.70 | 1.068 | ok | 1.068 | 1.008-1.128 |
| 1,1,1-Trichloroethane | 9.71 | 8.63 | 1.125 | ok | 1.125 | 1.065-1.185 |
| 1,1,2,2-Tetrachloroethane | 15.81 | 14.70 | 1.076 | ok | 1.075 | 1.015-1.135 |
| 1,1,2-Trichloroethane | 12.65 | 10.46 | 1.209 | ok | 1.209 | 1.149-1.269 |
| 1,2,4-Trichlorobenzene | 20.31 | 14.70 | 1.382 | ok | 1.381 | 1.321-1.441 |
| 1,2,4-Trimethylbenzene | 17.76 | 14.70 | 1.208 | ok | 1.208 | 1.148-1.268 |
| 1,3,5-Trimethylbenzene | 17.29 | 14.70 | 1.176 | ok | 1.176 | 1.116-1.236 |
| 2,2,4-Trimethylpentane | 11.17 | 10.46 | 1.068 | ok | 1.068 | 1.008-1.128 |
| Tertiary Butyl Alcohol | 6.45 | 8.63 | 0.747 | ok | 0.746 | 0.686-0.806 |
| Tetrachloroethylene | 14.06 | 14.70 | 0.956 | ok | 0.956 | 0.896-1.016 |
| Tetrahydrofuran | 9.15 | 8.63 | 1.060 | ok | 1.060 | 1.000-1.120 |
| Toluene | 12.92 | 10.46 | 1.235 | ok | 1.235 | 1.175-1.295 |
| Trichloroethylene | 11.15 | 10.46 | 1.066 | ok | 1.066 | 1.006-1.126 |
| Trichlorofluoromethane | 5.79 | 8.63 | 0.671 | ok | 0.671 | 0.611-0.731 |
| Vinyl chloride | 4.42 | 8.63 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Vinyl Acetate | 7.79 | 8.63 | 0.903 | ok | 0.903 | 0.843-0.963 |
| m,p-Xylene | 15.30 | 14.70 | 1.041 | ok | 1.042 | 0.982-1.102 |
| o-Xylene | 15.83 | 14.70 | 1.077 | ok | 1.076 | 1.016-1.136 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+/- 0.33) | Area | | Mean Area | Area Range (+/- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 8.63 | ok | 8.63 | 8.30-8.96 | 202445 | ok | 206550 | 123930-289170 |
| 1,4-Difluorobenzene | 10.46 | ok | 10.46 | 10.13-10.79 | 918040 | ok | 933706 | 560224-1307188 |
| Chlorobenzene-D5 | 14.70 | ok | 14.70 | 14.37-15.03 | 788203 | ok | 816411 | 489847-1142975 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ214-IC214 | Q3977.D | 07/16/07 16:53 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3978.D | 07/16/07 17:36 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ214-ICC214 | Q3979.D | 07/16/07 18:18 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3980.D | 07/16/07 19:01 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3981.D | 07/16/07 19:44 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3982.D | 07/16/07 20:26 | DFT | 0.5 | GCMSQ | TO-15 | Reporting this level |
| MSQ214-IC214 | Q3983.D | 07/16/07 21:09 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Acetone | 5.61 | 8.64 | 0.649 | ok | 0.649 | 0.589-0.709 |
| 1,3-Butadiene | 4.55 | 8.64 | 0.527 | ok | 0.528 | 0.468-0.588 |
| Benzene | 10.15 | 10.46 | 0.970 | ok | 0.970 | 0.910-1.030 |
| Bromodichloromethane | 11.10 | 10.46 | 1.061 | ok | 1.062 | 1.002-1.122 |
| Bromoform | 15.42 | 14.70 | 1.049 | ok | 1.049 | 0.989-1.109 |
| Bromomethane | 4.83 | 8.64 | 0.559 | ok | 0.560 | 0.500-0.620 |
| Bromoethene | 5.37 | 8.64 | 0.622 | ok | 0.622 | 0.562-0.682 |
| Benzyl Chloride | 17.92 | 14.70 | 1.219 | ok | 1.219 | 1.159-1.279 |
| Carbon disulfide | 6.86 | 8.64 | 0.794 | ok | 0.795 | 0.735-0.855 |
| Chlorobenzene | 14.75 | 14.70 | 1.003 | ok | 1.003 | 0.943-1.063 |
| Chloroethane | 5.01 | 8.64 | 0.580 | ok | 0.580 | 0.520-0.640 |
| Chloroform | 8.75 | 8.64 | 1.013 | ok | 1.014 | 0.954-1.074 |
| Chloromethane | 4.19 | 8.64 | 0.485 | ok | 0.486 | 0.426-0.546 |
| 3-Chloropropene | 6.66 | 8.64 | 0.771 | ok | 0.772 | 0.712-0.832 |
| 2-Chlorotoluene | 17.02 | 14.70 | 1.158 | ok | 1.158 | 1.098-1.218 |
| Carbon tetrachloride | 10.29 | 8.64 | 1.191 | ok | 1.192 | 1.132-1.252 |
| Cyclohexane | 10.42 | 10.46 | 0.996 | ok | 0.996 | 0.936-1.056 |
| 1,1-Dichloroethane | 7.67 | 8.64 | 0.888 | ok | 0.888 | 0.828-0.948 |
| 1,1-Dichloroethylene | 6.43 | 8.64 | 0.744 | ok | 0.744 | 0.684-0.804 |
| 1,2-Dibromoethane | 13.60 | 14.70 | 0.925 | ok | 0.925 | 0.865-0.985 |
| 1,2-Dichloroethane | 9.46 | 8.64 | 1.095 | ok | 1.096 | 1.036-1.156 |
| 1,2-Dichloropropane | 10.92 | 10.46 | 1.044 | ok | 1.044 | 0.984-1.104 |
| 1,4-Dioxane | 11.16 | 10.46 | 1.067 | ok | 1.065 | 1.005-1.125 |
| Dichlorodifluoromethane | 4.04 | 8.64 | 0.468 | ok | 0.468 | 0.408-0.528 |
| Dibromochloromethane | 13.35 | 14.70 | 0.908 | ok | 0.908 | 0.848-0.968 |
| trans-1,2-Dichloroethylene | 7.47 | 8.64 | 0.865 | ok | 0.865 | 0.805-0.925 |
| cis-1,2-Dichloroethylene | 8.47 | 8.64 | 0.980 | ok | 0.981 | 0.921-1.041 |
| cis-1,3-Dichloropropene | 11.97 | 10.46 | 1.144 | ok | 1.144 | 1.084-1.204 |
| m-Dichlorobenzene | 17.94 | 14.70 | 1.220 | ok | 1.220 | 1.160-1.280 |
| o-Dichlorobenzene | 18.40 | 14.70 | 1.252 | ok | 1.251 | 1.191-1.311 |
| p-Dichlorobenzene | 18.01 | 14.70 | 1.225 | ok | 1.225 | 1.165-1.285 |
| trans-1,3-Dichloropropene | 12.46 | 10.46 | 1.191 | ok | 1.192 | 1.132-1.252 |
| Ethanol | 5.12 | 8.64 | 0.593 | ok | 0.591 | 0.531-0.651 |
| Ethylbenzene | 15.13 | 14.70 | 1.029 | ok | 1.029 | 0.969-1.089 |
| Ethyl Acetate | 8.68 | 8.64 | 1.005 | ok | 1.004 | 0.944-1.064 |
| 4-Ethyltoluene | 17.21 | 14.70 | 1.171 | ok | 1.171 | 1.111-1.231 |
| Freon 113 | 6.80 | 8.64 | 0.787 | ok | 0.788 | 0.728-0.848 |
| Freon 114 | 4.30 | 8.64 | 0.498 | ok | 0.498 | 0.438-0.558 |
| Heptane | 11.40 | 10.46 | 1.090 | ok | 1.091 | 1.031-1.151 |
| Hexachlorobutadiene | 20.80 | 14.70 | 1.415 | ok | 1.415 | 1.355-1.475 |
| Hexane | 8.67 | 8.64 | 1.003 | ok | 1.004 | 0.944-1.064 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ214-IC214 | Q3977.D | 07/16/07 16:53 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3978.D | 07/16/07 17:36 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ214-ICC214 | Q3979.D | 07/16/07 18:18 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3980.D | 07/16/07 19:01 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3981.D | 07/16/07 19:44 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3982.D | 07/16/07 20:26 | DFT | 0.5 | GCMSQ | TO-15 | Reporting this level |
| MSQ214-IC214 | Q3983.D | 07/16/07 21:09 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| 2-Hexanone | 13.16 | 14.70 | 0.895 | ok | 0.894 | 0.834-0.954 |
| Isopropylbenzene | 16.47 | 14.70 | 1.120 | ok | 1.120 | 1.060-1.180 |
| Isopropyl Alcohol | 5.85 | 8.64 | 0.677 | ok | 0.676 | 0.616-0.736 |
| Methylene chloride | 6.53 | 8.64 | 0.756 | ok | 0.758 | 0.698-0.818 |
| Methyl ethyl ketone | 8.05 | 8.64 | 0.932 | ok | 0.931 | 0.871-0.991 |
| Methyl Isobutyl Ketone | 11.99 | 10.46 | 1.146 | ok | 1.146 | 1.086-1.206 |
| Methyl Tert Butyl Ether | 7.73 | 8.64 | 0.895 | ok | 0.894 | 0.834-0.954 |
| Nonane | 16.02 | 14.70 | 1.090 | ok | 1.090 | 1.030-1.150 |
| Pentane | 6.14 | 8.64 | 0.711 | ok | 0.712 | 0.652-0.772 |
| Propylene | 3.97 | 8.64 | 0.459 | ok | 0.460 | 0.400-0.520 |
| Styrene | 15.70 | 14.70 | 1.068 | ok | 1.068 | 1.008-1.128 |
| 1,1,1-Trichloroethane | 9.71 | 8.64 | 1.124 | ok | 1.125 | 1.065-1.185 |
| 1,1,2,2-Tetrachloroethane | 15.81 | 14.70 | 1.076 | ok | 1.075 | 1.015-1.135 |
| 1,1,2-Trichloroethane | 12.64 | 10.46 | 1.208 | ok | 1.209 | 1.149-1.269 |
| 1,2,4-Trichlorobenzene | 20.31 | 14.70 | 1.382 | ok | 1.381 | 1.321-1.441 |
| 1,2,4-Trimethylbenzene | 17.76 | 14.70 | 1.208 | ok | 1.208 | 1.148-1.268 |
| 1,3,5-Trimethylbenzene | 17.30 | 14.70 | 1.177 | ok | 1.176 | 1.116-1.236 |
| 2,2,4-Trimethylpentane | 11.17 | 10.46 | 1.068 | ok | 1.068 | 1.008-1.128 |
| Tertiary Butyl Alcohol | 6.46 | 8.64 | 0.748 | ok | 0.746 | 0.686-0.806 |
| Tetrachloroethylene | 14.06 | 14.70 | 0.956 | ok | 0.956 | 0.896-1.016 |
| Tetrahydrofuran | 9.17 | 8.64 | 1.061 | ok | 1.060 | 1.000-1.120 |
| Toluene | 12.92 | 10.46 | 1.235 | ok | 1.235 | 1.175-1.295 |
| Trichloroethylene | 11.15 | 10.46 | 1.066 | ok | 1.066 | 1.006-1.126 |
| Trichlorofluoromethane | 5.79 | 8.64 | 0.670 | ok | 0.671 | 0.611-0.731 |
| Vinyl chloride | 4.42 | 8.64 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Vinyl Acetate | 7.80 | 8.64 | 0.903 | ok | 0.903 | 0.843-0.963 |
| m,p-Xylene | 15.32 | 14.70 | 1.042 | ok | 1.042 | 0.982-1.102 |
| o-Xylene | 15.82 | 14.70 | 1.076 | ok | 1.076 | 1.016-1.136 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+/- 0.33) | Area | | Mean Area | Area Range (+/- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 8.64 | ok | 8.63 | 8.30-8.96 | 196436 | ok | 206550 | 123930-289170 |
| 1,4-Difluorobenzene | 10.46 | ok | 10.46 | 10.13-10.79 | 898497 | ok | 933706 | 560224-1307188 |
| Chlorobenzene-D5 | 14.70 | ok | 14.70 | 14.37-15.03 | 762074 | ok | 816411 | 489847-1142975 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ214-IC214 | Q3977.D | 07/16/07 16:53 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3978.D | 07/16/07 17:36 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ214-ICC214 | Q3979.D | 07/16/07 18:18 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3980.D | 07/16/07 19:01 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3981.D | 07/16/07 19:44 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3982.D | 07/16/07 20:26 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3983.D | 07/16/07 21:09 | DFT | 0.2 | GCMSQ | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Acetone | 5.62 | 8.63 | 0.651 | ok | 0.649 | 0.589-0.709 |
| 1,3-Butadiene | 4.56 | 8.63 | 0.528 | ok | 0.528 | 0.468-0.588 |
| Benzene | 10.15 | 10.46 | 0.970 | ok | 0.970 | 0.910-1.030 |
| Bromodichloromethane | 11.11 | 10.46 | 1.062 | ok | 1.062 | 1.002-1.122 |
| Bromoform | 15.43 | 14.70 | 1.050 | ok | 1.049 | 0.989-1.109 |
| Bromomethane | 4.83 | 8.63 | 0.560 | ok | 0.560 | 0.500-0.620 |
| Bromoethene | 5.37 | 8.63 | 0.622 | ok | 0.622 | 0.562-0.682 |
| Benzyl Chloride | 17.91 | 14.70 | 1.218 | ok | 1.219 | 1.159-1.279 |
| Carbon disulfide | 6.86 | 8.63 | 0.795 | ok | 0.795 | 0.735-0.855 |
| Chlorobenzene | 14.75 | 14.70 | 1.003 | ok | 1.003 | 0.943-1.063 |
| Chloroethane | 5.01 | 8.63 | 0.581 | ok | 0.580 | 0.520-0.640 |
| Chloroform | 8.75 | 8.63 | 1.014 | ok | 1.014 | 0.954-1.074 |
| Chloromethane | 4.20 | 8.63 | 0.487 | ok | 0.486 | 0.426-0.546 |
| 3-Chloropropene | 6.67 | 8.63 | 0.773 | ok | 0.772 | 0.712-0.832 |
| 2-Chlorotoluene | 17.02 | 14.70 | 1.158 | ok | 1.158 | 1.098-1.218 |
| Carbon tetrachloride | 10.29 | 8.63 | 1.192 | ok | 1.192 | 1.132-1.252 |
| Cyclohexane | 10.42 | 10.46 | 0.996 | ok | 0.996 | 0.936-1.056 |
| 1,1-Dichloroethane | 7.66 | 8.63 | 0.888 | ok | 0.888 | 0.828-0.948 |
| 1,1-Dichloroethylene | 6.42 | 8.63 | 0.744 | ok | 0.744 | 0.684-0.804 |
| 1,2-Dibromoethane | 13.60 | 14.70 | 0.925 | ok | 0.925 | 0.865-0.985 |
| 1,2-Dichloroethane | 9.46 | 8.63 | 1.096 | ok | 1.096 | 1.036-1.156 |
| 1,2-Dichloropropane | 10.92 | 10.46 | 1.044 | ok | 1.044 | 0.984-1.104 |
| 1,4-Dioxane | 11.17 | 10.46 | 1.068 | ok | 1.065 | 1.005-1.125 |
| Dichlorodifluoromethane | 4.04 | 8.63 | 0.468 | ok | 0.468 | 0.408-0.528 |
| Dibromochloromethane | 13.35 | 14.70 | 0.908 | ok | 0.908 | 0.848-0.968 |
| trans-1,2-Dichloroethylene | 7.47 | 8.63 | 0.866 | ok | 0.865 | 0.805-0.925 |
| cis-1,2-Dichloroethylene | 8.48 | 8.63 | 0.983 | ok | 0.981 | 0.921-1.041 |
| cis-1,3-Dichloropropene | 11.97 | 10.46 | 1.144 | ok | 1.144 | 1.084-1.204 |
| m-Dichlorobenzene | 17.94 | 14.70 | 1.220 | ok | 1.220 | 1.160-1.280 |
| o-Dichlorobenzene | 18.40 | 14.70 | 1.252 | ok | 1.251 | 1.191-1.311 |
| p-Dichlorobenzene | 18.02 | 14.70 | 1.226 | ok | 1.225 | 1.165-1.285 |
| trans-1,3-Dichloropropene | 12.47 | 10.46 | 1.192 | ok | 1.192 | 1.132-1.252 |
| Ethanol | 5.12 | 8.63 | 0.593 | ok | 0.591 | 0.531-0.651 |
| Ethylbenzene | 15.13 | 14.70 | 1.029 | ok | 1.029 | 0.969-1.089 |
| Ethyl Acetate | 8.67 | 8.63 | 1.005 | ok | 1.004 | 0.944-1.064 |
| 4-Ethyltoluene | 17.21 | 14.70 | 1.171 | ok | 1.171 | 1.111-1.231 |
| Freon 113 | 6.80 | 8.63 | 0.788 | ok | 0.788 | 0.728-0.848 |
| Freon 114 | 4.29 | 8.63 | 0.497 | ok | 0.498 | 0.438-0.558 |
| Heptane | 11.41 | 10.46 | 1.091 | ok | 1.091 | 1.031-1.151 |
| Hexachlorobutadiene | 20.80 | 14.70 | 1.415 | ok | 1.415 | 1.355-1.475 |
| Hexane | 8.66 | 8.63 | 1.003 | ok | 1.004 | 0.944-1.064 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ214-IC214 | Q3977.D | 07/16/07 16:53 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3978.D | 07/16/07 17:36 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ214-ICC214 | Q3979.D | 07/16/07 18:18 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3980.D | 07/16/07 19:01 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3981.D | 07/16/07 19:44 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3982.D | 07/16/07 20:26 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ214-IC214 | Q3983.D | 07/16/07 21:09 | DFT | 0.2 | GCMSQ | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| 2-Hexanone | 13.16 | 14.70 | 0.895 | ok | 0.894 | 0.834-0.954 |
| Isopropylbenzene | 16.46 | 14.70 | 1.120 | ok | 1.120 | 1.060-1.180 |
| Isopropyl Alcohol | 5.84 | 8.63 | 0.677 | ok | 0.676 | 0.616-0.736 |
| Methylene chloride | 6.54 | 8.63 | 0.758 | ok | 0.758 | 0.698-0.818 |
| Methyl ethyl ketone | 8.04 | 8.63 | 0.932 | ok | 0.931 | 0.871-0.991 |
| Methyl Isobutyl Ketone | 11.99 | 10.46 | 1.146 | ok | 1.146 | 1.086-1.206 |
| Methyl Tert Butyl Ether | 7.72 | 8.63 | 0.895 | ok | 0.894 | 0.834-0.954 |
| Nonane | 16.02 | 14.70 | 1.090 | ok | 1.090 | 1.030-1.150 |
| Pentane | 6.15 | 8.63 | 0.713 | ok | 0.712 | 0.652-0.772 |
| Propylene | 3.96 | 8.63 | 0.459 | ok | 0.460 | 0.400-0.520 |
| Styrene | 15.71 | 14.70 | 1.069 | ok | 1.068 | 1.008-1.128 |
| 1,1,1-Trichloroethane | 9.72 | 8.63 | 1.126 | ok | 1.125 | 1.065-1.185 |
| 1,1,2,2-Tetrachloroethane | 15.81 | 14.70 | 1.076 | ok | 1.075 | 1.015-1.135 |
| 1,1,2-Trichloroethane | 12.64 | 10.46 | 1.208 | ok | 1.209 | 1.149-1.269 |
| 1,2,4-Trichlorobenzene | 20.31 | 14.70 | 1.382 | ok | 1.381 | 1.321-1.441 |
| 1,2,4-Trimethylbenzene | 17.76 | 14.70 | 1.208 | ok | 1.208 | 1.148-1.268 |
| 1,3,5-Trimethylbenzene | 17.29 | 14.70 | 1.176 | ok | 1.176 | 1.116-1.236 |
| 2,2,4-Trimethylpentane | 11.17 | 10.46 | 1.068 | ok | 1.068 | 1.008-1.128 |
| Tertiary Butyl Alcohol | 6.46 | 8.63 | 0.749 | ok | 0.746 | 0.686-0.806 |
| Tetrachloroethylene | 14.06 | 14.70 | 0.956 | ok | 0.956 | 0.896-1.016 |
| Tetrahydrofuran | 9.17 | 8.63 | 1.063 | ok | 1.060 | 1.000-1.120 |
| Toluene | 12.92 | 10.46 | 1.235 | ok | 1.235 | 1.175-1.295 |
| Trichloroethylene | 11.14 | 10.46 | 1.065 | ok | 1.066 | 1.006-1.126 |
| Trichlorofluoromethane | 5.79 | 8.63 | 0.671 | ok | 0.671 | 0.611-0.731 |
| Vinyl chloride | 4.43 | 8.63 | 0.513 | ok | 0.512 | 0.452-0.572 |
| Vinyl Acetate | 7.79 | 8.63 | 0.903 | ok | 0.903 | 0.843-0.963 |
| m,p-Xylene | 15.32 | 14.70 | 1.042 | ok | 1.042 | 0.982-1.102 |
| o-Xylene | 15.82 | 14.70 | 1.076 | ok | 1.076 | 1.016-1.136 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+/- 0.33) | Area | | Mean Area | Area Range (+/- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 8.63 | ok | 8.63 | 8.30-8.96 | 189375 | ok | 206550 | 123930-289170 |
| 1,4-Difluorobenzene | 10.46 | ok | 10.46 | 10.13-10.79 | 853254 | ok | 933706 | 560224-1307188 |
| Chlorobenzene-D5 | 14.70 | ok | 14.70 | 14.37-15.03 | 728923 | ok | 816411 | 489847-1142975 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ220-IC220 | Q4139.D | 07/27/07 12:17 | DFT | 40 | GCMSQ | TO-15 | Reporting this level |
| MSQ220-IC220 | Q4140.D | 07/27/07 13:01 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ220-ICC220 | Q4141.D | 07/27/07 13:46 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4142.D | 07/27/07 14:32 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4143.D | 07/27/07 15:20 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4144.D | 07/27/07 16:07 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4145.D | 07/27/07 16:55 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Acetone | 5.59 | 8.63 | 0.648 | ok | 0.649 | 0.589-0.709 |
| 1,3-Butadiene | 4.56 | 8.63 | 0.528 | ok | 0.528 | 0.468-0.588 |
| Benzene | 10.15 | 10.46 | 0.970 | ok | 0.970 | 0.910-1.030 |
| Bromodichloromethane | 11.11 | 10.46 | 1.062 | ok | 1.062 | 1.002-1.122 |
| Bromoform | 15.43 | 14.71 | 1.049 | ok | 1.049 | 0.989-1.109 |
| Bromomethane | 4.83 | 8.63 | 0.560 | ok | 0.560 | 0.500-0.620 |
| Bromoethene | 5.37 | 8.63 | 0.622 | ok | 0.622 | 0.562-0.682 |
| Benzyl Chloride | 17.92 | 14.71 | 1.218 | ok | 1.219 | 1.159-1.279 |
| Carbon disulfide | 6.85 | 8.63 | 0.794 | ok | 0.795 | 0.735-0.855 |
| Chlorobenzene | 14.75 | 14.71 | 1.003 | ok | 1.003 | 0.943-1.063 |
| Chloroethane | 5.00 | 8.63 | 0.579 | ok | 0.580 | 0.520-0.640 |
| Chloroform | 8.75 | 8.63 | 1.014 | ok | 1.014 | 0.954-1.074 |
| Chloromethane | 4.20 | 8.63 | 0.487 | ok | 0.487 | 0.427-0.547 |
| 3-Chloropropene | 6.66 | 8.63 | 0.772 | ok | 0.772 | 0.712-0.832 |
| 2-Chlorotoluene | 17.02 | 14.71 | 1.157 | ok | 1.158 | 1.098-1.218 |
| Carbon tetrachloride | 10.29 | 8.63 | 1.192 | ok | 1.193 | 1.133-1.253 |
| Cyclohexane | 10.41 | 10.46 | 0.995 | ok | 0.995 | 0.935-1.055 |
| 1,1-Dichloroethane | 7.66 | 8.63 | 0.888 | ok | 0.888 | 0.828-0.948 |
| 1,1-Dichloroethylene | 6.42 | 8.63 | 0.744 | ok | 0.744 | 0.684-0.804 |
| 1,2-Dibromoethane | 13.60 | 14.71 | 0.925 | ok | 0.925 | 0.865-0.985 |
| 1,2-Dichloroethane | 9.46 | 8.63 | 1.096 | ok | 1.097 | 1.037-1.157 |
| 1,2-Dichloropropane | 10.92 | 10.46 | 1.044 | ok | 1.044 | 0.984-1.104 |
| 1,4-Dioxane | 11.13 | 10.46 | 1.064 | ok | 1.065 | 1.005-1.125 |
| Dichlorodifluoromethane | 4.03 | 8.63 | 0.467 | ok | 0.467 | 0.407-0.527 |
| Dibromochloromethane | 13.35 | 14.71 | 0.908 | ok | 0.908 | 0.848-0.968 |
| trans-1,2-Dichloroethylene | 7.47 | 8.63 | 0.866 | ok | 0.866 | 0.806-0.926 |
| cis-1,2-Dichloroethylene | 8.47 | 8.63 | 0.981 | ok | 0.982 | 0.922-1.042 |
| cis-1,3-Dichloropropene | 11.96 | 10.46 | 1.143 | ok | 1.144 | 1.084-1.204 |
| m-Dichlorobenzene | 17.94 | 14.71 | 1.220 | ok | 1.220 | 1.160-1.280 |
| o-Dichlorobenzene | 18.40 | 14.71 | 1.251 | ok | 1.251 | 1.191-1.311 |
| p-Dichlorobenzene | 18.01 | 14.71 | 1.224 | ok | 1.225 | 1.165-1.285 |
| trans-1,3-Dichloropropene | 12.46 | 10.46 | 1.191 | ok | 1.191 | 1.131-1.251 |
| Ethanol | 5.09 | 8.63 | 0.590 | ok | 0.591 | 0.531-0.651 |
| Ethylbenzene | 15.13 | 14.71 | 1.029 | ok | 1.029 | 0.969-1.089 |
| Ethyl Acetate | 8.66 | 8.63 | 1.003 | ok | 1.004 | 0.944-1.064 |
| 4-Ethyltoluene | 17.21 | 14.71 | 1.170 | ok | 1.171 | 1.111-1.231 |
| Freon 113 | 6.80 | 8.63 | 0.788 | ok | 0.788 | 0.728-0.848 |
| Freon 114 | 4.30 | 8.63 | 0.498 | ok | 0.498 | 0.438-0.558 |
| Heptane | 11.41 | 10.46 | 1.091 | ok | 1.090 | 1.030-1.150 |
| Hexachlorobutadiene | 20.80 | 14.71 | 1.414 | ok | 1.414 | 1.354-1.474 |
| Hexane | 8.67 | 8.63 | 1.005 | ok | 1.004 | 0.944-1.064 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ220-IC220 | Q4139.D | 07/27/07 12:17 | DFT | 40 | GCMSQ | TO-15 | Reporting this level |
| MSQ220-IC220 | Q4140.D | 07/27/07 13:01 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ220-ICC220 | Q4141.D | 07/27/07 13:46 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4142.D | 07/27/07 14:32 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4143.D | 07/27/07 15:20 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4144.D | 07/27/07 16:07 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4145.D | 07/27/07 16:55 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| 2-Hexanone | 13.15 | 14.71 | 0.894 | ok | 0.894 | 0.834-0.954 |
| Isopropylbenzene | 16.47 | 14.71 | 1.120 | ok | 1.120 | 1.060-1.180 |
| Isopropyl Alcohol | 5.82 | 8.63 | 0.674 | ok | 0.675 | 0.615-0.735 |
| Methylene chloride | 6.54 | 8.63 | 0.758 | ok | 0.758 | 0.698-0.818 |
| Methyl ethyl ketone | 8.03 | 8.63 | 0.930 | ok | 0.931 | 0.871-0.991 |
| Methyl Isobutyl Ketone | 11.98 | 10.46 | 1.145 | ok | 1.146 | 1.086-1.206 |
| Methyl Tert Butyl Ether | 7.70 | 8.63 | 0.892 | ok | 0.894 | 0.834-0.954 |
| Nonane | 16.03 | 14.71 | 1.090 | ok | 1.090 | 1.030-1.150 |
| Pentane | 6.14 | 8.63 | 0.711 | ok | 0.712 | 0.652-0.772 |
| Propylene | 3.96 | 8.63 | 0.459 | ok | 0.460 | 0.400-0.520 |
| Styrene | 15.71 | 14.71 | 1.068 | ok | 1.068 | 1.008-1.128 |
| 1,1,1-Trichloroethane | 9.71 | 8.63 | 1.125 | ok | 1.125 | 1.065-1.185 |
| 1,1,2,2-Tetrachloroethane | 15.82 | 14.71 | 1.075 | ok | 1.075 | 1.015-1.135 |
| 1,1,2-Trichloroethane | 12.65 | 10.46 | 1.209 | ok | 1.209 | 1.149-1.269 |
| 1,2,4-Trichlorobenzene | 20.30 | 14.71 | 1.380 | ok | 1.381 | 1.321-1.441 |
| 1,2,4-Trimethylbenzene | 17.76 | 14.71 | 1.207 | ok | 1.208 | 1.148-1.268 |
| 1,3,5-Trimethylbenzene | 17.29 | 14.71 | 1.175 | ok | 1.176 | 1.116-1.236 |
| 2,2,4-Trimethylpentane | 11.17 | 10.46 | 1.068 | ok | 1.068 | 1.008-1.128 |
| Tertiary Butyl Alcohol | 6.43 | 8.63 | 0.745 | ok | 0.746 | 0.686-0.806 |
| Tetrachloroethylene | 14.06 | 14.71 | 0.956 | ok | 0.956 | 0.896-1.016 |
| Tetrahydrofuran | 9.13 | 8.63 | 1.058 | ok | 1.060 | 1.000-1.120 |
| Toluene | 12.92 | 10.46 | 1.235 | ok | 1.235 | 1.175-1.295 |
| Trichloroethylene | 11.15 | 10.46 | 1.066 | ok | 1.065 | 1.005-1.125 |
| Trichlorofluoromethane | 5.78 | 8.63 | 0.670 | ok | 0.671 | 0.611-0.731 |
| Vinyl chloride | 4.42 | 8.63 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Vinyl Acetate | 7.79 | 8.63 | 0.903 | ok | 0.903 | 0.843-0.963 |
| m,p-Xylene | 15.33 | 14.71 | 1.042 | ok | 1.042 | 0.982-1.102 |
| o-Xylene | 15.83 | 14.71 | 1.076 | ok | 1.076 | 1.016-1.136 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+/- 0.33) | Area | | Mean Area | Area Range (+/- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 8.63 | ok | 8.63 | 8.30-8.96 | 302451 | ok | 261211 | 156727-365695 |
| 1,4-Difluorobenzene | 10.46 | ok | 10.46 | 10.13-10.79 | 1431470 | ok | 1201043 | 720626-1681460 |
| Chlorobenzene-D5 | 14.71 | ok | 14.70 | 14.37-15.03 | 1253052 | ok | 1034942 | 620965-1448919 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ220-IC220 | Q4139.D | 07/27/07 12:17 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4140.D | 07/27/07 13:01 | DFT | 20 | GCMSQ | TO-15 | Reporting this level |
| MSQ220-ICC220 | Q4141.D | 07/27/07 13:46 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4142.D | 07/27/07 14:32 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4143.D | 07/27/07 15:20 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4144.D | 07/27/07 16:07 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4145.D | 07/27/07 16:55 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Acetone | 5.59 | 8.63 | 0.648 | ok | 0.649 | 0.589-0.709 |
| 1,3-Butadiene | 4.56 | 8.63 | 0.528 | ok | 0.528 | 0.468-0.588 |
| Benzene | 10.15 | 10.46 | 0.970 | ok | 0.970 | 0.910-1.030 |
| Bromodichloromethane | 11.11 | 10.46 | 1.062 | ok | 1.062 | 1.002-1.122 |
| Bromoform | 15.42 | 14.71 | 1.048 | ok | 1.049 | 0.989-1.109 |
| Bromomethane | 4.84 | 8.63 | 0.561 | ok | 0.560 | 0.500-0.620 |
| Bromoethene | 5.37 | 8.63 | 0.622 | ok | 0.622 | 0.562-0.682 |
| Benzyl Chloride | 17.92 | 14.71 | 1.218 | ok | 1.219 | 1.159-1.279 |
| Carbon disulfide | 6.86 | 8.63 | 0.795 | ok | 0.795 | 0.735-0.855 |
| Chlorobenzene | 14.75 | 14.71 | 1.003 | ok | 1.003 | 0.943-1.063 |
| Chloroethane | 5.00 | 8.63 | 0.579 | ok | 0.580 | 0.520-0.640 |
| Chloroform | 8.75 | 8.63 | 1.014 | ok | 1.014 | 0.954-1.074 |
| Chloromethane | 4.20 | 8.63 | 0.487 | ok | 0.487 | 0.427-0.547 |
| 3-Chloropropene | 6.66 | 8.63 | 0.772 | ok | 0.772 | 0.712-0.832 |
| 2-Chlorotoluene | 17.02 | 14.71 | 1.157 | ok | 1.158 | 1.098-1.218 |
| Carbon tetrachloride | 10.29 | 8.63 | 1.192 | ok | 1.193 | 1.133-1.253 |
| Cyclohexane | 10.41 | 10.46 | 0.995 | ok | 0.995 | 0.935-1.055 |
| 1,1-Dichloroethane | 7.66 | 8.63 | 0.888 | ok | 0.888 | 0.828-0.948 |
| 1,1-Dichloroethylene | 6.42 | 8.63 | 0.744 | ok | 0.744 | 0.684-0.804 |
| 1,2-Dibromoethane | 13.60 | 14.71 | 0.925 | ok | 0.925 | 0.865-0.985 |
| 1,2-Dichloroethane | 9.46 | 8.63 | 1.096 | ok | 1.097 | 1.037-1.157 |
| 1,2-Dichloropropane | 10.92 | 10.46 | 1.044 | ok | 1.044 | 0.984-1.104 |
| 1,4-Dioxane | 11.13 | 10.46 | 1.064 | ok | 1.065 | 1.005-1.125 |
| Dichlorodifluoromethane | 4.03 | 8.63 | 0.467 | ok | 0.467 | 0.407-0.527 |
| Dibromochloromethane | 13.35 | 14.71 | 0.908 | ok | 0.908 | 0.848-0.968 |
| trans-1,2-Dichloroethylene | 7.47 | 8.63 | 0.866 | ok | 0.866 | 0.806-0.926 |
| cis-1,2-Dichloroethylene | 8.47 | 8.63 | 0.981 | ok | 0.982 | 0.922-1.042 |
| cis-1,3-Dichloropropene | 11.96 | 10.46 | 1.143 | ok | 1.144 | 1.084-1.204 |
| m-Dichlorobenzene | 17.94 | 14.71 | 1.220 | ok | 1.220 | 1.160-1.280 |
| o-Dichlorobenzene | 18.40 | 14.71 | 1.251 | ok | 1.251 | 1.191-1.311 |
| p-Dichlorobenzene | 18.02 | 14.71 | 1.225 | ok | 1.225 | 1.165-1.285 |
| trans-1,3-Dichloropropene | 12.46 | 10.46 | 1.191 | ok | 1.191 | 1.131-1.251 |
| Ethanol | 5.10 | 8.63 | 0.591 | ok | 0.591 | 0.531-0.651 |
| Ethylbenzene | 15.13 | 14.71 | 1.029 | ok | 1.029 | 0.969-1.089 |
| Ethyl Acetate | 8.66 | 8.63 | 1.003 | ok | 1.004 | 0.944-1.064 |
| 4-Ethyltoluene | 17.21 | 14.71 | 1.170 | ok | 1.171 | 1.111-1.231 |
| Freon 113 | 6.80 | 8.63 | 0.788 | ok | 0.788 | 0.728-0.848 |
| Freon 114 | 4.30 | 8.63 | 0.498 | ok | 0.498 | 0.438-0.558 |
| Heptane | 11.41 | 10.46 | 1.091 | ok | 1.090 | 1.030-1.150 |
| Hexachlorobutadiene | 20.80 | 14.71 | 1.414 | ok | 1.414 | 1.354-1.474 |
| Hexane | 8.67 | 8.63 | 1.005 | ok | 1.004 | 0.944-1.064 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ220-IC220 | Q4139.D | 07/27/07 12:17 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4140.D | 07/27/07 13:01 | DFT | 20 | GCMSQ | TO-15 | Reporting this level |
| MSQ220-ICC220 | Q4141.D | 07/27/07 13:46 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4142.D | 07/27/07 14:32 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4143.D | 07/27/07 15:20 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4144.D | 07/27/07 16:07 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4145.D | 07/27/07 16:55 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| 2-Hexanone | 13.14 | 14.71 | 0.893 | ok | 0.894 | 0.834-0.954 |
| Isopropylbenzene | 16.47 | 14.71 | 1.120 | ok | 1.120 | 1.060-1.180 |
| Isopropyl Alcohol | 5.82 | 8.63 | 0.674 | ok | 0.675 | 0.615-0.735 |
| Methylene chloride | 6.54 | 8.63 | 0.758 | ok | 0.758 | 0.698-0.818 |
| Methyl ethyl ketone | 8.03 | 8.63 | 0.930 | ok | 0.931 | 0.871-0.991 |
| Methyl Isobutyl Ketone | 11.98 | 10.46 | 1.145 | ok | 1.146 | 1.086-1.206 |
| Methyl Tert Butyl Ether | 7.71 | 8.63 | 0.893 | ok | 0.894 | 0.834-0.954 |
| Nonane | 16.02 | 14.71 | 1.089 | ok | 1.090 | 1.030-1.150 |
| Pentane | 6.14 | 8.63 | 0.711 | ok | 0.712 | 0.652-0.772 |
| Propylene | 3.97 | 8.63 | 0.460 | ok | 0.460 | 0.400-0.520 |
| Styrene | 15.70 | 14.71 | 1.067 | ok | 1.068 | 1.008-1.128 |
| 1,1,1-Trichloroethane | 9.71 | 8.63 | 1.125 | ok | 1.125 | 1.065-1.185 |
| 1,1,2,2-Tetrachloroethane | 15.81 | 14.71 | 1.075 | ok | 1.075 | 1.015-1.135 |
| 1,1,2-Trichloroethane | 12.64 | 10.46 | 1.208 | ok | 1.209 | 1.149-1.269 |
| 1,2,4-Trichlorobenzene | 20.30 | 14.71 | 1.380 | ok | 1.381 | 1.321-1.441 |
| 1,2,4-Trimethylbenzene | 17.76 | 14.71 | 1.207 | ok | 1.208 | 1.148-1.268 |
| 1,3,5-Trimethylbenzene | 17.29 | 14.71 | 1.175 | ok | 1.176 | 1.116-1.236 |
| 2,2,4-Trimethylpentane | 11.17 | 10.46 | 1.068 | ok | 1.068 | 1.008-1.128 |
| Tertiary Butyl Alcohol | 6.42 | 8.63 | 0.744 | ok | 0.746 | 0.686-0.806 |
| Tetrachloroethylene | 14.06 | 14.71 | 0.956 | ok | 0.956 | 0.896-1.016 |
| Tetrahydrofuran | 9.13 | 8.63 | 1.058 | ok | 1.060 | 1.000-1.120 |
| Toluene | 12.92 | 10.46 | 1.235 | ok | 1.235 | 1.175-1.295 |
| Trichloroethylene | 11.14 | 10.46 | 1.065 | ok | 1.065 | 1.005-1.125 |
| Trichlorofluoromethane | 5.79 | 8.63 | 0.671 | ok | 0.671 | 0.611-0.731 |
| Vinyl chloride | 4.42 | 8.63 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Vinyl Acetate | 7.79 | 8.63 | 0.903 | ok | 0.903 | 0.843-0.963 |
| m,p-Xylene | 15.32 | 14.71 | 1.041 | ok | 1.042 | 0.982-1.102 |
| o-Xylene | 15.82 | 14.71 | 1.075 | ok | 1.076 | 1.016-1.136 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+/- 0.33) | Area | | Mean Area | Area Range (+/- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 8.63 | ok | 8.63 | 8.30-8.96 | 240640 | ok | 261211 | 156727-365695 |
| 1,4-Difluorobenzene | 10.46 | ok | 10.46 | 10.13-10.79 | 1165540 | ok | 1201043 | 720626-1681460 |
| Chlorobenzene-D5 | 14.71 | ok | 14.70 | 14.37-15.03 | 1050150 | ok | 1034942 | 620965-1448919 |

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| MSQ220-IC220 | Q4139.D | 07/27/07 12:17 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4140.D | 07/27/07 13:01 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ220-ICC220 | Q4141.D | 07/27/07 13:46 | DFT | 10 | GCMSQ | TO-15 | Reporting this level |
| MSQ220-IC220 | Q4142.D | 07/27/07 14:32 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4143.D | 07/27/07 15:20 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4144.D | 07/27/07 16:07 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4145.D | 07/27/07 16:55 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Acetone | 5.59 | 8.63 | 0.648 | ok | 0.649 | 0.589-0.709 |
| 1,3-Butadiene | 4.56 | 8.63 | 0.528 | ok | 0.528 | 0.468-0.588 |
| Benzene | 10.15 | 10.46 | 0.970 | ok | 0.970 | 0.910-1.030 |
| Bromodichloromethane | 11.11 | 10.46 | 1.062 | ok | 1.062 | 1.002-1.122 |
| Bromoform | 15.42 | 14.70 | 1.049 | ok | 1.049 | 0.989-1.109 |
| Bromomethane | 4.84 | 8.63 | 0.561 | ok | 0.560 | 0.500-0.620 |
| Bromoethene | 5.36 | 8.63 | 0.621 | ok | 0.622 | 0.562-0.682 |
| Benzyl Chloride | 17.92 | 14.70 | 1.219 | ok | 1.219 | 1.159-1.279 |
| Carbon disulfide | 6.86 | 8.63 | 0.795 | ok | 0.795 | 0.735-0.855 |
| Chlorobenzene | 14.75 | 14.70 | 1.003 | ok | 1.003 | 0.943-1.063 |
| Chloroethane | 5.01 | 8.63 | 0.581 | ok | 0.580 | 0.520-0.640 |
| Chloroform | 8.75 | 8.63 | 1.014 | ok | 1.014 | 0.954-1.074 |
| Chloromethane | 4.20 | 8.63 | 0.487 | ok | 0.487 | 0.427-0.547 |
| 3-Chloropropene | 6.66 | 8.63 | 0.772 | ok | 0.772 | 0.712-0.832 |
| 2-Chlorotoluene | 17.02 | 14.70 | 1.158 | ok | 1.158 | 1.098-1.218 |
| Carbon tetrachloride | 10.29 | 8.63 | 1.192 | ok | 1.193 | 1.133-1.253 |
| Cyclohexane | 10.41 | 10.46 | 0.995 | ok | 0.995 | 0.935-1.055 |
| 1,1-Dichloroethane | 7.66 | 8.63 | 0.888 | ok | 0.888 | 0.828-0.948 |
| 1,1-Dichloroethylene | 6.43 | 8.63 | 0.745 | ok | 0.744 | 0.684-0.804 |
| 1,2-Dibromoethane | 13.60 | 14.70 | 0.925 | ok | 0.925 | 0.865-0.985 |
| 1,2-Dichloroethane | 9.46 | 8.63 | 1.096 | ok | 1.097 | 1.037-1.157 |
| 1,2-Dichloropropane | 10.92 | 10.46 | 1.044 | ok | 1.044 | 0.984-1.104 |
| 1,4-Dioxane | 11.13 | 10.46 | 1.064 | ok | 1.065 | 1.005-1.125 |
| Dichlorodifluoromethane | 4.04 | 8.63 | 0.468 | ok | 0.467 | 0.407-0.527 |
| Dibromochloromethane | 13.35 | 14.70 | 0.908 | ok | 0.908 | 0.848-0.968 |
| trans-1,2-Dichloroethylene | 7.47 | 8.63 | 0.866 | ok | 0.866 | 0.806-0.926 |
| cis-1,2-Dichloroethylene | 8.47 | 8.63 | 0.981 | ok | 0.982 | 0.922-1.042 |
| cis-1,3-Dichloropropene | 11.96 | 10.46 | 1.143 | ok | 1.144 | 1.084-1.204 |
| m-Dichlorobenzene | 17.94 | 14.70 | 1.220 | ok | 1.220 | 1.160-1.280 |
| o-Dichlorobenzene | 18.40 | 14.70 | 1.252 | ok | 1.251 | 1.191-1.311 |
| p-Dichlorobenzene | 18.01 | 14.70 | 1.225 | ok | 1.225 | 1.165-1.285 |
| trans-1,3-Dichloropropene | 12.46 | 10.46 | 1.191 | ok | 1.191 | 1.131-1.251 |
| Ethanol | 5.09 | 8.63 | 0.590 | ok | 0.591 | 0.531-0.651 |
| Ethylbenzene | 15.13 | 14.70 | 1.029 | ok | 1.029 | 0.969-1.089 |
| Ethyl Acetate | 8.66 | 8.63 | 1.003 | ok | 1.004 | 0.944-1.064 |
| 4-Ethyltoluene | 17.21 | 14.70 | 1.171 | ok | 1.171 | 1.111-1.231 |
| Freon 113 | 6.79 | 8.63 | 0.787 | ok | 0.788 | 0.728-0.848 |
| Freon 114 | 4.30 | 8.63 | 0.498 | ok | 0.498 | 0.438-0.558 |
| Heptane | 11.40 | 10.46 | 1.090 | ok | 1.090 | 1.030-1.150 |
| Hexachlorobutadiene | 20.80 | 14.70 | 1.415 | ok | 1.414 | 1.354-1.474 |
| Hexane | 8.67 | 8.63 | 1.005 | ok | 1.004 | 0.944-1.064 |

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|---|---|---|---|---|---|---|---|
| MSQ220-IC220 | Q4139.D | 07/27/07 12:17 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4140.D | 07/27/07 13:01 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ220-ICC220 | Q4141.D | 07/27/07 13:46 | DFT | 10 | GCMSQ | TO-15 | Reporting this level |
| MSQ220-IC220 | Q4142.D | 07/27/07 14:32 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4143.D | 07/27/07 15:20 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4144.D | 07/27/07 16:07 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4145.D | 07/27/07 16:55 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| 2-Hexanone | 13.14 | 14.70 | 0.894 | ok | 0.894 | 0.834-0.954 |
| Isopropylbenzene | 16.47 | 14.70 | 1.120 | ok | 1.120 | 1.060-1.180 |
| Isopropyl Alcohol | 5.82 | 8.63 | 0.674 | ok | 0.675 | 0.615-0.735 |
| Methylene chloride | 6.54 | 8.63 | 0.758 | ok | 0.758 | 0.698-0.818 |
| Methyl ethyl ketone | 8.03 | 8.63 | 0.930 | ok | 0.931 | 0.871-0.991 |
| Methyl Isobutyl Ketone | 11.98 | 10.46 | 1.145 | ok | 1.146 | 1.086-1.206 |
| Methyl Tert Butyl Ether | 7.71 | 8.63 | 0.893 | ok | 0.894 | 0.834-0.954 |
| Nonane | 16.02 | 14.70 | 1.090 | ok | 1.090 | 1.030-1.150 |
| Pentane | 6.14 | 8.63 | 0.711 | ok | 0.712 | 0.652-0.772 |
| Propylene | 3.97 | 8.63 | 0.460 | ok | 0.460 | 0.400-0.520 |
| Styrene | 15.70 | 14.70 | 1.068 | ok | 1.068 | 1.008-1.128 |
| 1,1,1-Trichloroethane | 9.71 | 8.63 | 1.125 | ok | 1.125 | 1.065-1.185 |
| 1,1,2,2-Tetrachloroethane | 15.81 | 14.70 | 1.076 | ok | 1.075 | 1.015-1.135 |
| 1,1,2-Trichloroethane | 12.64 | 10.46 | 1.208 | ok | 1.209 | 1.149-1.269 |
| 1,2,4-Trichlorobenzene | 20.30 | 14.70 | 1.381 | ok | 1.381 | 1.321-1.441 |
| 1,2,4-Trimethylbenzene | 17.76 | 14.70 | 1.208 | ok | 1.208 | 1.148-1.268 |
| 1,3,5-Trimethylbenzene | 17.29 | 14.70 | 1.176 | ok | 1.176 | 1.116-1.236 |
| 2,2,4-Trimethylpentane | 11.17 | 10.46 | 1.068 | ok | 1.068 | 1.008-1.128 |
| Tertiary Butyl Alcohol | 6.43 | 8.63 | 0.745 | ok | 0.746 | 0.686-0.806 |
| Tetrachloroethylene | 14.06 | 14.70 | 0.956 | ok | 0.956 | 0.896-1.016 |
| Tetrahydrofuran | 9.14 | 8.63 | 1.059 | ok | 1.060 | 1.000-1.120 |
| Toluene | 12.92 | 10.46 | 1.235 | ok | 1.235 | 1.175-1.295 |
| Trichloroethylene | 11.15 | 10.46 | 1.066 | ok | 1.065 | 1.005-1.125 |
| Trichlorofluoromethane | 5.79 | 8.63 | 0.671 | ok | 0.671 | 0.611-0.731 |
| Vinyl chloride | 4.42 | 8.63 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Vinyl Acetate | 7.79 | 8.63 | 0.903 | ok | 0.903 | 0.843-0.963 |
| m,p-Xylene | 15.32 | 14.70 | 1.042 | ok | 1.042 | 0.982-1.102 |
| o-Xylene | 15.82 | 14.70 | 1.076 | ok | 1.076 | 1.016-1.136 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+/- 0.33) | Area | | Mean Area | Area Range (+/- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 8.63 | ok | 8.63 | 8.30-8.96 | 229115 | ok | 261211 | 156727-365695 |
| 1,4-Difluorobenzene | 10.46 | ok | 10.46 | 10.13-10.79 | 1155723 | ok | 1201043 | 720626-1681460 |
| Chlorobenzene-D5 | 14.70 | ok | 14.70 | 14.37-15.03 | 1000843 | ok | 1034942 | 620965-1448919 |

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|---|---|---|---|---|---|---|---|
| MSQ220-IC220 | Q4139.D | 07/27/07 12:17 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4140.D | 07/27/07 13:01 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ220-ICC220 | Q4141.D | 07/27/07 13:46 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4142.D | 07/27/07 14:32 | DFT | 5 | GCMSQ | TO-15 | Reporting this level |
| MSQ220-IC220 | Q4143.D | 07/27/07 15:20 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4144.D | 07/27/07 16:07 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4145.D | 07/27/07 16:55 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Acetone | 5.60 | 8.63 | 0.649 | ok | 0.649 | 0.589-0.709 |
| 1,3-Butadiene | 4.56 | 8.63 | 0.528 | ok | 0.528 | 0.468-0.588 |
| Benzene | 10.15 | 10.46 | 0.970 | ok | 0.970 | 0.910-1.030 |
| Bromodichloromethane | 11.10 | 10.46 | 1.061 | ok | 1.062 | 1.002-1.122 |
| Bromoform | 15.42 | 14.70 | 1.049 | ok | 1.049 | 0.989-1.109 |
| Bromomethane | 4.84 | 8.63 | 0.561 | ok | 0.560 | 0.500-0.620 |
| Bromoethene | 5.36 | 8.63 | 0.621 | ok | 0.622 | 0.562-0.682 |
| Benzyl Chloride | 17.92 | 14.70 | 1.219 | ok | 1.219 | 1.159-1.279 |
| Carbon disulfide | 6.86 | 8.63 | 0.795 | ok | 0.795 | 0.735-0.855 |
| Chlorobenzene | 14.75 | 14.70 | 1.003 | ok | 1.003 | 0.943-1.063 |
| Chloroethane | 5.00 | 8.63 | 0.579 | ok | 0.580 | 0.520-0.640 |
| Chloroform | 8.75 | 8.63 | 1.014 | ok | 1.014 | 0.954-1.074 |
| Chloromethane | 4.20 | 8.63 | 0.487 | ok | 0.487 | 0.427-0.547 |
| 3-Chloropropene | 6.66 | 8.63 | 0.772 | ok | 0.772 | 0.712-0.832 |
| 2-Chlorotoluene | 17.02 | 14.70 | 1.158 | ok | 1.158 | 1.098-1.218 |
| Carbon tetrachloride | 10.29 | 8.63 | 1.192 | ok | 1.193 | 1.133-1.253 |
| Cyclohexane | 10.41 | 10.46 | 0.995 | ok | 0.995 | 0.935-1.055 |
| 1,1-Dichloroethane | 7.66 | 8.63 | 0.888 | ok | 0.888 | 0.828-0.948 |
| 1,1-Dichloroethylene | 6.43 | 8.63 | 0.745 | ok | 0.744 | 0.684-0.804 |
| 1,2-Dibromoethane | 13.60 | 14.70 | 0.925 | ok | 0.925 | 0.865-0.985 |
| 1,2-Dichloroethane | 9.46 | 8.63 | 1.096 | ok | 1.097 | 1.037-1.157 |
| 1,2-Dichloropropane | 10.92 | 10.46 | 1.044 | ok | 1.044 | 0.984-1.104 |
| 1,4-Dioxane | 11.14 | 10.46 | 1.065 | ok | 1.065 | 1.005-1.125 |
| Dichlorodifluoromethane | 4.03 | 8.63 | 0.467 | ok | 0.467 | 0.407-0.527 |
| Dibromochloromethane | 13.35 | 14.70 | 0.908 | ok | 0.908 | 0.848-0.968 |
| trans-1,2-Dichloroethylene | 7.47 | 8.63 | 0.866 | ok | 0.866 | 0.806-0.926 |
| cis-1,2-Dichloroethylene | 8.47 | 8.63 | 0.981 | ok | 0.982 | 0.922-1.042 |
| cis-1,3-Dichloropropene | 11.96 | 10.46 | 1.143 | ok | 1.144 | 1.084-1.204 |
| m-Dichlorobenzene | 17.94 | 14.70 | 1.220 | ok | 1.220 | 1.160-1.280 |
| o-Dichlorobenzene | 18.40 | 14.70 | 1.252 | ok | 1.251 | 1.191-1.311 |
| p-Dichlorobenzene | 18.01 | 14.70 | 1.225 | ok | 1.225 | 1.165-1.285 |
| trans-1,3-Dichloropropene | 12.46 | 10.46 | 1.191 | ok | 1.191 | 1.131-1.251 |
| Ethanol | 5.10 | 8.63 | 0.591 | ok | 0.591 | 0.531-0.651 |
| Ethylbenzene | 15.13 | 14.70 | 1.029 | ok | 1.029 | 0.969-1.089 |
| Ethyl Acetate | 8.66 | 8.63 | 1.003 | ok | 1.004 | 0.944-1.064 |
| 4-Ethyltoluene | 17.21 | 14.70 | 1.171 | ok | 1.171 | 1.111-1.231 |
| Freon 113 | 6.80 | 8.63 | 0.788 | ok | 0.788 | 0.728-0.848 |
| Freon 114 | 4.30 | 8.63 | 0.498 | ok | 0.498 | 0.438-0.558 |
| Heptane | 11.40 | 10.46 | 1.090 | ok | 1.090 | 1.030-1.150 |
| Hexachlorobutadiene | 20.80 | 14.70 | 1.415 | ok | 1.414 | 1.354-1.474 |
| Hexane | 8.67 | 8.63 | 1.005 | ok | 1.004 | 0.944-1.064 |

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| MSQ220-IC220 | Q4145.D | 07/27/07 16:55 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| 2-Hexanone | 13.15 | 14.70 | 0.895 | ok | 0.894 | 0.834-0.954 |
| Isopropylbenzene | 16.47 | 14.70 | 1.120 | ok | 1.120 | 1.060-1.180 |
| Isopropyl Alcohol | 5.83 | 8.63 | 0.676 | ok | 0.675 | 0.615-0.735 |
| Methylene chloride | 6.54 | 8.63 | 0.758 | ok | 0.758 | 0.698-0.818 |
| Methyl ethyl ketone | 8.03 | 8.63 | 0.930 | ok | 0.931 | 0.871-0.991 |
| Methyl Isobutyl Ketone | 11.98 | 10.46 | 1.145 | ok | 1.146 | 1.086-1.206 |
| Methyl Tert Butyl Ether | 7.71 | 8.63 | 0.893 | ok | 0.894 | 0.834-0.954 |
| Nonane | 16.02 | 14.70 | 1.090 | ok | 1.090 | 1.030-1.150 |
| Pentane | 6.14 | 8.63 | 0.711 | ok | 0.712 | 0.652-0.772 |
| Propylene | 3.97 | 8.63 | 0.460 | ok | 0.460 | 0.400-0.520 |
| Styrene | 15.70 | 14.70 | 1.068 | ok | 1.068 | 1.008-1.128 |
| 1,1,1-Trichloroethane | 9.71 | 8.63 | 1.125 | ok | 1.125 | 1.065-1.185 |
| 1,1,2,2-Tetrachloroethane | 15.81 | 14.70 | 1.076 | ok | 1.075 | 1.015-1.135 |
| 1,1,2-Trichloroethane | 12.64 | 10.46 | 1.208 | ok | 1.209 | 1.149-1.269 |
| 1,2,4-Trichlorobenzene | 20.31 | 14.70 | 1.382 | ok | 1.381 | 1.321-1.441 |
| 1,2,4-Trimethylbenzene | 17.75 | 14.70 | 1.207 | ok | 1.208 | 1.148-1.268 |
| 1,3,5-Trimethylbenzene | 17.29 | 14.70 | 1.176 | ok | 1.176 | 1.116-1.236 |
| 2,2,4-Trimethylpentane | 11.17 | 10.46 | 1.068 | ok | 1.068 | 1.008-1.128 |
| Tertiary Butyl Alcohol | 6.43 | 8.63 | 0.745 | ok | 0.746 | 0.686-0.806 |
| Tetrachloroethylene | 14.06 | 14.70 | 0.956 | ok | 0.956 | 0.896-1.016 |
| Tetrahydrofuran | 9.14 | 8.63 | 1.059 | ok | 1.060 | 1.000-1.120 |
| Toluene | 12.92 | 10.46 | 1.235 | ok | 1.235 | 1.175-1.295 |
| Trichloroethylene | 11.14 | 10.46 | 1.065 | ok | 1.065 | 1.005-1.125 |
| Trichlorofluoromethane | 5.79 | 8.63 | 0.671 | ok | 0.671 | 0.611-0.731 |
| Vinyl chloride | 4.42 | 8.63 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Vinyl Acetate | 7.79 | 8.63 | 0.903 | ok | 0.903 | 0.843-0.963 |
| m,p-Xylene | 15.33 | 14.70 | 1.043 | ok | 1.042 | 0.982-1.102 |
| o-Xylene | 15.82 | 14.70 | 1.076 | ok | 1.076 | 1.016-1.136 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+/- 0.33) | Area | | Mean Area | Area Range (+/- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 8.63 | ok | 8.63 | 8.30-8.96 | 268570 | ok | 261211 | 156727-365695 |
| 1,4-Difluorobenzene | 10.46 | ok | 10.46 | 10.13-10.79 | 1199829 | ok | 1201043 | 720626-1681460 |
| Chlorobenzene-D5 | 14.70 | ok | 14.70 | 14.37-15.03 | 1031389 | ok | 1034942 | 620965-1448919 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ220-IC220 | Q4139.D | 07/27/07 12:17 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4140.D | 07/27/07 13:01 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ220-ICC220 | Q4141.D | 07/27/07 13:46 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4142.D | 07/27/07 14:32 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4143.D | 07/27/07 15:20 | DFT | 2 | GCMSQ | TO-15 | Reporting this level |
| MSQ220-IC220 | Q4144.D | 07/27/07 16:07 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4145.D | 07/27/07 16:55 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Acetone | 5.59 | 8.62 | 0.648 | ok | 0.649 | 0.589-0.709 |
| 1,3-Butadiene | 4.56 | 8.62 | 0.529 | ok | 0.528 | 0.468-0.588 |
| Benzene | 10.14 | 10.45 | 0.970 | ok | 0.970 | 0.910-1.030 |
| Bromodichloromethane | 11.10 | 10.45 | 1.062 | ok | 1.062 | 1.002-1.122 |
| Bromoform | 15.42 | 14.70 | 1.049 | ok | 1.049 | 0.989-1.109 |
| Bromomethane | 4.83 | 8.62 | 0.560 | ok | 0.560 | 0.500-0.620 |
| Bromoethene | 5.37 | 8.62 | 0.623 | ok | 0.622 | 0.562-0.682 |
| Benzyl Chloride | 17.92 | 14.70 | 1.219 | ok | 1.219 | 1.159-1.279 |
| Carbon disulfide | 6.85 | 8.62 | 0.795 | ok | 0.795 | 0.735-0.855 |
| Chlorobenzene | 14.75 | 14.70 | 1.003 | ok | 1.003 | 0.943-1.063 |
| Chloroethane | 5.00 | 8.62 | 0.580 | ok | 0.580 | 0.520-0.640 |
| Chloroform | 8.75 | 8.62 | 1.015 | ok | 1.014 | 0.954-1.074 |
| Chloromethane | 4.20 | 8.62 | 0.487 | ok | 0.487 | 0.427-0.547 |
| 3-Chloropropene | 6.66 | 8.62 | 0.773 | ok | 0.772 | 0.712-0.832 |
| 2-Chlorotoluene | 17.02 | 14.70 | 1.158 | ok | 1.158 | 1.098-1.218 |
| Carbon tetrachloride | 10.29 | 8.62 | 1.194 | ok | 1.193 | 1.133-1.253 |
| Cyclohexane | 10.41 | 10.45 | 0.996 | ok | 0.995 | 0.935-1.055 |
| 1,1-Dichloroethane | 7.66 | 8.62 | 0.889 | ok | 0.888 | 0.828-0.948 |
| 1,1-Dichloroethylene | 6.42 | 8.62 | 0.745 | ok | 0.744 | 0.684-0.804 |
| 1,2-Dibromoethane | 13.60 | 14.70 | 0.925 | ok | 0.925 | 0.865-0.985 |
| 1,2-Dichloroethane | 9.46 | 8.62 | 1.097 | ok | 1.097 | 1.037-1.157 |
| 1,2-Dichloropropane | 10.92 | 10.45 | 1.045 | ok | 1.044 | 0.984-1.104 |
| 1,4-Dioxane | 11.14 | 10.45 | 1.066 | ok | 1.065 | 1.005-1.125 |
| Dichlorodifluoromethane | 4.03 | 8.62 | 0.468 | ok | 0.467 | 0.407-0.527 |
| Dibromochloromethane | 13.35 | 14.70 | 0.908 | ok | 0.908 | 0.848-0.968 |
| trans-1,2-Dichloroethylene | 7.47 | 8.62 | 0.867 | ok | 0.866 | 0.806-0.926 |
| cis-1,2-Dichloroethylene | 8.46 | 8.62 | 0.981 | ok | 0.982 | 0.922-1.042 |
| cis-1,3-Dichloropropene | 11.96 | 10.45 | 1.144 | ok | 1.144 | 1.084-1.204 |
| m-Dichlorobenzene | 17.94 | 14.70 | 1.220 | ok | 1.220 | 1.160-1.280 |
| o-Dichlorobenzene | 18.40 | 14.70 | 1.252 | ok | 1.251 | 1.191-1.311 |
| p-Dichlorobenzene | 18.01 | 14.70 | 1.225 | ok | 1.225 | 1.165-1.285 |
| trans-1,3-Dichloropropene | 12.46 | 10.45 | 1.192 | ok | 1.191 | 1.131-1.251 |
| Ethanol | 5.10 | 8.62 | 0.592 | ok | 0.591 | 0.531-0.651 |
| Ethylbenzene | 15.13 | 14.70 | 1.029 | ok | 1.029 | 0.969-1.089 |
| Ethyl Acetate | 8.66 | 8.62 | 1.005 | ok | 1.004 | 0.944-1.064 |
| 4-Ethyltoluene | 17.21 | 14.70 | 1.171 | ok | 1.171 | 1.111-1.231 |
| Freon 113 | 6.79 | 8.62 | 0.788 | ok | 0.788 | 0.728-0.848 |
| Freon 114 | 4.29 | 8.62 | 0.498 | ok | 0.498 | 0.438-0.558 |
| Heptane | 11.40 | 10.45 | 1.091 | ok | 1.090 | 1.030-1.150 |
| Hexachlorobutadiene | 20.80 | 14.70 | 1.415 | ok | 1.414 | 1.354-1.474 |
| Hexane | 8.66 | 8.62 | 1.005 | ok | 1.004 | 0.944-1.064 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ220-IC220 | Q4139.D | 07/27/07 12:17 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4140.D | 07/27/07 13:01 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ220-ICC220 | Q4141.D | 07/27/07 13:46 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4142.D | 07/27/07 14:32 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4143.D | 07/27/07 15:20 | DFT | 2 | GCMSQ | TO-15 | Reporting this level |
| MSQ220-IC220 | Q4144.D | 07/27/07 16:07 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4145.D | 07/27/07 16:55 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| 2-Hexanone | 13.15 | 14.70 | 0.895 | ok | 0.894 | 0.834-0.954 |
| Isopropylbenzene | 16.47 | 14.70 | 1.120 | ok | 1.120 | 1.060-1.180 |
| Isopropyl Alcohol | 5.82 | 8.62 | 0.675 | ok | 0.675 | 0.615-0.735 |
| Methylene chloride | 6.54 | 8.62 | 0.759 | ok | 0.758 | 0.698-0.818 |
| Methyl ethyl ketone | 8.03 | 8.62 | 0.932 | ok | 0.931 | 0.871-0.991 |
| Methyl Isobutyl Ketone | 11.98 | 10.45 | 1.146 | ok | 1.146 | 1.086-1.206 |
| Methyl Tert Butyl Ether | 7.71 | 8.62 | 0.894 | ok | 0.894 | 0.834-0.954 |
| Nonane | 16.02 | 14.70 | 1.090 | ok | 1.090 | 1.030-1.150 |
| Pentane | 6.14 | 8.62 | 0.712 | ok | 0.712 | 0.652-0.772 |
| Propylene | 3.97 | 8.62 | 0.461 | ok | 0.460 | 0.400-0.520 |
| Styrene | 15.70 | 14.70 | 1.068 | ok | 1.068 | 1.008-1.128 |
| 1,1,1-Trichloroethane | 9.70 | 8.62 | 1.125 | ok | 1.125 | 1.065-1.185 |
| 1,1,2,2-Tetrachloroethane | 15.81 | 14.70 | 1.076 | ok | 1.075 | 1.015-1.135 |
| 1,1,2-Trichloroethane | 12.64 | 10.45 | 1.210 | ok | 1.209 | 1.149-1.269 |
| 1,2,4-Trichlorobenzene | 20.31 | 14.70 | 1.382 | ok | 1.381 | 1.321-1.441 |
| 1,2,4-Trimethylbenzene | 17.76 | 14.70 | 1.208 | ok | 1.208 | 1.148-1.268 |
| 1,3,5-Trimethylbenzene | 17.29 | 14.70 | 1.176 | ok | 1.176 | 1.116-1.236 |
| 2,2,4-Trimethylpentane | 11.16 | 10.45 | 1.068 | ok | 1.068 | 1.008-1.128 |
| Tertiary Butyl Alcohol | 6.43 | 8.62 | 0.746 | ok | 0.746 | 0.686-0.806 |
| Tetrachloroethylene | 14.05 | 14.70 | 0.956 | ok | 0.956 | 0.896-1.016 |
| Tetrahydrofuran | 9.14 | 8.62 | 1.060 | ok | 1.060 | 1.000-1.120 |
| Toluene | 12.92 | 10.45 | 1.236 | ok | 1.235 | 1.175-1.295 |
| Trichloroethylene | 11.14 | 10.45 | 1.066 | ok | 1.065 | 1.005-1.125 |
| Trichlorofluoromethane | 5.78 | 8.62 | 0.671 | ok | 0.671 | 0.611-0.731 |
| Vinyl chloride | 4.42 | 8.62 | 0.513 | ok | 0.512 | 0.452-0.572 |
| Vinyl Acetate | 7.78 | 8.62 | 0.903 | ok | 0.903 | 0.843-0.963 |
| m,p-Xylene | 15.32 | 14.70 | 1.042 | ok | 1.042 | 0.982-1.102 |
| o-Xylene | 15.82 | 14.70 | 1.076 | ok | 1.076 | 1.016-1.136 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+/- 0.33) | Area | | Mean Area | Area Range (+/- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 8.62 | ok | 8.63 | 8.30-8.96 | 299070 | ok | 261211 | 156727-365695 |
| 1,4-Difluorobenzene | 10.45 | ok | 10.46 | 10.13-10.79 | 1416510 | ok | 1201043 | 720626-1681460 |
| Chlorobenzene-D5 | 14.70 | ok | 14.70 | 14.37-15.03 | 1186242 | ok | 1034942 | 620965-1448919 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ220-IC220 | Q4139.D | 07/27/07 12:17 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4140.D | 07/27/07 13:01 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ220-ICC220 | Q4141.D | 07/27/07 13:46 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4142.D | 07/27/07 14:32 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4143.D | 07/27/07 15:20 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4144.D | 07/27/07 16:07 | DFT | 0.5 | GCMSQ | TO-15 | Reporting this level |
| MSQ220-IC220 | Q4145.D | 07/27/07 16:55 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Acetone | 5.60 | 8.62 | 0.650 | ok | 0.649 | 0.589-0.709 |
| 1,3-Butadiene | 4.55 | 8.62 | 0.528 | ok | 0.528 | 0.468-0.588 |
| Benzene | 10.14 | 10.46 | 0.969 | ok | 0.970 | 0.910-1.030 |
| Bromodichloromethane | 11.10 | 10.46 | 1.061 | ok | 1.062 | 1.002-1.122 |
| Bromoform | 15.42 | 14.70 | 1.049 | ok | 1.049 | 0.989-1.109 |
| Bromomethane | 4.83 | 8.62 | 0.560 | ok | 0.560 | 0.500-0.620 |
| Bromoethene | 5.36 | 8.62 | 0.622 | ok | 0.622 | 0.562-0.682 |
| Benzyl Chloride | 17.91 | 14.70 | 1.218 | ok | 1.219 | 1.159-1.279 |
| Carbon disulfide | 6.85 | 8.62 | 0.795 | ok | 0.795 | 0.735-0.855 |
| Chlorobenzene | 14.74 | 14.70 | 1.003 | ok | 1.003 | 0.943-1.063 |
| Chloroethane | 5.00 | 8.62 | 0.580 | ok | 0.580 | 0.520-0.640 |
| Chloroform | 8.75 | 8.62 | 1.015 | ok | 1.014 | 0.954-1.074 |
| Chloromethane | 4.20 | 8.62 | 0.487 | ok | 0.487 | 0.427-0.547 |
| 3-Chloropropene | 6.65 | 8.62 | 0.771 | ok | 0.772 | 0.712-0.832 |
| 2-Chlorotoluene | 17.02 | 14.70 | 1.158 | ok | 1.158 | 1.098-1.218 |
| Carbon tetrachloride | 10.29 | 8.62 | 1.194 | ok | 1.193 | 1.133-1.253 |
| Cyclohexane | 10.41 | 10.46 | 0.995 | ok | 0.995 | 0.935-1.055 |
| 1,1-Dichloroethane | 7.66 | 8.62 | 0.889 | ok | 0.888 | 0.828-0.948 |
| 1,1-Dichloroethylene | 6.42 | 8.62 | 0.745 | ok | 0.744 | 0.684-0.804 |
| 1,2-Dibromoethane | 13.59 | 14.70 | 0.924 | ok | 0.925 | 0.865-0.985 |
| 1,2-Dichloroethane | 9.46 | 8.62 | 1.097 | ok | 1.097 | 1.037-1.157 |
| 1,2-Dichloropropane | 10.92 | 10.46 | 1.044 | ok | 1.044 | 0.984-1.104 |
| 1,4-Dioxane | 11.15 | 10.46 | 1.066 | ok | 1.065 | 1.005-1.125 |
| Dichlorodifluoromethane | 4.03 | 8.62 | 0.468 | ok | 0.467 | 0.407-0.527 |
| Dibromochloromethane | 13.35 | 14.70 | 0.908 | ok | 0.908 | 0.848-0.968 |
| trans-1,2-Dichloroethylene | 7.47 | 8.62 | 0.867 | ok | 0.866 | 0.806-0.926 |
| cis-1,2-Dichloroethylene | 8.47 | 8.62 | 0.983 | ok | 0.982 | 0.922-1.042 |
| cis-1,3-Dichloropropene | 11.96 | 10.46 | 1.143 | ok | 1.144 | 1.084-1.204 |
| m-Dichlorobenzene | 17.94 | 14.70 | 1.220 | ok | 1.220 | 1.160-1.280 |
| o-Dichlorobenzene | 18.40 | 14.70 | 1.252 | ok | 1.251 | 1.191-1.311 |
| p-Dichlorobenzene | 18.01 | 14.70 | 1.225 | ok | 1.225 | 1.165-1.285 |
| trans-1,3-Dichloropropene | 12.46 | 10.46 | 1.191 | ok | 1.191 | 1.131-1.251 |
| Ethanol | 5.10 | 8.62 | 0.592 | ok | 0.591 | 0.531-0.651 |
| Ethylbenzene | 15.13 | 14.70 | 1.029 | ok | 1.029 | 0.969-1.089 |
| Ethyl Acetate | 8.66 | 8.62 | 1.005 | ok | 1.004 | 0.944-1.064 |
| 4-Ethyltoluene | 17.20 | 14.70 | 1.170 | ok | 1.171 | 1.111-1.231 |
| Freon 113 | 6.79 | 8.62 | 0.788 | ok | 0.788 | 0.728-0.848 |
| Freon 114 | 4.30 | 8.62 | 0.499 | ok | 0.498 | 0.438-0.558 |
| Heptane | 11.40 | 10.46 | 1.090 | ok | 1.090 | 1.030-1.150 |
| Hexachlorobutadiene | 20.79 | 14.70 | 1.414 | ok | 1.414 | 1.354-1.474 |
| Hexane | 8.66 | 8.62 | 1.005 | ok | 1.004 | 0.944-1.064 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ220-IC220 | Q4139.D | 07/27/07 12:17 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4140.D | 07/27/07 13:01 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ220-ICC220 | Q4141.D | 07/27/07 13:46 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4142.D | 07/27/07 14:32 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4143.D | 07/27/07 15:20 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4144.D | 07/27/07 16:07 | DFT | 0.5 | GCMSQ | TO-15 | Reporting this level |
| MSQ220-IC220 | Q4145.D | 07/27/07 16:55 | DFT | 0.2 | GCMSQ | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| 2-Hexanone | 13.15 | 14.70 | 0.895 | ok | 0.894 | 0.834-0.954 |
| Isopropylbenzene | 16.47 | 14.70 | 1.120 | ok | 1.120 | 1.060-1.180 |
| Isopropyl Alcohol | 5.83 | 8.62 | 0.676 | ok | 0.675 | 0.615-0.735 |
| Methylene chloride | 6.53 | 8.62 | 0.758 | ok | 0.758 | 0.698-0.818 |
| Methyl ethyl ketone | 8.04 | 8.62 | 0.933 | ok | 0.931 | 0.871-0.991 |
| Methyl Isobutyl Ketone | 11.99 | 10.46 | 1.146 | ok | 1.146 | 1.086-1.206 |
| Methyl Tert Butyl Ether | 7.71 | 8.62 | 0.894 | ok | 0.894 | 0.834-0.954 |
| Nonane | 16.02 | 14.70 | 1.090 | ok | 1.090 | 1.030-1.150 |
| Pentane | 6.13 | 8.62 | 0.711 | ok | 0.712 | 0.652-0.772 |
| Propylene | 3.96 | 8.62 | 0.459 | ok | 0.460 | 0.400-0.520 |
| Styrene | 15.70 | 14.70 | 1.068 | ok | 1.068 | 1.008-1.128 |
| 1,1,1-Trichloroethane | 9.70 | 8.62 | 1.125 | ok | 1.125 | 1.065-1.185 |
| 1,1,2,2-Tetrachloroethane | 15.81 | 14.70 | 1.076 | ok | 1.075 | 1.015-1.135 |
| 1,1,2-Trichloroethane | 12.64 | 10.46 | 1.208 | ok | 1.209 | 1.149-1.269 |
| 1,2,4-Trichlorobenzene | 20.31 | 14.70 | 1.382 | ok | 1.381 | 1.321-1.441 |
| 1,2,4-Trimethylbenzene | 17.76 | 14.70 | 1.208 | ok | 1.208 | 1.148-1.268 |
| 1,3,5-Trimethylbenzene | 17.29 | 14.70 | 1.176 | ok | 1.176 | 1.116-1.236 |
| 2,2,4-Trimethylpentane | 11.16 | 10.46 | 1.067 | ok | 1.068 | 1.008-1.128 |
| Tertiary Butyl Alcohol | 6.45 | 8.62 | 0.748 | ok | 0.746 | 0.686-0.806 |
| Tetrachloroethylene | 14.05 | 14.70 | 0.956 | ok | 0.956 | 0.896-1.016 |
| Tetrahydrofuran | 9.15 | 8.62 | 1.061 | ok | 1.060 | 1.000-1.120 |
| Toluene | 12.92 | 10.46 | 1.235 | ok | 1.235 | 1.175-1.295 |
| Trichloroethylene | 11.14 | 10.46 | 1.065 | ok | 1.065 | 1.005-1.125 |
| Trichlorofluoromethane | 5.79 | 8.62 | 0.672 | ok | 0.671 | 0.611-0.731 |
| Vinyl chloride | 4.42 | 8.62 | 0.513 | ok | 0.512 | 0.452-0.572 |
| Vinyl Acetate | 7.78 | 8.62 | 0.903 | ok | 0.903 | 0.843-0.963 |
| m,p-Xylene | 15.32 | 14.70 | 1.042 | ok | 1.042 | 0.982-1.102 |
| o-Xylene | 15.82 | 14.70 | 1.076 | ok | 1.076 | 1.016-1.136 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+/- 0.33) | Area | | Mean Area | Area Range (+/- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 8.62 | ok | 8.63 | 8.30-8.96 | 265746 | ok | 261211 | 156727-365695 |
| 1,4-Difluorobenzene | 10.46 | ok | 10.46 | 10.13-10.79 | 1126318 | ok | 1201043 | 720626-1681460 |
| Chlorobenzene-D5 | 14.70 | ok | 14.70 | 14.37-15.03 | 953834 | ok | 1034942 | 620965-1448919 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ220-IC220 | Q4139.D | 07/27/07 12:17 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4140.D | 07/27/07 13:01 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ220-ICC220 | Q4141.D | 07/27/07 13:46 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4142.D | 07/27/07 14:32 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4143.D | 07/27/07 15:20 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4144.D | 07/27/07 16:07 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4145.D | 07/27/07 16:55 | DFT | 0.2 | GCMSQ | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Acetone | 5.62 | 8.63 | 0.651 | ok | 0.649 | 0.589-0.709 |
| 1,3-Butadiene | 4.56 | 8.63 | 0.528 | ok | 0.528 | 0.468-0.588 |
| Benzene | 10.15 | 10.46 | 0.970 | ok | 0.970 | 0.910-1.030 |
| Bromodichloromethane | 11.11 | 10.46 | 1.062 | ok | 1.062 | 1.002-1.122 |
| Bromoform | 15.42 | 14.70 | 1.049 | ok | 1.049 | 0.989-1.109 |
| Bromomethane | 4.82 | 8.63 | 0.559 | ok | 0.560 | 0.500-0.620 |
| Bromoethene | 5.37 | 8.63 | 0.622 | ok | 0.622 | 0.562-0.682 |
| Carbon disulfide | 6.85 | 8.63 | 0.794 | ok | 0.795 | 0.735-0.855 |
| Chlorobenzene | 14.75 | 14.70 | 1.003 | ok | 1.003 | 0.943-1.063 |
| Chloroethane | 5.01 | 8.63 | 0.581 | ok | 0.580 | 0.520-0.640 |
| Chloroform | 8.75 | 8.63 | 1.014 | ok | 1.014 | 0.954-1.074 |
| Chloromethane | 4.19 | 8.63 | 0.486 | ok | 0.487 | 0.427-0.547 |
| 3-Chloropropene | 6.65 | 8.63 | 0.771 | ok | 0.772 | 0.712-0.832 |
| 2-Chlorotoluene | 17.02 | 14.70 | 1.158 | ok | 1.158 | 1.098-1.218 |
| Carbon tetrachloride | 10.29 | 8.63 | 1.192 | ok | 1.193 | 1.133-1.253 |
| Cyclohexane | 10.41 | 10.46 | 0.995 | ok | 0.995 | 0.935-1.055 |
| 1,1-Dichloroethane | 7.67 | 8.63 | 0.889 | ok | 0.888 | 0.828-0.948 |
| 1,1-Dichloroethylene | 6.42 | 8.63 | 0.744 | ok | 0.744 | 0.684-0.804 |
| 1,2-Dibromoethane | 13.60 | 14.70 | 0.925 | ok | 0.925 | 0.865-0.985 |
| 1,2-Dichloroethane | 9.46 | 8.63 | 1.096 | ok | 1.097 | 1.037-1.157 |
| 1,2-Dichloropropane | 10.92 | 10.46 | 1.044 | ok | 1.044 | 0.984-1.104 |
| Dichlorodifluoromethane | 4.04 | 8.63 | 0.468 | ok | 0.467 | 0.407-0.527 |
| Dibromochloromethane | 13.35 | 14.70 | 0.908 | ok | 0.908 | 0.848-0.968 |
| trans-1,2-Dichloroethylene | 7.46 | 8.63 | 0.864 | ok | 0.866 | 0.806-0.926 |
| cis-1,2-Dichloroethylene | 8.47 | 8.63 | 0.981 | ok | 0.982 | 0.922-1.042 |
| cis-1,3-Dichloropropene | 11.96 | 10.46 | 1.143 | ok | 1.144 | 1.084-1.204 |
| m-Dichlorobenzene | 17.95 | 14.70 | 1.221 | ok | 1.220 | 1.160-1.280 |
| o-Dichlorobenzene | 18.40 | 14.70 | 1.252 | ok | 1.251 | 1.191-1.311 |
| p-Dichlorobenzene | 18.01 | 14.70 | 1.225 | ok | 1.225 | 1.165-1.285 |
| trans-1,3-Dichloropropene | 12.46 | 10.46 | 1.191 | ok | 1.191 | 1.131-1.251 |
| Ethanol | 5.10 | 8.63 | 0.591 | ok | 0.591 | 0.531-0.651 |
| Ethylbenzene | 15.13 | 14.70 | 1.029 | ok | 1.029 | 0.969-1.089 |
| Ethyl Acetate | 8.67 | 8.63 | 1.005 | ok | 1.004 | 0.944-1.064 |
| 4-Ethyltoluene | 17.29 | 14.70 | 1.176 | ok | 1.171 | 1.111-1.231 |
| Freon 113 | 6.80 | 8.63 | 0.788 | ok | 0.788 | 0.728-0.848 |
| Freon 114 | 4.30 | 8.63 | 0.498 | ok | 0.498 | 0.438-0.558 |
| Heptane | 11.40 | 10.46 | 1.090 | ok | 1.090 | 1.030-1.150 |
| Hexachlorobutadiene | 20.79 | 14.70 | 1.414 | ok | 1.414 | 1.354-1.474 |
| Hexane | 8.66 | 8.63 | 1.003 | ok | 1.004 | 0.944-1.064 |
| Isopropylbenzene | 16.47 | 14.70 | 1.120 | ok | 1.120 | 1.060-1.180 |
| Isopropyl Alcohol | 5.85 | 8.63 | 0.678 | ok | 0.675 | 0.615-0.735 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| MSQ220-IC220 | Q4139.D | 07/27/07 12:17 | DFT | 40 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4140.D | 07/27/07 13:01 | DFT | 20 | GCMSQ | TO-15 | |
| MSQ220-ICC220 | Q4141.D | 07/27/07 13:46 | DFT | 10 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4142.D | 07/27/07 14:32 | DFT | 5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4143.D | 07/27/07 15:20 | DFT | 2 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4144.D | 07/27/07 16:07 | DFT | 0.5 | GCMSQ | TO-15 | |
| MSQ220-IC220 | Q4145.D | 07/27/07 16:55 | DFT | 0.2 | GCMSQ | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+/- .06) |
|---|---|---|---|---|---|---|
| Methylene chloride | 6.54 | 8.63 | 0.758 | ok | 0.758 | 0.698-0.818 |
| Methyl ethyl ketone | 8.05 | 8.63 | 0.933 | ok | 0.931 | 0.871-0.991 |
| Methyl Isobutyl Ketone | 11.99 | 10.46 | 1.146 | ok | 1.146 | 1.086-1.206 |
| Methyl Tert Butyl Ether | 7.73 | 8.63 | 0.896 | ok | 0.894 | 0.834-0.954 |
| Nonane | 16.02 | 14.70 | 1.090 | ok | 1.090 | 1.030-1.150 |
| Pentane | 6.14 | 8.63 | 0.711 | ok | 0.712 | 0.652-0.772 |
| Propylene | 3.96 | 8.63 | 0.459 | ok | 0.460 | 0.400-0.520 |
| Styrene | 15.71 | 14.70 | 1.069 | ok | 1.068 | 1.008-1.128 |
| 1,1,1-Trichloroethane | 9.70 | 8.63 | 1.124 | ok | 1.125 | 1.065-1.185 |
| 1,1,2,2-Tetrachloroethane | 15.81 | 14.70 | 1.076 | ok | 1.075 | 1.015-1.135 |
| 1,1,2-Trichloroethane | 12.65 | 10.46 | 1.209 | ok | 1.209 | 1.149-1.269 |
| 1,2,4-Trimethylbenzene | 17.75 | 14.70 | 1.207 | ok | 1.208 | 1.148-1.268 |
| 1,3,5-Trimethylbenzene | 17.29 | 14.70 | 1.176 | ok | 1.176 | 1.116-1.236 |
| 2,2,4-Trimethylpentane | 11.16 | 10.46 | 1.067 | ok | 1.068 | 1.008-1.128 |
| Tertiary Butyl Alcohol | 6.46 | 8.63 | 0.749 | ok | 0.746 | 0.686-0.806 |
| Tetrachloroethylene | 14.05 | 14.70 | 0.956 | ok | 0.956 | 0.896-1.016 |
| Tetrahydrofuran | 9.16 | 8.63 | 1.061 | ok | 1.060 | 1.000-1.120 |
| Toluene | 12.92 | 10.46 | 1.235 | ok | 1.235 | 1.175-1.295 |
| Trichloroethylene | 11.14 | 10.46 | 1.065 | ok | 1.065 | 1.005-1.125 |
| Trichlorofluoromethane | 5.78 | 8.63 | 0.670 | ok | 0.671 | 0.611-0.731 |
| Vinyl chloride | 4.42 | 8.63 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Vinyl Acetate | 7.79 | 8.63 | 0.903 | ok | 0.903 | 0.843-0.963 |
| m,p-Xylene | 15.32 | 14.70 | 1.042 | ok | 1.042 | 0.982-1.102 |
| o-Xylene | 15.82 | 14.70 | 1.076 | ok | 1.076 | 1.016-1.136 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+/- 0.33) | Area | | Mean Area | Area Range (+/- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 8.63 | ok | 8.63 | 8.30-8.96 | 222886 | ok | 261211 | 156727-365695 |
| 1,4-Difluorobenzene | 10.46 | ok | 10.46 | 10.13-10.79 | 911910 | ok | 1201043 | 720626-1681460 |
| Chlorobenzene-D5 | 14.70 | ok | 14.70 | 14.37-15.03 | 769086 | ok | 1034942 | 620965-1448919 |

# Volatile Surrogate Recovery Summary



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Method:** TO-15 **Matrix:** AIR

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 |
|---|---|---|
| M66578-1 | Q4167.D | 101.0 |
| M66578-2 | Q4169.D | 106.0 |
| M66578-1DUP | Q4168.D | 101.0 |
| MSJ562-SCC | J10885.D | 88.0 |
| MSQ214-SCC | Q3994.D | 101.0 |
| MSQ221-BS | Q4163A.D | 112.0 |
| MSQ221-MB | Q4164.D | 86.0 |
| MSJ562-BS | J10868B.D | 109.0 |
| MSJ562-MB | J10870.D | 90.0 |
| MSQ214-BS | Q3984B.D | 108.0 |
| MSQ214-MB | Q3986.D | 91.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = 4-Bromofluorobenzene | 57-139% |

# Initial Calibration Summary



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSJ562-ICC562
**Lab FileID:** J10865.D

Response Factor Report MSJ

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 17:30:53 2007
Response via : Initial Calibration

Calibration Files
40 =J10863.D 20 =J10864.D 10 =J10865.D 5 =J10866.D
2 =J10867.D .5 =J10860.D .2 =J10861.D 4 =J10094.D

| Compound | 40 | 20 | 10 | 5 | 2 | .5 | .2 | 4 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) I BROMOCHLOROMETHANE | ----------ISTD---------- | | | | | | | | | |
| 2) DICHLORODIFL | 3.173 | 2.102 | 3.010 | 3.772 | 3.475 | 3.808 | 3.371 | | 3.245 | 17.93 |
| 3) PROPYLENE | 0.583 | 0.367 | 0.542 | 0.636 | 0.532 | 0.492 | 0.336 | | 0.498 | 22.09 |
| 4) FREON 114 | 2.929 | 1.963 | 2.586 | 3.470 | 2.749 | 3.358 | 2.925 | | 2.854 | 17.64 |
| 5) CHLOROMETHAN | 0.763 | 0.478 | 0.656 | 0.898 | 0.737 | 0.886 | 0.777 | | 0.742 | 19.38 |
| 6) VINYL CHLORI | 0.900 | 0.601 | 0.776 | 1.047 | 0.782 | 0.989 | 0.699 | | 0.828 | 19.25 |
| 7) 1,3-BUTADIEN | 0.711 | 0.482 | 0.610 | 0.769 | 0.562 | 0.624 | 0.405 | | 0.595 | 21.11 |
| 8) BROMOMETHANE | 0.972 | 0.884 | 0.892 | 1.153 | 0.894 | 1.055 | 0.839 | | 0.956 | 11.74 |
| 9) CHLOROETHANE | 0.426 | 0.381 | 0.377 | 0.426 | 0.346 | 0.426 | 0.299 | | 0.383 | 12.62 |
| 10) TRICHLOROFLU | 3.259 | 3.051 | 2.950 | 3.857 | 3.058 | 3.731 | 3.205 | | 3.301 | 10.70 |
| 11) ISOPROPYL AL | 1.102 | 1.076 | 0.949 | 1.036 | 0.733 | 1.072 | | | 0.995 | 13.97 |
| 12) ACETONE | 1.129 | 1.014 | 0.950 | 1.150 | 0.867 | 1.571 | 1.508 | | 1.170 | 23.19 |
| 13) PENTANE | 0.822 | 0.746 | 0.726 | 0.906 | 0.684 | 0.830 | 0.748 | | 0.780 | 9.70 |
| 14) 1,1-DICHLORO | 0.990 | 0.967 | 0.893 | 1.095 | 0.800 | 0.827 | 0.539 | | 0.873 | 20.44 |
| 15) CARBON DISUL | 2.817 | 2.749 | 2.566 | 3.305 | 2.630 | 3.144 | 2.582 | | 2.828 | 10.23 |
| 16) ETHANOL | 0.197 | 0.179 | 0.161 | 0.175 | 0.088 | 0.055 | | | 0.142 | 40.20 |
| ----- Linear regression ----- Coefficient = 0.9976 | | | | | | | | | | |
| Response Ratio = -0.02174 + 0.19949 *A | | | | | | | | | | |
| 17) BROMOETHENE | 0.987 | 0.929 | 0.880 | 1.095 | 0.767 | 0.754 | 0.494 | | 0.844 | 23.12 |
| 18) METHYLENE CH | 0.878 | 0.837 | 0.807 | 0.985 | 0.820 | 2.085 | 2.307 | | 1.246 | 52.58 |
| ----- Linear regression ----- Coefficient = 0.9983 | | | | | | | | | | |
| Response Ratio = 0.01284 + 0.86359 *A | | | | | | | | | | |
| 19) 3-CHLOROPROP | 0.981 | 0.790 | 0.673 | 0.715 | 0.575 | 0.661 | | | 0.732 | 19.19 |
| 20) FREON 113 | 2.074 | 1.964 | 1.865 | 2.177 | 1.813 | 2.448 | 2.249 | | 2.084 | 10.80 |
| 21) TRANS-1,2-DI | 0.983 | 0.957 | 0.864 | 0.999 | 0.747 | 0.896 | 0.591 | | 0.862 | 17.08 |
| 22) TERTIARY BUT | 1.396 | 1.418 | 1.202 | 1.265 | 0.705 | 0.805 | | | 1.132 | 26.91 |
| 23) METHYL TERTI | 2.088 | 2.043 | 1.813 | 2.032 | 1.456 | 1.322 | 1.002 | | 1.680 | 25.24 |
| 24) TETRAHYDROFU | 0.689 | 0.654 | 0.572 | 0.618 | 0.376 | 0.347 | | | 0.543 | 26.84 |
| 25) HEXANE | 1.157 | 1.090 | 1.014 | 1.163 | 0.890 | 1.224 | 1.119 | | 1.094 | 10.18 |
| 26) VINYL ACETAT | 1.475 | 1.359 | 1.182 | 1.290 | 0.804 | 0.807 | | | 1.153 | 24.75 |
| 27) 1,1-DICHLORO | 1.701 | 1.561 | 1.442 | 1.658 | 1.276 | 1.726 | 1.287 | | 1.522 | 12.46 |
| 28) METHYL ETHYL | 1.350 | 1.264 | 1.135 | 1.249 | 0.862 | 1.312 | 0.906 | | 1.154 | 17.01 |
| 29) cis-1,2-DICH | 0.985 | 0.925 | 0.814 | 0.955 | 0.708 | 0.868 | 0.604 | | 0.837 | 16.62 |
| 30) ETHYL ACETAT | 1.530 | 1.420 | 1.266 | 1.369 | 0.980 | 1.349 | 0.972 | | 1.269 | 16.99 |
| 31) CHLOROFORM | 2.326 | 2.162 | 1.983 | 2.332 | 1.854 | 2.479 | 2.002 | | 2.163 | 10.50 |
| 32) 1,1,1-TRICHL | 2.690 | 2.411 | 2.209 | 2.502 | 1.978 | 2.608 | 2.049 | | 2.350 | 11.77 |
| 33) CARBON TETRA | 3.073 | 2.861 | 2.724 | 3.112 | 2.503 | 3.305 | 2.704 | | 2.897 | 9.64 |
| 34) 1,2-DICHLORO | 1.371 | 1.245 | 1.120 | 1.382 | 1.036 | 1.237 | 0.873 | | 1.181 | 15.59 |
| 35) I 1,4-DIFLUOROBENZENE | ----------ISTD---------- | | | | | | | | | |
| 36) BENZENE | 0.641 | 0.560 | 0.463 | 0.557 | 0.395 | 0.409 | 0.274 | | 0.471 | 26.36 |
| 37) CYCLOHEXANE | 0.279 | 0.258 | 0.226 | 0.257 | 0.182 | 0.136 | | | 0.223 | 24.35 |
| 38) TRICHLOROETH | 0.330 | 0.284 | 0.240 | 0.294 | 0.208 | 0.250 | 0.154 | | 0.251 | 23.38 |
| 39) 1,2-DICHLORO | 0.208 | 0.178 | 0.148 | 0.180 | 0.131 | 0.150 | 0.119 | | 0.159 | 19.62 |

# Initial Calibration Summary

**Job Number:** M66578 **Sample:** MSJ562-ICC562
**Account:** GEI GEI Consultants, Inc. **Lab FileID:** J10865.D
**Project:** GEI Tufts Street Somerville MA

```
40) BROMODICHLOR 0.565 0.489 0.410 0.498 0.382 0.488 0.395       0.461  14.52
41) 2,2,4-TRIMET 1.038 0.905 0.755 0.812 0.576 0.530 0.321       0.705  34.71
            ----- Linear regression -----  Coefficient =  0.9940
              Response Ratio = -0.11253 + 1.03736 *A

42) 1,4-DIOXANE  0.112 0.104 0.083 0.084 0.038 0.028             0.075  46.11
            ----- Linear regression -----  Coefficient =  0.9970
              Response Ratio = -0.01651 + 0.11476 *A

43) HEPTANE      0.328 0.285 0.243 0.270 0.184 0.194             0.251  22.00
44) METHYL ISOBU 0.400 0.343 0.284 0.289 0.176 0.191             0.281  30.78
         ----- Quadratic regression -----                Coefficient =  0.9996
              Response Ratio = -0.01416 + 0.28645 *A + 0.02935 *A^2

45) cis-1,3-DICH 0.315 0.278 0.219 0.257 0.149 0.142 0.091       0.207  39.60
         ----- Quadratic regression -----                Coefficient =  0.9990
              Response Ratio = -0.00773 + 0.23146 *A + 0.02144 *A^2

46) TOLUENE      0.457 0.390 0.317 0.367 0.235 0.190 0.128       0.298  39.62
         ----- Quadratic regression -----                Coefficient =  0.9994
              Response Ratio = -0.00693 + 0.31551 *A + 0.03600 *A^2

47) trans-1,3-DI 0.315 0.268 0.211 0.232 0.133 0.124 0.073       0.194  44.72
         ----- Quadratic regression -----                Coefficient =  0.9993
              Response Ratio = -0.00822 + 0.21484 *A + 0.02558 *A^2

48) 1,1,2-TRICHL 0.212 0.183 0.155 0.186 0.137 0.166 0.117       0.165  19.28

49) I   CHLOROBENZENE-D5      ----------------ISTD---------------------
50) 2-HEXANONE   0.358 0.317 0.262 0.278 0.156 0.191             0.260  29.06
51) TETRACHLOROE 0.403 0.353 0.300 0.364 0.275 0.298 0.243       0.319  17.53
52) DIBROMOCHLOR 0.566 0.525 0.445 0.541 0.421 0.514 0.376       0.484  14.55
53) 1,2-DIBROMOE 0.420 0.378 0.313 0.382 0.264 0.328 0.240       0.332  19.70
54) CHLOROBENZEN 0.653 0.580 0.503 0.611 0.461 0.566 0.437       0.545  14.60
55) ETHYLBENZENE 1.049 0.932 0.790 0.884 0.550 0.428 0.290       0.703  40.31
         ----- Quadratic regression -----                Coefficient =  0.9995
              Response Ratio = -0.02285 + 0.80474 *A + 0.06280 *A^2

56) m,p-XYLENE   0.440 0.383 0.328 0.366 0.237 0.168 0.098       0.288  43.15
         ----- Quadratic regression -----                Coefficient =  0.9996
              Response Ratio = -0.01530 + 0.32472 *A + 0.01463 *A^2

57) o-XYLENE     0.443 0.382 0.323 0.360 0.230 0.170 0.095       0.286  43.68
         ----- Quadratic regression -----                Coefficient =  0.9996
              Response Ratio = -0.00767 + 0.31832 *A + 0.03171 *A^2

58) STYRENE      0.631 0.536 0.414 0.427 0.210 0.170 0.110       0.357  55.26
         ----- Quadratic regression -----                Coefficient =  0.9993
              Response Ratio = -0.02393 + 0.42757 *A + 0.05261 *A^2

59) NONANE       0.467 0.407 0.344 0.371 0.239 0.189             0.336  31.05
         ----- Quadratic regression -----                Coefficient =  0.9996
              Response Ratio = -0.01285 + 0.34623 *A + 0.03101 *A^2

60) BROMOFORM    0.592 0.518 0.425 0.500 0.356 0.493 0.319       0.458  21.00
61) 4-BROMOFLUOR 0.718 0.689 0.659 0.585 0.576 0.557 0.515       0.614  12.19
62) 1,1,2,2-TETR 0.582 0.504 0.415 0.475 0.366 0.563 0.350       0.465  19.77
63) ISOPROPYLBEN 1.240 1.080 0.918 0.979 0.617 0.565 0.347       0.821  38.80
         ----- Quadratic regression -----                Coefficient =  0.9997
              Response Ratio = -0.02662 + 0.91136 *A + 0.08406 *A^2
```

# Initial Calibration Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSJ562-ICC562
**Lab FileID:** J10865.D

```
64) 2-CHLOROTOLU 0.887 0.761 0.615 0.658 0.392 0.348 0.216       0.554  43.67
         ----- Quadratic regression -----                 Coefficient =  0.9995
              Response Ratio = -0.02322 + 0.62009 *A + 0.06843 *A^2

65) 4-ETHYLTOLUE 1.217 1.001 0.775 0.807 0.462 0.361             0.770  41.71
         ----- Quadratic regression -----                 Coefficient =  0.9995
              Response Ratio = -0.04549 + 0.77656 *A + 0.11330 *A^2

66) 1,3,5-TRIMET 1.078 0.904 0.727 0.780 0.490 0.423             0.734  33.67
         ----- Quadratic regression -----                 Coefficient =  0.9996
              Response Ratio = -0.03008 + 0.72197 *A + 0.09109 *A^2

67) 1,2,4-TRIMET 1.009 0.819 0.643 0.677 0.376 0.305             0.638  41.54
         ----- Quadratic regression -----                 Coefficient =  0.9996
              Response Ratio = -0.03207 + 0.62570 *A + 0.09805 *A^2

68) m-DICHLOROBE 0.740 0.584 0.461 0.539 0.373 0.492 0.253       0.492  31.54
         ----- Quadratic regression -----                 Coefficient =  0.9995
              Response Ratio = 0.00104 + 0.41544 *A + 0.08106 *A^2

69) BENZYL CHLOR 0.616 0.486 0.372 0.397 0.210 0.317 0.162       0.366  42.69
         ----- Quadratic regression -----                 Coefficient =  0.9995
              Response Ratio = -0.01055 + 0.34527 *A + 0.06855 *A^2

70) p-DICHLOROBE 0.697 0.553 0.440 0.524 0.351 0.389 0.224       0.454  33.84
         ----- Quadratic regression -----                 Coefficient =  0.9995
              Response Ratio = 0.00037 + 0.39909 *A + 0.07450 *A^2

71) o-DICHLOROBE 0.630 0.498 0.396 0.461 0.299 0.460 0.249       0.427  29.81
72) HEXACHLOROBU 0.310 0.275 0.254 0.289 0.233 0.919 0.710       0.427  63.83
         ----- Quadratic regression -----                 Coefficient =  0.9993
              Response Ratio = 0.01695 + 0.22420 *A + 0.02043 *A^2

73) 1,2,4-TRICHL 0.200 0.172 0.151 0.155 0.093 0.369 0.199       0.191  45.12
         ----- Quadratic regression -----                 Coefficient =  0.9995
              Response Ratio = 0.00138 + 0.13941 *A + 0.01503 *A^2

74) NAPHTHALENE                                                  0.000  -1.00
-------------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          J070507T.M        Fri Jul 06 11:22:14 2007
```

# Continuing Calibration Summary



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSJ562-CC562
**Lab FileID:** J10868A.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\J10868A.D  Vial: 3
Acq On : 5 Jul 2007 5:56 pm  Operator: danat
Sample : cc562-10 (M080)  Inst : MSJ
Misc : MS13866, MSJ562,,,,,1  Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 17:30:53 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 40% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 180%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 97 | -0.01 | 8.60 |
| 2 | m | DICHLORODIFLUOROMETHANE | 3.245 | 3.058 | 5.8 | 99 | 0.00 | 4.06 |
| 3 | m | PROPYLENE | 0.498 | 0.528 | -6.0 | 94 | 0.00 | 3.99 |
| 4 | m | FREON 114 | 2.854 | 2.812 | 1.5 | 105 | 0.00 | 4.32 |
| 5 | m | CHLOROMETHANE | 0.742 | 0.737 | 0.7 | 109 | 0.00 | 4.23 |
| 6 | m | VINYL CHLORIDE | 0.828 | 0.869 | -5.0 | 109 | 0.00 | 4.44 |
| 7 | m | 1,3-BUTADIENE | 0.595 | 0.670 | -12.6 | 107 | 0.00 | 4.57 |
| 8 | m | BROMOMETHANE | 0.956 | 0.957 | -0.1 | 104 | -0.01 | 4.84 |
| 9 | m | CHLOROETHANE | 0.383 | 0.405 | -5.7 | 104 | -0.01 | 5.01 |
| 10 | m | TRICHLOROFLUOROMETHANE | 3.301 | 3.269 | 1.0 | 108 | -0.01 | 5.77 |
| 11 | m | ISOPROPYL ALCOHOL | 0.995 | 1.086 | -9.1 | 111 | 0.02 | 5.99 |
| 12 | m | ACETONE | 1.170 | 1.135 | 3.0 | 116 | -0.01 | 5.64 |
| 13 | m | PENTANE | 0.780 | 0.812 | -4.1 | 108 | -0.01 | 6.12 |
| 14 | m | 1,1-DICHLOROETHYLENE | 0.873 | 0.887 | -1.6 | 96 | -0.01 | 6.40 |
| 15 | m | CARBON DISULFIDE | 2.828 | 2.670 | 5.6 | 101 | -0.01 | 6.82 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 16 | m | ETHANOL | 10.000 | 10.799 | -8.0 | 117 | 0.04 | 5.26 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 17 | m | BROMOETHENE | 0.844 | 0.923 | -9.4 | 102 | -0.01 | 5.36 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 18 | m | METHYLENE CHLORIDE | 10.000 | 9.923 | 0.8 | 105 | -0.01 | 6.52 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 19 | m | 3-CHLOROPROPENE | 0.732 | 0.787 | -7.5 | 113 | -0.01 | 6.63 |
| 20 | m | FREON 113 | 2.084 | 1.924 | 7.7 | 100 | -0.01 | 6.76 |
| 21 | m | TRANS-1,2-DICHLOROETHYLEN | 0.862 | 0.903 | -4.8 | 101 | -0.02 | 7.43 |
| 22 | m | TERTIARY BUTYL ALCOHOL | 1.132 | 1.332 | -17.7 | 107 | 0.00 | 6.57 |
| 23 | m | METHYL TERTIARY BUTYL ETH | 1.680 | 1.975 | -17.6 | 106 | -0.01 | 7.71 |
| 24 | m | TETRAHYDROFURAN | 0.543 | 0.629 | -15.8 | 107 | -0.01 | 9.16 |
| 25 | m | HEXANE | 1.094 | 1.053 | 3.7 | 101 | -0.01 | 8.61 |
| 26 | m | VINYL ACETATE | 1.153 | 1.269 | -10.1 | 104 | -0.01 | 7.78 |
| 27 | m | 1,1-DICHLOROETHANE | 1.522 | 1.572 | -3.3 | 106 | -0.01 | 7.63 |
| 28 | m | METHYL ETHYL KETONE | 1.154 | 1.227 | -6.3 | 105 | 0.00 | 8.07 |
| 29 | m | cis-1,2-DICHLOROETHYLENE | 0.837 | 0.868 | -3.7 | 103 | -0.01 | 8.44 |
| 30 | m | ETHYL ACETATE | 1.269 | 1.332 | -5.0 | 102 | -0.01 | 8.67 |
| 31 | m | CHLOROFORM | 2.163 | 2.225 | -2.9 | 109 | -0.01 | 8.72 |
| 32 | m | 1,1,1-TRICHLOROETHANE | 2.350 | 2.431 | -3.4 | 107 | -0.01 | 9.66 |
| 33 | m | CARBON TETRACHLORIDE | 2.897 | 2.986 | -3.1 | 106 | -0.01 | 10.24 |
| 34 | m | 1,2-DICHLOROETHANE | 1.181 | 1.316 | -11.4 | 114 | -0.01 | 9.43 |

# Continuing Calibration Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSJ562-CC562
**Lab FileID:** J10868A.D

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 35 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 97 | 0.00 | 10.43 |
| 36 | m | BENZENE | 0.471 | 0.535 | -13.6 | 112 | 0.00 | 10.11 |
| 37 | m | CYCLOHEXANE | 0.223 | 0.241 | -8.1 | 103 | 0.00 | 10.35 |
| 38 | m | TRICHLOROETHYLENE | 0.251 | 0.285 | -13.5 | 115 | 0.00 | 11.10 |
| 39 | m | 1,2-DICHLOROPROPANE | 0.159 | 0.181 | -13.8 | 118 | 0.00 | 10.89 |
| 40 | m | BROMODICHLOROMETHANE | 0.461 | 0.491 | -6.5 | 116 | 0.00 | 11.08 |
| | | ---------- | True | Calc. | % Drift | | ---------- | |
| 41 | m | 2,2,4-TRIMETHYLPENTANE | 10.000 | 9.398 | 6.0 | 110 | -0.01 | 11.10 |
| 42 | m | 1,4-DIOXANE | 10.000 | 9.346 | 6.5 | 106 | 0.00 | 11.17 |
| | | ---------- | AvgRF | CCRF | % Dev | | ---------- | |
| 43 | m | HEPTANE | 0.251 | 0.273 | -8.8 | 108 | -0.01 | 11.34 |
| | | ---------- | True | Calc. | % Drift | | ---------- | |
| 44 | m | METHYL ISOBUTYL KETONE | 10.000 | 10.328 | -3.3 | 107 | 0.00 | 11.99 |
| 45 | m | cis-1,3-DICHLOROPROPENE | 10.000 | 10.947 | -9.5 | 120 | 0.00 | 11.93 |
| 46 | m | TOLUENE | 10.000 | 11.035 | -10.4 | 117 | 0.00 | 12.88 |
| 47 | m | trans-1,3-DICHLOROPROPENE | 10.000 | 9.167 | 8.3 | 96 | 0.00 | 12.44 |
| | | ---------- | AvgRF | CCRF | % Dev | | ---------- | |
| 48 | m | 1,1,2-TRICHLOROETHANE | 0.165 | 0.195 | -18.2 | 122 | 0.00 | 12.62 |
| 49 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 98 | 0.00 | 14.67 |
| 50 | m | 2-HEXANONE | 0.260 | 0.268 | -3.1 | 100 | 0.00 | 13.17 |
| 51 | m | TETRACHLOROETHYLENE | 0.319 | 0.368 | -15.4 | 120 | 0.00 | 14.01 |
| 52 | m | DIBROMOCHLOROMETHANE | 0.484 | 0.541 | -11.8 | 119 | 0.00 | 13.33 |
| 53 | m | 1,2-DIBROMOETHANE | 0.332 | 0.373 | -12.3 | 116 | 0.00 | 13.57 |
| 54 | m | CHLOROBENZENE | 0.476 | 0.598 | -25.6 | 116 | 0.00 | 14.72 |
| | | ---------- | True | Calc. | % Drift | | ---------- | |
| 55 | m | ETHYLBENZENE | 10.000 | 11.171 | -11.7 | 118 | 0.00 | 15.09 |
| 56 | m | m,p-XYLENE | 20.000 | 22.739 | -13.7 | 119 | 0.00 | 15.28 |
| 57 | m | o-XYLENE | 10.000 | 11.552 | -15.5 | 122 | 0.00 | 15.79 |
| 58 | m | STYRENE | 10.000 | 10.453 | -4.5 | 113 | 0.00 | 15.68 |
| 59 | m | NONANE | 10.000 | 11.858 | -18.6 | 125 | 0.00 | 15.97 |
| | | ---------- | AvgRF | CCRF | % Dev | | ---------- | |
| 60 | m | BROMOFORM | 0.458 | 0.532 | -16.2 | 122 | 0.00 | 15.41 |
| 61 | S | 4-BROMOFLUOROBENZENE | 0.538 | 0.668 | -24.2 | 99 | 0.00 | 16.30 |
| 62 | m | 1,1,2,2-TETRACHLOROETHANE | 0.465 | 0.538 | -15.7 | 127 | 0.00 | 15.80 |
| | | ---------- | True | Calc. | % Drift | | ---------- | |
| 63 | m | ISOPROPYLBENZENE | 10.000 | 11.656 | -16.6 | 122 | 0.00 | 16.43 |
| 64 | m | 2-CHLOROTOLUENE | 10.000 | 11.725 | -17.2 | 127 | 0.00 | 16.98 |
| 65 | m | 4-ETHYLTOLUENE | 10.000 | 10.702 | -7.0 | 115 | 0.00 | 17.17 |
| 66 | m | 1,3,5-TRIMETHYLBENZENE | 10.000 | 11.609 | -16.1 | 125 | 0.00 | 17.26 |
| 67 | m | 1,2,4-TRIMETHYLBENZENE | 10.000 | 11.800 | -18.0 | 128 | 0.00 | 17.72 |
| 68 | m | m-DICHLOROBENZENE | 10.000 | 11.227 | -12.3 | 121 | 0.00 | 17.91 |
| 69 | m | BENZYL CHLORIDE | 10.000 | 9.802 | 2.0 | 103 | 0.00 | 17.89 |
| 70 | m | p-DICHLOROBENZENE | 10.000 | 10.633 | -6.3 | 113 | 0.00 | 17.98 |
| | | ---------- | AvgRF | CCRF | % Dev | | ---------- | |
| 71 | m | o-DICHLOROBENZENE | 0.427 | 0.526 | -23.2 | 130 | 0.00 | 18.37 |
| | | ---------- | True | Calc. | % Drift | | ---------- | |
| 72 | m | HEXACHLOROBUTADIENE | 10.000 | 15.845 | -58.5# | 163 | 0.00 | 20.76 |
| 73 | m | 1,2,4-TRICHLOROBENZENE | 10.000 | 11.454 | -14.5 | 117 | 0.00 | 20.27 |

# Continuing Calibration Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSJ562-CC562
**Lab FileID:** J10868A.D

```
            ----------------------- AvgRF   CCRF     % Dev   -------------
74 m   NAPHTHALENE                          ----------NA----------
-------------------------------------------------------------------------------

 (  1.4 %)  1 of  70 compounds'%D > 30
-------------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    J10865.D   J070507T.M       Fri Jul 06 11:51:03 2007
```

# Initial Calibration Verification



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSJ562-ICV562
**Lab FileID:** J10868.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\J10868.D  Vial: 3
Acq On : 5 Jul 2007 5:56 pm  Operator: danat
Sample : icv562-10 (M080)  Inst : MSJ
Misc : MS13866, MSJ562,,,,,1  Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 17:30:53 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 40% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 180%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 97 | -0.01 | 8.60 |
| 2 | m | DICHLORODIFLUOROMETHANE | 3.245 | 3.058 | 5.8 | 99 | 0.00 | 4.06 |
| 3 | m | PROPYLENE | 0.498 | 0.528 | -6.0 | 94 | 0.00 | 3.99 |
| 4 | m | FREON 114 | 2.854 | 2.812 | 1.5 | 105 | 0.00 | 4.32 |
| 5 | m | CHLOROMETHANE | 0.742 | 0.737 | 0.7 | 109 | 0.00 | 4.23 |
| 6 | m | VINYL CHLORIDE | 0.828 | 0.869 | -5.0 | 109 | 0.00 | 4.44 |
| 7 | m | 1,3-BUTADIENE | 0.595 | 0.670 | -12.6 | 107 | 0.00 | 4.57 |
| 8 | m | BROMOMETHANE | 0.956 | 0.957 | -0.1 | 104 | -0.01 | 4.84 |
| 9 | m | CHLOROETHANE | 0.383 | 0.405 | -5.7 | 104 | -0.01 | 5.01 |
| 10 | m | TRICHLOROFLUOROMETHANE | 3.301 | 3.269 | 1.0 | 108 | -0.01 | 5.77 |
| 11 | m | ISOPROPYL ALCOHOL | 0.995 | 1.086 | -9.1 | 111 | 0.02 | 5.99 |
| 12 | m | ACETONE | 1.170 | 1.135 | 3.0 | 116 | -0.01 | 5.64 |
| 13 | m | PENTANE | 0.780 | 0.812 | -4.1 | 108 | -0.01 | 6.12 |
| 14 | m | 1,1-DICHLOROETHYLENE | 0.873 | 0.887 | -1.6 | 96 | -0.01 | 6.40 |
| 15 | m | CARBON DISULFIDE | 2.828 | 2.670 | 5.6 | 101 | -0.01 | 6.82 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 16 | m | ETHANOL | 10.000 | 10.799 | -8.0 | 117 | 0.04 | 5.26 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 17 | m | BROMOETHENE | 0.844 | 0.923 | -9.4 | 102 | -0.01 | 5.36 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 18 | m | METHYLENE CHLORIDE | 10.000 | 9.923 | 0.8 | 105 | -0.01 | 6.52 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 19 | m | 3-CHLOROPROPENE | 0.732 | 0.787 | -7.5 | 113 | -0.01 | 6.63 |
| 20 | m | FREON 113 | 2.084 | 1.924 | 7.7 | 100 | -0.01 | 6.76 |
| 21 | m | TRANS-1,2-DICHLOROETHYLEN | 0.862 | 0.903 | -4.8 | 101 | -0.02 | 7.43 |
| 22 | m | TERTIARY BUTYL ALCOHOL | 1.132 | 1.332 | -17.7 | 107 | 0.00 | 6.57 |
| 23 | m | METHYL TERTIARY BUTYL ETH | 1.680 | 1.975 | -17.6 | 106 | -0.01 | 7.71 |
| 24 | m | TETRAHYDROFURAN | 0.543 | 0.629 | -15.8 | 107 | -0.01 | 9.16 |
| 25 | m | HEXANE | 1.094 | 1.053 | 3.7 | 101 | -0.01 | 8.61 |
| 26 | m | VINYL ACETATE | 1.153 | 1.269 | -10.1 | 104 | -0.01 | 7.78 |
| 27 | m | 1,1-DICHLOROETHANE | 1.522 | 1.572 | -3.3 | 106 | -0.01 | 7.63 |
| 28 | m | METHYL ETHYL KETONE | 1.154 | 1.227 | -6.3 | 105 | 0.00 | 8.07 |
| 29 | m | cis-1,2-DICHLOROETHYLENE | 0.837 | 0.868 | -3.7 | 103 | -0.01 | 8.44 |
| 30 | m | ETHYL ACETATE | 1.269 | 1.332 | -5.0 | 102 | -0.01 | 8.67 |
| 31 | m | CHLOROFORM | 2.163 | 2.225 | -2.9 | 109 | -0.01 | 8.72 |
| 32 | m | 1,1,1-TRICHLOROETHANE | 2.350 | 2.431 | -3.4 | 107 | -0.01 | 9.66 |
| 33 | m | CARBON TETRACHLORIDE | 2.897 | 2.986 | -3.1 | 106 | -0.01 | 10.24 |
| 34 | m | 1,2-DICHLOROETHANE | 1.181 | 1.316 | -11.4 | 114 | -0.01 | 9.43 |

# Initial Calibration Verification

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSJ562-ICV562
**Lab FileID:** J10868.D

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 35 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 97 | 0.00 | 10.43 |
| 36 | m | BENZENE | 0.471 | 0.535 | -13.6 | 112 | 0.00 | 10.11 |
| 37 | m | CYCLOHEXANE | 0.223 | 0.241 | -8.1 | 103 | 0.00 | 10.35 |
| 38 | m | TRICHLOROETHYLENE | 0.251 | 0.285 | -13.5 | 115 | 0.00 | 11.10 |
| 39 | m | 1,2-DICHLOROPROPANE | 0.159 | 0.181 | -13.8 | 118 | 0.00 | 10.89 |
| 40 | m | BROMODICHLOROMETHANE | 0.461 | 0.491 | -6.5 | 116 | 0.00 | 11.08 |
| | | ---------- | True | Calc. | % Drift | | ---------- | |
| 41 | m | 2,2,4-TRIMETHYLPENTANE | 10.000 | 9.398 | 6.0 | 110 | -0.01 | 11.10 |
| 42 | m | 1,4-DIOXANE | 10.000 | 9.346 | 6.5 | 106 | 0.00 | 11.17 |
| | | ---------- | AvgRF | CCRF | % Dev | | ---------- | |
| 43 | m | HEPTANE | 0.251 | 0.273 | -8.8 | 108 | -0.01 | 11.34 |
| | | ---------- | True | Calc. | % Drift | | ---------- | |
| 44 | m | METHYL ISOBUTYL KETONE | 10.000 | 10.328 | -3.3 | 107 | 0.00 | 11.99 |
| 45 | m | cis-1,3-DICHLOROPROPENE | 10.000 | 10.947 | -9.5 | 120 | 0.00 | 11.93 |
| 46 | m | TOLUENE | 10.000 | 11.035 | -10.4 | 117 | 0.00 | 12.88 |
| 47 | m | trans-1,3-DICHLOROPROPENE | 10.000 | 9.167 | 8.3 | 96 | 0.00 | 12.44 |
| | | ---------- | AvgRF | CCRF | % Dev | | ---------- | |
| 48 | m | 1,1,2-TRICHLOROETHANE | 0.165 | 0.195 | -18.2 | 122 | 0.00 | 12.62 |
| 49 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 98 | 0.00 | 14.67 |
| 50 | m | 2-HEXANONE | 0.260 | 0.268 | -3.1 | 100 | 0.00 | 13.17 |
| 51 | m | TETRACHLOROETHYLENE | 0.319 | 0.368 | -15.4 | 120 | 0.00 | 14.01 |
| 52 | m | DIBROMOCHLOROMETHANE | 0.484 | 0.541 | -11.8 | 119 | 0.00 | 13.33 |
| 53 | m | 1,2-DIBROMOETHANE | 0.332 | 0.373 | -12.3 | 116 | 0.00 | 13.57 |
| 54 | m | CHLOROBENZENE | 0.476 | 0.598 | -25.6 | 116 | 0.00 | 14.72 |
| | | ---------- | True | Calc. | % Drift | | ---------- | |
| 55 | m | ETHYLBENZENE | 10.000 | 11.171 | -11.7 | 118 | 0.00 | 15.09 |
| 56 | m | m,p-XYLENE | 20.000 | 22.739 | -13.7 | 119 | 0.00 | 15.28 |
| 57 | m | o-XYLENE | 10.000 | 11.552 | -15.5 | 122 | 0.00 | 15.79 |
| 58 | m | STYRENE | 10.000 | 10.453 | -4.5 | 113 | 0.00 | 15.68 |
| 59 | m | NONANE | 10.000 | 11.858 | -18.6 | 125 | 0.00 | 15.97 |
| | | ---------- | AvgRF | CCRF | % Dev | | ---------- | |
| 60 | m | BROMOFORM | 0.458 | 0.532 | -16.2 | 122 | 0.00 | 15.41 |
| 61 | S | 4-BROMOFLUOROBENZENE | 0.538 | 0.668 | -24.2 | 99 | 0.00 | 16.30 |
| 62 | m | 1,1,2,2-TETRACHLOROETHANE | 0.465 | 0.538 | -15.7 | 127 | 0.00 | 15.80 |
| | | ---------- | True | Calc. | % Drift | | ---------- | |
| 63 | m | ISOPROPYLBENZENE | 10.000 | 11.656 | -16.6 | 122 | 0.00 | 16.43 |
| 64 | m | 2-CHLOROTOLUENE | 10.000 | 11.725 | -17.2 | 127 | 0.00 | 16.98 |
| 65 | m | 4-ETHYLTOLUENE | 10.000 | 10.702 | -7.0 | 115 | 0.00 | 17.17 |
| 66 | m | 1,3,5-TRIMETHYLBENZENE | 10.000 | 11.609 | -16.1 | 125 | 0.00 | 17.26 |
| 67 | m | 1,2,4-TRIMETHYLBENZENE | 10.000 | 11.800 | -18.0 | 128 | 0.00 | 17.72 |
| 68 | m | m-DICHLOROBENZENE | 10.000 | 11.227 | -12.3 | 121 | 0.00 | 17.91 |
| 69 | m | BENZYL CHLORIDE | 10.000 | 9.802 | 2.0 | 103 | 0.00 | 17.89 |
| 70 | m | p-DICHLOROBENZENE | 10.000 | 10.633 | -6.3 | 113 | 0.00 | 17.98 |
| | | ---------- | AvgRF | CCRF | % Dev | | ---------- | |
| 71 | m | o-DICHLOROBENZENE | 0.427 | 0.526 | -23.2 | 130 | 0.00 | 18.37 |
| | | ---------- | True | Calc. | % Drift | | ---------- | |
| 72 | m | HEXACHLOROBUTADIENE | 10.000 | 15.845 | -58.5# | 163 | 0.00 | 20.76 |
| 73 | m | 1,2,4-TRICHLOROBENZENE | 10.000 | 11.454 | -14.5 | 117 | 0.00 | 20.27 |

# Initial Calibration Verification

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSJ562-ICV562
**Lab FileID:** J10868.D

```
            ----------------------- AvgRF   CCRF     % Dev   -------------
74 m   NAPHTHALENE                          ----------NA----------
-------------------------------------------------------------------------------

 (  1.4 %)  1 of  70 compounds'%D > 30
-------------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    J10865.D   J070507T.M       Fri Jul 06 11:23:26 2007
```

# Initial Calibration Summary



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSQ214-ICC214
**Lab FileID:** Q3979.D

Response Factor Report MAMSQ

Method : C:\msdchem\1\METHODS\Q071607T.m (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Jul 17 08:27:00 2007
Response via : Initial Calibration

Calibration Files
.2 =Q3983.D .5 =Q3982.D 2 =Q3981.D
5 =Q3980.D 10 =Q3979.D 20 =Q3978.D 40 =Q3977.D

| Compound | .2 | .5 | 2 | 5 | 10 | 20 | 40 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|
| 1) I BROMOCHLOROMETHANE | ----------ISTD---------- | | | | | | | | |
| 2)m DICHLORODIFLUOROM | 4.002 | 3.399 | 3.337 | 3.337 | 3.106 | 3.194 | 3.296 | 3.382 | 8.60 |
| 3)m PROPYLENE | 0.309 | 0.555 | 0.540 | 0.599 | 0.556 | 0.586 | 0.552 | 0.528 | 18.74 |
| 4)m FREON 114 | 3.718 | 3.134 | 2.895 | 3.058 | 2.958 | 3.051 | 3.107 | 3.132 | 8.68 |
| 5)m CHLOROMETHANE | 0.801 | 0.694 | 0.728 | 0.745 | 0.696 | 0.712 | 0.702 | 0.725 | 5.24 |
| 6)m VINYL CHLORIDE | 0.938 | 0.812 | 0.826 | 0.853 | 0.829 | 0.862 | 0.846 | 0.853 | 4.87 |
| 7)m 1,3-BUTADIENE | 0.716 | 0.746 | 0.664 | 0.675 | 0.669 | 0.690 | 0.707 | 0.695 | 4.26 |
| 8)m BROMOMETHANE | 0.968 | 0.985 | 0.929 | 0.954 | 0.950 | 0.982 | 0.971 | 0.963 | 2.05 |
| 9)m CHLOROETHANE | 0.170 | 0.405 | 0.318 | 0.347 | 0.360 | 0.380 | 0.383 | 0.338 | 23.40 |
| 10)m TRICHLOROFLUOROME | 3.901 | 3.619 | 3.029 | 3.118 | 3.038 | 3.153 | 3.361 | 3.317 | 10.01 |
| 11)m ISOPROPYL ALCOHOL | 2.804 | 1.967 | 1.265 | 1.139 | 1.183 | 1.255 | 1.279 | 1.556 | 39.73 |
| ----- Linear regression (equal Weighting)----- Coefficient = 0.9993 | | | | | | | | | |
| Response Ratio = -0.01673 + 1.27457 *A | | | | | | | | | |
| 12)m ACETONE | 3.411 | 2.186 | 1.398 | 1.209 | 1.231 | 1.313 | 1.365 | 1.730 | 47.03 |
| ----- Linear regression (equal Weighting)----- Coefficient = 0.9987 | | | | | | | | | |
| Response Ratio = -0.02136 + 1.35484 *A | | | | | | | | | |
| 13)m PENTANE | 0.736 | 0.792 | 0.677 | 0.695 | 0.688 | 0.734 | 0.764 | 0.727 | 5.85 |
| 14)m 1,1-DICHLOROETHYL | 0.973 | 0.974 | 0.893 | 0.863 | 0.897 | 0.942 | 0.986 | 0.932 | 5.19 |
| 15)m CARBON DISULFIDE | 2.425 | 2.288 | 2.141 | 2.283 | 2.274 | 2.434 | 2.578 | 2.346 | 6.09 |
| 16)m ETHANOL | 0.305 | 0.320 | 0.235 | 0.205 | 0.213 | 0.233 | 0.224 | 0.248 | 18.39 |
| 17)m BROMOETHENE | 0.949 | 1.046 | 0.902 | 0.934 | 0.929 | 0.982 | 0.989 | 0.961 | 4.99 |
| 18)m METHYLENE CHLORID | 3.257 | 1.982 | 1.135 | 1.029 | 1.060 | 1.124 | 1.194 | 1.540 | 53.63 |
| ----- Linear regression (equal Weighting)----- Coefficient = 0.9980 | | | | | | | | | |
| Response Ratio = -0.02953 + 1.18375 *A | | | | | | | | | |
| 19)m 3-CHLOROPROPENE | 0.696 | 0.789 | 0.620 | 0.591 | 0.651 | 0.720 | 0.836 | 0.700 | 12.73 |
| 20)m FREON 113 | 3.094 | 2.497 | 2.093 | 2.051 | 2.061 | 2.157 | 2.265 | 2.317 | 16.25 |
| 21)m TRANS-1,2-DICHLOR | 1.010 | 0.892 | 0.795 | 0.814 | 0.862 | 0.913 | 0.971 | 0.894 | 8.78 |
| 22)m TERTIARY BUTYL AL | 1.580 | 1.652 | 1.475 | 1.472 | 1.535 | 1.612 | 1.684 | 1.573 | 5.27 |
| 23)m METHYL TERTIARY B | 2.213 | 2.045 | 1.978 | 1.879 | 1.981 | 2.110 | 2.281 | 2.070 | 6.85 |
| 24)m TETRAHYDROFURAN | 0.532 | 0.611 | 0.590 | 0.587 | 0.633 | 0.697 | 0.721 | 0.624 | 10.56 |
| 25)m HEXANE | 2.901 | 2.057 | 1.444 | 1.195 | 1.250 | 1.303 | 1.341 | 1.642 | 38.17 |
| ----- Linear regression (equal Weighting)----- Coefficient = 0.9992 | | | | | | | | | |
| Response Ratio = -0.01290 + 1.33324 *A | | | | | | | | | |
| 26)m VINYL ACETATE | 1.734 | 1.444 | 1.390 | 1.308 | 1.379 | 1.583 | 1.670 | 1.501 | 10.78 |
| 27)m 1,1-DICHLOROETHAN | 1.577 | 1.535 | 1.274 | 1.309 | 1.390 | 1.530 | 1.723 | 1.477 | 10.83 |
| 28)m METHYL ETHYL KETO | 1.555 | 1.422 | 1.186 | 1.212 | 1.287 | 1.386 | 1.443 | 1.356 | 9.84 |
| 29)m cis-1,2-DICHLOROE | 0.771 | 0.755 | 0.689 | 0.710 | 0.775 | 0.876 | 0.954 | 0.790 | 11.88 |
| 30)m ETHYL ACETATE | 3.723 | 2.845 | 2.380 | 2.184 | 2.303 | 2.486 | 2.579 | 2.643 | 19.73 |
| 31)m CHLOROFORM | 2.097 | 2.073 | 1.811 | 1.854 | 1.974 | 2.136 | 2.364 | 2.044 | 9.16 |
| 32)m 1,1,1-TRICHLOROET | 2.119 | 2.058 | 1.772 | 1.819 | 1.977 | 2.197 | 2.508 | 2.064 | 12.05 |
| 33)m CARBON TETRACHLOR | 2.384 | 2.354 | 2.146 | 2.259 | 2.408 | 2.570 | 2.813 | 2.419 | 9.00 |
| 34)m 1,2-DICHLOROETHAN | 1.133 | 1.176 | 1.104 | 1.095 | 1.141 | 1.289 | 1.461 | 1.200 | 11.02 |

# Initial Calibration Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSQ214-ICC214
**Lab FileID:** Q3979.D

```
35) I   1,4-DIFLUOROBENZENE   ----------------ISTD---------------------
36)m BENZENE           0.445 0.427 0.402 0.402 0.441 0.506 0.604 0.461  15.62
37)m CYCLOHEXANE       0.181 0.185 0.185 0.186 0.200 0.208 0.236 0.197   9.87
38)m TRICHLOROETHYLENE 0.262 0.230 0.228 0.227 0.249 0.275 0.335 0.258  14.93
39)m 1,2-DICHLOROPROPA 0.120 0.162 0.146 0.141 0.152 0.171 0.203 0.156  16.79
40)m BROMODICHLOROMETH 0.374 0.358 0.352 0.373 0.400 0.454 0.559 0.410  18.11
41)m 2,2,4-TRIMETHYLPE 0.608 0.683 0.622 0.639 0.698 0.761 0.918 0.704  15.31
42)m 1,4-DIOXANE       0.086 0.089 0.075 0.081 0.090 0.101 0.115 0.091  14.74
43)m HEPTANE           0.230 0.249 0.228 0.229 0.257 0.282 0.334 0.258  14.92
44)m METHYL ISOBUTYL K 0.300 0.311 0.296 0.291 0.329 0.369 0.422 0.331  14.55
45)m cis-1,3-DICHLOROP 0.221 0.204 0.198 0.211 0.235 0.270 0.335 0.239  20.42
46)m TOLUENE           0.339 0.292 0.284 0.290 0.321 0.363 0.439 0.333  16.55
47)m trans-1,3-DICHLOR 0.167 0.173 0.186 0.197 0.222 0.262 0.324 0.219  25.89
48)m 1,1,2-TRICHLOROET 0.159 0.159 0.159 0.155 0.166 0.184 0.222 0.172  14.09

49) I   CHLOROBENZENE-D5      ----------------ISTD---------------------
50)m 2-HEXANONE        0.285 0.330 0.263 0.282 0.314 0.361 0.420 0.322  16.84
51)m TETRACHLOROETHYLE 0.308 0.327 0.293 0.297 0.322 0.358 0.432 0.334  14.49
52)m DIBROMOCHLOROMETH 0.398 0.371 0.394 0.404 0.459 0.527 0.648 0.457  21.75
53)m 1,2-DIBROMOETHANE 0.356 0.340 0.320 0.320 0.346 0.401 0.477 0.366  15.36
54)m CHLOROBENZENE     0.520 0.489 0.473 0.472 0.508 0.568 0.675 0.529  13.62
55)m ETHYLBENZENE      0.712 0.710 0.770 0.770 0.845 0.935 1.107 0.835  17.15
56)m m,p-XYLENE        0.256 0.265 0.293 0.293 0.321 0.361 0.422 0.316  18.51
57)m o-XYLENE          0.263 0.275 0.299 0.293 0.326 0.363 0.427 0.321  17.90
58)m STYRENE           0.326 0.334 0.389 0.413 0.481 0.554 0.652 0.450  26.72
59)m NONANE            0.331 0.342 0.378 0.375 0.420 0.467 0.557 0.410  19.44
60)m BROMOFORM         0.312 0.329 0.356 0.381 0.461 0.547 0.686 0.439  31.07
         ----- Quadratic regression -----  Coefficient =  0.9999
              Response Ratio = -0.01089 + 0.40535 *A + 0.07092 *A^2

61)S 4-BROMOFLUOROBENZ 0.684 0.683 0.710 0.725 0.758 0.774 0.806 0.734   6.38
62)m 1,1,2,2-TETRACHLO 0.499 0.489 0.428 0.437 0.485 0.543 0.638 0.503  14.11
63)m ISOPROPYLBENZENE  0.866 0.856 0.895 0.883 0.995 1.102 1.293 0.984  16.49
64)m 2-CHLOROTOLUENE   0.621 0.599 0.629 0.633 0.718 0.800 0.949 0.707  18.10
65)m 4-ETHYLTOLUENE    0.696 0.715 0.766 0.788 0.937 1.031 1.237 0.881  22.53
66)m 1,3,5-TRIMETHYLBE 0.739 0.753 0.738 0.775 0.881 0.964 1.137 0.855  17.60
67)m 1,2,4-TRIMETHYLBE 0.601 0.670 0.692 0.714 0.820 0.920 1.095 0.788  21.75
68)m m-DICHLOROBENZENE 0.503 0.501 0.461 0.460 0.542 0.623 0.771 0.551  20.25
69)m BENZYL CHLORIDE   0.222 0.296 0.294 0.347 0.455 0.570 0.733 0.417  43.53
         ----- Quadratic regression -----  Coefficient =  0.9997
              Response Ratio = -0.01876 + 0.39959 *A + 0.08482 *A^2

70)m p-DICHLOROBENZENE 0.498 0.379 0.455 0.480 0.544 0.612 0.757 0.532  23.06
71)m o-DICHLOROBENZENE 0.508 0.516 0.427 0.445 0.505 0.571 0.701 0.525  17.40
72)m HEXACHLOROBUTADIE 0.863 0.830 0.274 0.267 0.286 0.265 0.374 0.451  60.41
         ----- Quadratic regression -----  Coefficient =  0.9982
              Response Ratio = 0.02950 + 0.16697 *A + 0.04951 *A^2

73)m 1,2,4-TRICHLOROBE 0.295 0.311 0.137 0.162 0.192 0.204 0.281 0.226  30.56
         ----- Quadratic regression -----  Coefficient =  0.9995
              Response Ratio = 0.00601 + 0.13315 *A + 0.03651 *A^2

74)m NAPHTHALENE                                                0.000  -1.00
75)  2-METHYLNAPHTHALE                                          0.000  -1.00
76)  1-METHYLNAPHTHALE                                          0.000  -1.00
-------------------------------------------------------------------------------
(#) = Out of Range

          Q071607T.m        Wed Jul 18 14:23:22 2007   RPT1
```

# Continuing Calibration Summary



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSQ214-CC214
**Lab FileID:** Q3984A.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\Q3984a.D  Vial: 3
Acq On : 17 Jul 2007 8:45 am  Operator: danat
Sample : cc214-10 (M209)  Inst : MAMSQ
Misc : MS13893, MSQ214,,,,,1  Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\msdchem\1\METHODS\Q071607T.m (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Jul 17 08:27:00 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 40% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 180%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | RT Window |
|---|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 90 | 0.00 | 8.43- 8.84 |
| 2 | m | DICHLORODIFLUOROMETHAN | 3.382 | 3.665 | -8.4 | 106 | 0.00 | 3.83- 4.24 |
| 3 | m | PROPYLENE | 0.528 | 0.555 | -5.1 | 90 | 0.00 | 3.76- 4.17 |
| 4 | m | FREON 114 | 3.132 | 3.364 | -7.4 | 102 | 0.00 | 4.09- 4.50 |
| 5 | m | CHLOROMETHANE | 0.725 | 0.769 | -6.1 | 99 | 0.00 | 4.00- 4.41 |
| 6 | m | VINYL CHLORIDE | 0.853 | 0.905 | -6.1 | 98 | 0.00 | 4.21- 4.63 |
| 7 | m | 1,3-BUTADIENE | 0.695 | 0.745 | -7.2 | 100 | 0.00 | 4.35- 4.77 |
| 8 | m | BROMOMETHANE | 0.963 | 1.045 | -8.5 | 99 | 0.00 | 4.63- 5.04 |
| 9 | m | CHLOROETHANE | 0.338 | 0.385 | -13.9 | 96 | 0.00 | 4.80- 5.22 |
| 10 | m | TRICHLOROFLUOROMETHANE | 3.317 | 3.787 | -14.2 | 112 | 0.00 | 5.58- 5.99 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 11 | m | ISOPROPYL ALCOHOL | 10.000 | 9.677 | 3.2 | 93 | 0.00 | 5.59- 6.06 |
| 12 | m | ACETONE | 10.000 | 8.199 | 18.0 | 80 | 0.00 | 5.39- 5.80 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 13 | m | PENTANE | 0.727 | 0.836 | -15.0 | 109 | 0.00 | 5.99- 6.30 |
| 14 | m | 1,1-DICHLOROETHYLENE | 0.932 | 0.975 | -4.6 | 98 | 0.00 | 6.22- 6.63 |
| 15 | m | CARBON DISULFIDE | 2.346 | 2.727 | -16.2 | 108 | 0.00 | 6.65- 7.06 |
| 16 | m | ETHANOL | 0.248 | 0.201 | 19.0 | 85 | 0.00 | 4.86- 5.33 |
| 17 | m | BROMOETHENE | 0.961 | 1.033 | -7.5 | 100 | 0.00 | 5.16- 5.58 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 18 | m | METHYLENE CHLORIDE | 10.000 | 7.273 | 27.3 | 71 | 0.00 | 6.39- 6.69 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 19 | m | 3-CHLOROPROPENE | 0.700 | 0.778 | -11.1 | 108 | 0.00 | 6.45- 6.87 |
| 20 | m | FREON 113 | 2.317 | 2.096 | 9.5 | 91 | 0.00 | 6.59- 7.01 |
| 21 | m | TRANS-1,2-DICHLOROETHY | 0.894 | 0.960 | -7.4 | 100 | 0.00 | 7.26- 7.67 |
| 22 | m | TERTIARY BUTYL ALCOHOL | 1.573 | 1.677 | -6.6 | 98 | 0.00 | 6.17- 6.69 |
| 23 | m | METHYL TERTIARY BUTYL | 2.070 | 1.977 | 4.5 | 90 | 0.00 | 7.50- 7.92 |
| 24 | m | TETRAHYDROFURAN | 0.624 | 0.562 | 9.9 | 80 | 0.00 | 9.00- 9.29 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 25 | m | HEXANE | 10.000 | 7.939 | 20.6 | 75 | 0.00 | 8.46- 8.87 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 26 | m | VINYL ACETATE | 1.501 | 1.436 | 4.3 | 94 | 0.00 | 7.61- 7.96 |
| 27 | m | 1,1-DICHLOROETHANE | 1.477 | 1.576 | -6.7 | 102 | 0.00 | 7.46- 7.87 |
| 28 | m | METHYL ETHYL KETONE | 1.356 | 1.234 | 9.0 | 86 | 0.00 | 7.79- 8.27 |
| 29 | m | cis-1,2-DICHLOROETHYLE | 0.790 | 0.808 | -2.3 | 94 | 0.00 | 8.26- 8.68 |
| 30 | m | ETHYL ACETATE | 2.643 | 2.040 | 22.8 | 80 | 0.00 | 8.45- 8.87 |

# Continuing Calibration Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSQ214-CC214
**Lab FileID:** Q3984A.D

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 31 | m | CHLOROFORM | 2.044 | 2.087 | -2.1 | 95 | 0.00 | 8.54- 8.96 |
| 32 | m | 1,1,1-TRICHLOROETHANE | 2.064 | 2.182 | -5.7 | 99 | 0.00 | 9.50- 9.92 |
| 33 | m | CARBON TETRACHLORIDE | 2.419 | 2.708 | -11.9 | 101 | 0.00 | 10.09-10.50 |
| 34 | m | 1,2-DICHLOROETHANE | 1.200 | 1.223 | -1.9 | 96 | 0.00 | 9.26- 9.67 |
| 35 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 90 | 0.00 | 10.26-10.67 |
| 36 | m | BENZENE | 0.461 | 0.423 | 8.2 | 86 | 0.00 | 9.94-10.36 |
| 37 | m | CYCLOHEXANE | 0.197 | 0.197 | 0.0 | 89 | 0.00 | 10.21-10.62 |
| 38 | m | TRICHLOROETHYLENE | 0.258 | 0.261 | -1.2 | 94 | 0.00 | 10.99-11.30 |
| 39 | m | 1,2-DICHLOROPROPANE | 0.156 | 0.145 | 7.1 | 86 | 0.00 | 10.72-11.13 |
| 40 | m | BROMODICHLOROMETHANE | 0.410 | 0.419 | -2.2 | 95 | 0.00 | 10.95-11.26 |
| 41 | m | 2,2,4-TRIMETHYLPENTANE | 0.704 | 0.715 | -1.6 | 92 | 0.00 | 10.96-11.37 |
| 42 | m | 1,4-DIOXANE | 0.091 | 0.086 | 5.5 | 87 | 0.00 | 10.87-11.40 |
| 43 | m | HEPTANE | 0.258 | 0.256 | 0.8 | 90 | 0.00 | 11.25-11.56 |
| 44 | m | METHYL ISOBUTYL KETONE | 0.331 | 0.315 | 4.8 | 86 | 0.00 | 11.76-12.20 |
| 45 | m | cis-1,3-DICHLOROPROPEN | 0.239 | 0.241 | -0.8 | 92 | 0.00 | 11.76-12.17 |
| 46 | m | TOLUENE | 0.333 | 0.295 | 11.4 | 83 | 0.00 | 12.72-13.13 |
| 47 | m | trans-1,3-DICHLOROPROP | 0.219 | 0.194 | 11.4 | 79 | 0.00 | 12.31-12.62 |
| 48 | m | 1,1,2-TRICHLOROETHANE | 0.172 | 0.158 | 8.1 | 86 | 0.00 | 12.46-12.82 |
| 49 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 89 | 0.00 | 14.55-14.86 |
| 50 | m | 2-HEXANONE | 0.322 | 0.301 | 6.5 | 85 | 0.00 | 12.95-13.35 |
| 51 | m | TETRACHLOROETHYLENE | 0.334 | 0.329 | 1.5 | 91 | 0.00 | 13.85-14.26 |
| 52 | m | DIBROMOCHLOROMETHANE | 0.457 | 0.471 | -3.1 | 91 | 0.00 | 13.17-13.53 |
| 53 | m | 1,2-DIBROMOETHANE | 0.366 | 0.342 | 6.6 | 88 | 0.00 | 13.44-13.75 |
| 54 | m | CHLOROBENZENE | 0.529 | 0.492 | 7.0 | 86 | 0.00 | 14.60-14.91 |
| 55 | m | ETHYLBENZENE | 0.835 | 0.792 | 5.1 | 83 | 0.00 | 14.95-15.31 |
| 56 | m | m,p-XYLENE | 0.316 | 0.309 | 2.2 | 85 | 0.00 | 15.15-15.51 |
| 57 | m | o-XYLENE | 0.321 | 0.313 | 2.5 | 85 | 0.00 | 15.64-16.01 |
| 58 | m | STYRENE | 0.450 | 0.460 | -2.2 | 85 | 0.00 | 15.55-15.86 |
| 59 | m | NONANE | 0.410 | 0.418 | -2.0 | 88 | 0.00 | 15.87-16.18 |
| | | ---------- | True | Calc. | % Drift | | ---------- | |
| 60 | m | BROMOFORM | 10.000 | 9.823 | 1.8 | 88 | 0.00 | 15.27-15.58 |
| | | ---------- | AvgRF | CCRF | % Dev | | ---------- | |
| 61 | S | 4-BROMOFLUOROBENZENE | 0.734 | 0.792 | -7.9 | 93 | 0.00 | 16.17-16.48 |
| 62 | m | 1,1,2,2-TETRACHLOROETH | 0.503 | 0.487 | 3.2 | 89 | 0.00 | 15.66-15.97 |
| 63 | m | ISOPROPYLBENZENE | 0.984 | 0.975 | 0.9 | 87 | 0.00 | 16.31-16.62 |
| 64 | m | 2-CHLOROTOLUENE | 0.707 | 0.718 | -1.6 | 89 | 0.00 | 16.81-17.22 |
| 65 | m | 4-ETHYLTOLUENE | 0.881 | 0.860 | 2.4 | 82 | 0.00 | 17.08-17.34 |
| 66 | m | 1,3,5-TRIMETHYLBENZENE | 0.855 | 0.873 | -2.1 | 88 | 0.00 | 17.16-17.42 |
| 67 | m | 1,2,4-TRIMETHYLBENZENE | 0.788 | 0.846 | -7.4 | 92 | 0.00 | 17.60-17.91 |
| 68 | m | m-DICHLOROBENZENE | 0.551 | 0.562 | -2.0 | 92 | 0.00 | 17.78-18.11 |
| | | ---------- | True | Calc. | % Drift | | ---------- | |
| 69 | m | BENZYL CHLORIDE | 10.000 | 10.142 | -1.4 | 92 | 0.00 | 17.76-18.07 |
| | | ---------- | AvgRF | CCRF | % Dev | | ---------- | |
| 70 | m | p-DICHLOROBENZENE | 0.532 | 0.565 | -6.2 | 92 | 0.00 | 17.89-18.13 |
| 71 | m | o-DICHLOROBENZENE | 0.525 | 0.515 | 1.9 | 91 | 0.00 | 18.25-18.56 |
| | | ---------- | True | Calc. | % Drift | | ---------- | |
| 72 | m | HEXACHLOROBUTADIENE | 10.000 | 14.094 | -40.9# | 113 | 0.00 | 20.59-21.00 |
| 73 | m | 1,2,4-TRICHLOROBENZENE | 10.000 | 13.186 | -31.9# | 113 | 0.00 | 20.10-20.51 |
| | | ---------- | AvgRF | CCRF | % Dev | | ---------- | |
| 74 | m | NAPHTHALENE | | ----------NA---------- | | | | |
| 75 | | 2-METHYLNAPHTHALENE | | ----------NA---------- | | | | |
| 76 | | 1-METHYLNAPHTHALENE | | ----------NA---------- | | | | |

# Continuing Calibration Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSQ214-CC214
**Lab FileID:** Q3984A.D

```
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------

   (#) = Out of Range                SPCC's out = 0  CCC's out = 0
    Q3979.D    Q071607T.m       Tue Jul 17 14:06:51 2007   RPT1
```

# Initial Calibration Verification



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSQ214-ICV214
**Lab FileID:** Q3984.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\Q3984.D  Vial: 3
Acq On : 17 Jul 2007 8:45 am  Operator: danat
Sample : icv214-10 (M209)  Inst : MAMSQ
Misc : MS13893, MSQ214,,,,,1  Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\msdchem\1\METHODS\Q071607T.m (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Jul 17 08:27:00 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 40% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 180%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | RT Window |
|---|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 90 | 0.00 | 8.43- 8.84 |
| 2 | m | DICHLORODIFLUOROMETHAN | 3.382 | 3.665 | -8.4 | 106 | 0.00 | 3.83- 4.24 |
| 3 | m | PROPYLENE | 0.528 | 0.555 | -5.1 | 90 | 0.00 | 3.76- 4.17 |
| 4 | m | FREON 114 | 3.132 | 3.364 | -7.4 | 102 | 0.00 | 4.09- 4.50 |
| 5 | m | CHLOROMETHANE | 0.725 | 0.769 | -6.1 | 99 | 0.00 | 4.00- 4.41 |
| 6 | m | VINYL CHLORIDE | 0.853 | 0.905 | -6.1 | 98 | 0.00 | 4.21- 4.63 |
| 7 | m | 1,3-BUTADIENE | 0.695 | 0.745 | -7.2 | 100 | 0.00 | 4.35- 4.77 |
| 8 | m | BROMOMETHANE | 0.963 | 1.045 | -8.5 | 99 | 0.00 | 4.63- 5.04 |
| 9 | m | CHLOROETHANE | 0.338 | 0.385 | -13.9 | 96 | 0.00 | 4.80- 5.22 |
| 10 | m | TRICHLOROFLUOROMETHANE | 3.317 | 3.787 | -14.2 | 112 | 0.00 | 5.58- 5.99 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 11 | m | ISOPROPYL ALCOHOL | 10.000 | 9.677 | 3.2 | 93 | 0.00 | 5.59- 6.06 |
| 12 | m | ACETONE | 10.000 | 8.199 | 18.0 | 80 | 0.00 | 5.39- 5.80 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 13 | m | PENTANE | 0.727 | 0.836 | -15.0 | 109 | 0.00 | 5.99- 6.30 |
| 14 | m | 1,1-DICHLOROETHYLENE | 0.932 | 0.975 | -4.6 | 98 | 0.00 | 6.22- 6.63 |
| 15 | m | CARBON DISULFIDE | 2.346 | 2.727 | -16.2 | 108 | 0.00 | 6.65- 7.06 |
| 16 | m | ETHANOL | 0.248 | 0.201 | 19.0 | 85 | 0.00 | 4.86- 5.33 |
| 17 | m | BROMOETHENE | 0.961 | 1.033 | -7.5 | 100 | 0.00 | 5.16- 5.58 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 18 | m | METHYLENE CHLORIDE | 10.000 | 7.273 | 27.3 | 71 | 0.00 | 6.39- 6.69 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 19 | m | 3-CHLOROPROPENE | 0.700 | 0.778 | -11.1 | 108 | 0.00 | 6.45- 6.87 |
| 20 | m | FREON 113 | 2.317 | 2.096 | 9.5 | 91 | 0.00 | 6.59- 7.01 |
| 21 | m | TRANS-1,2-DICHLOROETHY | 0.894 | 0.960 | -7.4 | 100 | 0.00 | 7.26- 7.67 |
| 22 | m | TERTIARY BUTYL ALCOHOL | 1.573 | 1.677 | -6.6 | 98 | 0.00 | 6.17- 6.69 |
| 23 | m | METHYL TERTIARY BUTYL | 2.070 | 1.977 | 4.5 | 90 | 0.00 | 7.50- 7.92 |
| 24 | m | TETRAHYDROFURAN | 0.624 | 0.562 | 9.9 | 80 | 0.00 | 9.00- 9.29 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 25 | m | HEXANE | 10.000 | 7.939 | 20.6 | 75 | 0.00 | 8.46- 8.87 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 26 | m | VINYL ACETATE | 1.501 | 1.436 | 4.3 | 94 | 0.00 | 7.61- 7.96 |
| 27 | m | 1,1-DICHLOROETHANE | 1.477 | 1.576 | -6.7 | 102 | 0.00 | 7.46- 7.87 |
| 28 | m | METHYL ETHYL KETONE | 1.356 | 1.234 | 9.0 | 86 | 0.00 | 7.79- 8.27 |
| 29 | m | cis-1,2-DICHLOROETHYLE | 0.790 | 0.808 | -2.3 | 94 | 0.00 | 8.26- 8.68 |
| 30 | m | ETHYL ACETATE | 2.643 | 2.040 | 22.8 | 80 | 0.00 | 8.45- 8.87 |

# Initial Calibration Verification

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSQ214-ICV214
**Lab FileID:** Q3984.D

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 31 | m | CHLOROFORM | 2.044 | 2.087 | -2.1 | 95 | 0.00 | 8.54- 8.96 |
| 32 | m | 1,1,1-TRICHLOROETHANE | 2.064 | 2.182 | -5.7 | 99 | 0.00 | 9.50- 9.92 |
| 33 | m | CARBON TETRACHLORIDE | 2.419 | 2.708 | -11.9 | 101 | 0.00 | 10.09-10.50 |
| 34 | m | 1,2-DICHLOROETHANE | 1.200 | 1.223 | -1.9 | 96 | 0.00 | 9.26- 9.67 |
| 35 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 90 | 0.00 | 10.26-10.67 |
| 36 | m | BENZENE | 0.461 | 0.423 | 8.2 | 86 | 0.00 | 9.94-10.36 |
| 37 | m | CYCLOHEXANE | 0.197 | 0.197 | 0.0 | 89 | 0.00 | 10.21-10.62 |
| 38 | m | TRICHLOROETHYLENE | 0.258 | 0.261 | -1.2 | 94 | 0.00 | 10.99-11.30 |
| 39 | m | 1,2-DICHLOROPROPANE | 0.156 | 0.145 | 7.1 | 86 | 0.00 | 10.72-11.13 |
| 40 | m | BROMODICHLOROMETHANE | 0.410 | 0.419 | -2.2 | 95 | 0.00 | 10.95-11.26 |
| 41 | m | 2,2,4-TRIMETHYLPENTANE | 0.704 | 0.715 | -1.6 | 92 | 0.00 | 10.96-11.37 |
| 42 | m | 1,4-DIOXANE | 0.091 | 0.086 | 5.5 | 87 | 0.00 | 10.87-11.40 |
| 43 | m | HEPTANE | 0.258 | 0.256 | 0.8 | 90 | 0.00 | 11.25-11.56 |
| 44 | m | METHYL ISOBUTYL KETONE | 0.331 | 0.315 | 4.8 | 86 | 0.00 | 11.76-12.20 |
| 45 | m | cis-1,3-DICHLOROPROPEN | 0.239 | 0.241 | -0.8 | 92 | 0.00 | 11.76-12.17 |
| 46 | m | TOLUENE | 0.333 | 0.295 | 11.4 | 83 | 0.00 | 12.72-13.13 |
| 47 | m | trans-1,3-DICHLOROPROP | 0.219 | 0.194 | 11.4 | 79 | 0.00 | 12.31-12.62 |
| 48 | m | 1,1,2-TRICHLOROETHANE | 0.172 | 0.158 | 8.1 | 86 | 0.00 | 12.46-12.82 |
| 49 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 89 | 0.00 | 14.55-14.86 |
| 50 | m | 2-HEXANONE | 0.322 | 0.301 | 6.5 | 85 | 0.00 | 12.95-13.35 |
| 51 | m | TETRACHLOROETHYLENE | 0.334 | 0.329 | 1.5 | 91 | 0.00 | 13.85-14.26 |
| 52 | m | DIBROMOCHLOROMETHANE | 0.457 | 0.471 | -3.1 | 91 | 0.00 | 13.17-13.53 |
| 53 | m | 1,2-DIBROMOETHANE | 0.366 | 0.342 | 6.6 | 88 | 0.00 | 13.44-13.75 |
| 54 | m | CHLOROBENZENE | 0.529 | 0.492 | 7.0 | 86 | 0.00 | 14.60-14.91 |
| 55 | m | ETHYLBENZENE | 0.835 | 0.792 | 5.1 | 83 | 0.00 | 14.95-15.31 |
| 56 | m | m,p-XYLENE | 0.316 | 0.309 | 2.2 | 85 | 0.00 | 15.15-15.51 |
| 57 | m | o-XYLENE | 0.321 | 0.313 | 2.5 | 85 | 0.00 | 15.64-16.01 |
| 58 | m | STYRENE | 0.450 | 0.460 | -2.2 | 85 | 0.00 | 15.55-15.86 |
| 59 | m | NONANE | 0.410 | 0.418 | -2.0 | 88 | 0.00 | 15.87-16.18 |
| | | ---------- | True | Calc. | % Drift | | ---------- | |
| 60 | m | BROMOFORM | 10.000 | 9.823 | 1.8 | 88 | 0.00 | 15.27-15.58 |
| | | ---------- | AvgRF | CCRF | % Dev | | ---------- | |
| 61 | S | 4-BROMOFLUOROBENZENE | 0.734 | 0.792 | -7.9 | 93 | 0.00 | 16.17-16.48 |
| 62 | m | 1,1,2,2-TETRACHLOROETH | 0.503 | 0.487 | 3.2 | 89 | 0.00 | 15.66-15.97 |
| 63 | m | ISOPROPYLBENZENE | 0.984 | 0.975 | 0.9 | 87 | 0.00 | 16.31-16.62 |
| 64 | m | 2-CHLOROTOLUENE | 0.707 | 0.718 | -1.6 | 89 | 0.00 | 16.81-17.22 |
| 65 | m | 4-ETHYLTOLUENE | 0.881 | 0.860 | 2.4 | 82 | 0.00 | 17.08-17.34 |
| 66 | m | 1,3,5-TRIMETHYLBENZENE | 0.855 | 0.873 | -2.1 | 88 | 0.00 | 17.16-17.42 |
| 67 | m | 1,2,4-TRIMETHYLBENZENE | 0.788 | 0.846 | -7.4 | 92 | 0.00 | 17.60-17.91 |
| 68 | m | m-DICHLOROBENZENE | 0.551 | 0.562 | -2.0 | 92 | 0.00 | 17.78-18.11 |
| | | ---------- | True | Calc. | % Drift | | ---------- | |
| 69 | m | BENZYL CHLORIDE | 10.000 | 10.142 | -1.4 | 92 | 0.00 | 17.76-18.07 |
| | | ---------- | AvgRF | CCRF | % Dev | | ---------- | |
| 70 | m | p-DICHLOROBENZENE | 0.532 | 0.565 | -6.2 | 92 | 0.00 | 17.89-18.13 |
| 71 | m | o-DICHLOROBENZENE | 0.525 | 0.515 | 1.9 | 91 | 0.00 | 18.25-18.56 |
| | | ---------- | True | Calc. | % Drift | | ---------- | |
| 72 | m | HEXACHLOROBUTADIENE | 10.000 | 14.094 | -40.9# | 113 | 0.00 | 20.59-21.00 |
| 73 | m | 1,2,4-TRICHLOROBENZENE | 10.000 | 13.186 | -31.9# | 113 | 0.00 | 20.10-20.51 |
| | | ---------- | AvgRF | CCRF | % Dev | | ---------- | |
| 74 | m | NAPHTHALENE | | ----------NA---------- | | | | |
| 75 | | 2-METHYLNAPHTHALENE | | ----------NA---------- | | | | |
| 76 | | 1-METHYLNAPHTHALENE | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSQ214-ICV214
**Lab FileID:** Q3984.D

```
-----------------------------------------------------------------------------
-----------------------------------------------------------------------------

   (#) = Out of Range                SPCC's out = 0  CCC's out = 0
    Q3979.D    Q071607T.m       Tue Jul 17 14:05:47 2007   RPT1
```

# Initial Calibration Summary



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSQ220-ICC220
**Lab FileID:** Q4141.D

```
                         Response Factor Report  MAMSQ

 Method       : C:\msdchem\1\METHODS\Q072707T.m (RTE Integrator)
 Title        :  TO15  by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
 Last Update  : Mon Jul 30 09:19:53 2007
 Response via : Initial Calibration

 Calibration Files
 .2     =Q4138.D      .5     =Q4137.D      2      =Q4143.D
 5    =Q4142.D     10   =Q4141.D     20   =Q4140.D     40   =Q4139.D

     Compound           .2    .5    2     5     10    20    40     Avg   %RSD
 ---------------------------------------------------------------------------

 1) I   BROMOCHLOROMETHANE    ----------------ISTD---------------------
 2)m DICHLORODIFLUOROM 5.875 5.619 7.750 3.932 5.466 4.887 4.340 5.410  23.07
 3)m PROPYLENE         0.506 0.478 1.141 0.606 0.852 0.807 0.701 0.727  31.74
  ----- Linear regression  (equal Weighting)-----  Coefficient =  0.9915
              Response Ratio = 0.04360 + 0.71152 *A

 4)m FREON 114         5.149 4.895 5.955 3.904 5.117 4.254 3.994 4.753  15.60
 5)m CHLOROMETHANE     1.210 1.112 1.570 0.964 1.244 1.089 0.928 1.160  18.54
 6)m VINYL CHLORIDE    1.190 1.067 1.781 1.101 1.390 1.219 1.082 1.261  20.18
 7)m 1,3-BUTADIENE     0.863 0.846 1.209 0.962 1.199 1.049 0.949 1.011  14.62
 8)m BROMOMETHANE      1.487 1.436 1.943 1.267 1.462 1.327 1.252 1.454  16.19
 9)m CHLOROETHANE      0.394 0.451 0.585 0.503 0.599 0.524 0.491 0.507  14.20
10)m TRICHLOROFLUOROME 5.963 5.425 7.328 4.830 5.931 5.185 4.454 5.588  16.88
11)m ISOPROPYL ALCOHOL 2.406 1.632 2.339 1.866 2.129 1.924 1.474 1.967  17.66
12)m ACETONE           3.551 2.469 2.450 1.828 2.115 1.927 1.526 2.267  29.07
13)m PENTANE           1.281 1.186 1.702 1.153 1.435 1.279 1.032 1.295  16.89
14)m 1,1-DICHLOROETHYL 1.237 1.246 2.023 1.376 1.586 1.514 1.282 1.466  19.10
15)m CARBON DISULFIDE  4.327 4.033 6.127 3.986 4.855 4.419 3.649 4.485  18.24
16)m ETHANOL           0.441 0.310 0.416 0.304 0.332 0.289 0.251 0.335  20.66
17)m BROMOETHENE       1.184 1.130 1.857 1.281 1.507 1.283 1.225 1.352  18.67
18)m METHYLENE CHLORID 6.953 3.172 1.769 1.205 1.372 1.297 1.138 2.415  87.87
  ----- Linear regression  (equal Weighting)-----  Coefficient =  0.9955
              Response Ratio = 0.14264 + 1.12922 *A

19)m 3-CHLOROPROPENE   0.869 0.776 1.369 1.002 1.449 1.259 1.069 1.113  22.83
20)m FREON 113         5.780 5.806 3.967 2.826 2.979 2.841 2.667 3.838  36.52
  ----- Linear regression  (equal Weighting)-----  Coefficient =  0.9988
              Response Ratio = 0.19564 + 2.64733 *A

21)m TRANS-1,2-DICHLOR 1.212 1.304 1.500 1.327 1.539 1.410 1.103 1.342  11.56
22)m TERTIARY BUTYL AL 1.423 1.351 2.873 2.408 2.821 2.567       2.240  30.48
  ----- Linear regression  (equal Weighting)-----  Coefficient =  0.9965
              Response Ratio = -0.00193 + 2.61018 *A

23)m METHYL TERTIARY B 1.645 1.723 2.794 2.473 3.386 3.111 2.402 2.505  26.23
24)m TETRAHYDROFURAN   0.210 0.272 0.902 0.797 0.969 0.872 0.855 0.696  45.38
  ----- Linear regression  (equal Weighting)-----  Coefficient =  0.9984
              Response Ratio = 0.00618 + 0.86019 *A

25)m HEXANE            1.050 0.990 1.897 1.438 1.580 1.474 1.489 1.417  21.99
26)m VINYL ACETATE     1.248 1.210 2.004 1.696 2.607 2.297 1.879 1.849  27.88
27)m 1,1-DICHLOROETHAN 2.066 2.121 2.838 2.056 2.881 2.704 2.097 2.395  16.30
28)m METHYL ETHYL KETO 0.998 0.975 2.077 1.801 2.072 1.868 1.764 1.651  28.46
29)m cis-1,2-DICHLOROE 0.438 0.570 1.245 0.912 1.053 1.002 1.142 0.909  32.83
          ----- Quadratic regression -----  Coefficient =  0.9992
              Response Ratio = 0.01507 + 0.90456 *A + 0.05790 *A^2
```

# Initial Calibration Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSQ220-ICC220
**Lab FileID:** Q4141.D

```
30)m ETHYL ACETATE     2.159 2.190 4.031 3.167 3.569 3.212 3.120 3.064  22.33
31)m CHLOROFORM        2.666 2.883 3.917 2.781 3.273 2.930 3.019 3.067  13.72
32)m 1,1,1-TRICHLOROET 2.473 2.787 4.085 2.824 3.529 3.117 3.207 3.146  17.01
33)m CARBON TETRACHLOR 3.330 3.735 4.930 3.522 4.164 3.621 3.695 3.857  13.94
34)m 1,2-DICHLOROETHAN 1.379 1.351 2.426 1.705 2.174 1.937 1.907 1.840  21.50

35) I   1,4-DIFLUOROBENZENE   ----------------ISTD--------------------
36)m BENZENE           0.272 0.313 0.740 0.544 0.603 0.586 0.666 0.532  33.01
         ----- Quadratic regression -----  Coefficient =  0.9994
              Response Ratio = 0.00961 + 0.52551 *A + 0.03423 *A^2

37)m CYCLOHEXANE       0.079 0.105 0.348 0.265 0.265 0.249 0.278 0.227  43.13
  ----- Linear regression  (equal Weighting)-----  Coefficient =  0.9969
              Response Ratio = -0.00718 + 0.27472 *A

38)m TRICHLOROETHYLENE 0.181 0.225 0.458 0.351 0.373 0.347 0.399 0.333  29.21
39)m 1,2-DICHLOROPROPA 0.128 0.136 0.256 0.194 0.211 0.199 0.221 0.192  23.88
40)m BROMODICHLOROMETH 0.463 0.501 0.733 0.559 0.654 0.612 0.656 0.597  15.94
41)m 2,2,4-TRIMETHYLPE 0.348 0.452 1.217 0.979 1.057 0.985 1.096 0.876  38.39
         ----- Quadratic regression -----  Coefficient =  0.9991
              Response Ratio = 0.01498 + 0.92751 *A + 0.04048 *A^2

42)m 1,4-DIOXANE             0.037 0.121 0.108 0.116 0.113 0.123 0.103  31.93
  ----- Linear regression  (equal Weighting)-----  Coefficient =  0.9983
              Response Ratio = -0.00647 + 0.12293 *A

43)m HEPTANE           0.110 0.154 0.402 0.342 0.386 0.361 0.400 0.308  39.88
         ----- Quadratic regression -----  Coefficient =  0.9992
              Response Ratio = 0.00128 + 0.34215 *A + 0.01424 *A^2

44)m METHYL ISOBUTYL K 0.121 0.154 0.511 0.458 0.469 0.447 0.482 0.377  43.86
         ----- Quadratic regression -----  Coefficient =  0.9995
              Response Ratio = 0.00236 + 0.43285 *A + 0.01183 *A^2

45)m cis-1,3-DICHLOROP 0.119 0.119 0.349 0.286 0.333 0.326 0.370 0.272  39.52
         ----- Quadratic regression -----  Coefficient =  0.9995
              Response Ratio = -0.00063 + 0.29513 *A + 0.01858 *A^2

46)m TOLUENE           0.121 0.132 0.423 0.350 0.402 0.386 0.461 0.325  43.00
         ----- Quadratic regression -----  Coefficient =  0.9992
              Response Ratio = 0.00376 + 0.33384 *A + 0.03126 *A^2

47)m trans-1,3-DICHLOR 0.098 0.111 0.314 0.262 0.323 0.307 0.349 0.252  41.43
         ----- Quadratic regression -----  Coefficient =  0.9992
              Response Ratio = -0.00192 + 0.28237 *A + 0.01669 *A^2

48)m 1,1,2-TRICHLOROET 0.140 0.164 0.284 0.221 0.223 0.208 0.242 0.212  22.60

49) I   CHLOROBENZENE-D5      ----------------ISTD--------------------
50)m 2-HEXANONE        0.098 0.126 0.438 0.417 0.439 0.422 0.477 0.345  46.55
         ----- Quadratic regression -----  Coefficient =  0.9994
              Response Ratio = 0.00130 + 0.38949 *A + 0.02163 *A^2

51)m TETRACHLOROETHYLE 0.325 0.349 0.488 0.373 0.397 0.375 0.467 0.396  15.21
52)m DIBROMOCHLOROMETH 0.417 0.489 0.769 0.585 0.634 0.593 0.709 0.600  20.15
53)m 1,2-DIBROMOETHANE 0.227 0.272 0.566 0.427 0.456 0.417 0.506 0.410  29.60
54)m CHLOROBENZENE     0.459 0.515 0.858 0.643 0.638 0.597 0.732 0.635  20.97
55)m ETHYLBENZENE      0.251 0.319 1.086 0.945 1.040 0.975 1.181 0.828  45.82
         ----- Quadratic regression -----  Coefficient =  0.9988
```

```
                Response Ratio = 0.01695 + 0.84261 *A + 0.08258 *A^2

56)m m,p-XYLENE        0.084 0.117 0.455 0.380 0.392 0.369 0.438 0.319  47.83
         ----- Quadratic regression -----  Coefficient =  0.9988
                Response Ratio = 0.01879 + 0.32329 *A + 0.01392 *A^2

57)m o-XYLENE          0.076 0.106 0.458 0.366 0.389 0.384 0.420 0.314  49.52
         ----- Quadratic regression -----  Coefficient =  0.9996
                Response Ratio = 0.00099 + 0.35904 *A + 0.01515 *A^2

58)m STYRENE           0.077 0.130 0.482 0.458 0.540 0.556 0.619 0.409  52.67
         ----- Quadratic regression -----  Coefficient =  0.9998
                Response Ratio = -0.01373 + 0.50896 *A + 0.02834 *A^2

59)m NONANE            0.116 0.167 0.638 0.542 0.569 0.526 0.625 0.455  48.00
         ----- Quadratic regression -----  Coefficient =  0.9986
                Response Ratio = 0.01279 + 0.46651 *A + 0.03825 *A^2

60)m BROMOFORM         0.323 0.388 0.674 0.530 0.554 0.536 0.664 0.524  24.84
61)S 4-BROMOFLUOROBENZ 0.624 0.656 0.740 0.735 0.872 0.599 0.739 0.709  13.02
62)m 1,1,2,2-TETRACHLO 0.378 0.445 0.775 0.604 0.602 0.617 0.655 0.582  22.74
63)m ISOPROPYLBENZENE  0.335 0.395 1.297 1.067 1.084 0.775       0.825  47.73
         ----- Quadratic regression -----  Coefficient =  0.9976
                Response Ratio = -0.03374 + 1.38325 *A + -0.29481 *A^2

64)m 2-CHLOROTOLUENE   0.198 0.224 0.878 0.749 0.627 0.599 0.885 0.594  47.82
         ----- Quadratic regression -----  Coefficient =  0.9963
                Response Ratio = 0.05796 + 0.37447 *A + 0.12274 *A^2

65)m 4-ETHYLTOLUENE    0.148 0.226 1.031 0.902 0.751 0.707 0.855 0.660  51.55
         ----- Quadratic regression -----  Coefficient =  0.9973
                Response Ratio = 0.04227 + 0.60772 *A + 0.05818 *A^2

66)m 1,3,5-TRIMETHYLBE 0.177 0.236 1.076 0.887 0.742 0.660 0.763 0.649  50.90
         ----- Quadratic regression -----  Coefficient =  0.9963
                Response Ratio = 0.04559 + 0.60845 *A + 0.03493 *A^2

67)m 1,2,4-TRIMETHYLBE 0.137 0.179 0.856 0.773 0.650 0.660 0.737 0.570  50.94
         ----- Quadratic regression -----  Coefficient =  0.9988
                Response Ratio = 0.01873 + 0.59922 *A + 0.03280 *A^2

68)m m-DICHLOROBENZENE 0.170 0.238 0.691 0.535 0.390 0.401 0.467 0.413  42.58
         ----- Quadratic regression -----  Coefficient =  0.9969
                Response Ratio = 0.03112 + 0.33769 *A + 0.02993 *A^2

69)m BENZYL CHLORIDE   0.092 0.170 0.532 0.460 0.427 0.442 0.499 0.375  45.85
         ----- Quadratic regression -----  Coefficient =  0.9995
                Response Ratio = 0.00697 + 0.39313 *A + 0.02587 *A^2

70)m p-DICHLOROBENZENE 0.161 0.228 0.673 0.515 0.392 0.410 0.458 0.405  42.46
         ----- Quadratic regression -----  Coefficient =  0.9977
                Response Ratio = 0.02441 + 0.35962 *A + 0.02279 *A^2

71)m o-DICHLOROBENZENE 0.123 0.197 0.562 0.446 0.376 0.400 0.465 0.367  42.12
         ----- Quadratic regression -----  Coefficient =  0.9989
                Response Ratio = 0.01577 + 0.33692 *A + 0.03074 *A^2

72)m HEXACHLOROBUTADIE 0.358 0.449 0.348 0.272 0.218 0.246 0.162 0.293  33.22
         ----- Quadratic regression -----  Coefficient =  0.9912
                Response Ratio = -0.00019 + 0.29648 *A + -0.03329 *A^2
```

# Initial Calibration Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSQ220-ICC220
**Lab FileID:** Q4141.D

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 73)m 1,2,4-TRICHLOROBE | 0.073 | 0.148 | 0.122 | 0.127 | 0.162 | 0.139 | 0.128 | 23.79 |
| 74)m NAPHTHALENE | | | | | | | 0.000 | -1.00 |
| 75) 2-METHYLNAPHTHALE | | | | | | | 0.000 | -1.00 |
| 76) 1-METHYLNAPHTHALE | | | | | | | 0.000 | -1.00 |

(#) = Out of Range

Q072707T.m Wed Aug 01 10:04:46 2007 RPT1

# Initial Calibration Verification



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSQ220-ICV220
**Lab FileID:** Q4148A.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\Q4148A.D  Vial: 1
Acq On : 30 Jul 2007 11:46 am  Operator: danat
Sample : ICV220-10 (M069)  Inst : MAMSQ
Misc : MS13975, MSQ220,,,,,1  Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\msdchem\1\METHODS\Q072707T.m (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Aug 01 10:19:33 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 40% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 180%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | RT Window |
|---|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 98 | 0.00 | 8.42- 8.84 |
| 2 | m | DICHLORODIFLUOROMETHAN | 5.410 | 5.932 | -9.6 | 106 | 0.00 | 3.83- 4.24 |
| | | ---------- True Calc. % Drift ---------- | | | | | | |
| 3 | m | PROPYLENE | 10.000 | 12.367 | -23.7 | 106 | 0.00 | 3.76- 4.17 |
| | | ---------- AvgRF CCRF % Dev ---------- | | | | | | |
| 4 | m | FREON 114 | 4.753 | 4.656 | 2.0 | 89 | 0.00 | 4.09- 4.50 |
| 5 | m | CHLOROMETHANE | 1.160 | 1.173 | -1.1 | 92 | 0.00 | 3.99- 4.40 |
| 6 | m | VINYL CHLORIDE | 1.261 | 1.336 | -5.9 | 94 | 0.00 | 4.21- 4.62 |
| 7 | m | 1,3-BUTADIENE | 1.011 | 0.959 | 5.1 | 78 | 0.00 | 4.35- 4.76 |
| 8 | m | BROMOMETHANE | 1.454 | 1.500 | -3.2 | 100 | 0.00 | 4.63- 5.04 |
| 9 | m | CHLOROETHANE | 0.507 | 0.518 | -2.2 | 85 | 0.00 | 4.79- 5.21 |
| 10 | m | TRICHLOROFLUOROMETHANE | 5.588 | 5.368 | 3.9 | 89 | 0.00 | 5.58- 5.99 |
| 11 | m | ISOPROPYL ALCOHOL | 1.967 | 1.788 | 9.1 | 82 | 0.00 | 5.59- 6.06 |
| 12 | m | ACETONE | 2.267 | 1.665 | 26.6 | 77 | 0.00 | 5.39- 5.80 |
| 13 | m | PENTANE | 1.295 | 1.195 | 7.7 | 81 | 0.00 | 5.99- 6.30 |
| 14 | m | 1,1-DICHLOROETHYLENE | 1.466 | 1.414 | 3.5 | 87 | 0.00 | 6.22- 6.63 |
| 15 | m | CARBON DISULFIDE | 4.485 | 4.442 | 1.0 | 90 | 0.00 | 6.65- 7.06 |
| 16 | m | ETHANOL | 0.335 | 0.288 | 14.0 | 85 | 0.00 | 4.87- 5.33 |
| 17 | m | BROMOETHENE | 1.352 | 1.394 | -3.1 | 91 | 0.00 | 5.16- 5.57 |
| | | ---------- True Calc. % Drift ---------- | | | | | | |
| 18 | m | METHYLENE CHLORIDE | 10.000 | 9.362 | 6.4 | 86 | 0.00 | 6.39- 6.69 |
| | | ---------- AvgRF CCRF % Dev ---------- | | | | | | |
| 19 | m | 3-CHLOROPROPENE | 1.113 | 1.075 | 3.4 | 73 | 0.00 | 6.45- 6.86 |
| | | ---------- True Calc. % Drift ---------- | | | | | | |
| 20 | m | FREON 113 | 10.000 | 9.784 | 2.2 | 92 | 0.00 | 6.59- 7.00 |
| | | ---------- AvgRF CCRF % Dev ---------- | | | | | | |
| 21 | m | TRANS-1,2-DICHLOROETHY | 1.342 | 1.396 | -4.0 | 89 | 0.00 | 7.26- 7.67 |
| | | ---------- True Calc. % Drift ---------- | | | | | | |
| 22 | m | TERTIARY BUTYL ALCOHOL | 10.000 | 9.107 | 8.9 | 82 | 0.00 | 6.17- 6.69 |
| | | ---------- AvgRF CCRF % Dev ---------- | | | | | | |
| 23 | m | METHYL TERTIARY BUTYL | 2.505 | 2.631 | -5.0 | 76 | 0.00 | 7.50- 7.92 |
| | | ---------- True Calc. % Drift ---------- | | | | | | |
| 24 | m | TETRAHYDROFURAN | 10.000 | 9.422 | 5.8 | 82 | 0.00 | 9.00- 9.28 |

# Initial Calibration Verification

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSQ220-ICV220
**Lab FileID:** Q4148A.D

| | | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 25 | m | HEXANE | 1.417 | 1.531 | -8.0 | 95 | 0.00 | 8.46- 8.87 |
| 26 | m | VINYL ACETATE | 1.849 | 1.691 | 8.5 | 63 | 0.00 | 7.61- 7.96 |
| 27 | m | 1,1-DICHLOROETHANE | 2.395 | 2.320 | 3.1 | 79 | 0.00 | 7.45- 7.87 |
| 28 | m | METHYL ETHYL KETONE | 1.651 | 1.839 | -11.4 | 87 | 0.00 | 7.79- 8.27 |
| | | | True | Calc. | % Drift | | | |
| 29 | m | cis-1,2-DICHLOROETHYLE | 10.000 | 11.175 | -11.8 | 102 | 0.00 | 8.26- 8.67 |
| | | | AvgRF | CCRF | % Dev | | | |
| 30 | m | ETHYL ACETATE | 3.064 | 3.146 | -2.7 | 86 | 0.00 | 8.45- 8.87 |
| 31 | m | CHLOROFORM | 3.067 | 3.214 | -4.8 | 96 | 0.00 | 8.54- 8.96 |
| 32 | m | 1,1,1-TRICHLOROETHANE | 3.146 | 3.297 | -4.8 | 91 | 0.00 | 9.50- 9.91 |
| 33 | m | CARBON TETRACHLORIDE | 3.857 | 4.117 | -6.7 | 97 | 0.00 | 10.08-10.50 |
| 34 | m | 1,2-DICHLOROETHANE | 1.840 | 1.863 | -1.2 | 84 | 0.00 | 9.26- 9.67 |
| 35 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 85 | 0.00 | 10.26-10.67 |
| | | | True | Calc. | % Drift | | | |
| 36 | m | BENZENE | 10.000 | 11.264 | -12.6 | 91 | 0.00 | 9.94-10.35 |
| 37 | m | CYCLOHEXANE | 10.000 | 11.846 | -18.5 | 103 | 0.00 | 10.20-10.62 |
| | | | AvgRF | CCRF | % Dev | | | |
| 38 | m | TRICHLOROETHYLENE | 0.333 | 0.429 | -28.8 | 98 | 0.00 | 10.99-11.30 |
| 39 | m | 1,2-DICHLOROPROPANE | 0.192 | 0.229 | -19.3 | 93 | 0.00 | 10.72-11.13 |
| 40 | m | BROMODICHLOROMETHANE | 0.597 | 0.653 | -9.4 | 85 | 0.00 | 10.95-11.26 |
| | | | True | Calc. | % Drift | | | |
| 41 | m | 2,2,4-TRIMETHYLPENTANE | 10.000 | 11.925 | -19.3 | 95 | 0.00 | 10.96-11.37 |
| 42 | m | 1,4-DIOXANE | 10.000 | 10.543 | -5.4 | 90 | 0.00 | 10.87-11.39 |
| 43 | m | HEPTANE | 10.000 | 11.088 | -10.9 | 88 | 0.00 | 11.25-11.56 |
| 44 | m | METHYL ISOBUTYL KETONE | 10.000 | 10.922 | -9.2 | 89 | 0.00 | 11.76-12.19 |
| 45 | m | cis-1,3-DICHLOROPROPEN | 10.000 | 11.446 | -14.5 | 93 | 0.00 | 11.76-12.17 |
| 46 | m | TOLUENE | 10.000 | 11.585 | -15.9 | 92 | 0.00 | 12.72-13.13 |
| 47 | m | trans-1,3-DICHLOROPROP | 10.000 | 9.328 | 6.7 | 73 | 0.00 | 12.31-12.62 |
| | | | AvgRF | CCRF | % Dev | | | |
| 48 | m | 1,1,2-TRICHLOROETHANE | 0.212 | 0.257 | -21.2 | 99 | 0.00 | 12.46-12.82 |
| 49 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 86 | 0.00 | 14.55-14.86 |
| | | | True | Calc. | % Drift | | | |
| 50 | m | 2-HEXANONE | 10.000 | 10.602 | -6.0 | 86 | 0.00 | 12.94-13.35 |
| | | | AvgRF | CCRF | % Dev | | | |
| 51 | m | TETRACHLOROETHYLENE | 0.396 | 0.451 | -13.9 | 97 | 0.00 | 13.85-14.26 |
| 52 | m | DIBROMOCHLOROMETHANE | 0.600 | 0.686 | -14.3 | 93 | 0.00 | 13.17-13.53 |
| 53 | m | 1,2-DIBROMOETHANE | 0.410 | 0.498 | -21.5 | 94 | 0.00 | 13.44-13.75 |
| 54 | m | CHLOROBENZENE | 0.635 | 0.734 | -15.6 | 99 | 0.00 | 14.59-14.90 |
| | | | True | Calc. | % Drift | | | |
| 55 | m | ETHYLBENZENE | 10.000 | 11.922 | -19.2 | 94 | 0.00 | 14.95-15.31 |
| 56 | m | m,p-XYLENE | 20.000 | 24.572 | -22.9 | 98 | 0.00 | 15.14-15.50 |
| 57 | m | o-XYLENE | 10.000 | 11.677 | -16.8 | 97 | 0.00 | 15.64-16.00 |
| 58 | m | STYRENE | 10.000 | 10.919 | -9.2 | 92 | 0.00 | 15.55-15.86 |
| 59 | m | NONANE | 10.000 | 12.173 | -21.7 | 96 | 0.00 | 15.87-16.18 |
| | | | AvgRF | CCRF | % Dev | | | |
| 60 | m | BROMOFORM | 0.524 | 0.627 | -19.7 | 97 | 0.00 | 15.27-15.58 |

# Initial Calibration Verification

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSQ220-ICV220
**Lab FileID:** Q4148A.D

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 61 | S | 4-BROMOFLUOROBENZENE | 0.709 | 0.777 | -9.6 | 76 | 0.00 | 16.17-16.48 |
| 62 | m | 1,1,2,2-TETRACHLOROETH | 0.582 | 0.740 | -27.1 | 105 | 0.00 | 15.65-15.96 |
| | | ---------- | True | Calc. | % Drift | | ---------- | |
| 63 | m | ISOPROPYLBENZENE | 10.000 | 13.397 | -34.0# | 102 | 0.00 | 16.31-16.62 |
| 64 | m | 2-CHLOROTOLUENE | 10.000 | 15.603 | -56.0# | 129 | 0.00 | 16.81-17.22 |
| 65 | m | 4-ETHYLTOLUENE | 10.000 | 12.930 | -29.3 | 120 | 0.00 | 17.07-17.34 |
| 66 | m | 1,3,5-TRIMETHYLBENZENE | 10.000 | 14.443 | -44.4# | 125 | 0.00 | 17.16-17.42 |
| 67 | m | 1,2,4-TRIMETHYLBENZENE | 10.000 | 13.235 | -32.3# | 124 | 0.00 | 17.60-17.91 |
| 68 | m | m-DICHLOROBENZENE | 10.000 | 13.118 | -31.2# | 130 | 0.00 | 17.77-18.10 |
| 69 | m | BENZYL CHLORIDE | 10.000 | 12.354 | -23.5 | 107 | 0.00 | 17.76-18.07 |
| 70 | m | p-DICHLOROBENZENE | 10.000 | 12.315 | -23.1 | 120 | 0.00 | 17.89-18.13 |
| 71 | m | o-DICHLOROBENZENE | 10.000 | 11.592 | -15.9 | 115 | 0.00 | 18.24-18.55 |
| 72 | m | HEXACHLOROBUTADIENE | 10.000 | 10.501 | -5.0 | 108 | 0.00 | 20.59-21.00 |
| | | ---------- | AvgRF | CCRF | % Dev | | ---------- | |
| 73 | m | 1,2,4-TRICHLOROBENZENE | 0.128 | 0.112 | 12.5 | 75 | 0.00 | 20.10-20.51 |
| 74 | m | NAPHTHALENE | | ----------NA---------- | | | | |
| 75 | | 2-METHYLNAPHTHALENE | | ----------NA---------- | | | | |
| 76 | | 1-METHYLNAPHTHALENE | | ----------NA---------- | | | | |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Q4141.D Q072707T.m Wed Aug 01 12:04:37 2007 RPT1

# Continuing Calibration Summary



**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSQ221-CC220
**Lab FileID:** Q4163.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\Q4163.D                    Vial: 1
Acq On    :  1 Aug 2007  11:54 am                   Operator: danat
Sample    : CC220-10 (M069)                         Inst    : MAMSQ
Misc      : MS14034, MSQ221,,,,,1                   Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\msdchem\1\METHODS\Q072707T.m (RTE Integrator)
Title        :  TO15  by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update  : Wed Aug 01 10:19:33 2007
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  40%  Max. R.T. Dev  0.33min
Max. RRF Dev :  30%     Max. Rel. Area : 180%
```

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | RT Window |
|---|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 130 | 0.00 | 8.43- 8.84 |
| 2 | m | DICHLORODIFLUOROMETHAN | 5.410 | 5.673 | -4.9 | 135 | 0.00 | 3.83- 4.24 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 3 | m | PROPYLENE | 10.000 | 9.927 | 0.7 | 114 | 0.00 | 3.76- 4.17 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 4 | m | FREON 114 | 4.753 | 5.180 | -9.0 | 132 | 0.00 | 4.09- 4.50 |
| 5 | m | CHLOROMETHANE | 1.160 | 1.216 | -4.8 | 127 | 0.00 | 3.99- 4.40 |
| 6 | m | VINYL CHLORIDE | 1.261 | 1.310 | -3.9 | 122 | 0.00 | 4.21- 4.63 |
| 7 | m | 1,3-BUTADIENE | 1.011 | 1.043 | -3.2 | 113 | 0.00 | 4.35- 4.76 |
| 8 | m | BROMOMETHANE | 1.454 | 1.577 | -8.5 | 140 | 0.00 | 4.63- 5.04 |
| 9 | m | CHLOROETHANE | 0.507 | 0.572 | -12.8 | 124 | 0.00 | 4.80- 5.21 |
| 10 | m | TRICHLOROFLUOROMETHANE | 5.588 | 5.702 | -2.0 | 125 | 0.00 | 5.58- 5.99 |
| 11 | m | ISOPROPYL ALCOHOL | 1.967 | 1.479 | 24.8 | 90 | 0.00 | 5.58- 6.06 |
| 12 | m | ACETONE | 2.267 | 1.596 | 29.6 | 98 | 0.00 | 5.39- 5.80 |
| 13 | m | PENTANE | 1.295 | 1.288 | 0.5 | 117 | 0.00 | 5.99- 6.29 |
| 14 | m | 1,1-DICHLOROETHYLENE | 1.466 | 1.399 | 4.6 | 115 | 0.00 | 6.22- 6.63 |
| 15 | m | CARBON DISULFIDE | 4.485 | 4.375 | 2.5 | 117 | 0.00 | 6.65- 7.06 |
| 16 | m | ETHANOL | 0.335 | 0.249 | 25.7 | 98 | 0.00 | 4.86- 5.33 |
| 17 | m | BROMOETHENE | 1.352 | 1.354 | -0.1 | 117 | 0.00 | 5.16- 5.57 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 18 | m | METHYLENE CHLORIDE | 10.000 | 9.419 | 5.8 | 114 | 0.00 | 6.39- 6.69 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 19 | m | 3-CHLOROPROPENE | 1.113 | 1.029 | 7.5 | 92 | 0.00 | 6.45- 6.87 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 20 | m | FREON 113 | 10.000 | 10.094 | -0.9 | 125 | 0.00 | 6.59- 7.00 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 21 | m | TRANS-1,2-DICHLOROETHY | 1.342 | 1.309 | 2.5 | 110 | 0.00 | 7.26- 7.67 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 22 | m | TERTIARY BUTYL ALCOHOL | 10.000 | 7.673 | 23.3 | 92 | 0.00 | 6.17- 6.68 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 23 | m | METHYL TERTIARY BUTYL | 2.505 | 2.296 | 8.3 | 88 | 0.00 | 7.50- 7.91 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 24 | m | TETRAHYDROFURAN | 10.000 | 8.848 | 11.5 | 103 | 0.00 | 8.99- 9.28 |

# Continuing Calibration Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSQ221-CC220
**Lab FileID:** Q4163.D

| | | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 25 | m | HEXANE | 1.417 | 1.516 | -7.0 | 125 | 0.00 | 8.46- 8.87 |
| 26 | m | VINYL ACETATE | 1.849 | 1.407 | 23.9 | 70 | 0.00 | 7.61- 7.96 |
| 27 | m | 1,1-DICHLOROETHANE | 2.395 | 2.381 | 0.6 | 107 | 0.00 | 7.45- 7.87 |
| 28 | m | METHYL ETHYL KETONE | 1.651 | 1.629 | 1.3 | 102 | 0.00 | 7.79- 8.27 |
| | | | True | Calc. | % Drift | | | |
| 29 | m | cis-1,2-DICHLOROETHYLE | 10.000 | 9.564 | 4.4 | 115 | 0.00 | 8.26- 8.67 |
| | | | AvgRF | CCRF | % Dev | | | |
| 30 | m | ETHYL ACETATE | 3.064 | 3.134 | -2.3 | 114 | 0.00 | 8.45- 8.88 |
| 31 | m | CHLOROFORM | 3.067 | 3.203 | -4.4 | 127 | 0.00 | 8.54- 8.96 |
| 32 | m | 1,1,1-TRICHLOROETHANE | 3.146 | 3.278 | -4.2 | 121 | 0.00 | 9.50- 9.91 |
| 33 | m | CARBON TETRACHLORIDE | 3.857 | 4.118 | -6.8 | 128 | 0.00 | 10.08-10.50 |
| 34 | m | 1,2-DICHLOROETHANE | 1.840 | 1.806 | 1.8 | 108 | 0.00 | 9.25- 9.67 |
| 35 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 126 | 0.00 | 10.25-10.66 |
| | | | True | Calc. | % Drift | | | |
| 36 | m | BENZENE | 10.000 | 10.049 | -0.5 | 119 | 0.00 | 9.94-10.35 |
| 37 | m | CYCLOHEXANE | 10.000 | 10.447 | -4.5 | 133 | 0.00 | 10.21-10.62 |
| | | | AvgRF | CCRF | % Dev | | | |
| 38 | m | TRICHLOROETHYLENE | 0.333 | 0.386 | -15.9 | 130 | 0.00 | 10.99-11.30 |
| 39 | m | 1,2-DICHLOROPROPANE | 0.192 | 0.211 | -9.9 | 126 | 0.00 | 10.72-11.13 |
| 40 | m | BROMODICHLOROMETHANE | 0.597 | 0.596 | 0.2 | 114 | 0.00 | 10.95-11.26 |
| | | | True | Calc. | % Drift | | | |
| 41 | m | 2,2,4-TRIMETHYLPENTANE | 10.000 | 11.161 | -11.6 | 131 | 0.00 | 10.96-11.37 |
| 42 | m | 1,4-DIOXANE | 10.000 | 8.855 | 11.4 | 111 | 0.00 | 10.87-11.39 |
| 43 | m | HEPTANE | 10.000 | 10.374 | -3.7 | 121 | 0.00 | 11.25-11.56 |
| 44 | m | METHYL ISOBUTYL KETONE | 10.000 | 9.779 | 2.2 | 117 | 0.00 | 11.76-12.19 |
| 45 | m | cis-1,3-DICHLOROPROPEN | 10.000 | 9.530 | 4.7 | 112 | 0.00 | 11.76-12.17 |
| 46 | m | TOLUENE | 10.000 | 10.330 | -3.3 | 119 | 0.00 | 12.72-13.13 |
| 47 | m | trans-1,3-DICHLOROPROP | 10.000 | 6.130 | 38.7# | 69 | 0.00 | 12.31-12.62 |
| | | | AvgRF | CCRF | % Dev | | | |
| 48 | m | 1,1,2-TRICHLOROETHANE | 0.212 | 0.232 | -9.4 | 131 | 0.00 | 12.46-12.82 |
| 49 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 123 | 0.00 | 14.55-14.86 |
| | | | True | Calc. | % Drift | | | |
| 50 | m | 2-HEXANONE | 10.000 | 8.843 | 11.6 | 102 | 0.00 | 12.94-13.34 |
| | | | AvgRF | CCRF | % Dev | | | |
| 51 | m | TETRACHLOROETHYLENE | 0.396 | 0.390 | 1.5 | 121 | 0.00 | 13.85-14.26 |
| 52 | m | DIBROMOCHLOROMETHANE | 0.600 | 0.622 | -3.7 | 121 | 0.00 | 13.17-13.53 |
| 53 | m | 1,2-DIBROMOETHANE | 0.410 | 0.409 | 0.2 | 111 | 0.00 | 13.44-13.75 |
| 54 | m | CHLOROBENZENE | 0.635 | 0.627 | 1.3 | 121 | 0.00 | 14.59-14.90 |
| | | | True | Calc. | % Drift | | | |
| 55 | m | ETHYLBENZENE | 10.000 | 10.816 | -8.2 | 121 | 0.00 | 14.95-15.31 |
| 56 | m | m,p-XYLENE | 20.000 | 22.058 | -10.3 | 126 | 0.00 | 15.14-15.50 |
| 57 | m | o-XYLENE | 10.000 | 10.610 | -6.1 | 127 | 0.00 | 15.64-16.00 |
| 58 | m | STYRENE | 10.000 | 7.817 | 21.8 | 92 | 0.00 | 15.55-15.86 |
| 59 | m | NONANE | 10.000 | 11.963 | -19.6 | 136 | 0.00 | 15.87-16.18 |
| | | | AvgRF | CCRF | % Dev | | | |
| 60 | m | BROMOFORM | 0.524 | 0.544 | -3.8 | 121 | 0.00 | 15.27-15.58 |

# Continuing Calibration Summary

**Job Number:** M66578
**Account:** GEI GEI Consultants, Inc.
**Project:** GEI Tufts Street Somerville MA

**Sample:** MSQ221-CC220
**Lab FileID:** Q4163.D

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 61 | S | 4-BROMOFLUOROBENZENE | 0.709 | 0.797 | -12.4 | 113 | 0.00 | 16.17-16.48 |
| 62 | m | 1,1,2,2-TETRACHLOROETH | 0.582 | 0.686 | -17.9 | 140 | 0.00 | 15.65-15.96 |
| | | | ---------- True | Calc. | % Drift | ---------- | | |
| 63 | m | ISOPROPYLBENZENE | 10.000 | 11.339 | -13.4 | 131 | 0.00 | 16.31-16.62 |
| 64 | m | 2-CHLOROTOLUENE | 10.000 | 13.661 | -36.6# | 157 | 0.00 | 16.81-17.22 |
| 65 | m | 4-ETHYLTOLUENE | 10.000 | 10.854 | -8.5 | 143 | 0.00 | 17.07-17.34 |
| 66 | m | 1,3,5-TRIMETHYLBENZENE | 10.000 | 12.610 | -26.1 | 157 | 0.00 | 17.16-17.42 |
| 67 | m | 1,2,4-TRIMETHYLBENZENE | 10.000 | 11.017 | -10.2 | 147 | 0.00 | 17.60-17.91 |
| 68 | m | m-DICHLOROBENZENE | 10.000 | 8.665 | 13.4 | 122 | 0.00 | 17.77-18.10 |
| 69 | m | BENZYL CHLORIDE | 10.000 | 7.255 | 27.5 | 88 | 0.00 | 17.76-18.07 |
| 70 | m | p-DICHLOROBENZENE | 10.000 | 6.912 | 30.9# | 96 | 0.00 | 17.89-18.13 |
| 71 | m | o-DICHLOROBENZENE | 10.000 | 8.367 | 16.3 | 117 | 0.00 | 18.24-18.55 |
| 72 | m | HEXACHLOROBUTADIENE | 10.000 | 8.330 | 16.7 | 126 | 0.00 | 20.59-21.00 |
| | | | ---------- AvgRF | CCRF | % Dev | ---------- | | |
| 73 | m | 1,2,4-TRICHLOROBENZENE | 0.128 | 0.036 | 71.9# | 35# | 0.00 | 20.10-20.51 |
| 74 | m | NAPHTHALENE | | ----------NA---------- | | | | |
| 75 | | 2-METHYLNAPHTHALENE | | ----------NA---------- | | | | |
| 76 | | 1-METHYLNAPHTHALENE | | ----------NA---------- | | | | |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Q4141.D Q072707T.m Wed Aug 01 12:27:31 2007 RPT1

# GC/MS Volatiles



## Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4167.D
Acq On : 2 Aug 2007 9:44 am
Operator : danat
Sample : M66578-1 (m158)
Misc : MS14030, MSQ221,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 03 14:29:08 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.633 | 128 | 296513 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.458 | 114 | 1299438 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.703 | 117 | 1224400 | 10.00 | PPBV | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.323 | 95 | 440758 | 5.07 | PPBV | 0.00 |

Spiked Amount 5.000 Range 57 - 139 Recovery = 101.40%

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 2) DICHLORODIFLUOROMETHANE | 4.037 | 85 | 79328 | 0.49 | PPBV | 99 |
| 5) CHLOROMETHANE | 4.196 | 50 | 28830 | 0.84 | PPBV | 97 |
| 10) TRICHLOROFLUOROMETHANE | 5.787 | 101 | 39536 | 0.24 | PPBV | 95 |
| 11) ISOPROPYL ALCOHOL | 5.827 | 45 | 4681151 | 80.25 | PPBV | 98 |
| 12) ACETONE | 5.588 | 43 | 3186758 | 47.42 | PPBV | 95 |
| 13) PENTANE | 6.143 | 42 | 50361 | 1.31 | PPBV | 94 |
| 16) ETHANOL | 5.102 | 45 | 4573354 | 461.06 | PPBV | 98 |
| 18) METHYLENE CHLORIDE | 6.536 | 84 | 125129 | 2.47 | PPBV | 92 |
| 26) VINYL ACETATE | 7.769 | 43 | 118850 | 2.17 | PPBV | 87 |
| 30) ETHYL ACETATE | 8.656 | 43 | 1505163 | 16.57 | PPBV | 98 |
| 31) CHLOROFORM | 8.750 | 83 | 97832 | 1.08 | PPBV | 98 |
| 33) CARBON TETRACHLORIDE | 10.291 | 117 | 10922 | 0.10 | PPBV | 97 |
| 34) 1,2-DICHLOROETHANE | 9.460 | 62 | 8003 | 0.15 | PPBV | 95 |
| 36) BENZENE | 10.145 | 78 | 62823 | 0.73 | PPBV | 99 |
| 37) CYCLOHEXANE | 10.410 | 84 | 3354 | 0.36 | PPBV # | 80 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.171 | 57 | 28635 | 0.08 | PPBV | 81 |
| 46) TOLUENE | 12.919 | 92 | 324950 | 6.93 | PPBV | 98 |
| 51) TETRACHLOROETHYLENE | 14.053 | 164 | 8199 | 0.17 | PPBV | 95 |
| 58) STYRENE | 15.695 | 104 | 6741 | 0.38 | PPBV | 97 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.754 | 105 | 12518 | 0.47 | PPBV | 91 |
| 70) p-DICHLOROBENZENE | 18.011 | 146 | 3266 | 0.17 | PPBV | 96 |

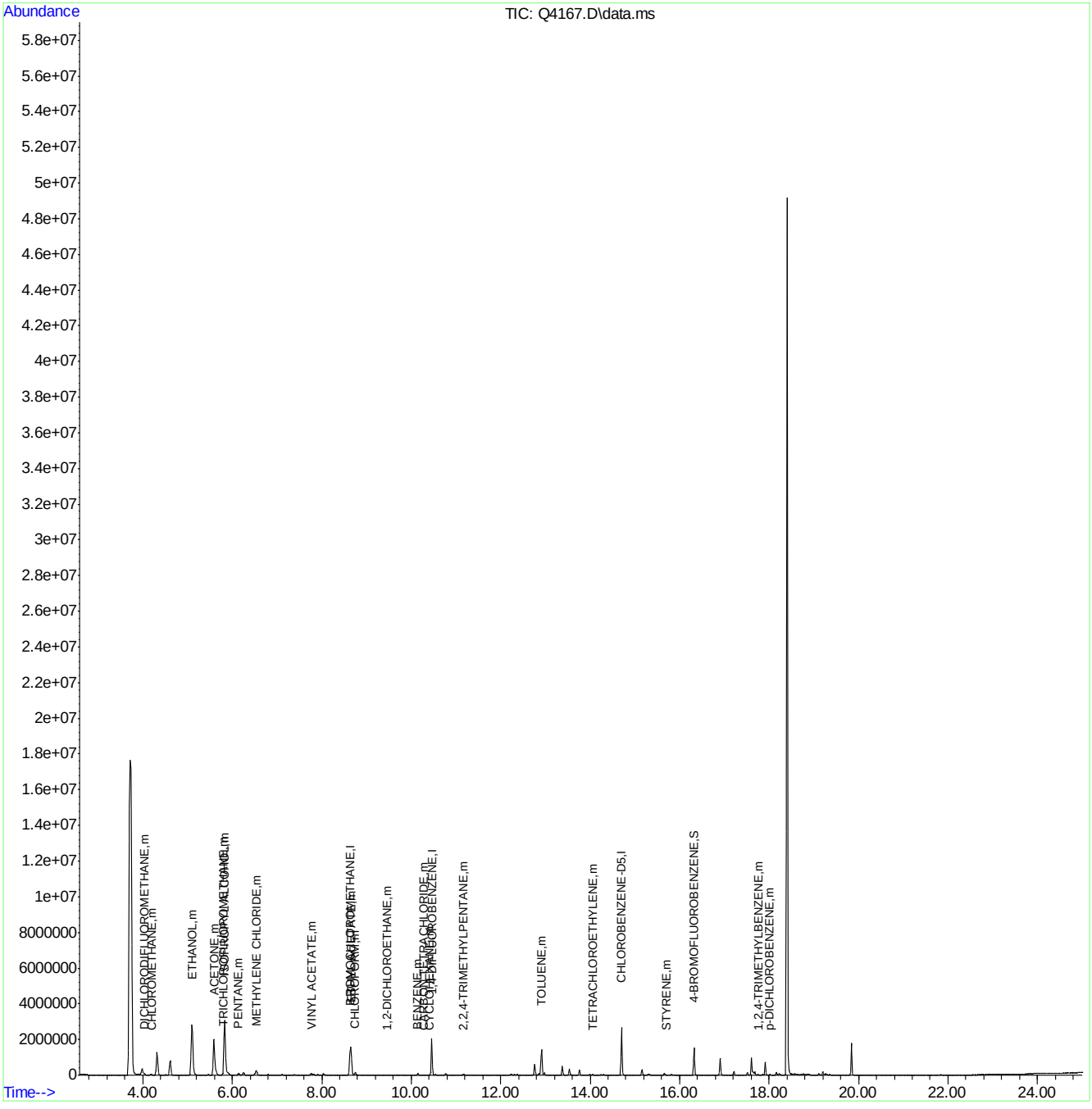
(#) = qualifier out of range (m) = manual integration (+) = signals summed

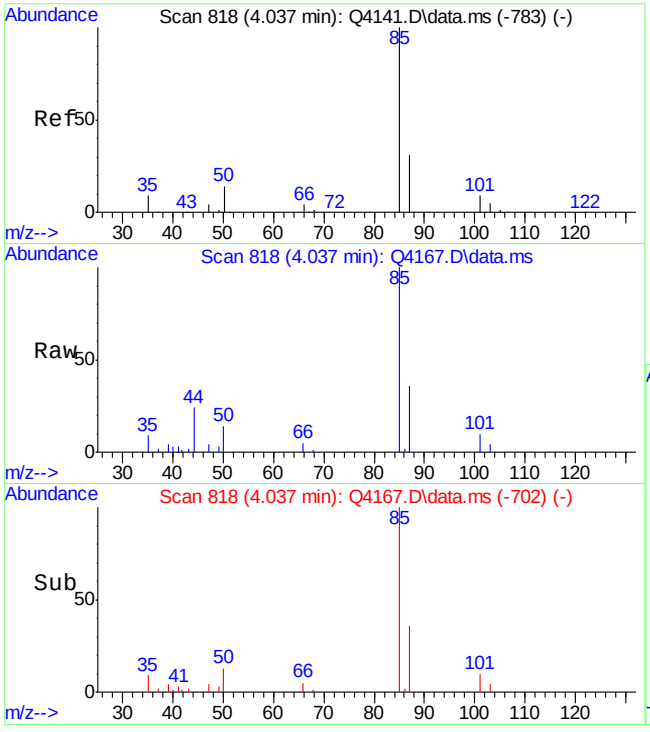
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4167.D
Acq On : 2 Aug 2007 9:44 am
Operator : danat
Sample : M66578-1 (m158)
Misc : MS14030, MSQ221,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 03 14:29:08 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration



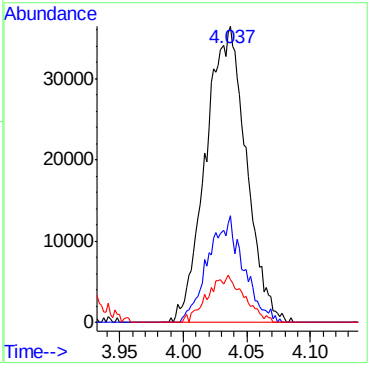


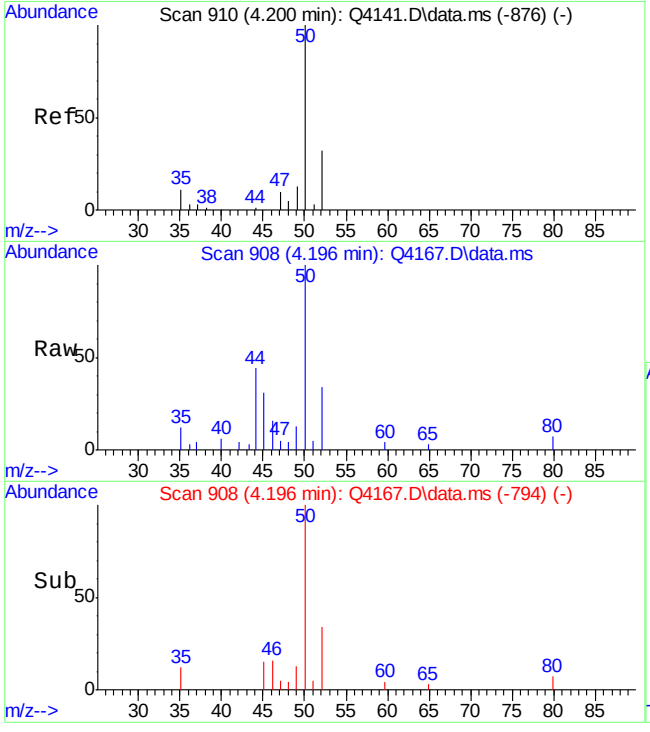



#2
DICHLORODIFLUOROMETHANE
Concen: 0.49 PPBV
RT: 4.037 min Scan# 818
Delta R.T. -0.000 min
Lab File: Q4167.D
Acq: 2 Aug 2007 9:44 am

Tgt Ion: 85 Resp: 79328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.4 | 12.1 | 52.1 |
| 50 | 14.3 | 0.0 | 33.9 |

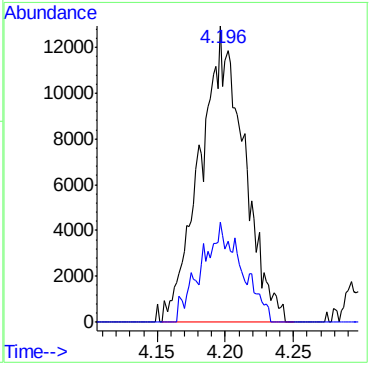


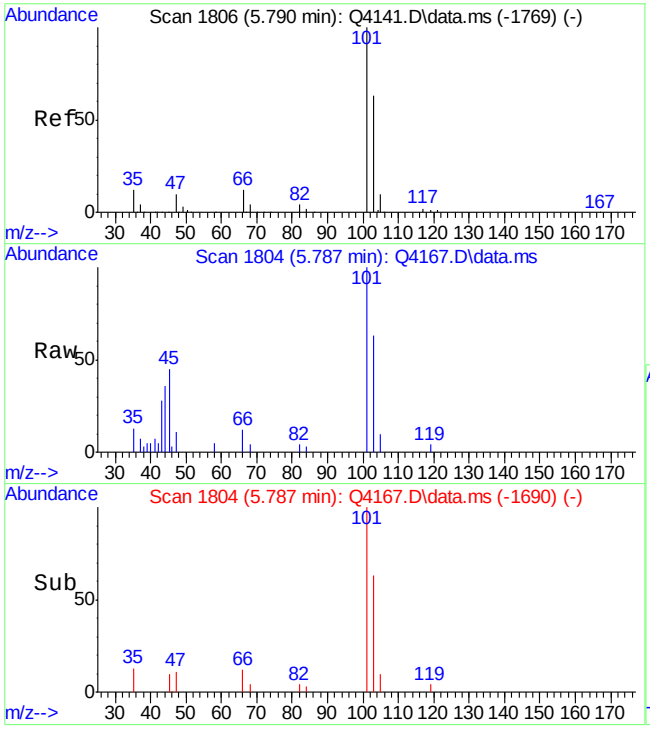




#5
CHLOROMETHANE
Concen: 0.84 PPBV
RT: 4.196 min Scan# 908
Delta R.T. -0.004 min
Lab File: Q4167.D
Acq: 2 Aug 2007 9:44 am

Tgt Ion: 50 Resp: 28830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.6 | 12.0 | 52.0 |

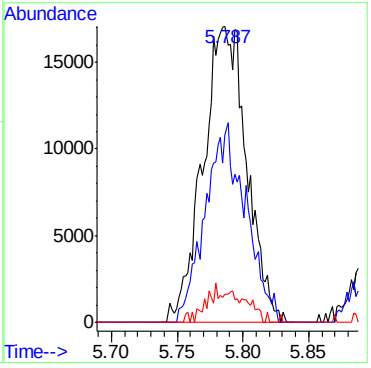


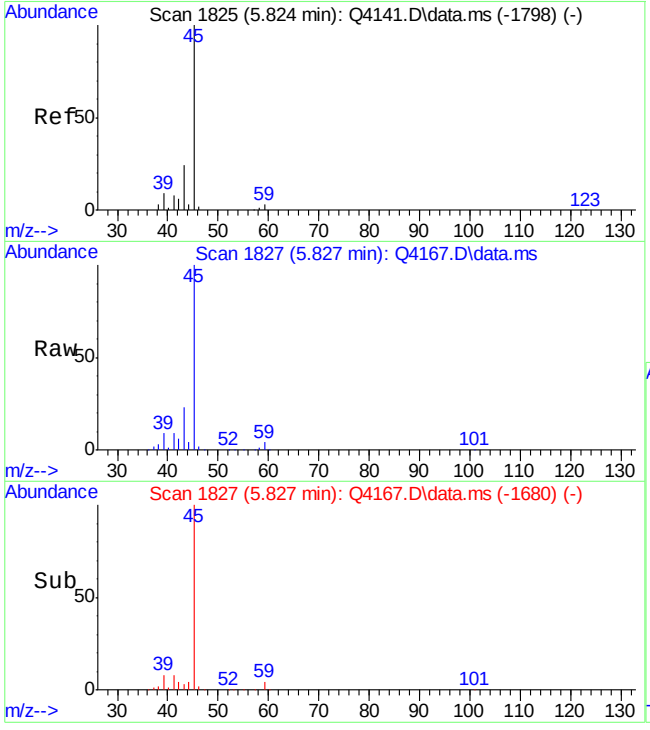



#10
TRICHLOROFLUOROMETHANE
Concen: 0.24 PPBV
RT: 5.787 min Scan# 1804
Delta R.T. -0.004 min
Lab File: Q4167.D
Acq: 2 Aug 2007 9:44 am

Tgt Ion:101 Resp: 39536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 61.9 | 44.7 | 84.7 |
| 105 | 6.4 | 0.0 | 30.4 |

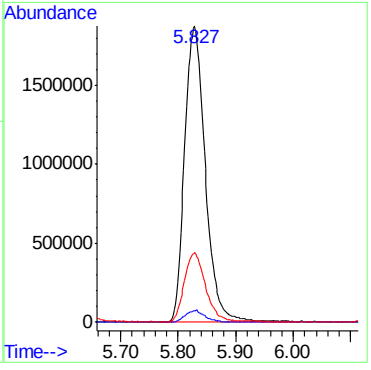


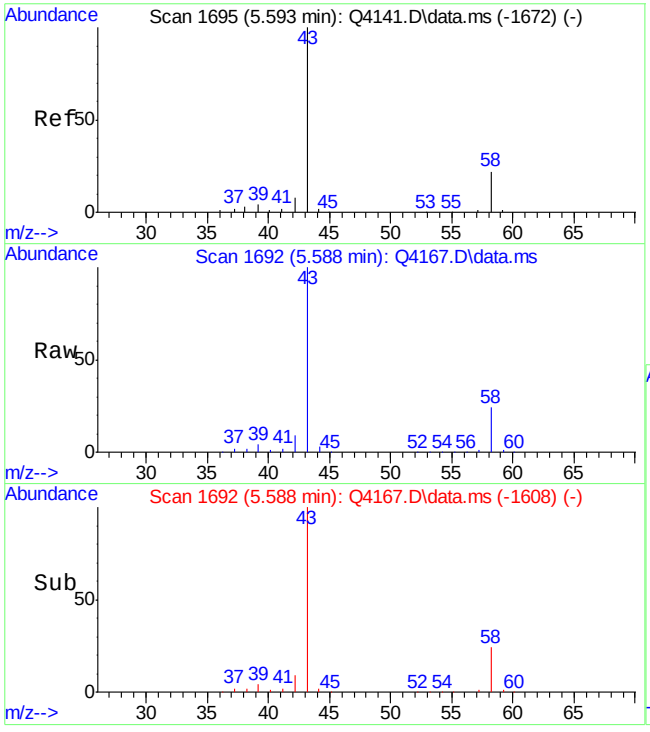




#11
ISOPROPYL ALCOHOL
Concen: 80.25 PPBV
RT: 5.827 min Scan# 1827
Delta R.T. 0.003 min
Lab File: Q4167.D
Acq: 2 Aug 2007 9:44 am

Tgt Ion: 45 Resp: 4681151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 59 | 4.0 | 0.0 | 23.3 |
| 43 | 23.2 | 4.5 | 44.5 |

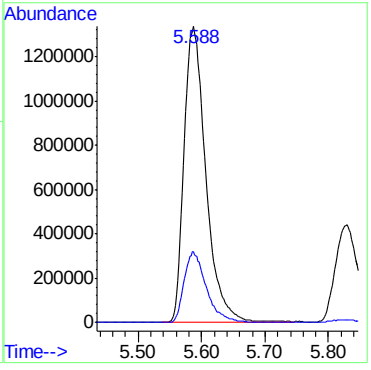


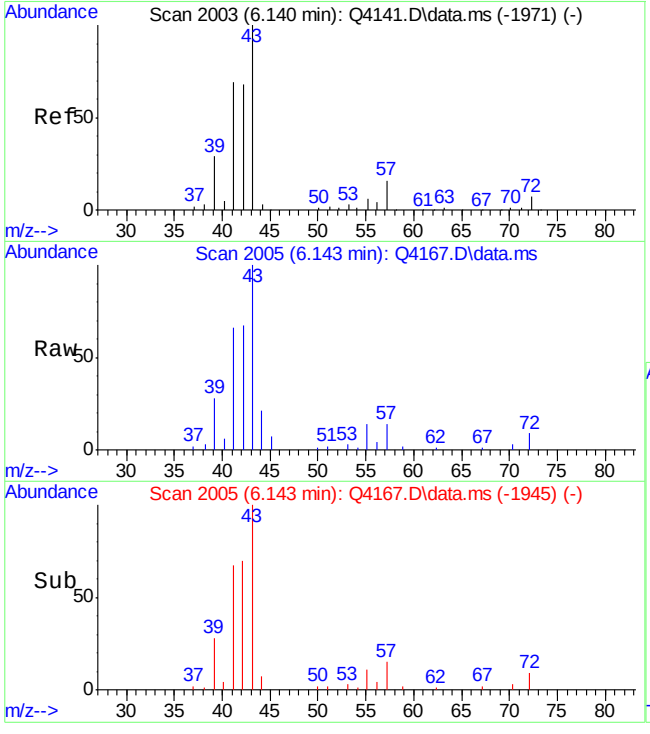



#12
ACETONE
Concen: 47.42 PPBV
RT: 5.588 min Scan# 1692
Delta R.T. -0.005 min
Lab File: Q4167.D
Acq: 2 Aug 2007 9:44 am

Tgt Ion: 43 Resp: 3186758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 24.2 | 1.9 | 41.9 |

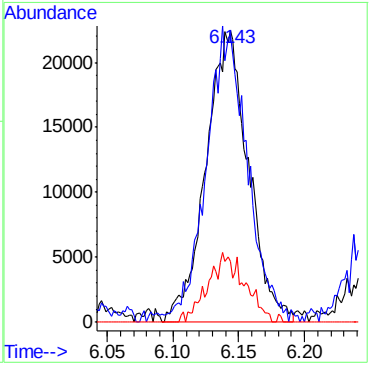



#13
PENTANE
Concen: 1.31 PPBV
RT: 6.143 min Scan# 2005
Delta R.T. 0.003 min
Lab File: Q4167.D
Acq: 2 Aug 2007 9:44 am

Tgt Ion: 42 Resp: 50361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 41 | 98.5 | 84.1 | 124.1 |
| 57 | 20.6 | 3.3 | 43.3 |







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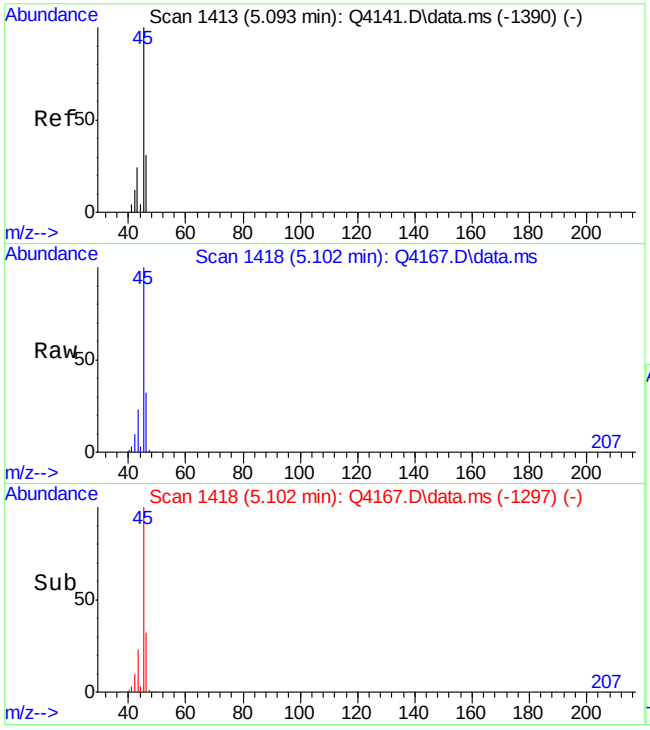
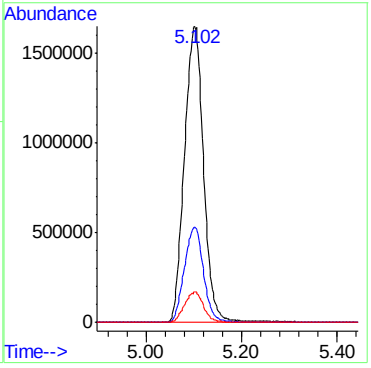
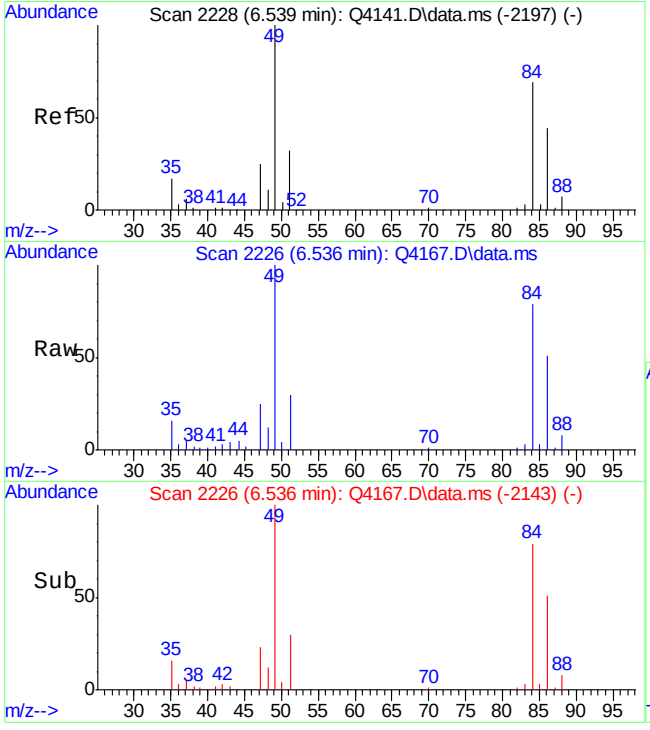



#16
ETHANOL
Concen: 461.06 PPBV
RT: 5.102 min Scan# 1418
Delta R.T. 0.009 min
Lab File: Q4167.D
Acq: 2 Aug 2007 9:44 am

Tgt Ion: 45 Resp: 4573354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 32.1 | 11.6 | 51.6 |
| 42 | 10.3 | 0.0 | 31.9 |

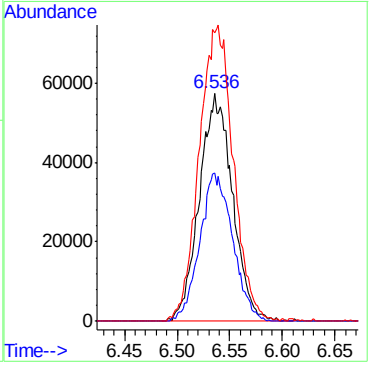


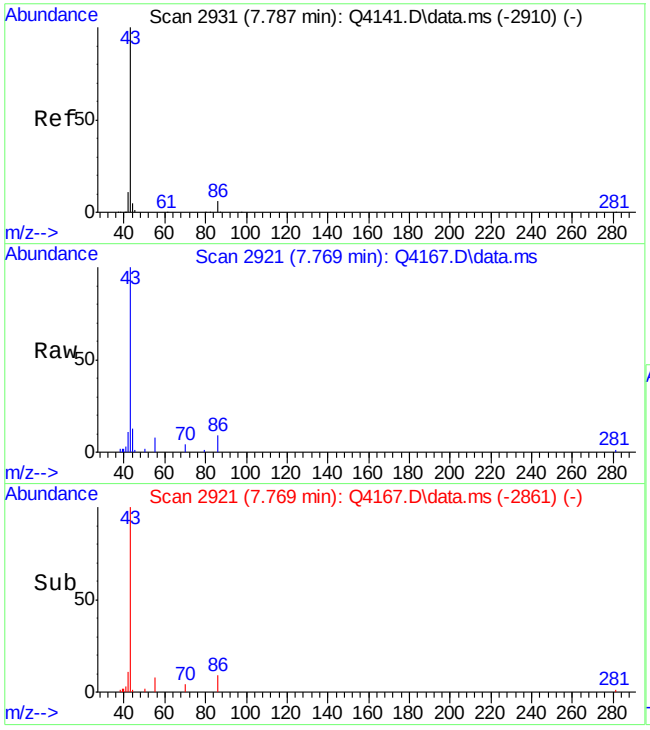




#18
METHYLENE CHLORIDE
Concen: 2.47 PPBV
RT: 6.536 min Scan# 2226
Delta R.T. -0.003 min
Lab File: Q4167.D
Acq: 2 Aug 2007 9:44 am

Tgt Ion: 84 Resp: 125129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 64.6 | 44.4 | 84.4 |
| 49 | 134.5 | 0.0 | 348.3 |

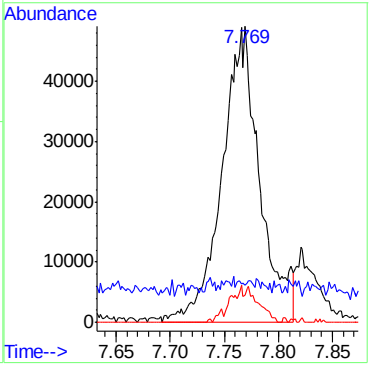


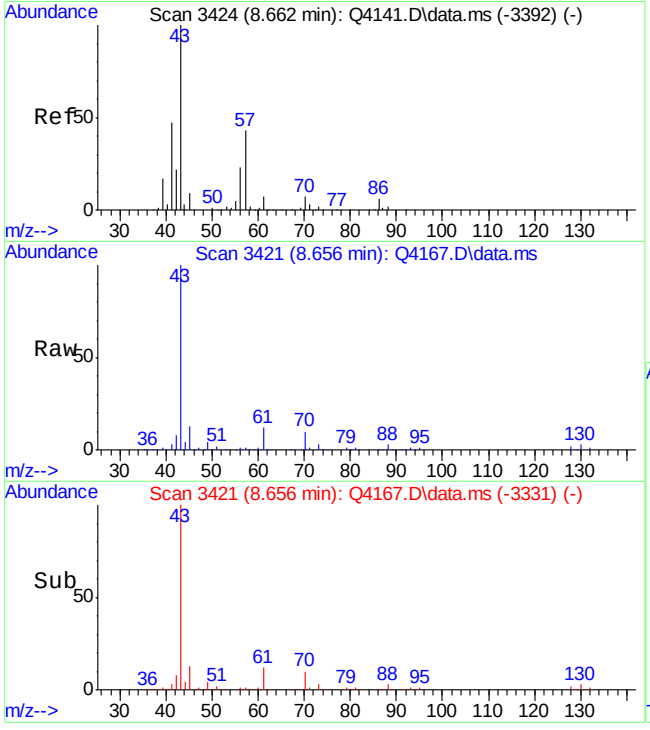



#26
VINYL ACETATE
Concen: 2.17 PPBV
RT: 7.769 min Scan# 2921
Delta R.T. -0.018 min
Lab File: Q4167.D
Acq: 2 Aug 2007 9:44 am

Tgt Ion: 43 Resp: 118850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 44 | 0.9 | 0.0 | 27.3 |
| 86 | 9.1 | 0.0 | 26.6 |

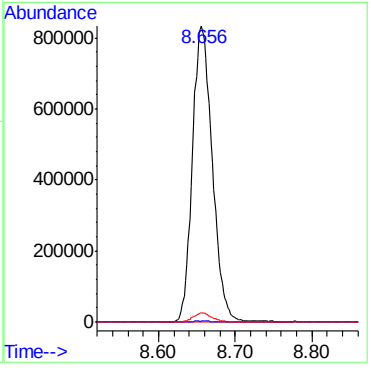



#30
ETHYL ACETATE
Concen: 16.57 PPBV
RT: 8.656 min Scan# 3421
Delta R.T. -0.005 min
Lab File: Q4167.D
Acq: 2 Aug 2007 9:44 am

Tgt Ion: 43 Resp: 1505163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 62 | 0.2 | 0.0 | 20.3 |
| 88 | 2.9 | 0.0 | 21.9 |







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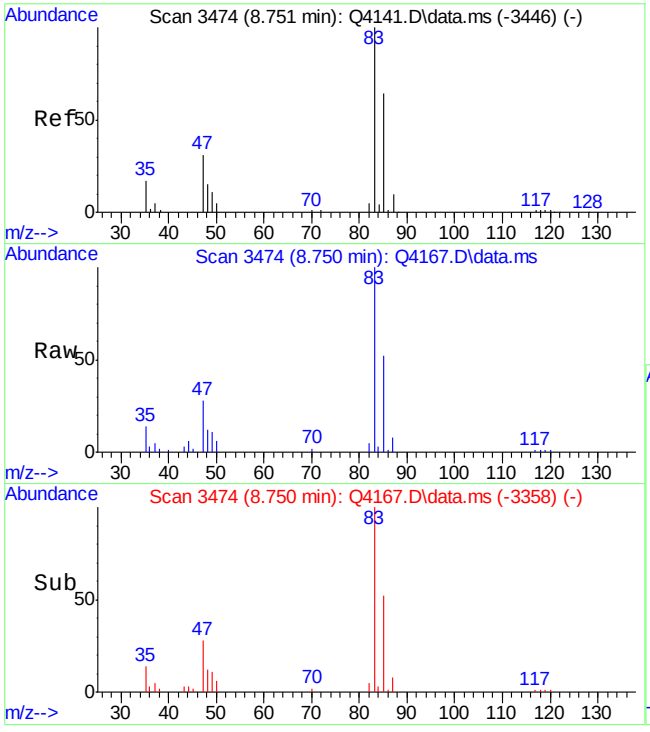
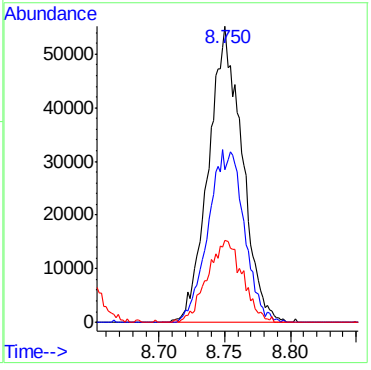
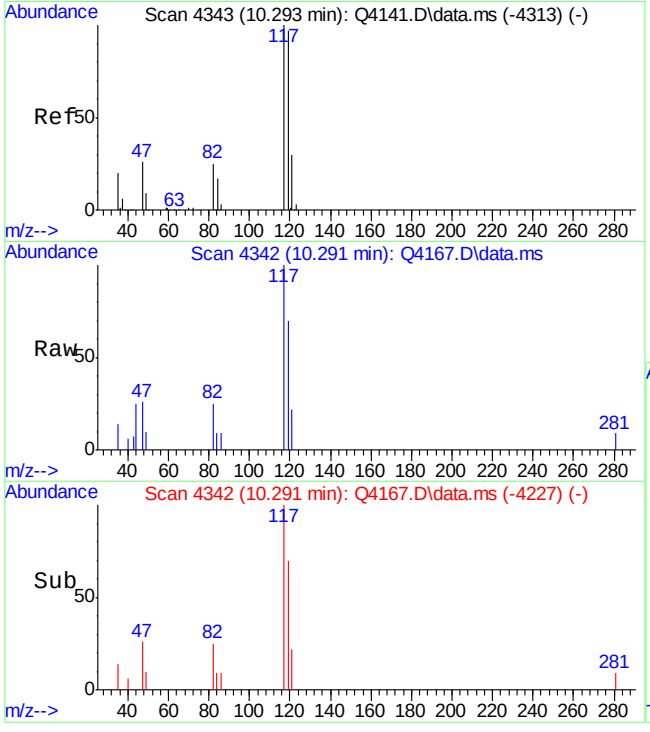



#31
CHLOROFORM
Concen: 1.08 PPBV
RT: 8.750 min Scan# 3474
Delta R.T. -0.000 min
Lab File: Q4167.D
Acq: 2 Aug 2007 9:44 am

Tgt Ion: 83 Resp: 97832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.6 | 44.6 | 84.6 |
| 47 | 29.2 | 10.5 | 50.5 |

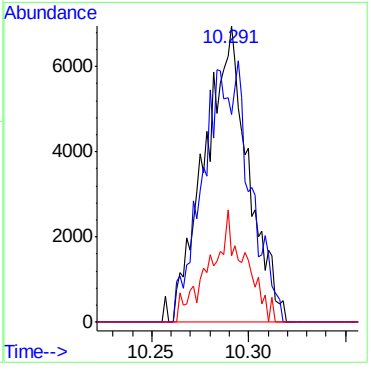


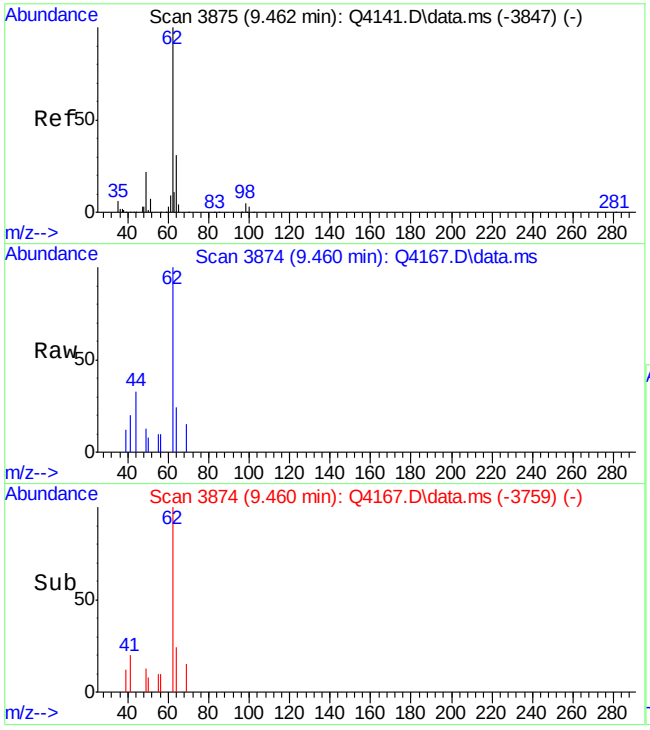




#33
CARBON TETRACHLORIDE
Concen: 0.10 PPBV
RT: 10.291 min Scan# 4342
Delta R.T. -0.002 min
Lab File: Q4167.D
Acq: 2 Aug 2007 9:44 am

Tgt Ion:117 Resp: 10922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.7 | 77.4 | 117.4 |
| 121 | 30.3 | 11.3 | 51.3 |

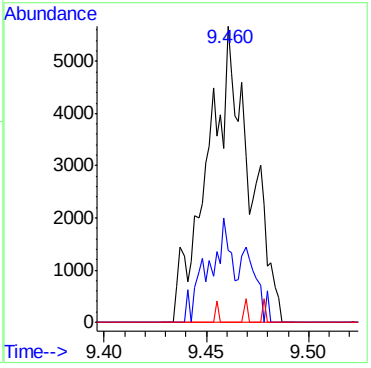


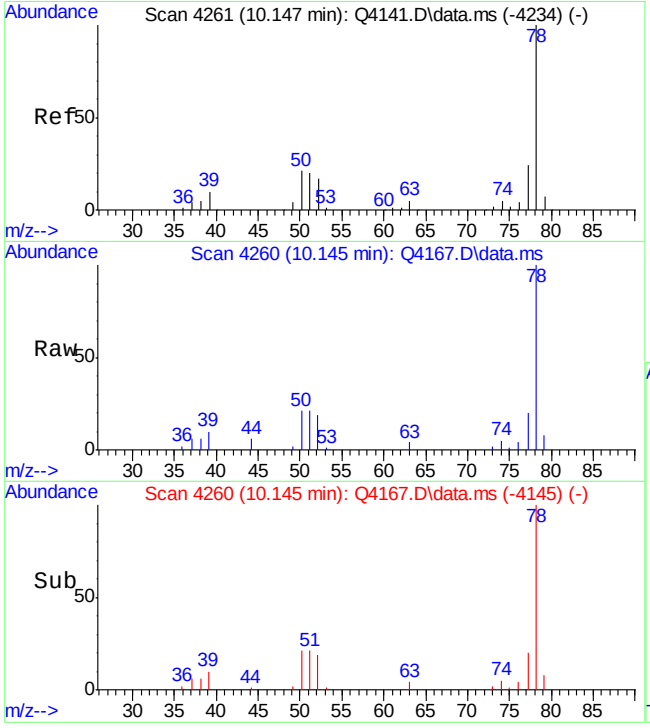



#34
1,2-DICHLOROETHANE
Concen: 0.15 PPBV
RT: 9.460 min Scan# 3874
Delta R.T. -0.002 min
Lab File: Q4167.D
Acq: 2 Aug 2007 9:44 am

Tgt Ion: 62 Resp: 8003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 29.6 | 11.8 | 51.8 |
| 98 | 0.6 | 0.0 | 24.9 |

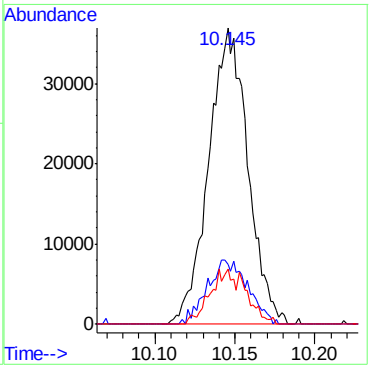



#36
BENZENE
Concen: 0.73 PPBV
RT: 10.145 min Scan# 4260
Delta R.T. -0.002 min
Lab File: Q4167.D
Acq: 2 Aug 2007 9:44 am

Tgt Ion: 78 Resp: 62823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.3 | 2.8 | 42.8 |
| 52 | 16.9 | 0.0 | 37.5 |







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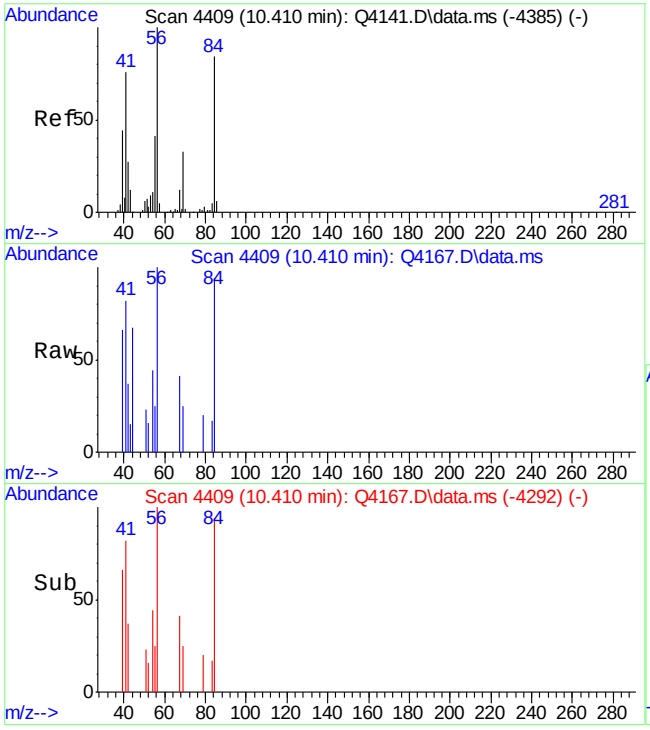
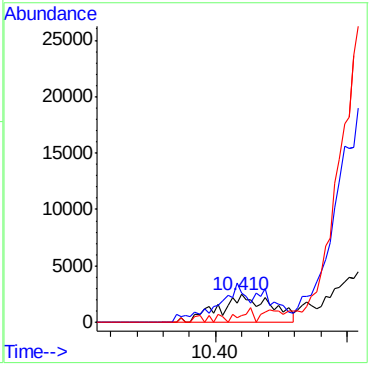
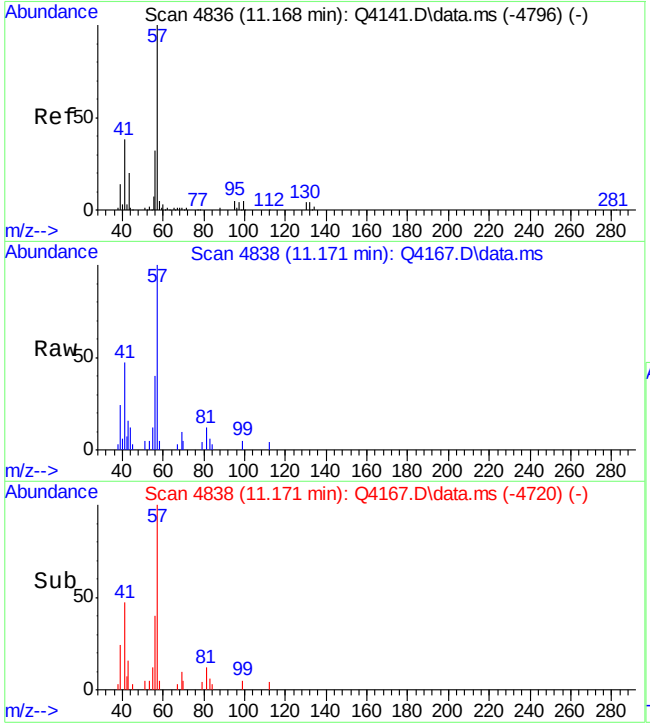



#37
CYCLOHEXANE
Concen: 0.36 PPBV
RT: 10.410 min Scan# 4409
Delta R.T. 0.001 min
Lab File: Q4167.D
Acq: 2 Aug 2007 9:44 am

Tgt Ion: 84 Resp: 3354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 131.3 | 105.2 | 145.2 |
| 69 | 0.0 | 19.5 | 59.5# |

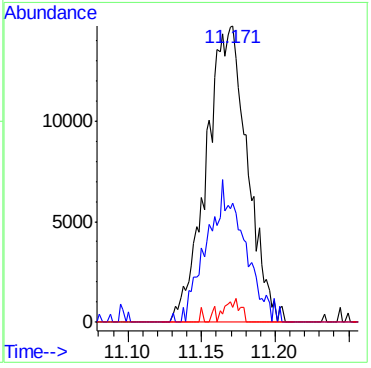



#41
2,2,4-TRIMETHYLPENTANE
Concen: 0.08 PPBV
RT: 11.171 min Scan# 4838
Delta R.T. 0.004 min
Lab File: Q4167.D
Acq: 2 Aug 2007 9:44 am

Tgt Ion: 57 Resp: 28635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 56 | 43.4 | 11.7 | 51.7 |
| 99 | 3.3 | 0.0 | 27.7 |

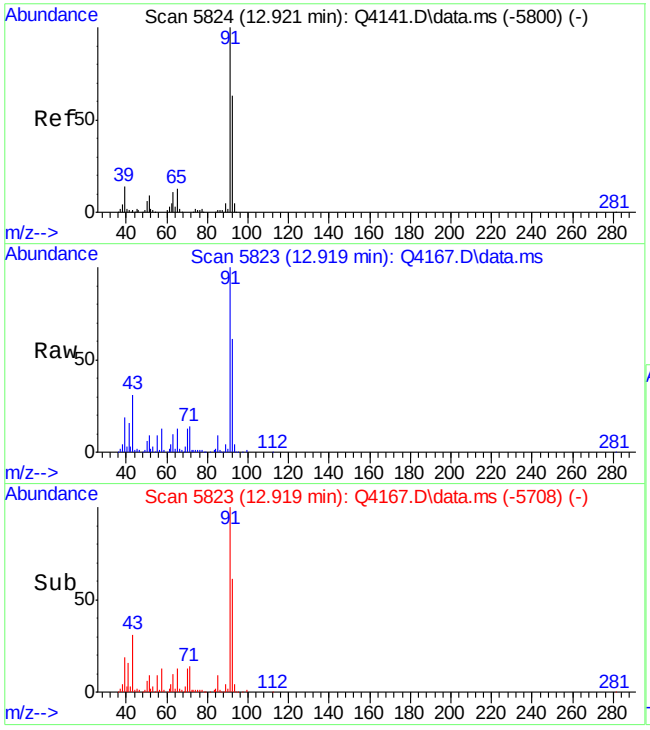








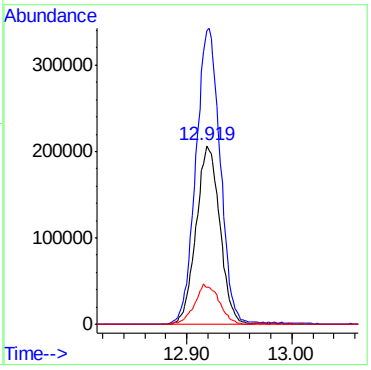

ACCUTEST Laboratories M66578

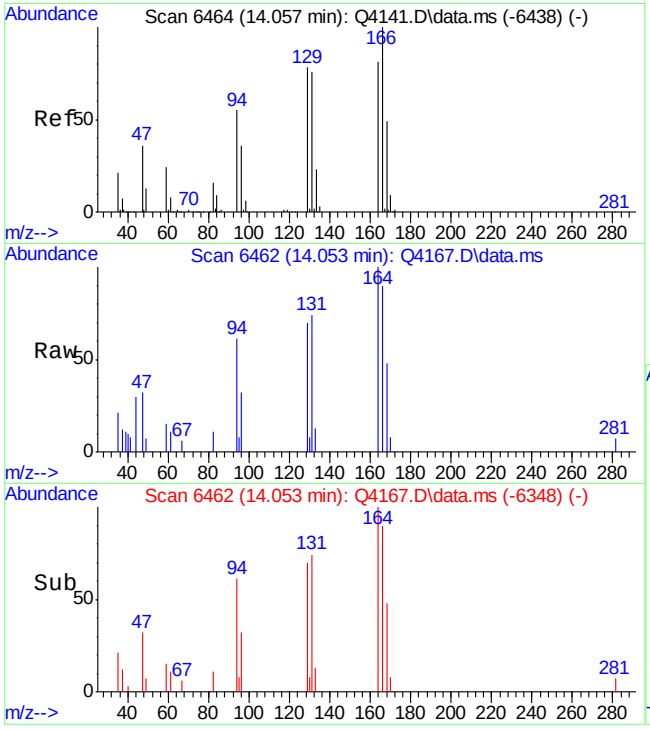



#46
TOLUENE
Concen: 6.93 PPBV
RT: 12.919 min Scan# 5823
Delta R.T. -0.002 min
Lab File: Q4167.D
Acq: 2 Aug 2007 9:44 am

Tgt Ion: 92 Resp: 324950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.0 | 146.4 | 186.4 |
| 65 | 23.2 | 2.5 | 42.5 |

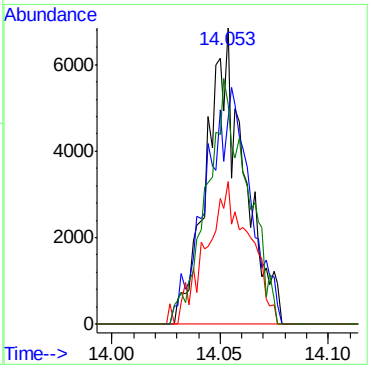


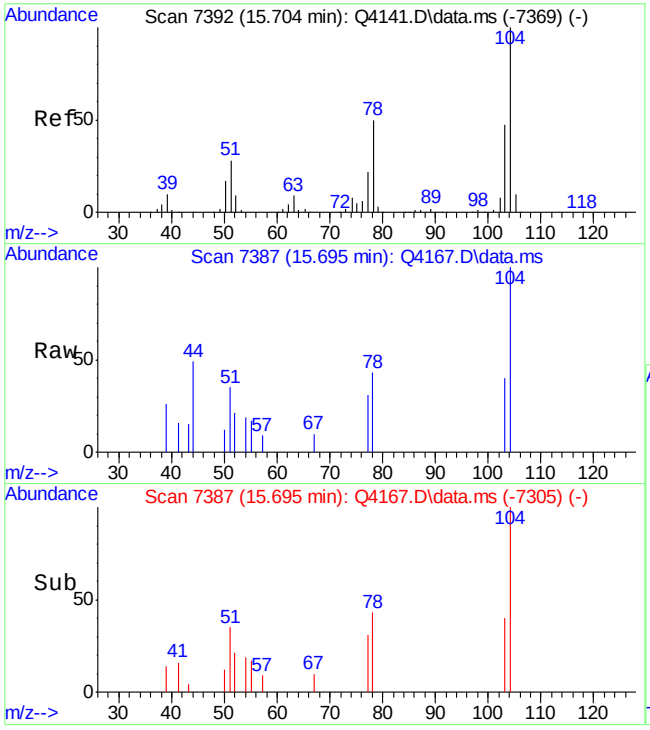




#51
TETRACHLOROETHYLENE
Concen: 0.17 PPBV
RT: 14.053 min Scan# 6462
Delta R.T. -0.004 min
Lab File: Q4167.D
Acq: 2 Aug 2007 9:44 am

Tgt Ion:164 Resp: 8199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 129 | 94.3 | 77.6 | 117.6 |
| 168 | 55.5 | 42.1 | 82.1 |
| 131 | 90.1 | 74.7 | 114.7 |

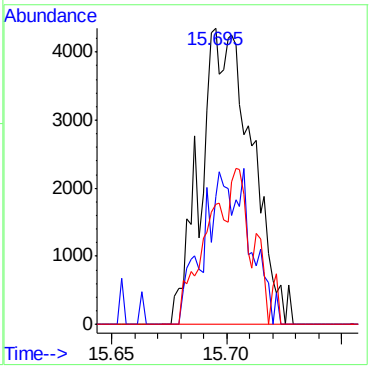


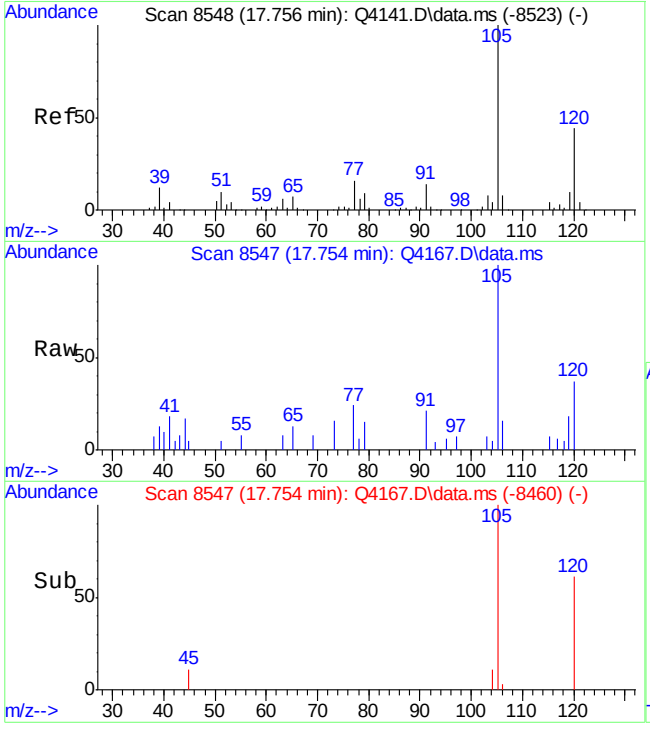



#58
STYRENE
Concen: 0.38 PPBV
RT: 15.695 min Scan# 7387
Delta R.T. -0.009 min
Lab File: Q4167.D
Acq: 2 Aug 2007 9:44 am

Tgt Ion:104 Resp: 6741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 46.7 | 31.0 | 71.0 |
| 103 | 46.7 | 26.6 | 66.6 |

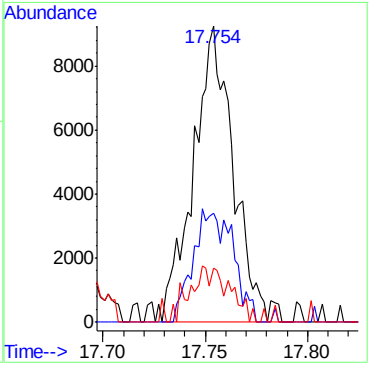


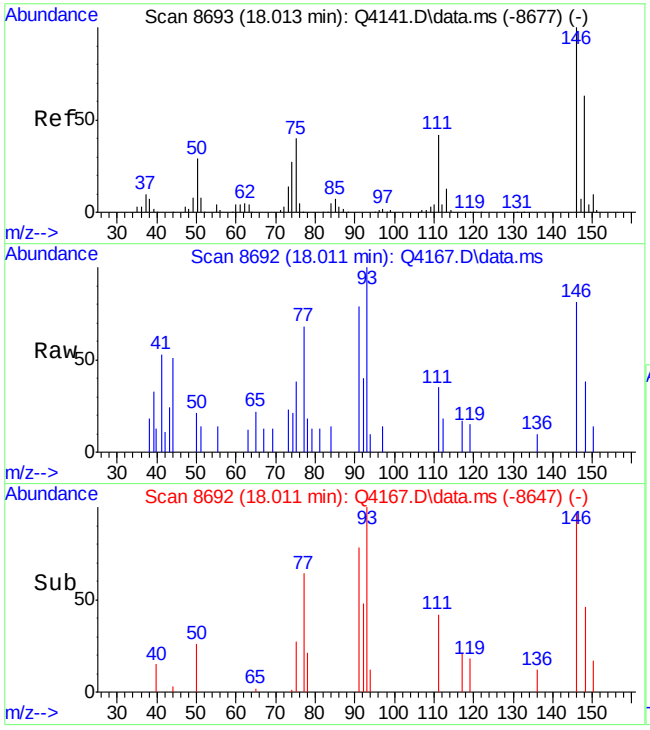




#67
1,2,4-TRIMETHYLBENZENE
Concen: 0.47 PPBV
RT: 17.754 min Scan# 8547
Delta R.T. -0.001 min
Lab File: Q4167.D
Acq: 2 Aug 2007 9:44 am

Tgt Ion:105 Resp: 12518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 38.1 | 21.7 | 61.7 |
| 119 | 18.2 | 0.0 | 30.5 |

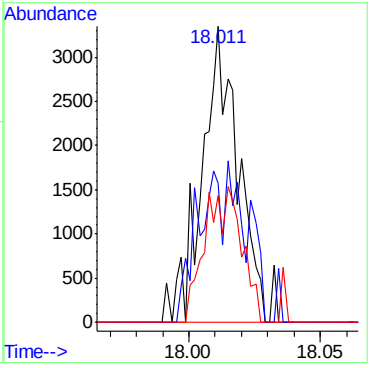





#70
p-DICHLOROBENZENE
Concen: 0.17 PPBV
RT: 18.011 min Scan# 8692
Delta R.T. -0.002 min
Lab File: Q4167.D
Acq: 2 Aug 2007 9:44 am

Tgt Ion:146 Resp: 3266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 66.9 | 44.2 | 84.2 |
| 111 | 45.5 | 22.9 | 62.9 |




6.1.1

6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4169.D
Acq On : 2 Aug 2007 11:08 am
Operator : danat
Sample : M66578-2 (m134)
Misc : MS14030, MSQ221,,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 03 14:35:59 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.628 | 128 | 274593 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.460 | 114 | 1245330 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.701 | 117 | 1148895 | 10.00 | PPBV | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.322 | 95 | 431526 | 5.30 | PPBV | 0.00 |

Spiked Amount 5.000 Range 57 - 139 Recovery = 106.00%

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 33) CARBON TETRACHLORIDE | 10.286 | 117 | 9917 | 0.09 | PPBV | 97 |
| 51) TETRACHLOROETHYLENE | 14.052 | 164 | 8681 | 0.19 | PPBV | 98 |

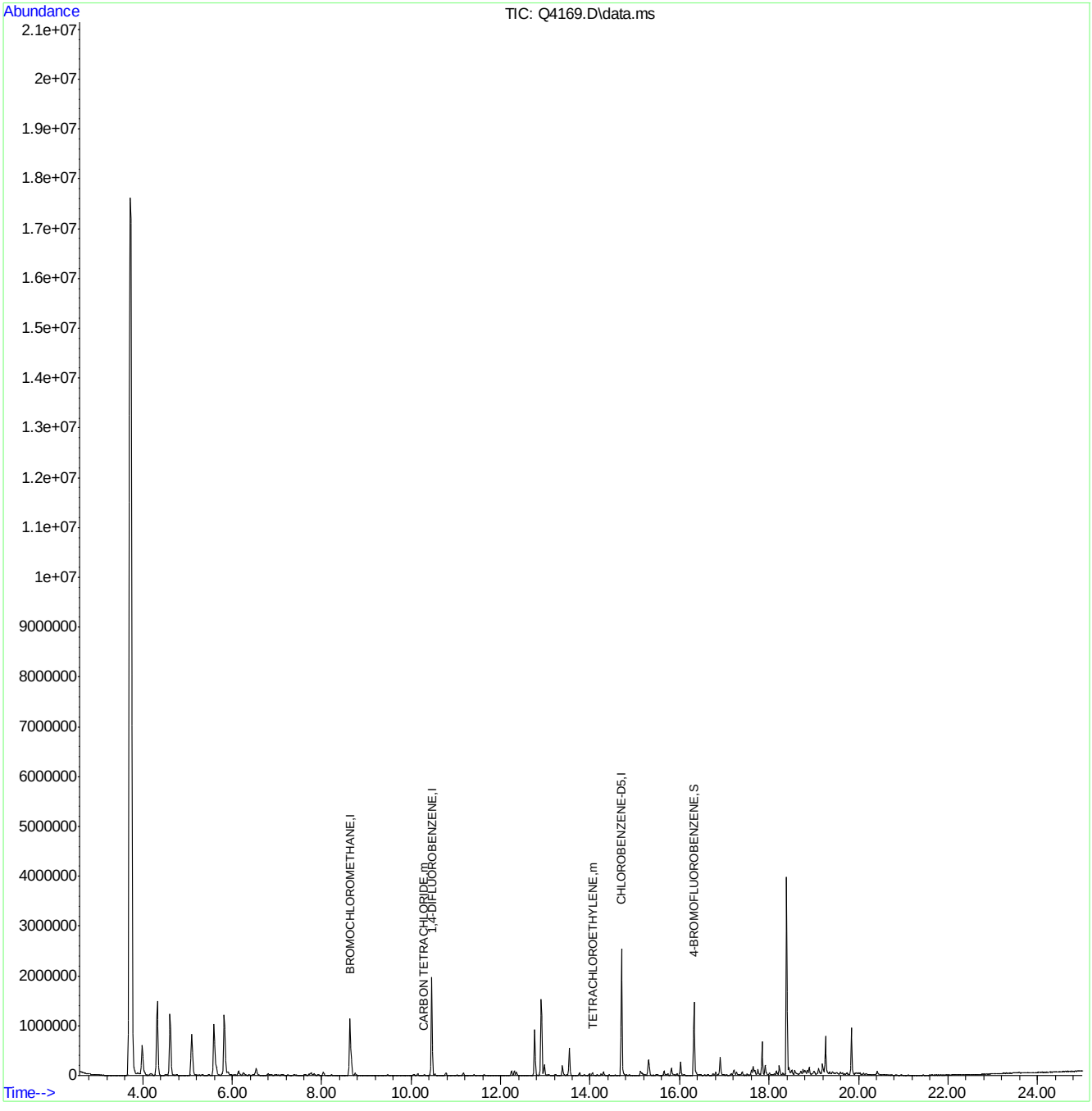
(#) = qualifier out of range (m) = manual integration (+) = signals summed

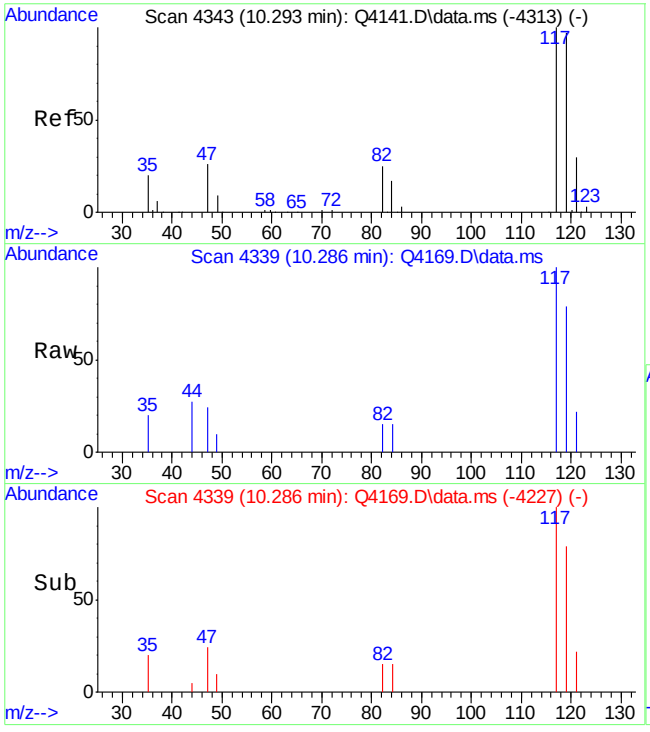
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4169.D
Acq On : 2 Aug 2007 11:08 am
Operator : danat
Sample : M66578-2 (m134)
Misc : MS14030, MSQ221,,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 03 14:35:59 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration



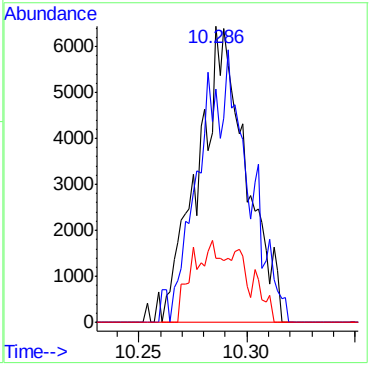


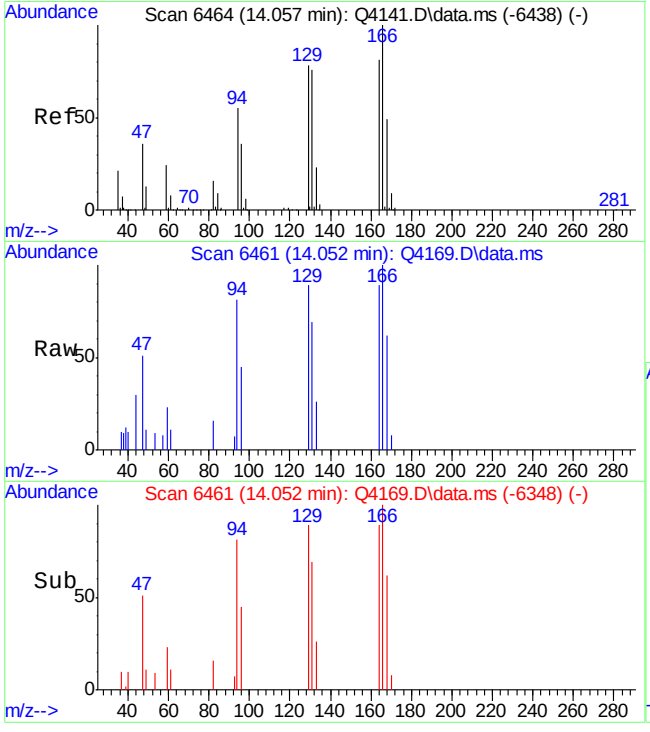



#33
CARBON TETRACHLORIDE
Concen: 0.09 PPBV
RT: 10.286 min Scan# 4339
Delta R.T. -0.007 min
Lab File: Q4169.D
Acq: 2 Aug 2007 11:08 am

Tgt Ion:117 Resp: 9917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.9 | 77.4 | 117.4 |
| 121 | 29.5 | 11.3 | 51.3 |

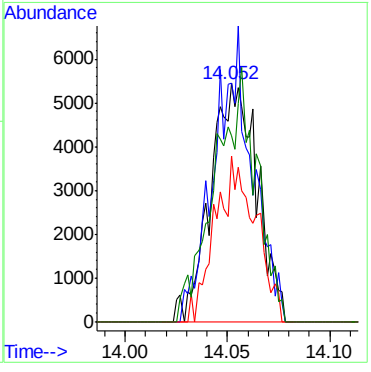



#51
TETRACHLOROETHYLENE
Concen: 0.19 PPBV
RT: 14.052 min Scan# 6461
Delta R.T. -0.005 min
Lab File: Q4169.D
Acq: 2 Aug 2007 11:08 am

Tgt Ion:164 Resp: 8681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 129 | 99.6 | 77.6 | 117.6 |
| 168 | 59.5 | 42.1 | 82.1 |
| 131 | 94.9 | 74.7 | 114.7 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4164.D
Acq On : 1 Aug 2007 12:47 pm
Operator : danat
Sample : MB (M127)
Misc : MS14034, MSQ221,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 01 13:46:06 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.633 | 128 | 262442 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.461 | 114 | 1125920 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.705 | 117 | 984999 | 10.00 | PPBV | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.323 | 95 | 302117 | 4.32 | PPBV | 0.00 |

Spiked Amount 5.000 Range 57 - 139 Recovery = 86.40%

| Target Compounds | Qvalue |
|---|---|

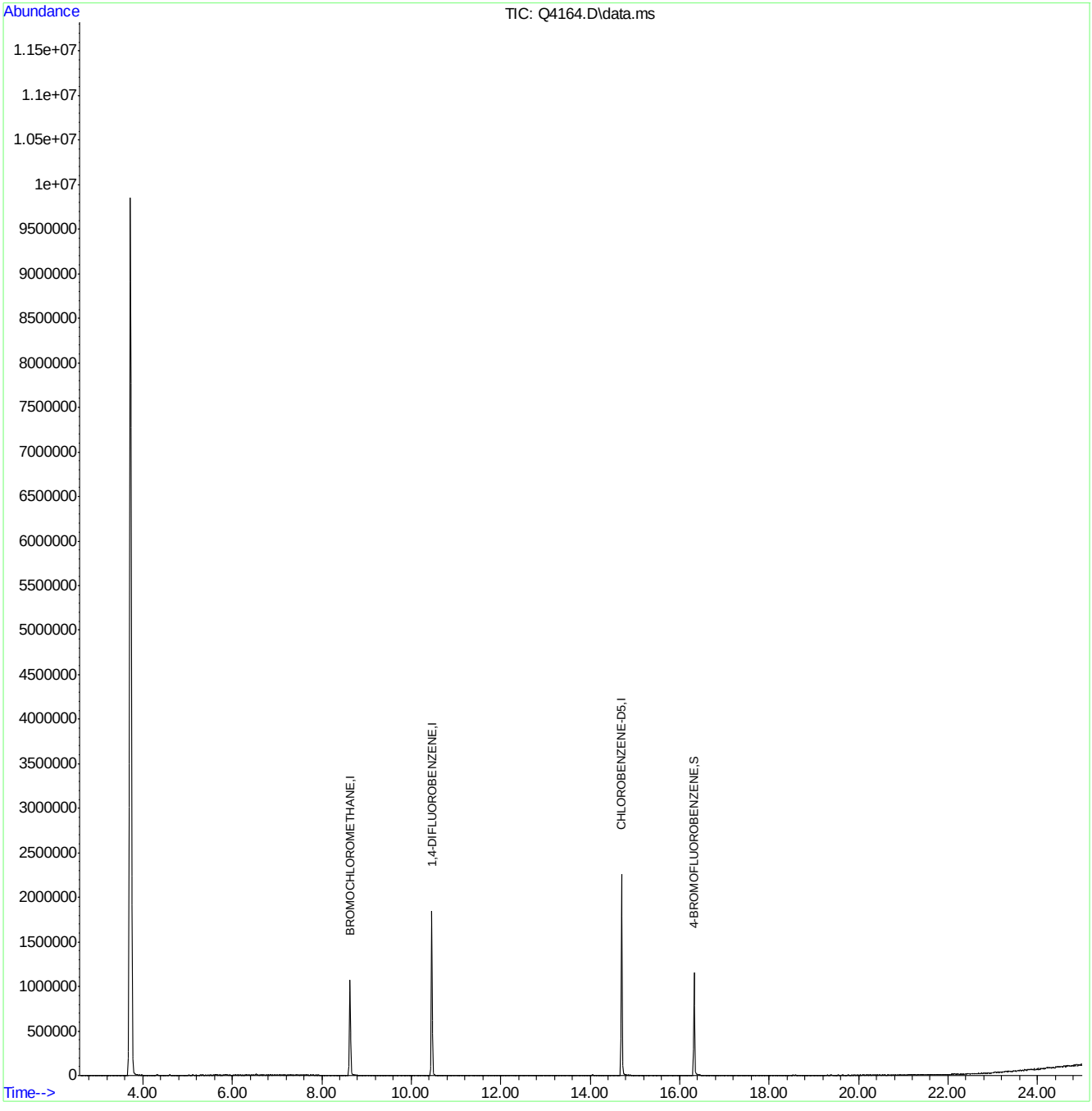
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4164.D
Acq On : 1 Aug 2007 12:47 pm
Operator : danat
Sample : MB (M127)
Misc : MS14034, MSQ221,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 01 13:46:06 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : J10870.D
Acq On : 5 Jul 2007 7:53 pm
Operator : danat
Sample : mb (M208)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 06 11:52:28 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 17:30:53 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.61 | 128 | 294344 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.42 | 114 | 1133134 | 10.00 | PPBV | -0.01 |
| 49) CHLOROBENZENE-D5 | 14.66 | 117 | 969402 | 10.00 | PPBV | -0.01 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.28 | 95 | 268497 | 4.51 | PPBV | -0.02 |

Spiked Amount 5.000 Range 51 - 142 Recovery = 90.20%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed



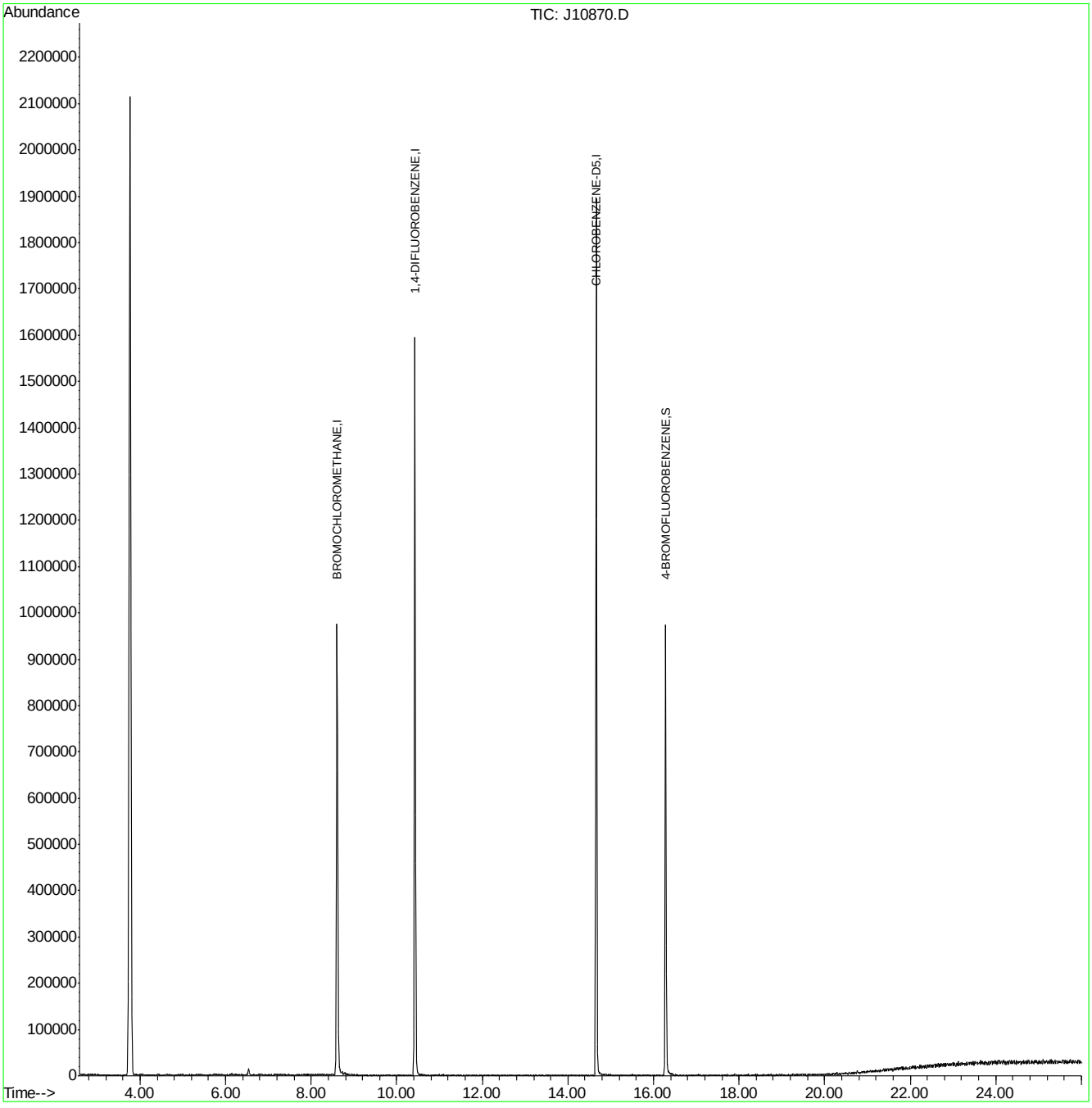
ACCUTEST Laboratories M66578

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : J10870.D
Acq On : 5 Jul 2007 7:53 pm
Operator : danat
Sample : mb (M208)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 06 11:52:28 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 17:30:53 2007
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3986.D
Acq On : 17 Jul 2007 10:09 am
Operator : danat
Sample : mb (M063)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 17 14:09:45 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:27:00 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.633 | 128 | 220566 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.460 | 114 | 986337 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.705 | 117 | 863843 | 10.00 | PPBV | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.325 | 95 | 289018 | 4.56 | PPBV | 0.00 |

Spiked Amount 5.000 Range 57 - 139 Recovery = 91.20%

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 12) ACETONE | 5.620 | 43 | 7736 | 0.42 | PPBV | 95 |
| 18) METHYLENE CHLORIDE | 6.539 | 84 | 2404 | 0.34 | PPBV # | 75 |

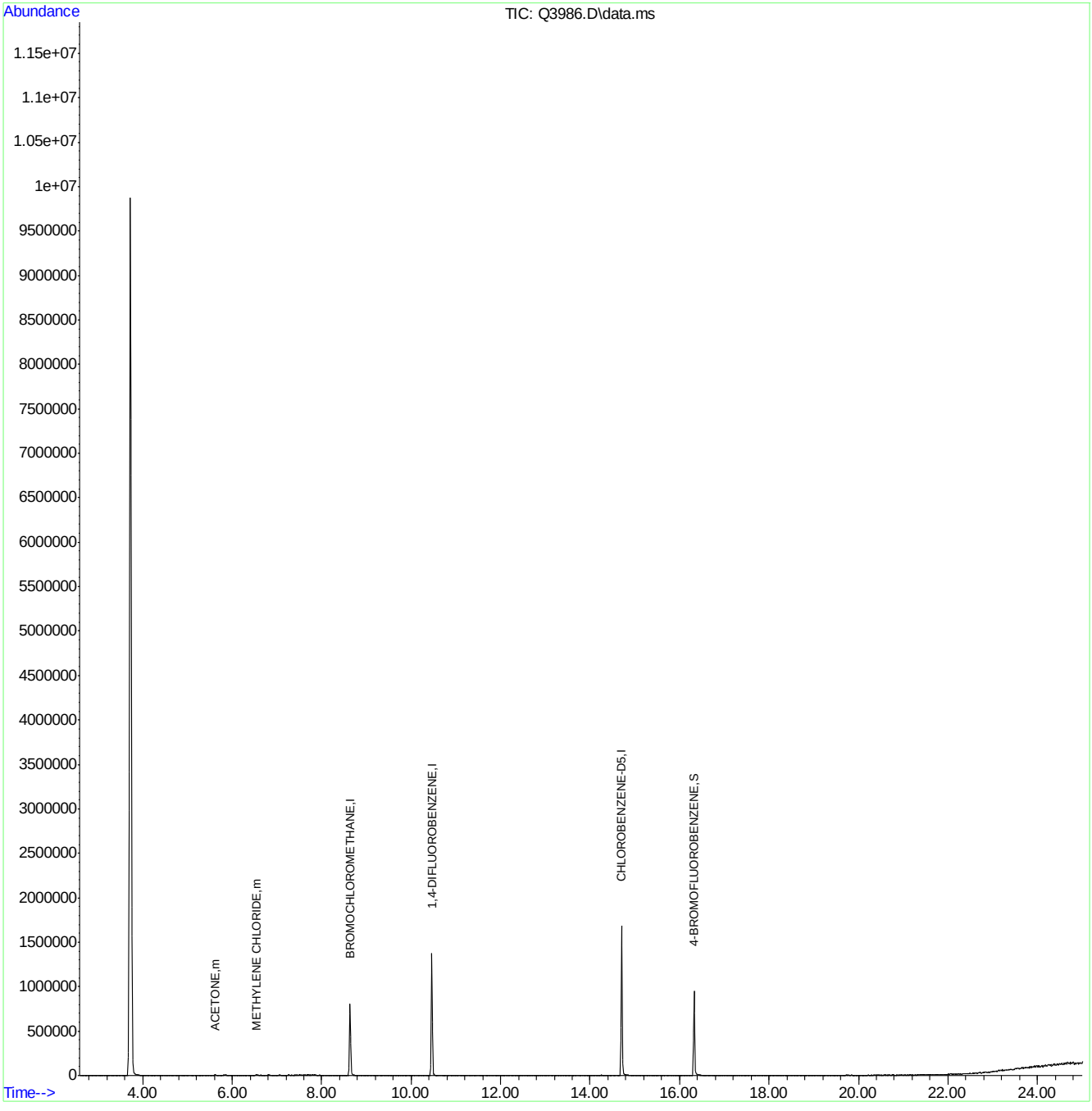
(#) = qualifier out of range (m) = manual integration (+) = signals summed

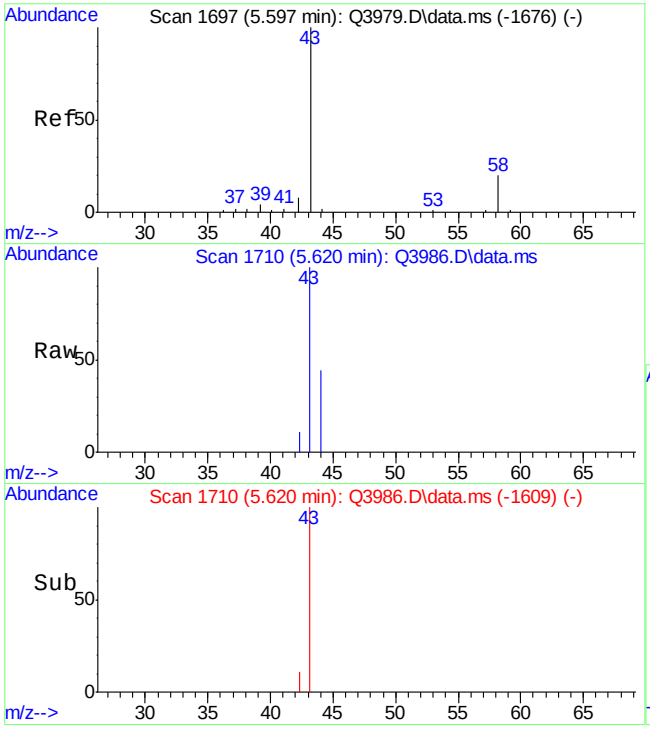
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3986.D
Acq On : 17 Jul 2007 10:09 am
Operator : danat
Sample : mb (M063)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 17 14:09:45 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:27:00 2007
Response via : Initial Calibration



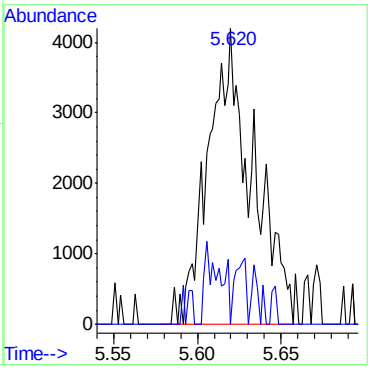


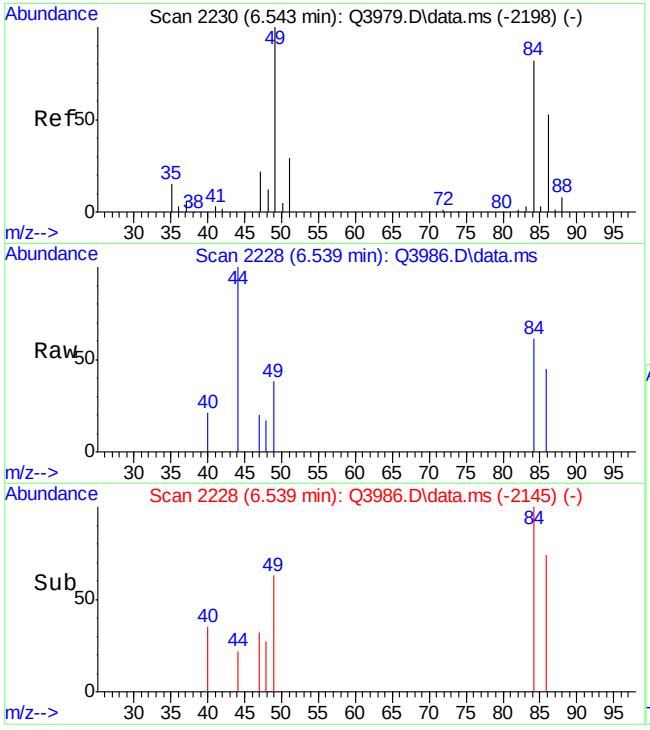



#12
ACETONE
Concen: 0.42 PPBV
RT: 5.620 min Scan# 1710
Delta R.T. 0.024 min
Lab File: Q3986.D
Acq: 17 Jul 2007 10:09 am

Tgt Ion: 43 Resp: 7736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 21.5 | 4.0 | 44.0 |

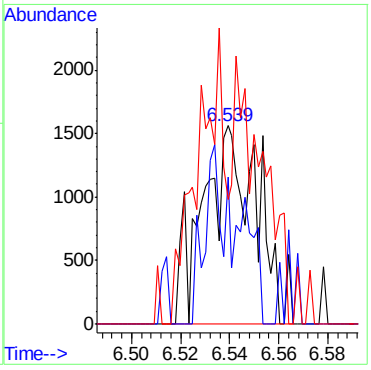



#18
METHYLENE CHLORIDE
Concen: 0.34 PPBV
RT: 6.539 min Scan# 2228
Delta R.T. -0.003 min
Lab File: Q3986.D
Acq: 17 Jul 2007 10:09 am

Tgt Ion: 84 Resp: 2404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 33.2 | 45.0 | 85.0# |
| 49 | 146.8 | 0.0 | 327.5 |



Manual Integrations APPROVED (compounds with "m" flag)
Philip Bassignani
08/03/07 15:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4163A.D
Acq On : 1 Aug 2007 11:54 am
Operator : danat
Sample : BS (M069)
Misc : MS14034, MSQ221,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 12:28:30 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.633 | 128 | 297723 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.458 | 114 | 1450955 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.703 | 117 | 1234001 | 10.00 | PPBV | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.323 | 95 | 491922 | 5.62 | PPBV | 0.00 |

Spiked Amount 5.000 Range 57 - 139 Recovery = 112.40%

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 2) DICHLORODIFLUOROMETHANE | 4.035 | 85 | 1689092 | 10.49 | PPBV | 99 |
| 3) PROPYLENE | 3.964 | 41 | 223277 | 9.93 | PPBV | 87 |
| 4) FREON 114 | 4.296 | 85 | 1542245 | 10.90 | PPBV | 97 |
| 5) CHLOROMETHANE | 4.195 | 50 | 361883 | 10.48 | PPBV | 99 |
| 6) VINYL CHLORIDE | 4.420 | 62 | 389933 | 10.38 | PPBV | 100 |
| 7) 1,3-BUTADIENE | 4.557 | 39 | 310463 | 10.31 | PPBV | 95 |
| 8) BROMOMETHANE | 4.834 | 94 | 469610 | 10.85 | PPBV | 100 |
| 9) CHLOROETHANE | 5.006 | 64 | 170164 | 11.28 | PPBV | 97 |
| 10) TRICHLOROFLUOROMETHANE | 5.785 | 101 | 1697495 | 10.20 | PPBV | 100 |
| 11) ISOPROPYL ALCOHOL | 5.820 | 45 | 440207 | 7.52 | PPBV | 85 |
| 12) ACETONE | 5.593 | 43 | 475971m | 7.05 | PPBV | |
| 13) PENTANE | 6.140 | 42 | 383484 | 9.94 | PPBV | 96 |
| 14) 1,1-DICHLOROETHYLENE | 6.426 | 96 | 416613 | 9.54 | PPBV | 88 |
| 15) CARBON DISULFIDE | 6.857 | 76 | 1302421 | 9.75 | PPBV | 96 |
| 16) ETHANOL | 5.095 | 45 | 74260 | 7.46 | PPBV | 96 |
| 17) BROMOETHENE | 5.368 | 106 | 402979 | 10.01 | PPBV | 99 |
| 18) METHYLENE CHLORIDE | 6.537 | 84 | 359143 | 9.42 | PPBV | 91 |
| 19) 3-CHLOROPROPENE | 6.660 | 39 | 306481 | 9.25 | PPBV | 97 |
| 20) FREON 113 | 6.795 | 151 | 853862 | 10.09 | PPBV | 96 |
| 21) TRANS-1,2-DICHLOROETHY... | 7.466 | 96 | 389627 | 9.75 | PPBV | 91 |
| 22) TERTIARY BUTYL ALCOHOL | 6.426 | 59 | 595734 | 7.67 | PPBV | 91 |
| 23) METHYL TERTIARY BUTYL ... | 7.709 | 73 | 683697 | 9.17 | PPBV | 99 |
| 24) TETRAHYDROFURAN | 9.137 | 42 | 228430 | 8.85 | PPBV | 97 |
| 25) HEXANE | 8.665 | 57 | 451411 | 10.70 | PPBV | 97 |
| 26) VINYL ACETATE | 7.783 | 43 | 418875 | 7.61 | PPBV | 90 |
| 27) 1,1-DICHLOROETHANE | 7.661 | 63 | 708797 | 9.94 | PPBV | 99 |
| 28) METHYL ETHYL KETONE | 8.028 | 43 | 485120 | 9.87 | PPBV | 97 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.468 | 96 | 277818 | 9.56 | PPBV | 90 |
| 30) ETHYL ACETATE | 8.664 | 43 | 933043 | 10.23 | PPBV | 100 |
| 31) CHLOROFORM | 8.751 | 83 | 953739 | 10.44 | PPBV | 98 |
| 32) 1,1,1-TRICHLOROETHANE | 9.707 | 97 | 975988 | 10.42 | PPBV | 99 |
| 33) CARBON TETRACHLORIDE | 10.289 | 117 | 1225899 | 10.68 | PPBV | 99 |
| 34) 1,2-DICHLOROETHANE | 9.460 | 62 | 537617 | 9.81 | PPBV | 99 |
| 36) BENZENE | 10.146 | 78 | 830292 | 10.05 | PPBV | 98 |
| 37) CYCLOHEXANE | 10.413 | 84 | 406007 | 10.45 | PPBV | 97 |
| 38) TRICHLOROETHYLENE | 11.141 | 95 | 560646 | 11.59 | PPBV | 99 |
| 39) 1,2-DICHLOROPROPANE | 10.921 | 63 | 306410 | 11.00 | PPBV | 98 |
| 40) BROMODICHLOROMETHANE | 11.104 | 83 | 864916 | 9.99 | PPBV | 98 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.164 | 57 | 1596967 | 11.16 | PPBV | 98 |
| 42) 1,4-DIOXANE | 11.131 | 88 | 148546 | 8.85 | PPBV | 92 |
| 43) HEPTANE | 11.404 | 43 | 539119 | 10.37 | PPBV | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4163A.D
Acq On : 1 Aug 2007 11:54 am
Operator : danat
Sample : BS (M069)
Misc : MS14034, MSQ221,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 12:28:30 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.975 | 43 | 634015 | 9.78 | PPBV | 99 |
| 45) cis-1,3-DICHLOROPROPENE | 11.961 | 75 | 431648 | 9.53 | PPBV | 95 |
| 46) TOLUENE | 12.923 | 92 | 554207 | 10.33 | PPBV | 96 |
| 47) trans-1,3-DICHLOROPROPENE | 12.462 | 75 | 257458 | 6.13 | PPBV | 97 |
| 48) 1,1,2-TRICHLOROETHANE | 12.643 | 83 | 336992 | 10.97 | PPBV | 99 |
| 50) 2-HEXANONE | 13.143 | 43 | 447489 | 8.84 | PPBV | 99 |
| 51) TETRACHLOROETHYLENE | 14.054 | 164 | 481201 | 9.84 | PPBV | 99 |
| 52) DIBROMOCHLOROMETHANE | 13.347 | 129 | 767727 | 10.38 | PPBV | 99 |
| 53) 1,2-DIBROMOETHANE | 13.599 | 107 | 504930 | 9.98 | PPBV | 100 |
| 54) CHLOROBENZENE | 14.747 | 112 | 774074 | 9.89 | PPBV | 99 |
| 55) ETHYLBENZENE | 15.129 | 91 | 1264736 | 10.82 | PPBV | 100 |
| 56) m,p-XYLENE | 15.324 | 106 | 986794 | 22.06 | PPBV | 96 |
| 57) o-XYLENE | 15.821 | 106 | 492334 | 10.61 | PPBV | 98 |
| 58) STYRENE | 15.704 | 104 | 495398 | 7.82 | PPBV | 99 |
| 59) NONANE | 16.022 | 43 | 772030 | 11.96 | PPBV | 98 |
| 60) BROMOFORM | 15.422 | 173 | 671644 | 10.39 | PPBV | 99 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.809 | 83 | 846120 | 11.78 | PPBV | 99 |
| 63) ISOPROPYLBENZENE | 16.465 | 105 | 1426079 | 11.34 | PPBV | 99 |
| 64) 2-CHLOROTOLUENE | 17.016 | 91 | 985437 | 13.66 | PPBV | 95 |
| 65) 4-ETHYLTOLUENE | 17.206 | 105 | 1077574 | 10.85 | PPBV | 99 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.291 | 105 | 1162087 | 12.61 | PPBV | 97 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.756 | 105 | 959590 | 11.02 | PPBV | 98 |
| 68) m-DICHLOROBENZENE | 17.937 | 146 | 476496 | 8.66 | PPBV | 98 |
| 69) BENZYL CHLORIDE | 17.914 | 91 | 377342 | 7.25 | PPBV | 99 |
| 70) p-DICHLOROBENZENE | 18.011 | 146 | 376394 | 6.91 | PPBV | 99 |
| 71) o-DICHLOROBENZENE | 18.400 | 146 | 442214 | 8.37 | PPBV | 100 |
| 72) HEXACHLOROBUTADIENE | 20.796 | 225 | 276040 | 8.33 | PPBV | 99 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.304 | 180 | 43973m | 2.78 | PPBV | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

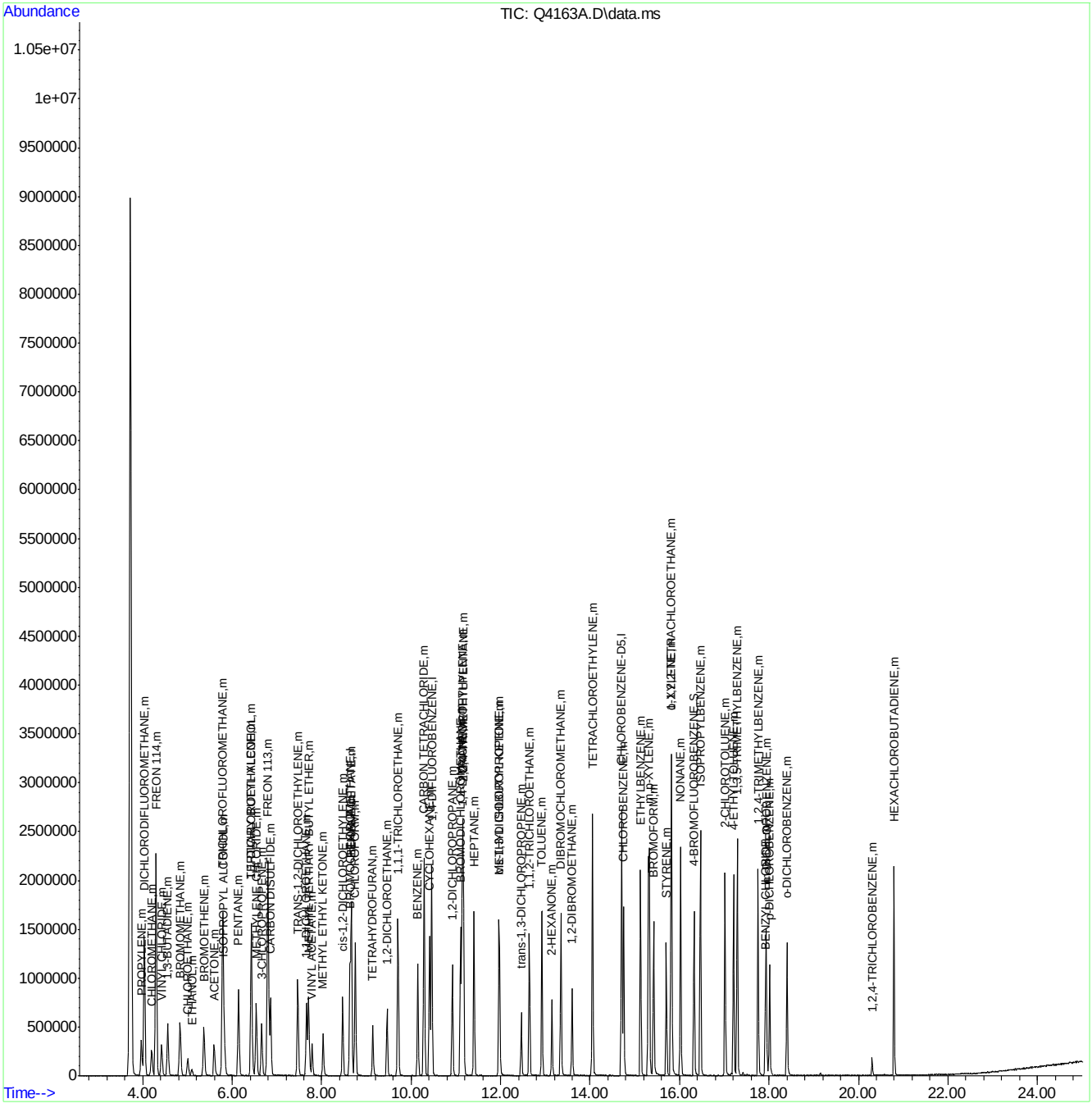
6.3.1

6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4163A.D
Acq On : 1 Aug 2007 11:54 am
Operator : danat
Sample : BS (M069)
Misc : MS14034, MSQ221,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 12:28:30 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration









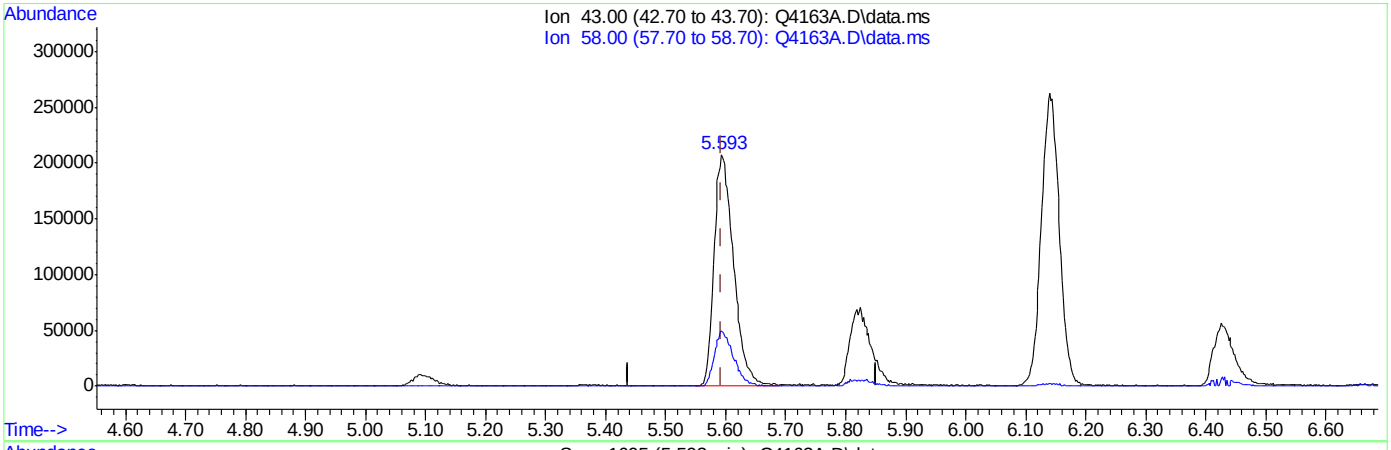

ACCUTEST Laboratories M66578

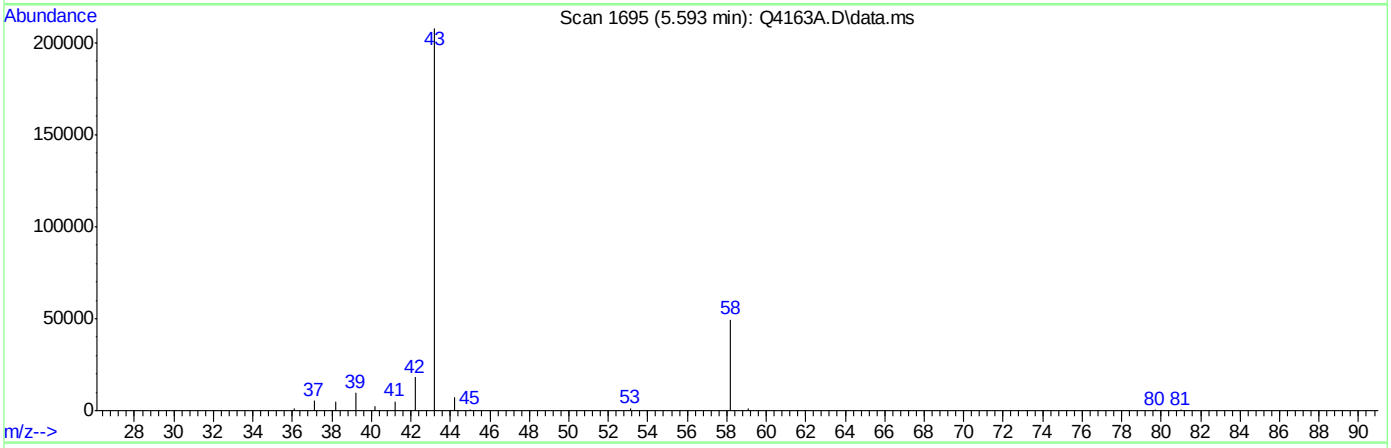
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : Q4163A.D
Acq On : 1 Aug 2007 11:54 am
Operator : danat
Sample : BS (M069)
Misc : MS14034, MSQ221,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 12:28:17 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration






TIC: Q4163A.D\data.ms

(12) ACETONE (m)

5.593min (-0.000) 6.99PPBV

response 471535

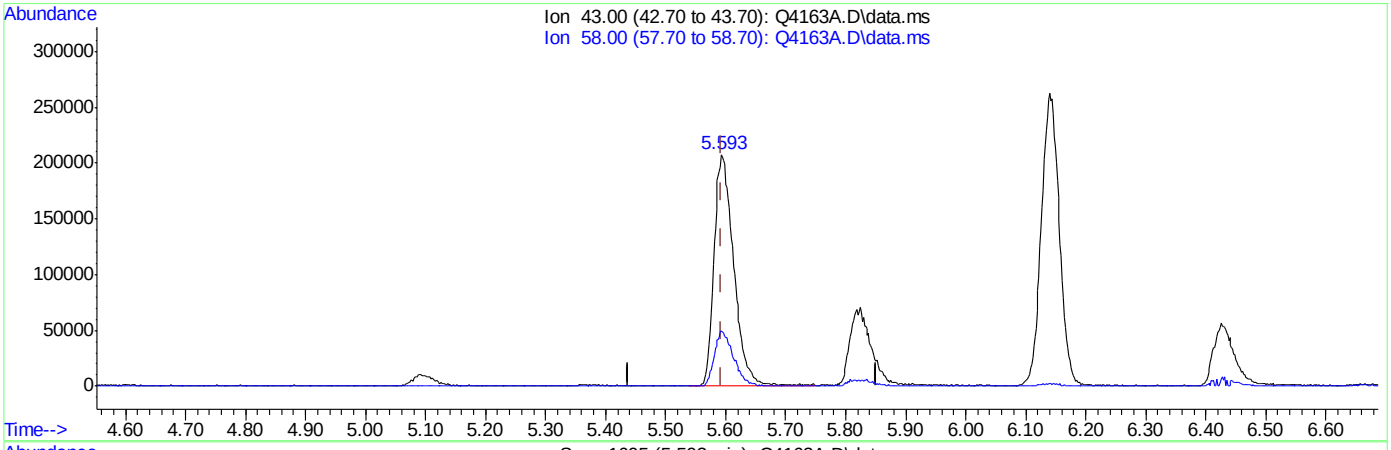
| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 58.00 | 21.90 | 23.40 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

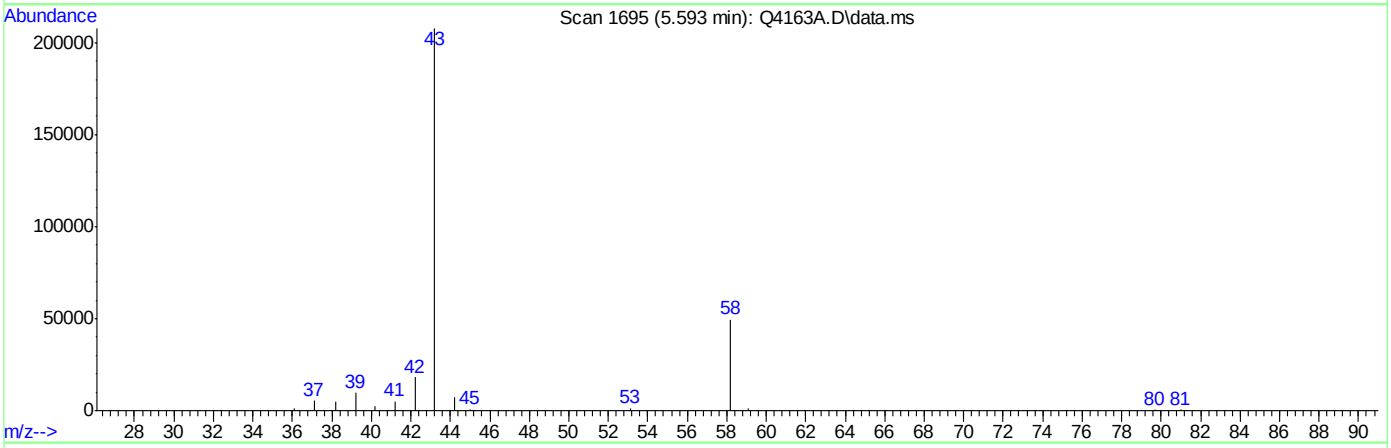
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : Q4163A.D
Acq On : 1 Aug 2007 11:54 am
Operator : danat
Sample : BS (M069)
Misc : MS14034, MSQ221,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 12:28:17 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration






TIC: Q4163A.D\data.ms

(12) ACETONE (m)

5.593min (-0.000) 7.05PPBV m

response 475971

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 58.00 | 21.90 | 23.18 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



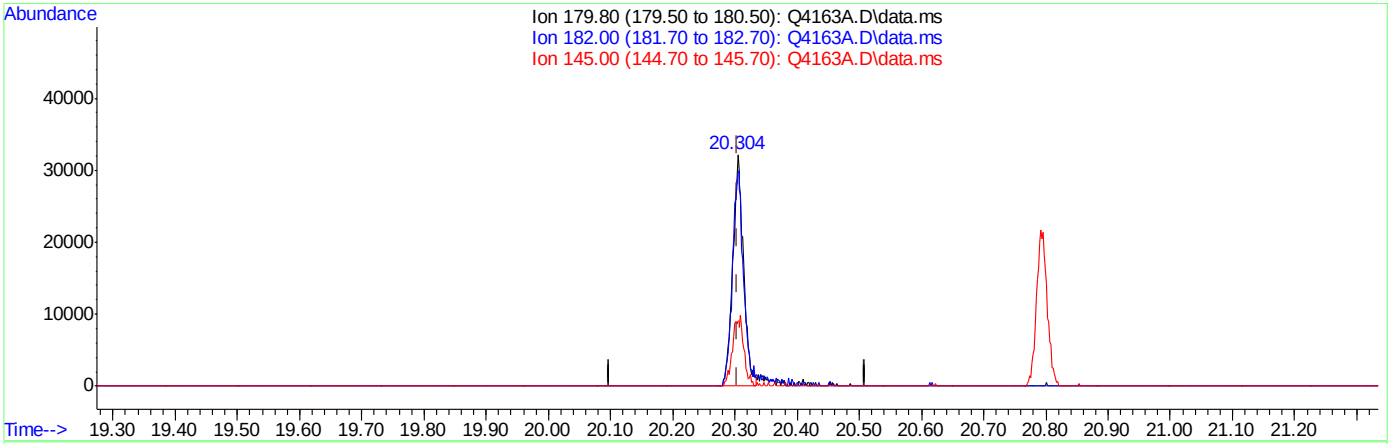
ACCUTEST Laboratories M66578

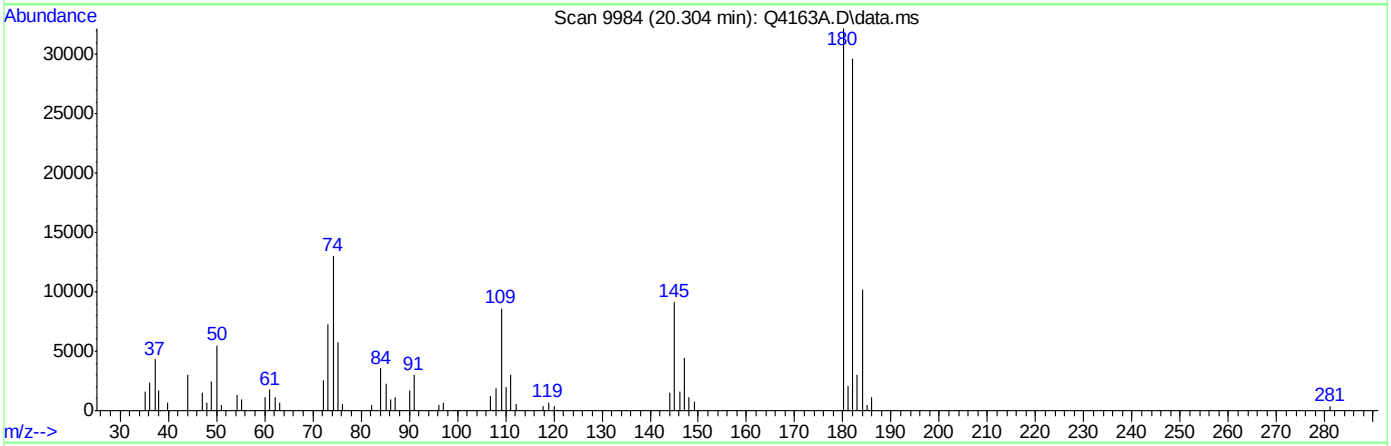
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\
Data File : Q4163A.D
Acq On    :  1 Aug 2007  11:54 am
Operator  : danat
Sample    : BS (M069)
Misc      : MS14034, MSQ221,,,,,1
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Aug 01 12:28:17 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title  : TO15  by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration
```






TIC: Q4163A.D\data.ms

(73) 1,2,4-TRICHLOROBENZENE (m)

20.304min (-0.000) 2.58PPBV

response 40796

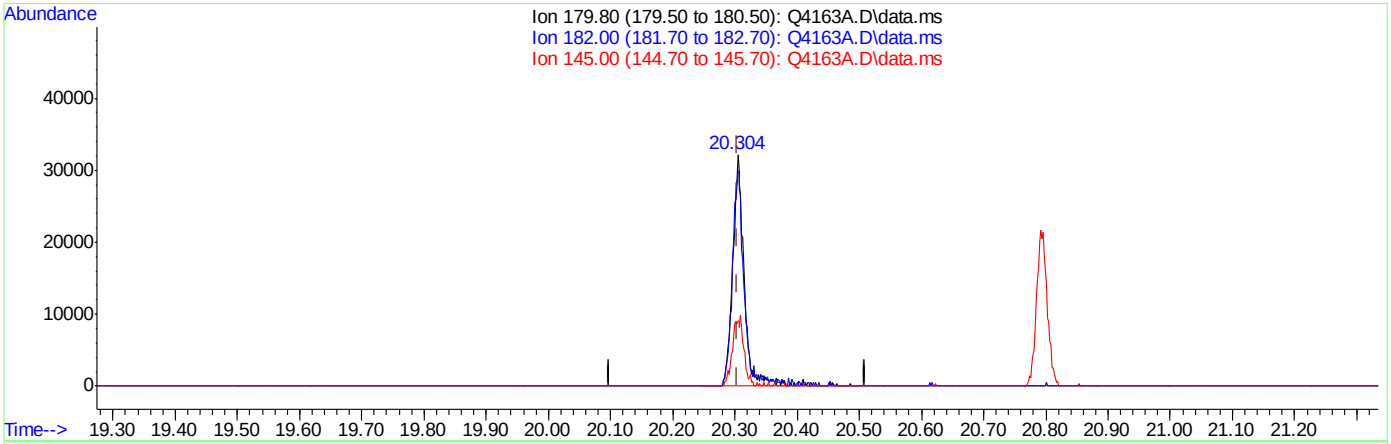
| Ion | Exp% | Act% |
|---|---|---|
| 179.80 | 100 | 100 |
| 182.00 | 95.70 | 100.91 |
| 145.00 | 30.20 | 31.72 |
| 0.00 | 0.00 | 0.00 |

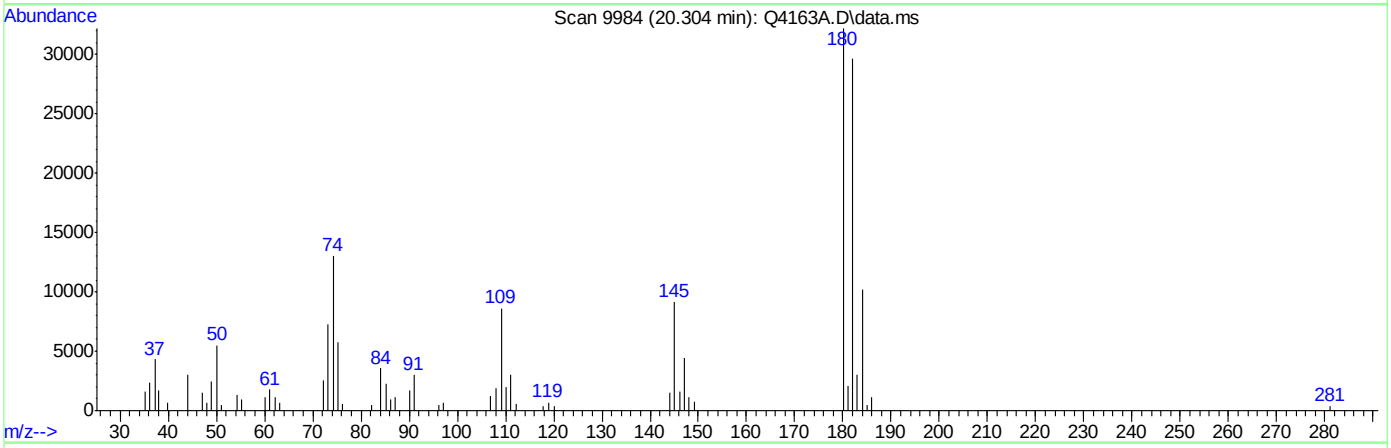
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\
Data File : Q4163A.D
Acq On    :  1 Aug 2007  11:54 am
Operator  : danat
Sample    : BS (M069)
Misc      : MS14034, MSQ221,,,,,1
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Aug 01 12:28:17 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title  : TO15  by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration
```






(73) 1,2,4-TRICHLOROBENZENE (m)

20.304min (-0.000) 2.78PPBV m

response 43973

| Ion | Exp% | Act% |
|---|---|---|
| 179.80 | 100 | 100 |
| 182.00 | 95.70 | 93.62 |
| 145.00 | 30.20 | 29.43 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations
APPROVED
(compounds with "m" flag)
Doug Yargeau
07/11/07 09:45

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : J10868b.D
Acq On : 5 Jul 2007 5:56 pm
Operator : danat
Sample : bs (M080)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 05 18:24:49 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 17:30:53 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.60 | 128 | 347038 | 10.00 | PPBV | -0.01 |
| 35) 1,4-DIFLUOROBENZENE | 10.43 | 114 | 1501760 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.67 | 117 | 1335133 | 10.00 | PPBV | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 61) 4-BROMOFLUOROBENZENE | 16.30 | 95 | 446244 | 5.44 | PPBV | 0.00 |
| Spiked Amount 5.000 | Range 51 - 142 | | Recovery = 108.80% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) DICHLORODIFLUOROMETHANE | 4.06 | 85 | 1061110 | 9.42 | PPBV | 100 |
| 3) PROPYLENE | 3.99 | 41 | 183358 | 10.60 | PPBV | 96 |
| 4) FREON 114 | 4.32 | 85 | 975926 | 9.85 | PPBV | 99 |
| 5) CHLOROMETHANE | 4.23 | 50 | 255655 | 9.93 | PPBV | 94 |
| 6) VINYL CHLORIDE | 4.44 | 62 | 301471 | 10.50 | PPBV | 99 |
| 7) 1,3-BUTADIENE | 4.57 | 39 | 232443 | 11.26 | PPBV | 98 |
| 8) BROMOMETHANE | 4.84 | 94 | 332070 | 10.01 | PPBV | 99 |
| 9) CHLOROETHANE | 5.01 | 64 | 140388 | 10.56 | PPBV | 99 |
| 10) TRICHLOROFLUOROMETHANE | 5.77 | 101 | 1134544 | 9.90 | PPBV | 100 |
| 11) ISOPROPYL ALCOHOL | 5.99 | 45 | 376740m | 10.92 | PPBV | |
| 12) ACETONE | 5.64 | 43 | 394061 | 9.71 | PPBV | 99 |
| 13) PENTANE | 6.12 | 42 | 281678 | 10.41 | PPBV | 99 |
| 14) 1,1-DICHLOROETHYLENE | 6.40 | 96 | 307939 | 10.16 | PPBV | 100 |
| 15) CARBON DISULFIDE | 6.82 | 76 | 926519 | 9.44 | PPBV | 99 |
| 16) ETHANOL | 5.26 | 45 | 67215 | 10.80 | PPBV # | 65 |
| 17) BROMOETHENE | 5.36 | 106 | 320378 | 10.94 | PPBV | 99 |
| 18) METHYLENE CHLORIDE | 6.52 | 84 | 301838 | 9.92 | PPBV | 99 |
| 19) 3-CHLOROPROPENE | 6.63 | 39 | 273020 | 10.74 | PPBV | 98 |
| 20) FREON 113 | 6.76 | 151 | 667835 | 9.23 | PPBV | 99 |
| 21) TRANS-1,2-DICHLOROETHYLENE | 7.43 | 96 | 313361 | 10.47 | PPBV | 99 |
| 22) TERTIARY BUTYL ALCOHOL | 6.57 | 59 | 462173 | 11.77 | PPBV | 93 |
| 23) METHYL TERTIARY BUTYL ETHE | 7.71 | 73 | 685448 | 11.76 | PPBV | 99 |
| 24) TETRAHYDROFURAN | 9.16 | 42 | 218377 | 11.59 | PPBV | 98 |
| 25) HEXANE | 8.61 | 57 | 365581 | 9.63 | PPBV | 97 |
| 26) VINYL ACETATE | 7.78 | 43 | 440550 | 11.01 | PPBV | 97 |
| 27) 1,1-DICHLOROETHANE | 7.63 | 63 | 545669 | 10.33 | PPBV | 100 |
| 28) METHYL ETHYL KETONE | 8.07 | 43 | 425680 | 10.63 | PPBV | 94 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.44 | 96 | 301089 | 10.37 | PPBV | 99 |
| 30) ETHYL ACETATE | 8.67 | 43 | 462107 | 10.49 | PPBV | 100 |
| 31) CHLOROFORM | 8.72 | 83 | 772083 | 10.29 | PPBV | 99 |
| 32) 1,1,1-TRICHLOROETHANE | 9.66 | 97 | 843732 | 10.35 | PPBV | 99 |
| 33) CARBON TETRACHLORIDE | 10.24 | 117 | 1036248 | 10.31 | PPBV | 99 |
| 34) 1,2-DICHLOROETHANE | 9.43 | 62 | 456550 | 11.14 | PPBV | 99 |
| 36) BENZENE | 10.11 | 78 | 802906 | 11.34 | PPBV | 100 |
| 37) CYCLOHEXANE | 10.35 | 84 | 361468 | 10.80 | PPBV | 98 |
| 38) TRICHLOROETHYLENE | 11.10 | 95 | 428230 | 11.34 | PPBV | 99 |
| 39) 1,2-DICHLOROPROPANE | 10.89 | 63 | 271622 | 11.36 | PPBV | 99 |
| 40) BROMODICHLOROMETHANE | 11.08 | 83 | 736999 | 10.65 | PPBV | 98 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.10 | 57 | 1295156 | 9.40 | PPBV | 99 |
| 42) 1,4-DIOXANE | 11.17 | 88 | 136276 | 9.35 | PPBV | 92 |
| 43) HEPTANE | 11.34 | 43 | 409530 | 10.88 | PPBV | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : J10868b.D
Acq On : 5 Jul 2007 5:56 pm
Operator : danat
Sample : bs (M080)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 05 18:24:49 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 17:30:53 2007
Response via : Initial Calibration

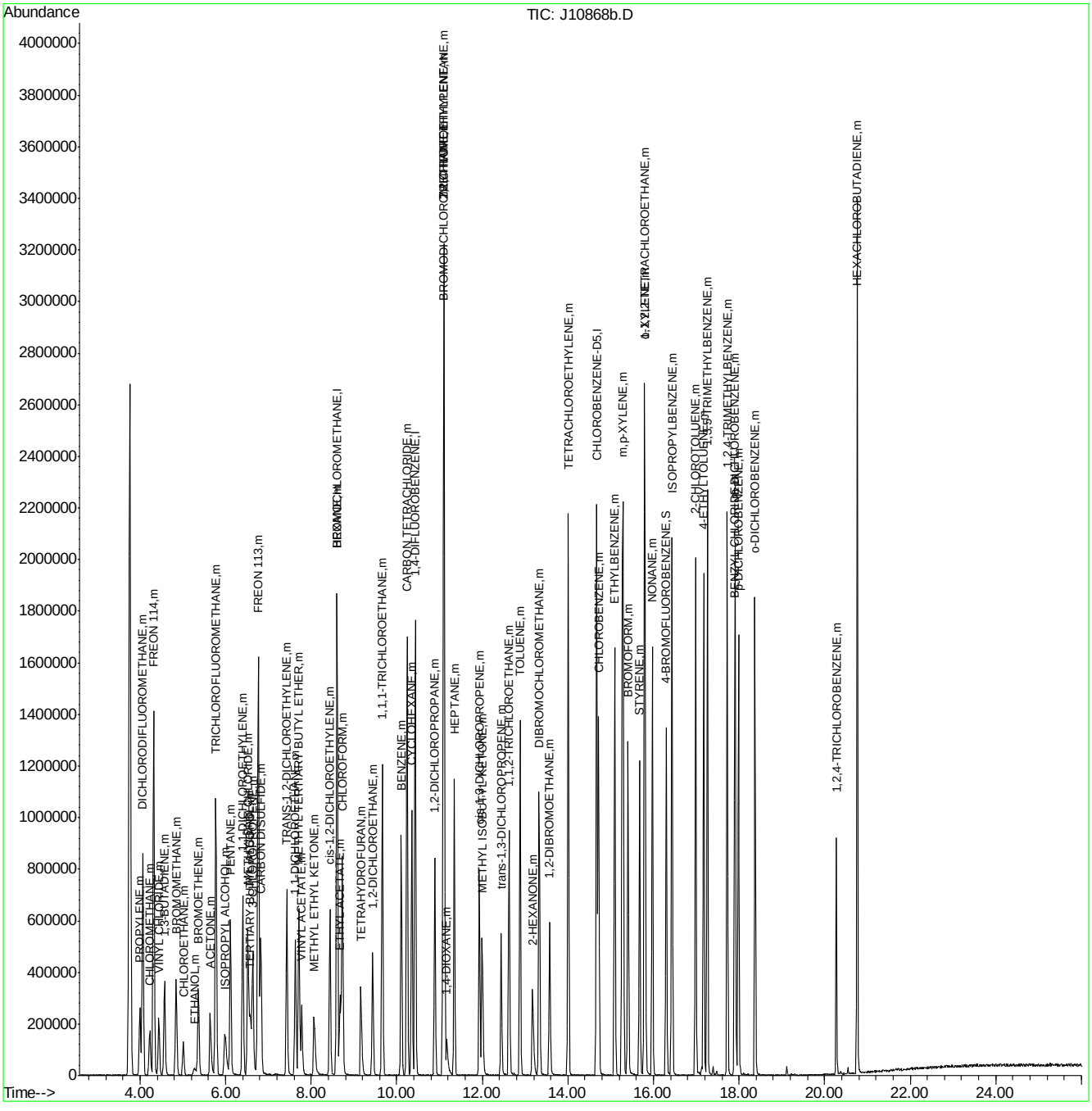
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.99 | 43 | 470043 | 10.33 | PPBV | 98 |
| 45) cis-1,3-DICHLOROPROPENE | 11.93 | 75 | 407474 | 10.95 | PPBV | 98 |
| 46) TOLUENE | 12.88 | 92 | 578281 | 11.03 | PPBV | 99 |
| 47) trans-1,3-DICHLOROPROPENE | 12.44 | 75 | 315716 | 9.17 | PPBV | 99 |
| 48) 1,1,2-TRICHLOROETHANE | 12.62 | 83 | 292867 | 11.81 | PPBV | 99 |
| 50) 2-HEXANONE | 13.17 | 43 | 357292 | 10.27 | PPBV | 98 |
| 51) TETRACHLOROETHYLENE | 14.01 | 164 | 490819 | 11.51 | PPBV | 99 |
| 52) DIBROMOCHLOROMETHANE | 13.33 | 129 | 721652 | 11.17 | PPBV | 100 |
| 53) 1,2-DIBROMOETHANE | 13.57 | 107 | 497929 | 11.22 | PPBV | 100 |
| 54) CHLOROBENZENE | 14.72 | 112 | 799062 | 10.99 | PPBV | 99 |
| 55) ETHYLBENZENE | 15.09 | 91 | 1274341 | 11.17 | PPBV | 100 |
| 56) m,p-XYLENE | 15.28 | 106 | 1066459 | 22.74 | PPBV | 91 |
| 57) o-XYLENE | 15.79 | 106 | 537195 | 11.55 | PPBV | 100 |
| 58) STYRENE | 15.68 | 104 | 641503 | 10.45 | PPBV | 99 |
| 59) NONANE | 15.97 | 43 | 589203 | 11.86 | PPBV | 99 |
| 60) BROMOFORM | 15.41 | 173 | 710773 | 11.64 | PPBV | 99 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.80 | 83 | 717790 | 11.56 | PPBV | 100 |
| 63) ISOPROPYLBENZENE | 16.43 | 105 | 1535173 | 11.66 | PPBV | 99 |
| 64) 2-CHLOROTOLUENE | 16.98 | 91 | 1065316 | 11.72 | PPBV | 99 |
| 65) 4-ETHYLTOLUENE | 17.17 | 105 | 1222135 | 10.70 | PPBV | 99 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.26 | 105 | 1242727 | 11.61 | PPBV | 100 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.72 | 105 | 1125219 | 11.80 | PPBV | 99 |
| 68) m-DICHLOROBENZENE | 17.91 | 146 | 760499 | 11.23 | PPBV | 99 |
| 69) BENZYL CHLORIDE | 17.89 | 91 | 525729 | 9.80 | PPBV | 100 |
| 70) p-DICHLOROBENZENE | 17.98 | 146 | 679517 | 10.63 | PPBV | 99 |
| 71) o-DICHLOROBENZENE | 18.37 | 146 | 702934 | 12.32 | PPBV | 100 |
| 72) HEXACHLOROBUTADIENE | 20.76 | 225 | 565416 | 15.84 | PPBV | 99 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.27 | 180 | 241387 | 11.45 | PPBV | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : J10868b.D
Acq On : 5 Jul 2007 5:56 pm
Operator : danat
Sample : bs (M080)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 05 18:24:49 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 17:30:53 2007
Response via : Initial Calibration










ACCUTEST Laboratories M66578

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3984b.D
Acq On : 17 Jul 2007 8:45 am
Operator : danat
Sample : bs (M209)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 14:07:21 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:27:00 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.633 | 128 | 198360 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.463 | 114 | 902151 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.707 | 117 | 781705 | 10.00 | PPBV | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.325 | 95 | 309690 | 5.39 | PPBV | 0.00 |

Spiked Amount 5.000 Range 57 - 139 Recovery = 107.80%

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 2) DICHLORODIFLUOROMETHANE | 4.037 | 85 | 726946 | 10.84 | PPBV | 99 |
| 3) PROPYLENE | 3.966 | 41 | 110064 | 10.51 | PPBV | 93 |
| 4) FREON 114 | 4.296 | 85 | 667194 | 10.74 | PPBV | 99 |
| 5) CHLOROMETHANE | 4.203 | 50 | 152498 | 10.60 | PPBV | 94 |
| 6) VINYL CHLORIDE | 4.420 | 62 | 179540 | 10.62 | PPBV | 98 |
| 7) 1,3-BUTADIENE | 4.560 | 39 | 147875 | 10.72 | PPBV | 96 |
| 8) BROMOMETHANE | 4.834 | 94 | 207354 | 10.86 | PPBV | 98 |
| 9) CHLOROETHANE | 5.009 | 64 | 76397 | 11.41 | PPBV | 99 |
| 10) TRICHLOROFLUOROMETHANE | 5.788 | 101 | 751175 | 11.42 | PPBV | 100 |
| 11) ISOPROPYL ALCOHOL | 5.826 | 45 | 241350 | 9.68 | PPBV | 93 |
| 12) ACETONE | 5.597 | 43 | 216102 | 8.20 | PPBV | 99 |
| 13) PENTANE | 6.143 | 42 | 165867 | 11.51 | PPBV | 99 |
| 14) 1,1-DICHLOROETHYLENE | 6.427 | 96 | 193333 | 10.45 | PPBV | 93 |
| 15) CARBON DISULFIDE | 6.859 | 76 | 540832 | 11.62 | PPBV | 98 |
| 16) ETHANOL | 5.094 | 45 | 39797 | 8.10 | PPBV | 95 |
| 17) BROMOETHENE | 5.370 | 106 | 204817 | 10.74 | PPBV | 99 |
| 18) METHYLENE CHLORIDE | 6.541 | 84 | 164926 | 7.27 | PPBV | 98 |
| 19) 3-CHLOROPROPENE | 6.660 | 39 | 154305 | 11.11 | PPBV | 94 |
| 20) FREON 113 | 6.800 | 151 | 415737 | 9.05 | PPBV | 99 |
| 21) TRANS-1,2-DICHLOROETHY... | 7.467 | 96 | 190404 | 10.74 | PPBV | 97 |
| 22) TERTIARY BUTYL ALCOHOL | 6.427 | 59 | 332679 | 10.66 | PPBV | 98 |
| 23) METHYL TERTIARY BUTYL ... | 7.710 | 73 | 392083 | 9.55 | PPBV | 99 |
| 24) TETRAHYDROFURAN | 9.144 | 42 | 111570 | 9.01 | PPBV | 99 |
| 25) HEXANE | 8.667 | 57 | 207399 | 7.94 | PPBV | 95 |
| 26) VINYL ACETATE | 7.789 | 43 | 284777 | 9.56 | PPBV | 97 |
| 27) 1,1-DICHLOROETHANE | 7.662 | 63 | 312636 | 10.67 | PPBV | 100 |
| 28) METHYL ETHYL KETONE | 8.030 | 43 | 244701 | 9.10 | PPBV | 93 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.470 | 96 | 160232 | 10.23 | PPBV | 99 |
| 30) ETHYL ACETATE | 8.663 | 43 | 404597 | 7.72 | PPBV | 100 |
| 31) CHLOROFORM | 8.750 | 83 | 414026 | 10.21 | PPBV | 99 |
| 32) 1,1,1-TRICHLOROETHANE | 9.711 | 97 | 432762 | 10.57 | PPBV | 99 |
| 33) CARBON TETRACHLORIDE | 10.293 | 117 | 537081 | 11.19 | PPBV | 99 |
| 34) 1,2-DICHLOROETHANE | 9.462 | 62 | 242510 | 10.19 | PPBV | 98 |
| 36) BENZENE | 10.151 | 78 | 381394 | 9.17 | PPBV | 100 |
| 37) CYCLOHEXANE | 10.417 | 84 | 177444 | 9.97 | PPBV | 98 |
| 38) TRICHLOROETHYLENE | 11.145 | 95 | 235474 | 10.11 | PPBV | 99 |
| 39) 1,2-DICHLOROPROPANE | 10.926 | 63 | 131144 | 9.30 | PPBV | 97 |
| 40) BROMODICHLOROMETHANE | 11.106 | 83 | 378433 | 10.23 | PPBV | 97 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.168 | 57 | 644899 | 10.15 | PPBV | 99 |
| 42) 1,4-DIOXANE | 11.134 | 88 | 77597 | 9.46 | PPBV | 92 |
| 43) HEPTANE | 11.406 | 43 | 230882 | 9.90 | PPBV | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3984b.D
Acq On : 17 Jul 2007 8:45 am
Operator : danat
Sample : bs (M209)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 14:07:21 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:27:00 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.979 | 43 | 283781 | 9.50 | PPBV | 97 |
| 45) cis-1,3-DICHLOROPROPENE | 11.961 | 75 | 217279 | 10.07 | PPBV | 96 |
| 46) TOLUENE | 12.923 | 92 | 266117 | 8.86 | PPBV | 100 |
| 47) trans-1,3-DICHLOROPROPENE | 12.463 | 75 | 174783 | 8.86 | PPBV | 97 |
| 48) 1,1,2-TRICHLOROETHANE | 12.643 | 83 | 142783 | 9.20 | PPBV | 99 |
| 50) 2-HEXANONE | 13.147 | 43 | 235124 | 9.34 | PPBV | 97 |
| 51) TETRACHLOROETHYLENE | 14.057 | 164 | 257364 | 9.86 | PPBV | 99 |
| 52) DIBROMOCHLOROMETHANE | 13.349 | 129 | 368242 | 10.30 | PPBV | 99 |
| 53) 1,2-DIBROMOETHANE | 13.599 | 107 | 267370 | 9.35 | PPBV | 99 |
| 54) CHLOROBENZENE | 14.753 | 112 | 384893 | 9.30 | PPBV | 100 |
| 55) ETHYLBENZENE | 15.129 | 91 | 619158 | 9.48 | PPBV | 99 |
| 56) m,p-XYLENE | 15.326 | 106 | 483299 | 19.58 | PPBV | 97 |
| 57) o-XYLENE | 15.825 | 106 | 244339 | 9.73 | PPBV | 98 |
| 58) STYRENE | 15.704 | 104 | 359962 | 10.24 | PPBV | 99 |
| 59) NONANE | 16.025 | 43 | 326579 | 10.19 | PPBV | 100 |
| 60) BROMOFORM | 15.424 | 173 | 356220 | 9.82 | PPBV | 100 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.810 | 83 | 380959 | 9.69 | PPBV | 98 |
| 63) ISOPROPYLBENZENE | 16.467 | 105 | 762304 | 9.91 | PPBV | 99 |
| 64) 2-CHLOROTOLUENE | 17.016 | 91 | 560897 | 10.15 | PPBV | 99 |
| 65) 4-ETHYLTOLUENE | 17.211 | 105 | 672129 | 9.76 | PPBV | 100 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.292 | 105 | 682672 | 10.21 | PPBV | 99 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.756 | 105 | 661253 | 10.74 | PPBV | 99 |
| 68) m-DICHLOROBENZENE | 17.942 | 146 | 439257 | 10.19 | PPBV | 100 |
| 69) BENZYL CHLORIDE | 17.917 | 91 | 370322 | 10.14 | PPBV | 100 |
| 70) p-DICHLOROBENZENE | 18.013 | 146 | 441700 | 10.61 | PPBV | 99 |
| 71) o-DICHLOROBENZENE | 18.402 | 146 | 402440 | 9.81 | PPBV | 99 |
| 72) HEXACHLOROBUTADIENE | 20.796 | 225 | 283891 | 14.09 | PPBV | 100 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.306 | 180 | 191567 | 13.19 | PPBV | 99 |

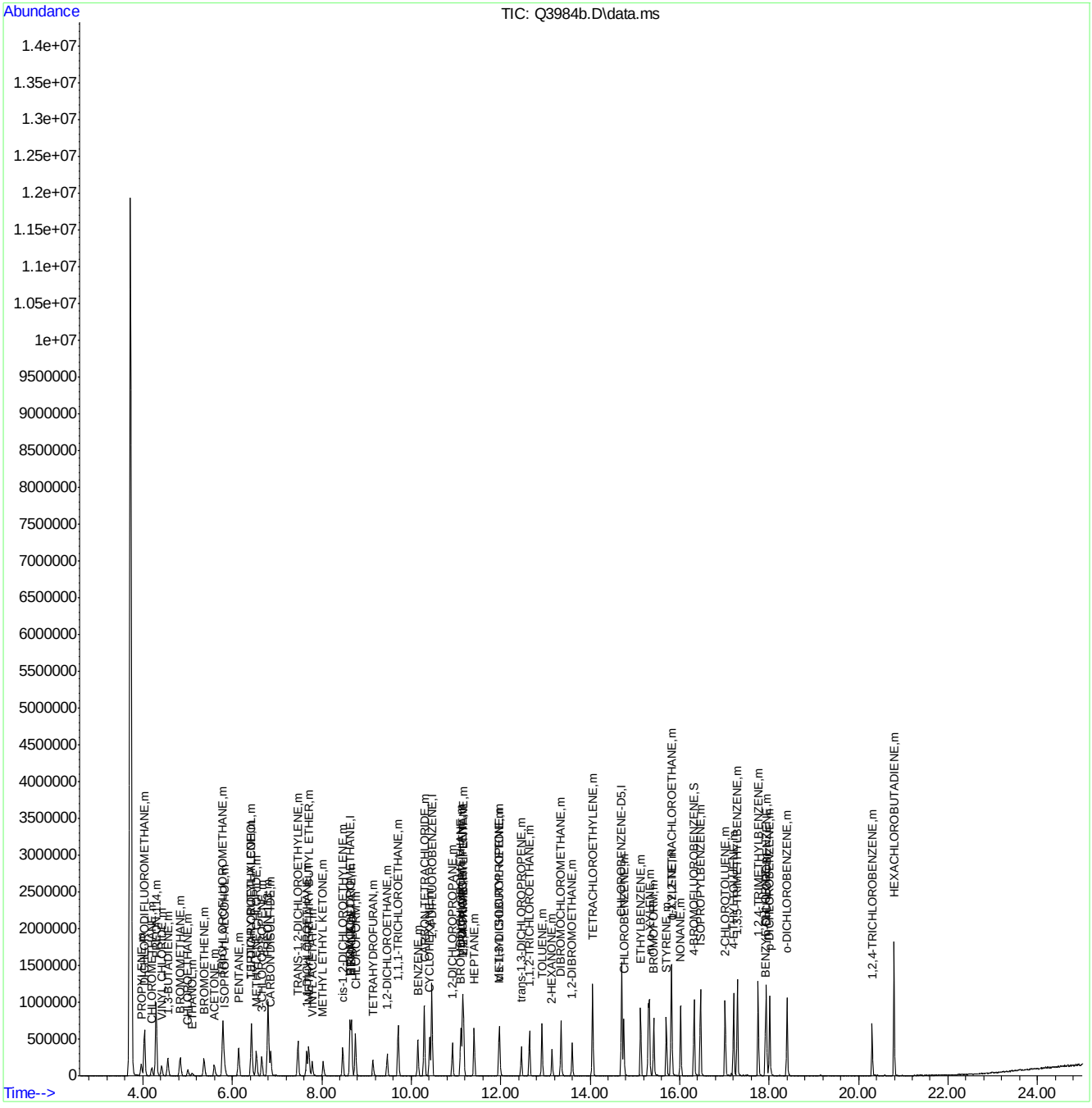
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3984b.D
Acq On : 17 Jul 2007 8:45 am
Operator : danat
Sample : bs (M209)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 14:07:21 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:27:00 2007
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4168.D
Acq On : 2 Aug 2007 10:26 am
Operator : danat
Sample : M66578-1DUP (m158)
Misc : MS14030, MSQ221,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 03 14:33:20 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.633 | 128 | 291934 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.460 | 114 | 1306960 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.701 | 117 | 1215991 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 61) 4-BROMOFLUOROBENZENE | 16.322 | 95 | 436520 | 5.06 | PPBV | 0.00 |
| Spiked Amount 5.000 | Range 57 - 139 | | Recovery = 101.20% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) DICHLORODIFLUOROMETHANE | 4.037 | 85 | 78520 | 0.50 | PPBV | 98 |
| 5) CHLOROMETHANE | 4.203 | 50 | 27417 | 0.81 | PPBV | 96 |
| 10) TRICHLOROFLUOROMETHANE | 5.783 | 101 | 40672 | 0.25 | PPBV | 98 |
| 11) ISOPROPYL ALCOHOL | 5.829 | 45 | 4315654 | 75.15 | PPBV | 97 |
| 12) ACETONE | 5.590 | 43 | 3150338 | 47.61 | PPBV | 96 |
| 13) PENTANE | 6.145 | 42 | 50117 | 1.33 | PPBV | 95 |
| 16) ETHANOL | 5.103 | 45 | 4496381 | 460.41 | PPBV | 98 |
| 18) METHYLENE CHLORIDE | 6.541 | 84 | 156778 | 3.49 | PPBV | 91 |
| 26) VINYL ACETATE | 7.762 | 43 | 116324 | 2.16 | PPBV | 92 |
| 30) ETHYL ACETATE | 8.656 | 43 | 1499643 | 16.77 | PPBV | 98 |
| 31) CHLOROFORM | 8.750 | 83 | 97937 | 1.09 | PPBV | 99 |
| 33) CARBON TETRACHLORIDE | 10.287 | 117 | 11316 | 0.10 | PPBV | 93 |
| 34) 1,2-DICHLOROETHANE | 9.462 | 62 | 8100 | 0.15 | PPBV | 98 |
| 36) BENZENE | 10.145 | 78 | 64120 | 0.75 | PPBV | 98 |
| 37) CYCLOHEXANE | 10.408 | 84 | 3290 | 0.35 | PPBV | 88 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.169 | 57 | 27953 | 0.07 | PPBV | 77 |
| 46) TOLUENE | 12.921 | 92 | 320088 | 6.79 | PPBV | 96 |
| 51) TETRACHLOROETHYLENE | 14.050 | 164 | 8021 | 0.17 | PPBV | 96 |
| 58) STYRENE | 15.706 | 104 | 7385 | 0.39 | PPBV | 97 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.757 | 105 | 12061 | 0.46 | PPBV | 95 |
| 70) p-DICHLOROBENZENE | 18.009 | 146 | 3504 | 0.18 | PPBV | 97 |

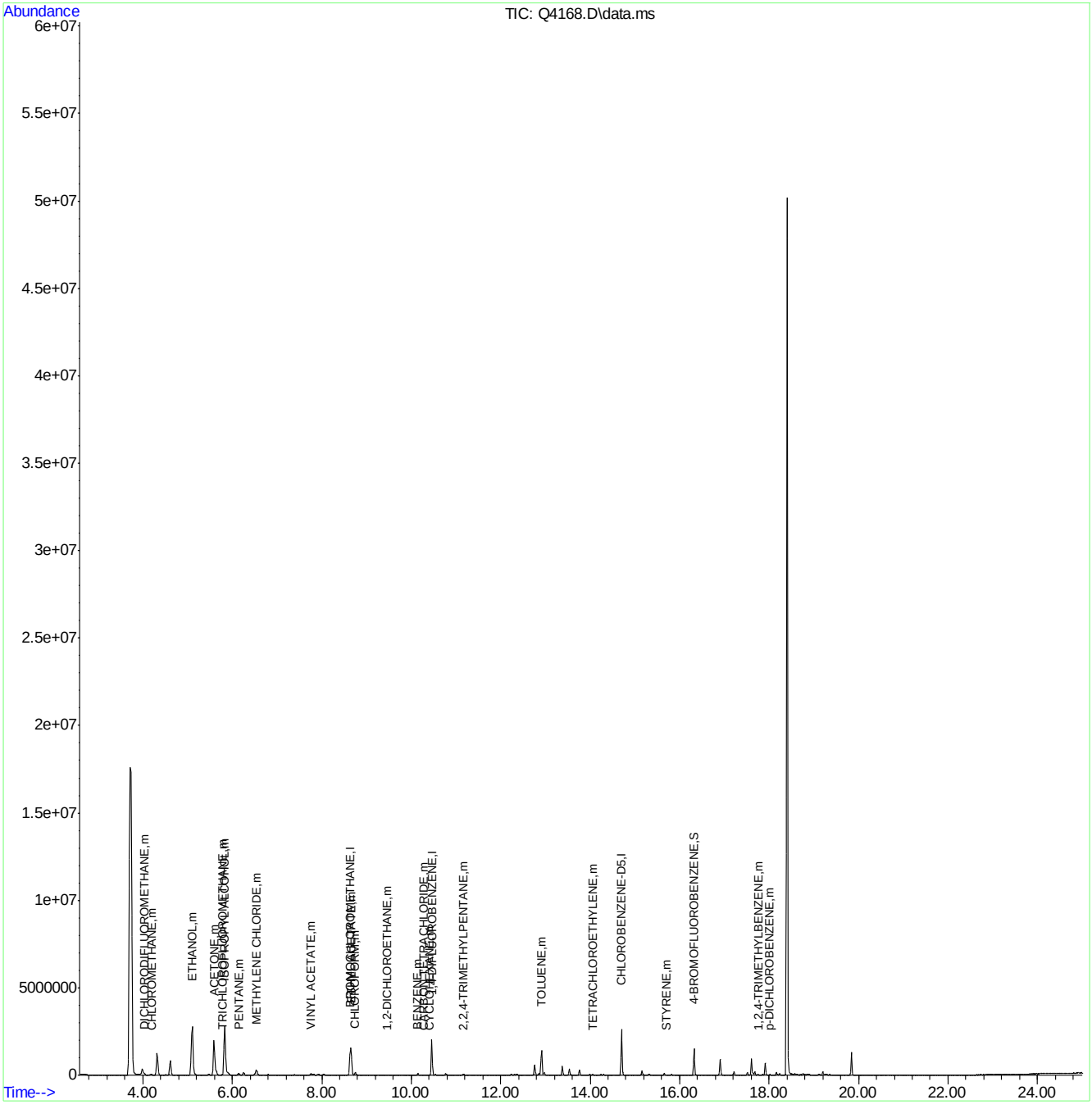
(#) = qualifier out of range (m) = manual integration (+) = signals summed

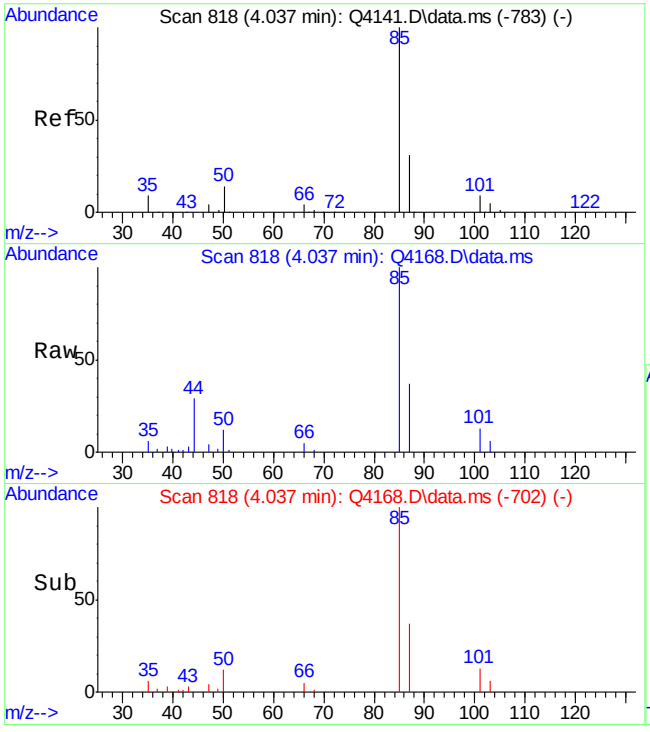
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4168.D
Acq On : 2 Aug 2007 10:26 am
Operator : danat
Sample : M66578-1DUP (m158)
Misc : MS14030, MSQ221,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 03 14:33:20 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration



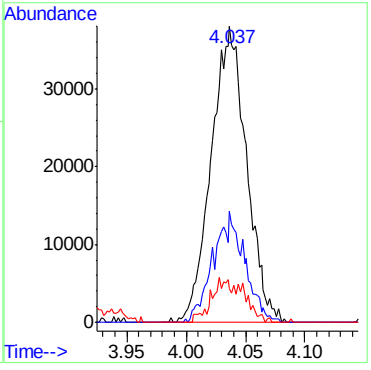


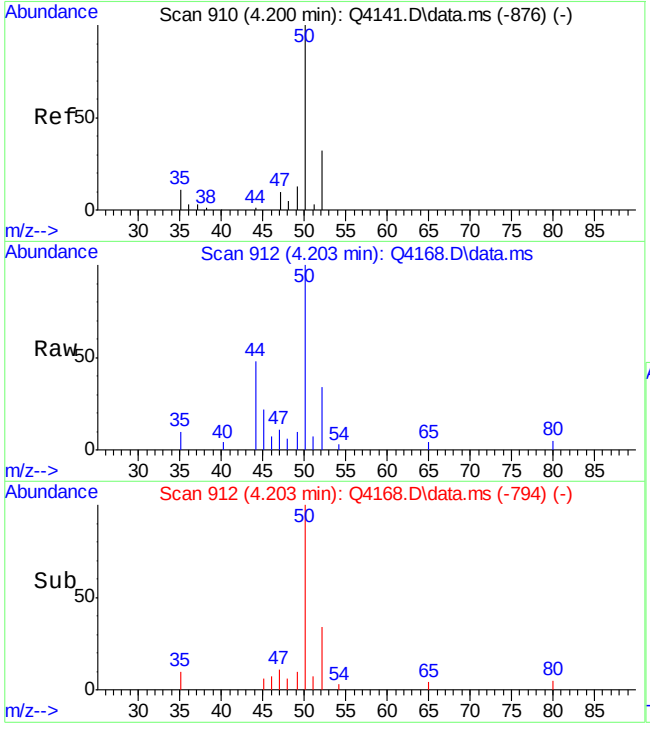



#2
DICHLORODIFLUOROMETHANE
Concen: 0.50 PPBV
RT: 4.037 min Scan# 818
Delta R.T. -0.000 min
Lab File: Q4168.D
Acq: 2 Aug 2007 10:26 am

Tgt Ion: 85 Resp: 78520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.5 | 12.1 | 52.1 |
| 50 | 13.6 | 0.0 | 33.9 |

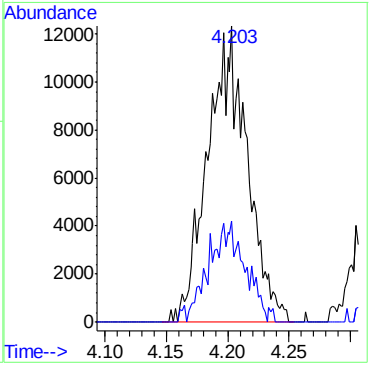



#5
CHLOROMETHANE
Concen: 0.81 PPBV
RT: 4.203 min Scan# 912
Delta R.T. 0.003 min
Lab File: Q4168.D
Acq: 2 Aug 2007 10:26 am

Tgt Ion: 50 Resp: 27417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.0 | 12.0 | 52.0 |

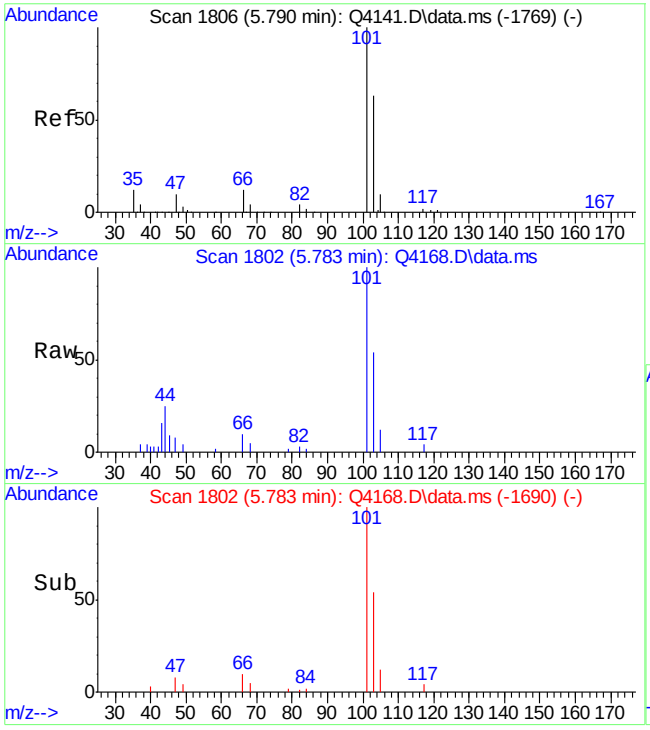








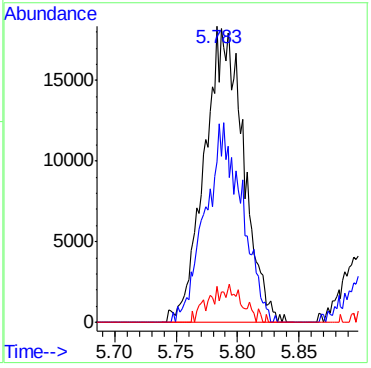

ACCUTEST Laboratories M66578

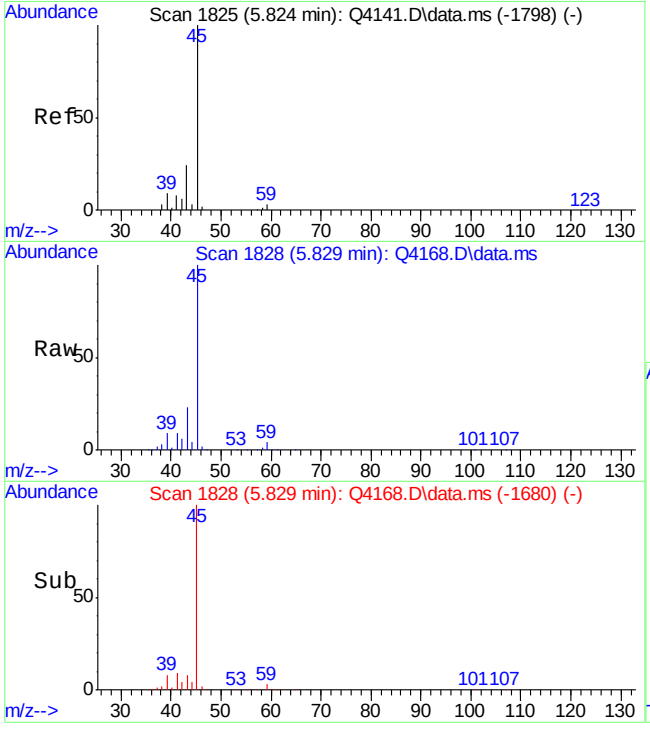



#10
TRICHLOROFLUOROMETHANE
Concen: 0.25 PPBV
RT: 5.783 min Scan# 1802
Delta R.T. -0.007 min
Lab File: Q4168.D
Acq: 2 Aug 2007 10:26 am

Tgt Ion:101 Resp: 40672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.3 | 44.7 | 84.7 |
| 105 | 10.4 | 0.0 | 30.4 |

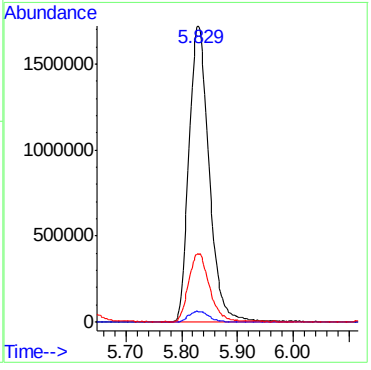


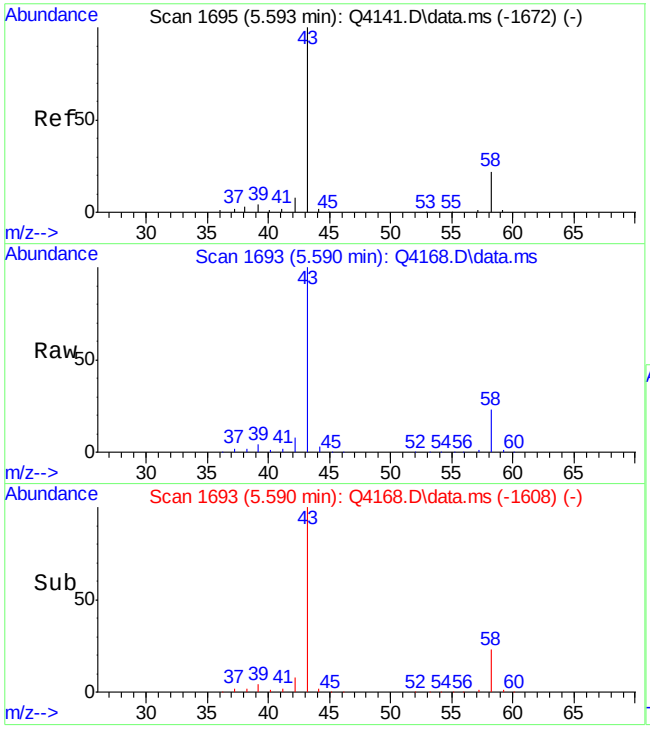




#11
ISOPROPYL ALCOHOL
Concen: 75.15 PPBV
RT: 5.829 min Scan# 1828
Delta R.T. 0.005 min
Lab File: Q4168.D
Acq: 2 Aug 2007 10:26 am

Tgt Ion: 45 Resp: 4315654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 59 | 3.6 | 0.0 | 23.3 |
| 43 | 23.1 | 4.5 | 44.5 |

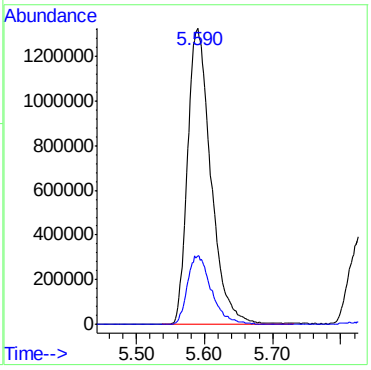


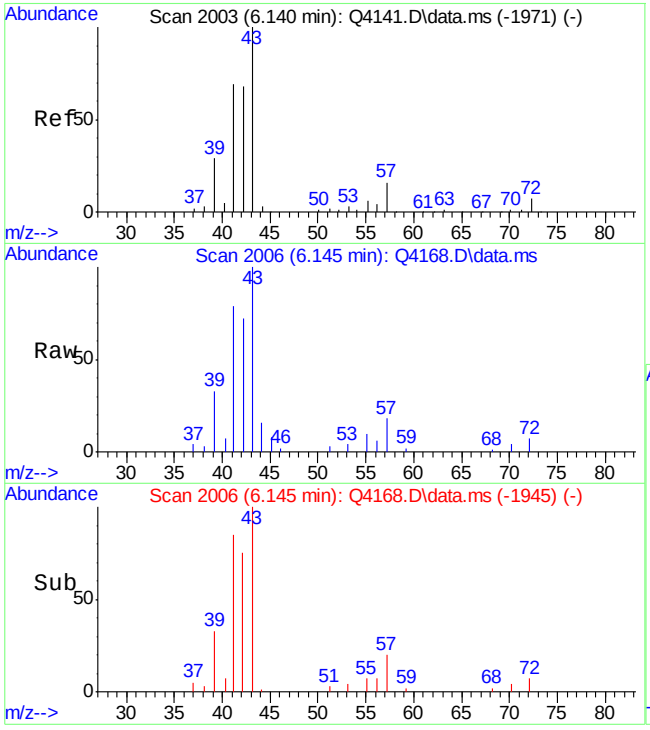



#12
ACETONE
Concen: 47.61 PPBV
RT: 5.590 min Scan# 1693
Delta R.T. -0.004 min
Lab File: Q4168.D
Acq: 2 Aug 2007 10:26 am

Tgt Ion: 43 Resp: 3150338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 23.9 | 1.9 | 41.9 |

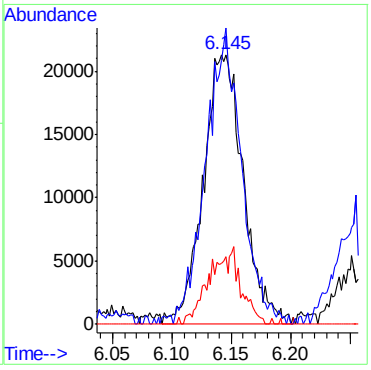


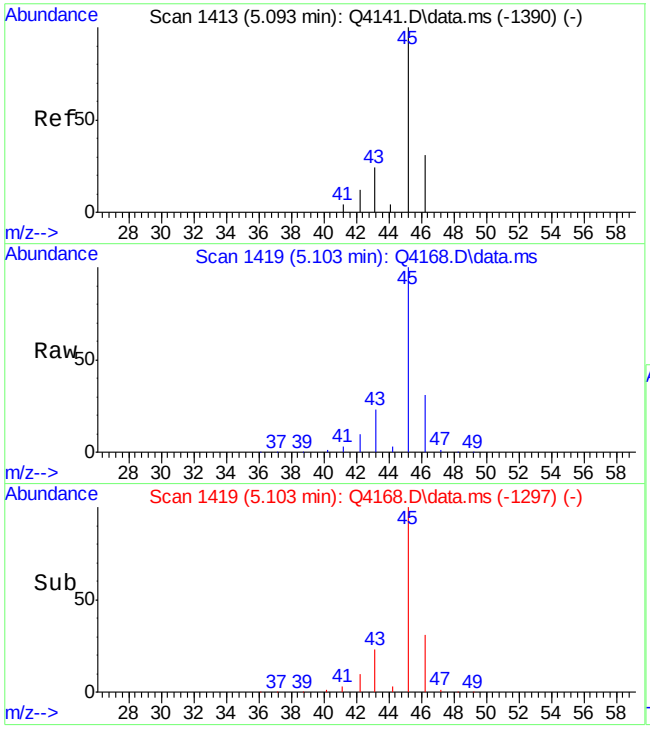




#13
PENTANE
Concen: 1.33 PPBV
RT: 6.145 min Scan# 2006
Delta R.T. 0.005 min
Lab File: Q4168.D
Acq: 2 Aug 2007 10:26 am

Tgt Ion: 42 Resp: 50117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 41 | 98.9 | 84.1 | 124.1 |
| 57 | 22.3 | 3.3 | 43.3 |

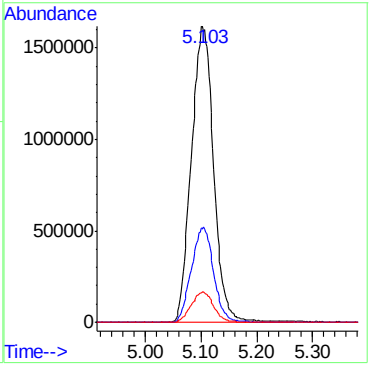


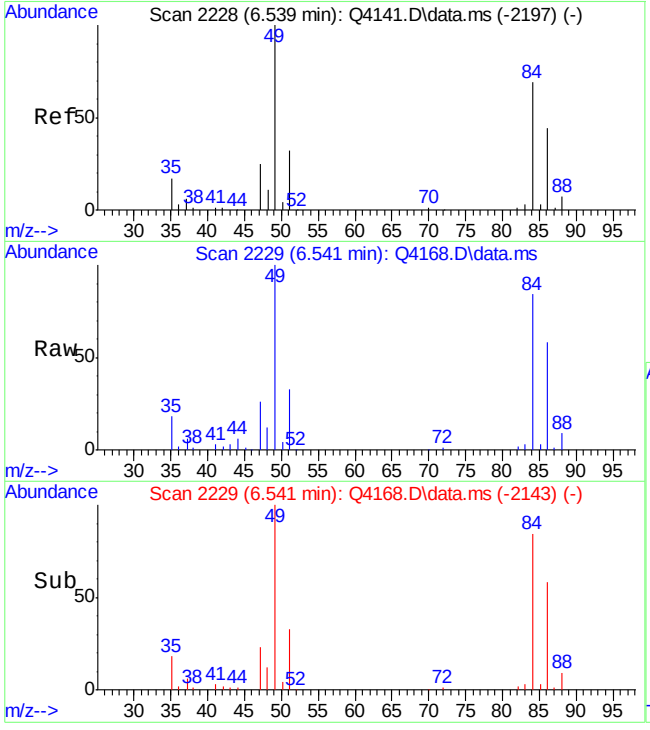



#16
ETHANOL
Concen: 460.41 PPBV
RT: 5.103 min Scan# 1419
Delta R.T. 0.011 min
Lab File: Q4168.D
Acq: 2 Aug 2007 10:26 am

Tgt Ion: 45 Resp: 4496381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 32.1 | 11.6 | 51.6 |
| 42 | 10.3 | 0.0 | 31.9 |

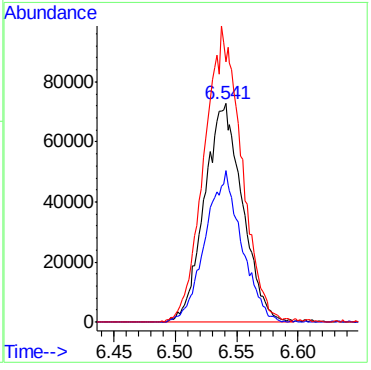


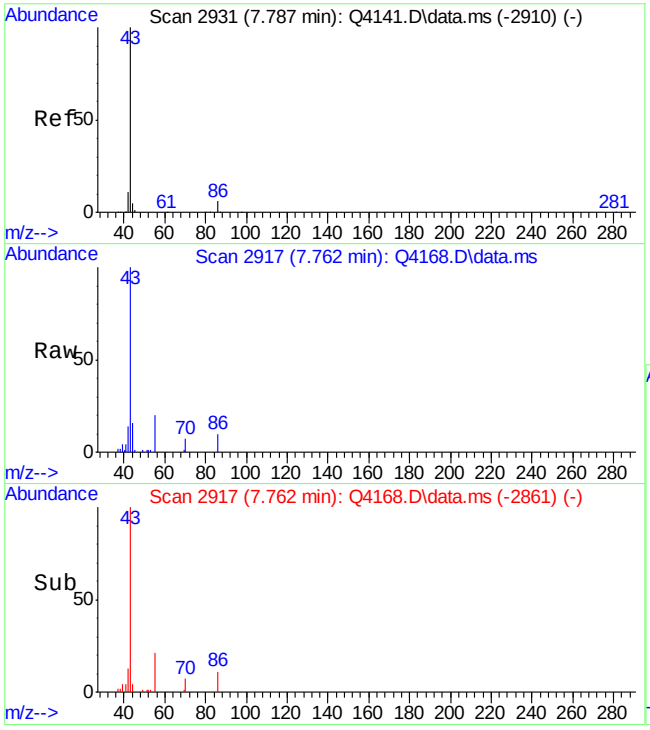




#18
METHYLENE CHLORIDE
Concen: 3.49 PPBV
RT: 6.541 min Scan# 2229
Delta R.T. 0.002 min
Lab File: Q4168.D
Acq: 2 Aug 2007 10:26 am

Tgt Ion: 84 Resp: 156778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 65.9 | 44.4 | 84.4 |
| 49 | 133.4 | 0.0 | 348.3 |

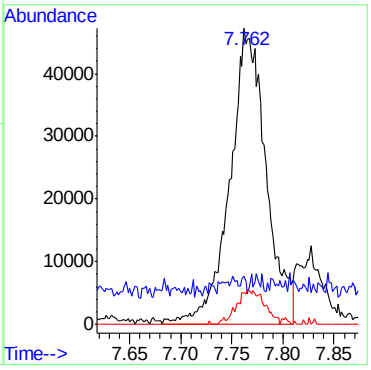


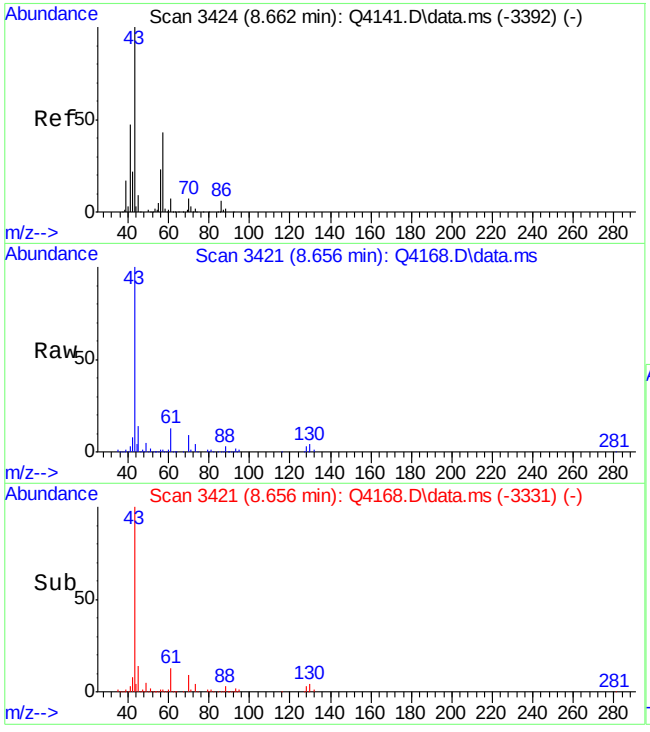



#26
VINYL ACETATE
Concen: 2.16 PPBV
RT: 7.762 min Scan# 2917
Delta R.T. -0.025 min
Lab File: Q4168.D
Acq: 2 Aug 2007 10:26 am

Tgt Ion: 43 Resp: 116324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 44 | 4.7 | 0.0 | 27.3 |
| 86 | 9.3 | 0.0 | 26.6 |

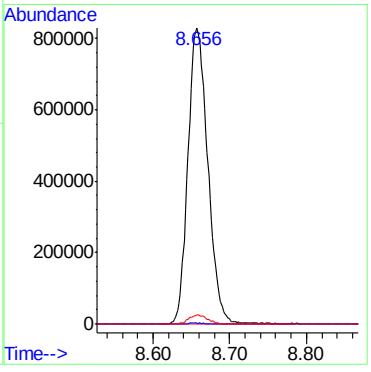


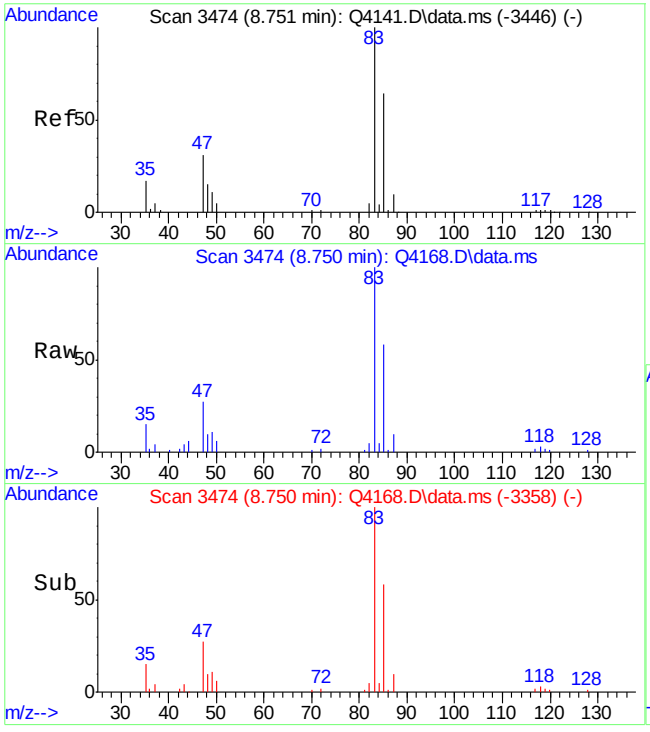




#30
ETHYL ACETATE
Concen: 16.77 PPBV
RT: 8.656 min Scan# 3421
Delta R.T. -0.005 min
Lab File: Q4168.D
Acq: 2 Aug 2007 10:26 am

Tgt Ion: 43 Resp: 1499643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 62 | 0.2 | 0.0 | 20.3 |
| 88 | 2.9 | 0.0 | 21.9 |

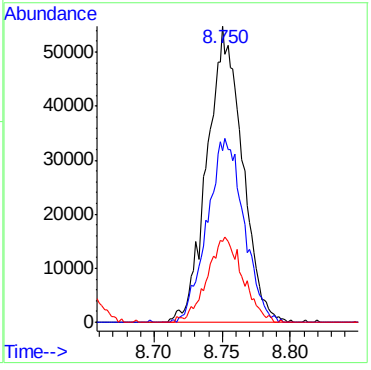


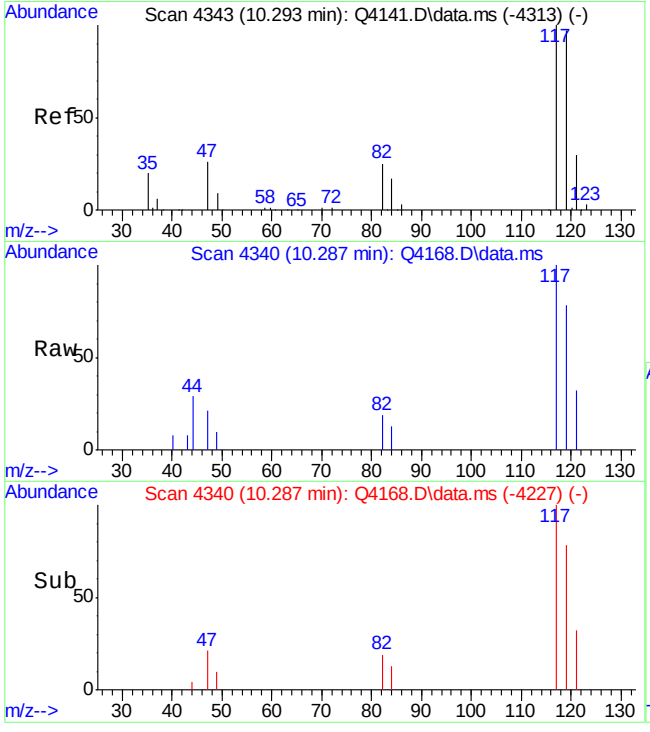



#31
CHLOROFORM
Concen: 1.09 PPBV
RT: 8.750 min Scan# 3474
Delta R.T. -0.000 min
Lab File: Q4168.D
Acq: 2 Aug 2007 10:26 am

Tgt Ion: 83 Resp: 97937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.0 | 44.6 | 84.6 |
| 47 | 29.1 | 10.5 | 50.5 |

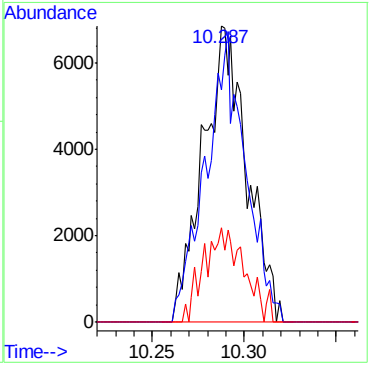


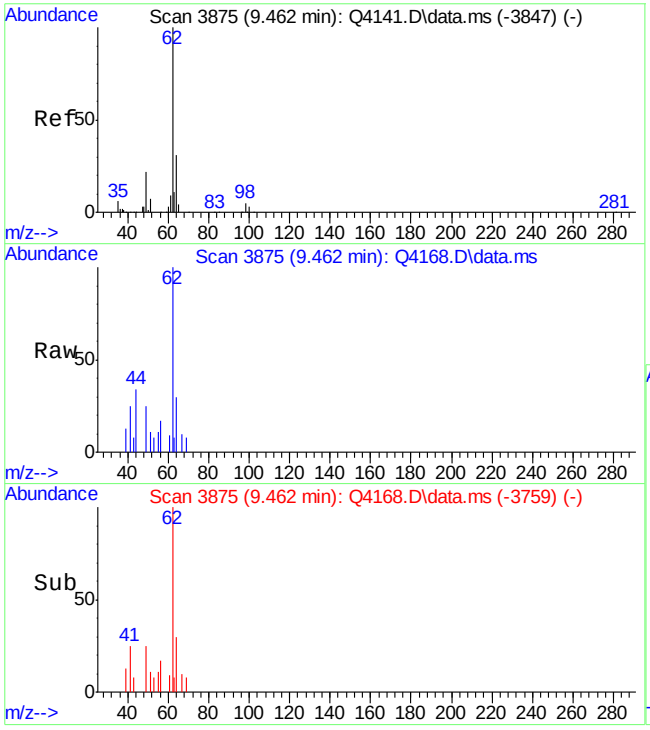




#33
CARBON TETRACHLORIDE
Concen: 0.10 PPBV
RT: 10.287 min Scan# 4340
Delta R.T. -0.005 min
Lab File: Q4168.D
Acq: 2 Aug 2007 10:26 am

Tgt Ion:117 Resp: 11316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 89.5 | 77.4 | 117.4 |
| 121 | 29.3 | 11.3 | 51.3 |

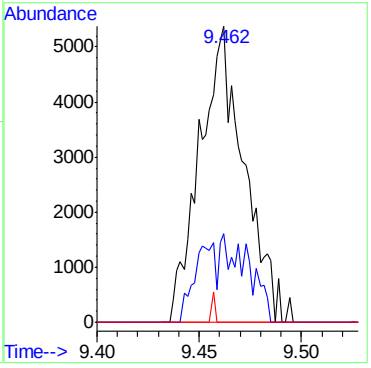


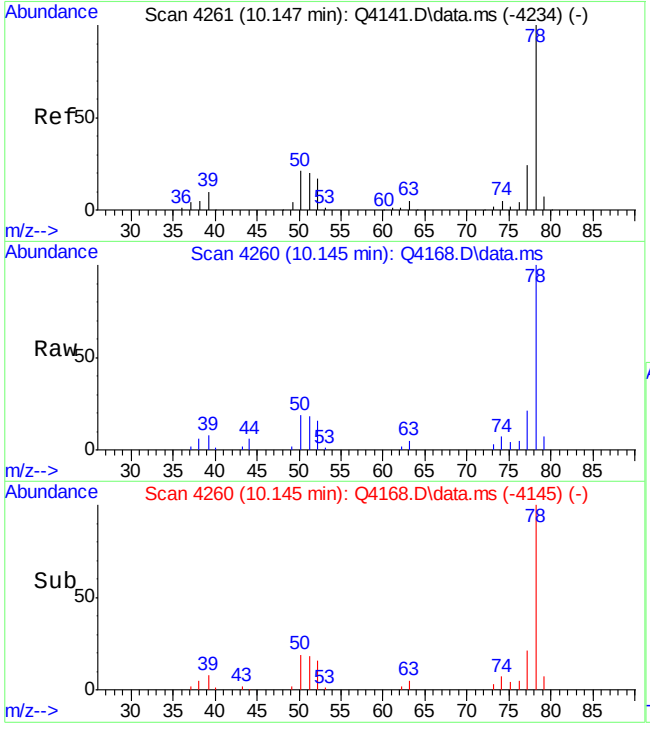



#34
1,2-DICHLOROETHANE
Concen: 0.15 PPBV
RT: 9.462 min Scan# 3875
Delta R.T. -0.000 min
Lab File: Q4168.D
Acq: 2 Aug 2007 10:26 am

Tgt Ion: 62 Resp: 8100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.5 | 11.8 | 51.8 |
| 98 | 0.7 | 0.0 | 24.9 |

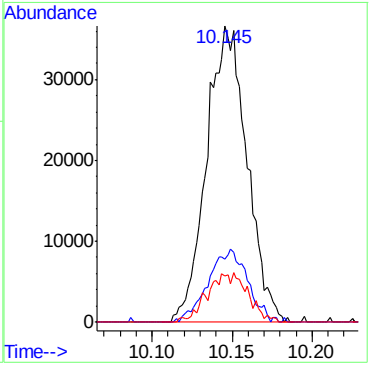


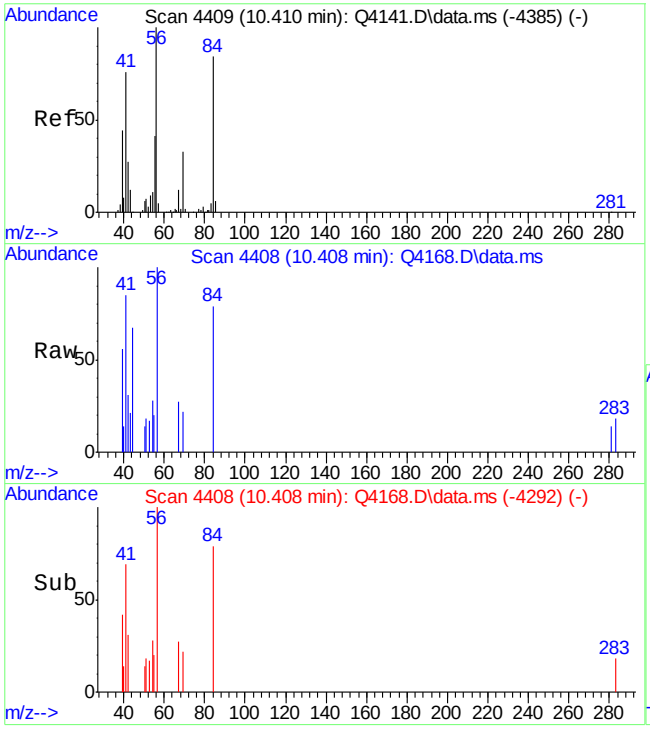




#36
BENZENE
Concen: 0.75 PPBV
RT: 10.145 min Scan# 4260
Delta R.T. -0.002 min
Lab File: Q4168.D
Acq: 2 Aug 2007 10:26 am

Tgt Ion: 78 Resp: 64120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.1 | 2.8 | 42.8 |
| 52 | 16.7 | 0.0 | 37.5 |

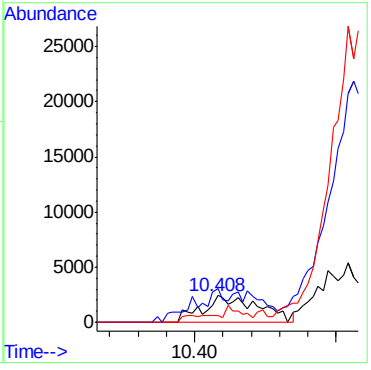


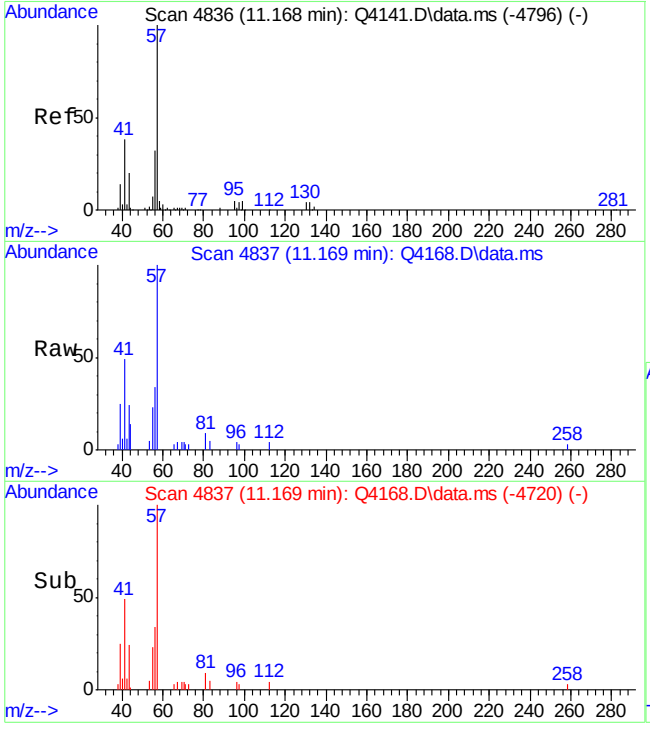



#37
CYCLOHEXANE
Concen: 0.35 PPBV
RT: 10.408 min Scan# 4408
Delta R.T. -0.001 min
Lab File: Q4168.D
Acq: 2 Aug 2007 10:26 am

Tgt Ion: 84 Resp: 3290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 141.0 | 105.2 | 145.2 |
| 69 | 35.5 | 19.5 | 59.5 |

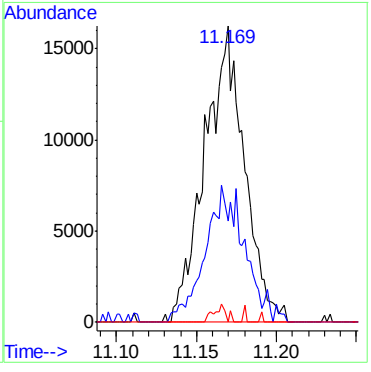


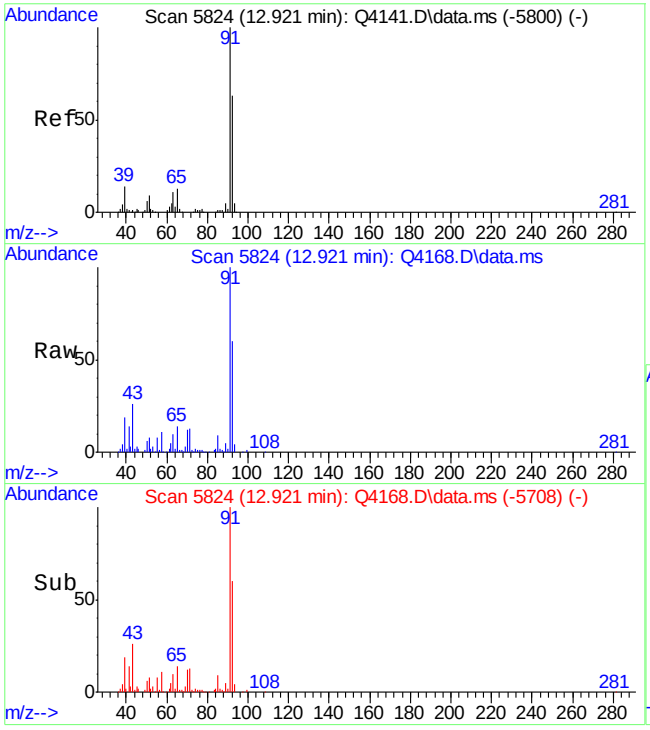




#41
2,2,4-TRIMETHYLPENTANE
Concen: 0.07 PPBV
RT: 11.169 min Scan# 4837
Delta R.T. 0.002 min
Lab File: Q4168.D
Acq: 2 Aug 2007 10:26 am

Tgt Ion: 57 Resp: 27953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 56 | 45.5 | 11.7 | 51.7 |
| 99 | 1.8 | 0.0 | 27.7 |

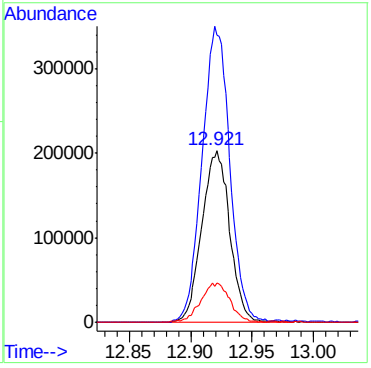


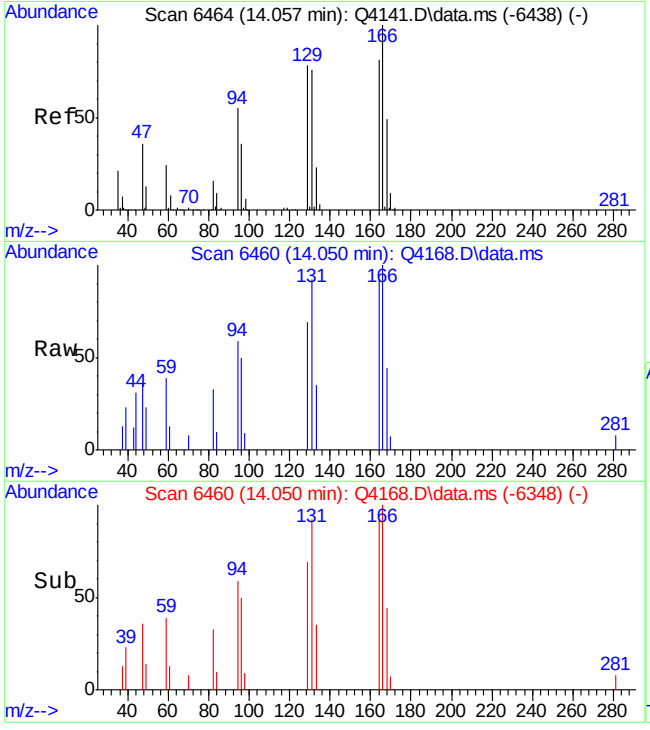



#46
TOLUENE
Concen: 6.79 PPBV
RT: 12.921 min Scan# 5824
Delta R.T. 0.000 min
Lab File: Q4168.D
Acq: 2 Aug 2007 10:26 am

Tgt Ion: 92 Resp: 320088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.2 | 146.4 | 186.4 |
| 65 | 24.1 | 2.5 | 42.5 |

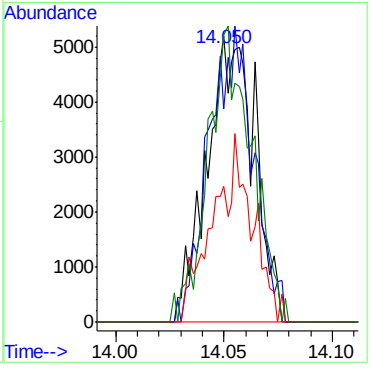


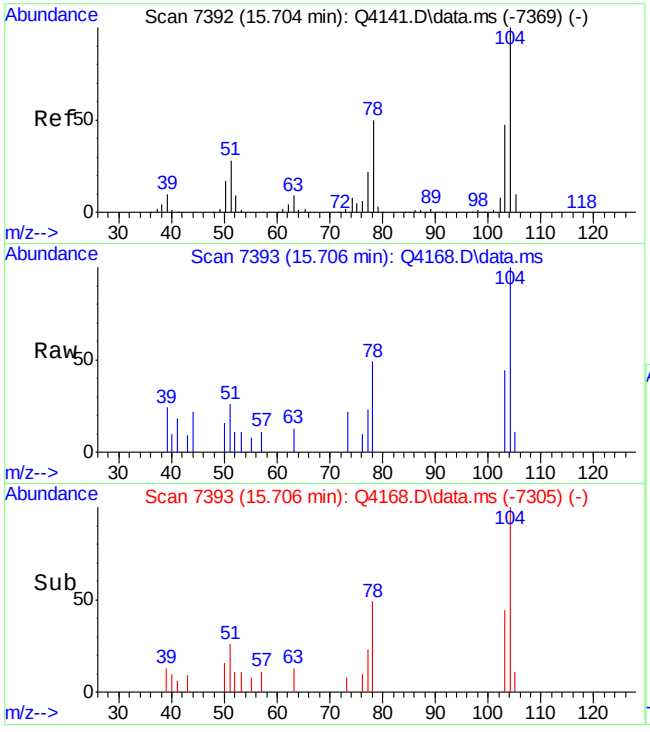




#51
TETRACHLOROETHYLENE
Concen: 0.17 PPBV
RT: 14.050 min Scan# 6460
Delta R.T. -0.007 min
Lab File: Q4168.D
Acq: 2 Aug 2007 10:26 am

Tgt Ion:164 Resp: 8021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 129 | 95.5 | 77.6 | 117.6 |
| 168 | 53.4 | 42.1 | 82.1 |
| 131 | 93.7 | 74.7 | 114.7 |

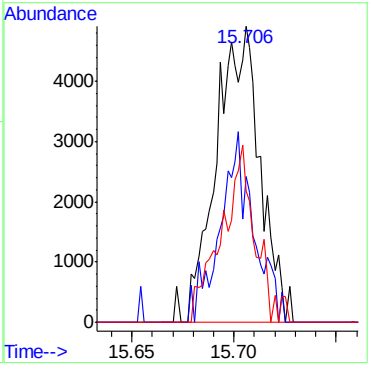


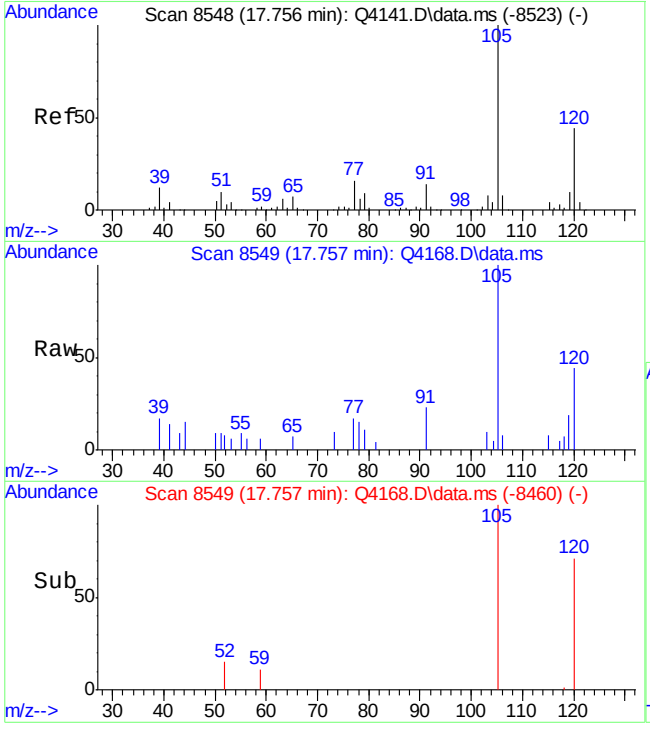



#58
STYRENE
Concen: 0.39 PPBV
RT: 15.706 min Scan# 7393
Delta R.T. 0.002 min
Lab File: Q4168.D
Acq: 2 Aug 2007 10:26 am

Tgt Ion:104 Resp: 7385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 49.0 | 31.0 | 71.0 |
| 103 | 44.2 | 26.6 | 66.6 |

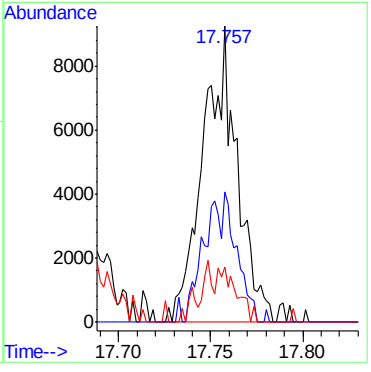


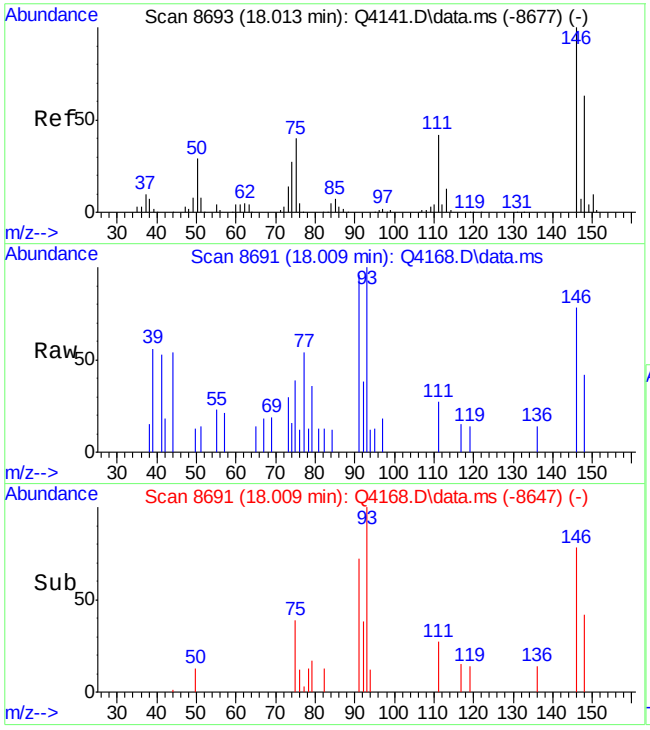




#67
1,2,4-TRIMETHYLBENZENE
Concen: 0.46 PPBV
RT: 17.757 min Scan# 8549
Delta R.T. 0.002 min
Lab File: Q4168.D
Acq: 2 Aug 2007 10:26 am

Tgt Ion:105 Resp: 12061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 41.9 | 21.7 | 61.7 |
| 119 | 19.0 | 0.0 | 30.5 |

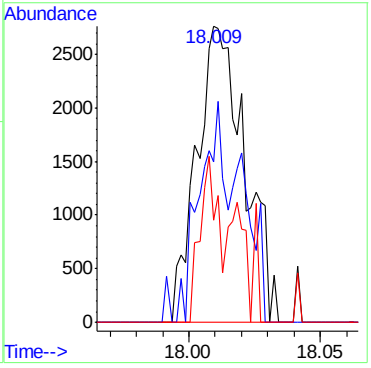





#70
p-DICHLOROBENZENE
Concen: 0.18 PPBV
RT: 18.009 min Scan# 8691
Delta R.T. -0.004 min
Lab File: Q4168.D
Acq: 2 Aug 2007 10:26 am

Tgt Ion:146 Resp: 3504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.8 | 44.2 | 84.2 |
| 111 | 38.6 | 22.9 | 62.9 |




6.4.1

6

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : J10885.D
Acq On : 6 Jul 2007 9:47 am
Operator : danat
Sample : scc (M158)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 06 13:30:57 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 17:30:53 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.62 | 128 | 329318 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.44 | 114 | 1279216 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.67 | 117 | 1161712 | 10.00 | PPBV | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.28 | 95 | 314332 | 4.40 | PPBV | -0.01 |

Spiked Amount 5.000 Range 51 - 142 Recovery = 88.00%

| Target Compounds | Qvalue |
|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

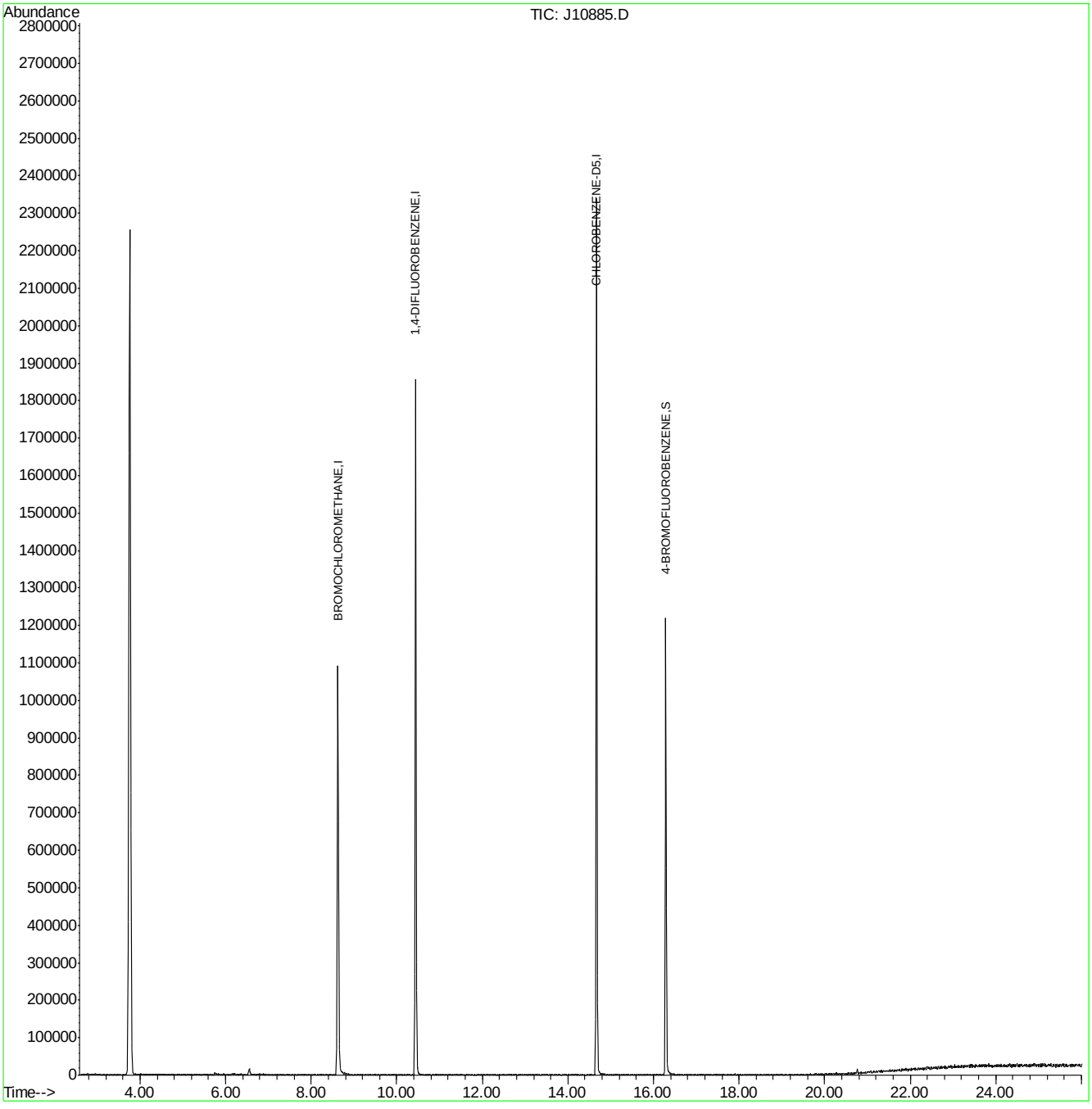
6.5.1

6

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : J10885.D
Acq On : 6 Jul 2007 9:47 am
Operator : danat
Sample : scc (M158)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 06 13:30:57 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 17:30:53 2007
Response via : Initial Calibration




J070507T.M Fri Jul 06 13:31:08 2007 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3994.D
Acq On : 17 Jul 2007 3:54 pm
Operator : danat
Sample : scc (M134)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 18 09:06:45 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:27:00 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.633 | 128 | 214066 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.460 | 114 | 1008316 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.705 | 117 | 850961 | 10.00 | PPBV | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.324 | 95 | 317134 | 5.07 | PPBV | 0.00 |

Spiked Amount 5.000 Range 57 - 139 Recovery = 101.40%

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 12) ACETONE | 5.611 | 43 | 10464 | 0.52 | PPBV | 80 |
| 18) METHYLENE CHLORIDE | 6.534 | 84 | 3030 | 0.37 | PPBV | 71 |

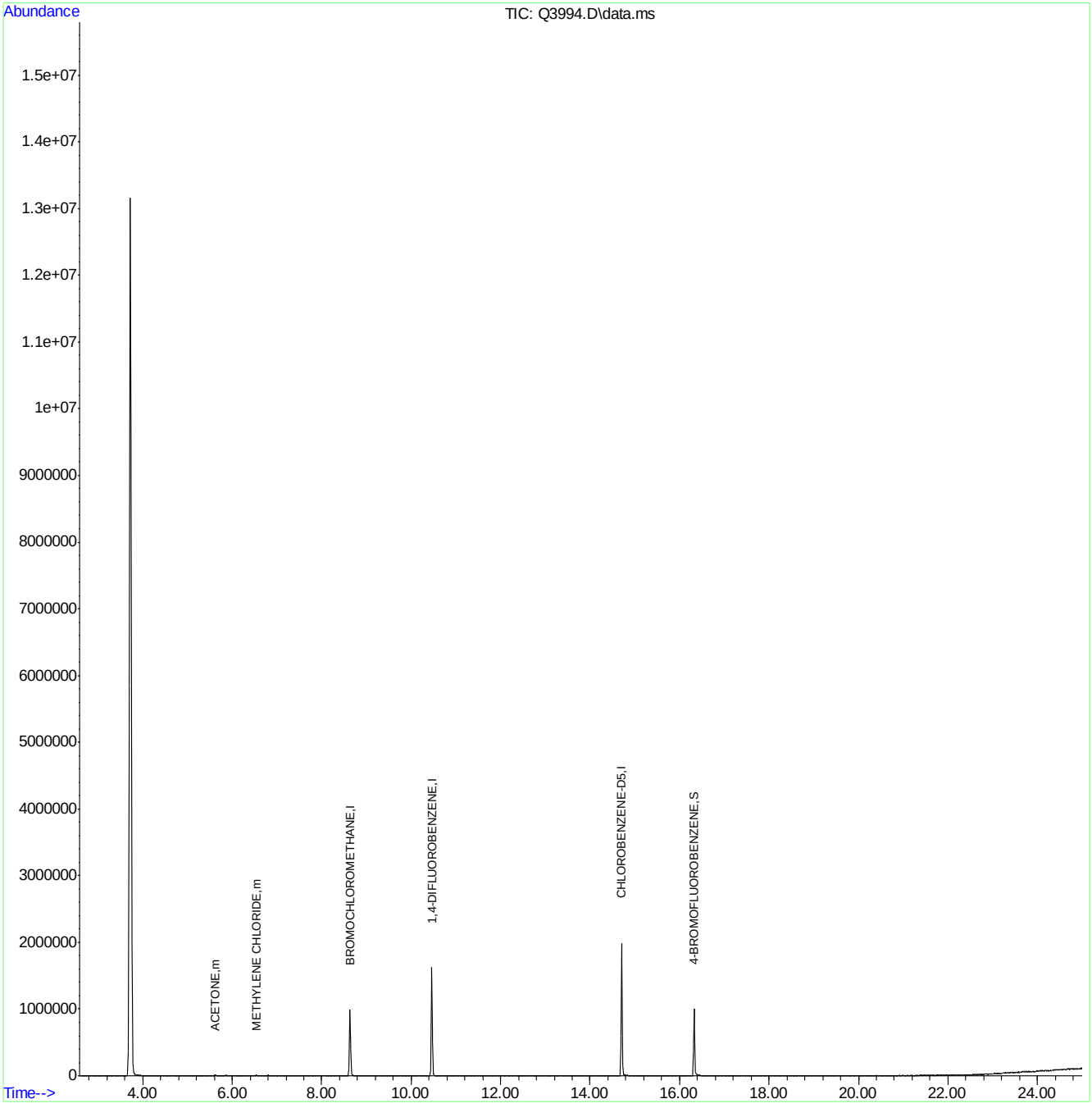
(#) = qualifier out of range (m) = manual integration (+) = signals summed

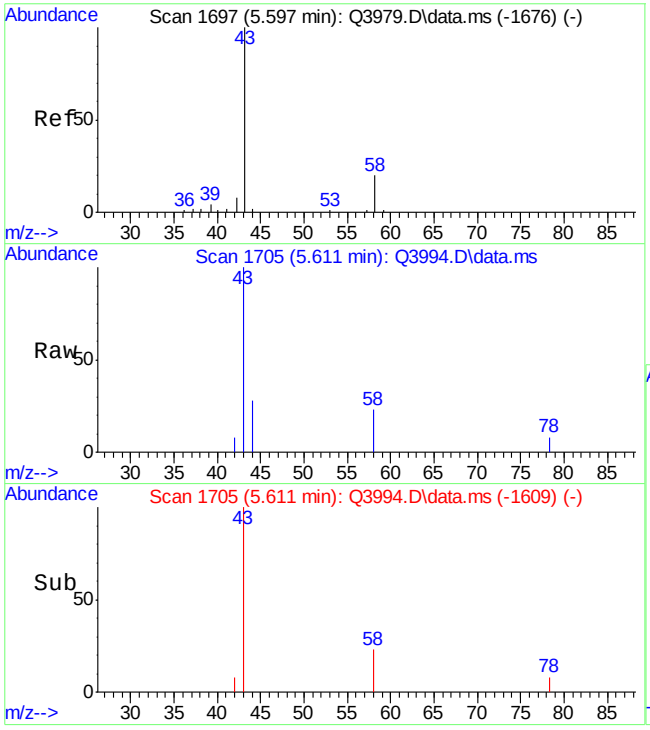
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3994.D
Acq On : 17 Jul 2007 3:54 pm
Operator : danat
Sample : scc (M134)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 18 09:06:45 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:27:00 2007
Response via : Initial Calibration



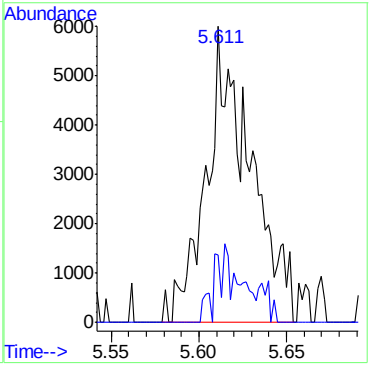


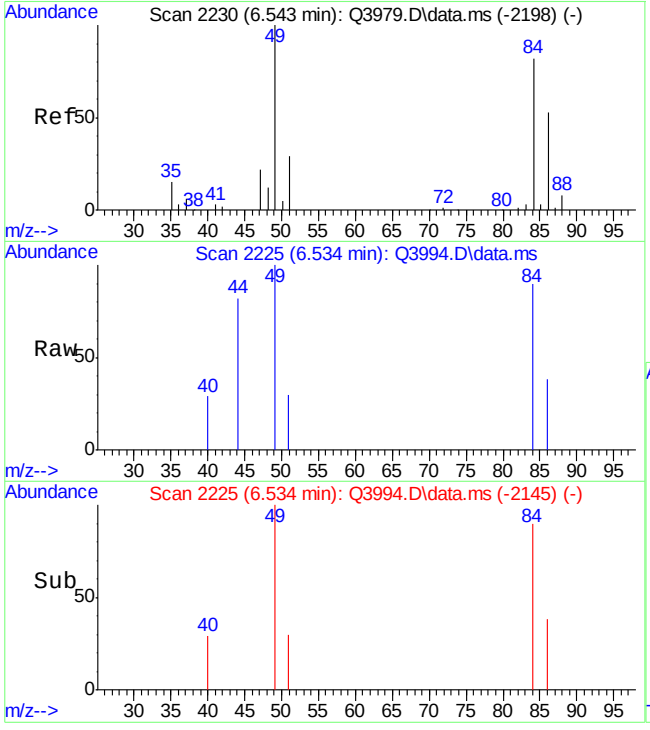



#12
ACETONE
Concen: 0.52 PPBV
RT: 5.611 min Scan# 1705
Delta R.T. 0.015 min
Lab File: Q3994.D
Acq: 17 Jul 2007 3:54 pm

Tgt Ion: 43 Resp: 10464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 14.3 | 4.0 | 44.0 |

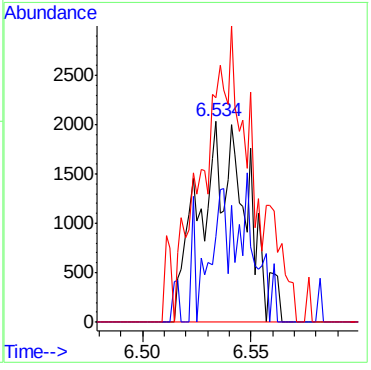



#18
METHYLENE CHLORIDE
Concen: 0.37 PPBV
RT: 6.534 min Scan# 2225
Delta R.T. -0.008 min
Lab File: Q3994.D
Acq: 17 Jul 2007 3:54 pm

Tgt Ion: 84 Resp: 3030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 46.8 | 45.0 | 85.0 |
| 49 | 164.6 | 0.0 | 327.5 |

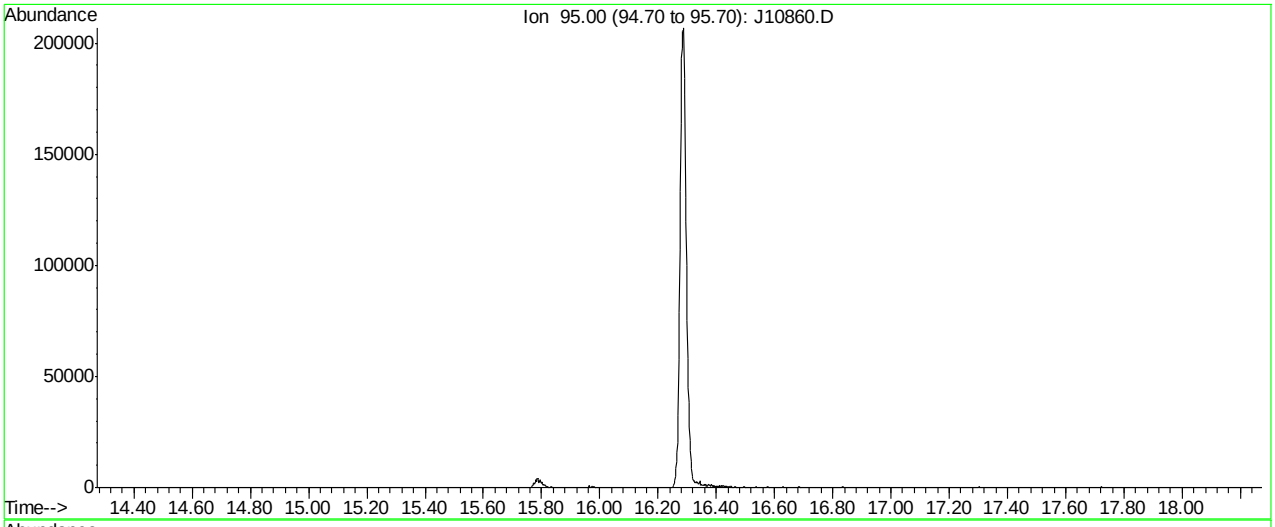


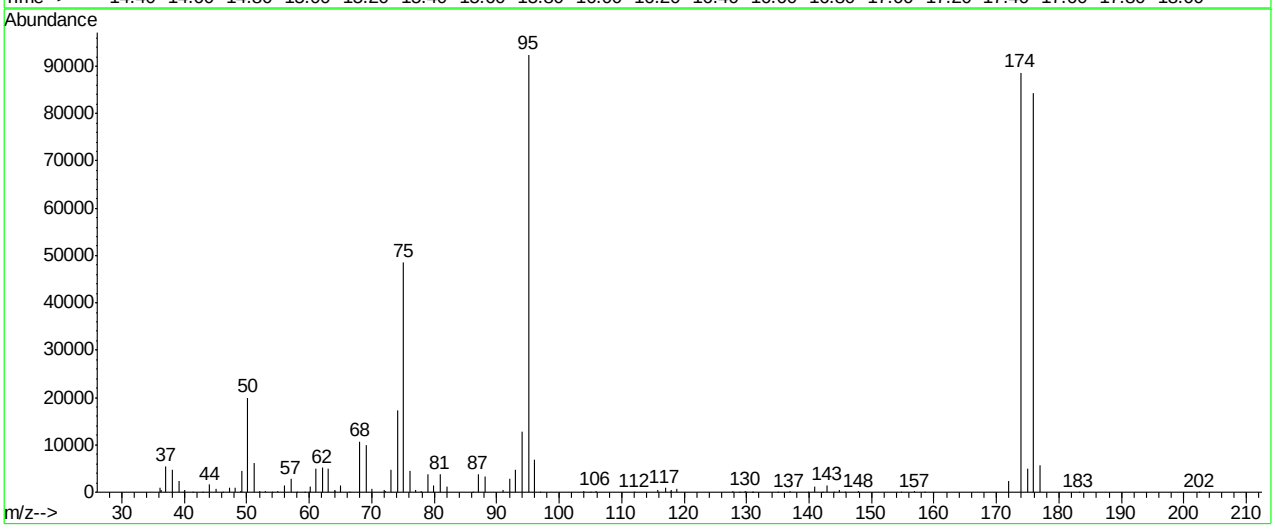
BFB

Data File : C:\MSDChem\1\data\J10860.D
Acq On : 5 Jul 2007 10:47 am
Sample : ic562-0.5 (M210)
Misc : MS13866, MSJ562,,,,,1
MS Integration Params: LSCINT.P

Vial: 1
Operator: danat
Inst : MSJ
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um




Spectrum Information: Average of 16.267 to 16.281 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 21.6 | 19975 | PASS |
| 75 | 95 | 30 | 66 | 52.6 | 48614 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 92470 | PASS |
| 96 | 95 | 5 | 9 | 7.5 | 6965 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 95.9 | 88639 | PASS |
| 175 | 174 | 4 | 9 | 5.5 | 4877 | PASS |
| 176 | 174 | 93 | 101 | 95.2 | 84398 | PASS |
| 177 | 176 | 5 | 9 | 6.8 | 5762 | PASS |

J10860.D J070507T.M Fri Jul 06 11:16:24 2007

Average of 16.267 to 16.281 min.: J10860.D
ic562-0.5 (M210)

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.05 | 948 | 46.15 | 117 | 56.05 | 1504 | 65.05 | 1477 |
| 36.20 | 368 | 47.15 | 923 | 57.05 | 2744 | 66.50 | 53 |
| 37.05 | 5479 | 48.10 | 846 | 58.00 | 66 | 68.10 | 10723 |
| 38.10 | 4787 | 49.00 | 136 | 59.20 | 53 | 69.05 | 9860 |
| 39.15 | 2418 | 49.15 | 4497 | 59.90 | 47 | 70.05 | 733 |
| 39.90 | 110 | 50.10 | 19975 | 60.15 | 1104 | 71.95 | 491 |
| 40.05 | 434 | 51.10 | 6182 | 61.05 | 4889 | 72.15 | 320 |
| 41.30 | 54 | 52.05 | 209 | 62.10 | 5122 | 73.05 | 4851 |
| 42.90 | 50 | 53.05 | 216 | 63.05 | 5052 | 74.10 | 17352 |
| 44.05 | 1605 | 54.00 | 53 | 64.00 | 261 | 75.10 | 48614 |
| 45.05 | 830 | 54.95 | 203 | 64.15 | 475 | 76.05 | 4618 |

Average of 16.267 to 16.281 min.: J10860.D
ic562-0.5 (M210)

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 77.00 | 589 | 93.05 | 4774 | 117.70 | 53 | 139.80 | 57 |
| 77.95 | 250 | 94.10 | 12748 | 117.90 | 366 | 140.85 | 1127 |
| 78.95 | 3875 | 95.05 | 92470 | 118.90 | 736 | 142.10 | 53 |
| 79.95 | 1448 | 96.05 | 6965 | 127.85 | 316 | 142.95 | 1513 |
| 80.95 | 3812 | 97.00 | 71 | 128.80 | 50 | 144.00 | 44 |
| 81.95 | 1227 | 103.95 | 277 | 129.80 | 342 | 144.90 | 529 |
| 86.20 | 92 | 104.95 | 91 | 130.00 | 58 | 145.80 | 74 |
| 87.00 | 3901 | 105.90 | 345 | 130.80 | 62 | 147.90 | 138 |
| 88.05 | 3396 | 112.05 | 126 | 131.00 | 53 | 154.80 | 103 |
| 90.95 | 372 | 115.85 | 390 | 134.90 | 54 | 156.95 | 162 |
| 92.05 | 2789 | 116.95 | 877 | 136.90 | 139 | 158.50 | 49 |

Average of 16.267 to 16.281 min.: J10860.D
ic562-0.5 (M210)

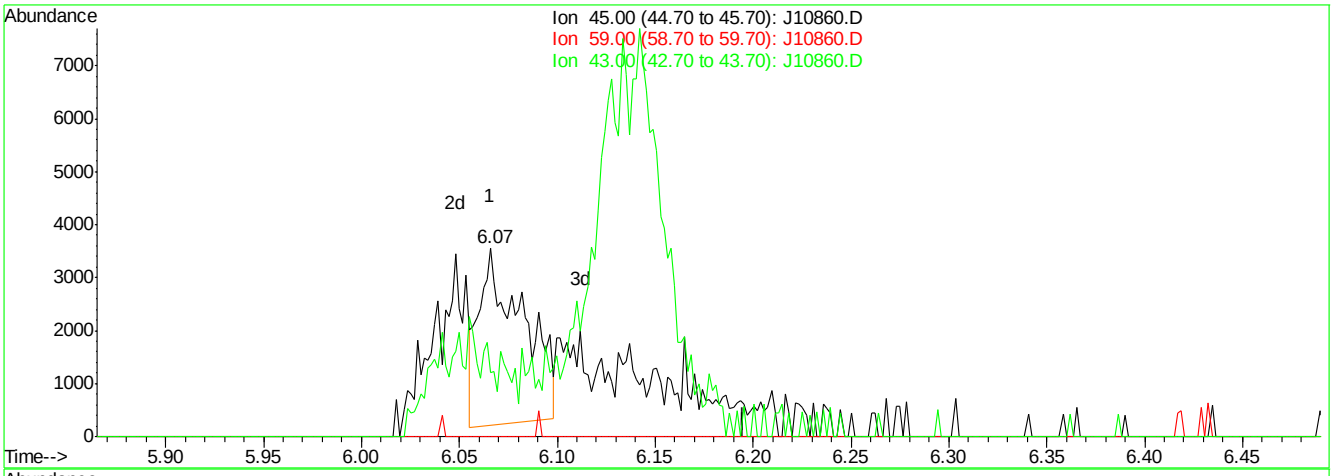
| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 171.95 | 2479 | | | | | | |
| 173.90 | 88639 | | | | | | |
| 175.00 | 4877 | | | | | | |
| 175.90 | 84398 | | | | | | |
| 176.95 | 5762 | | | | | | |
| 183.20 | 45 | | | | | | |
| 202.50 | 46 | | | | | | |

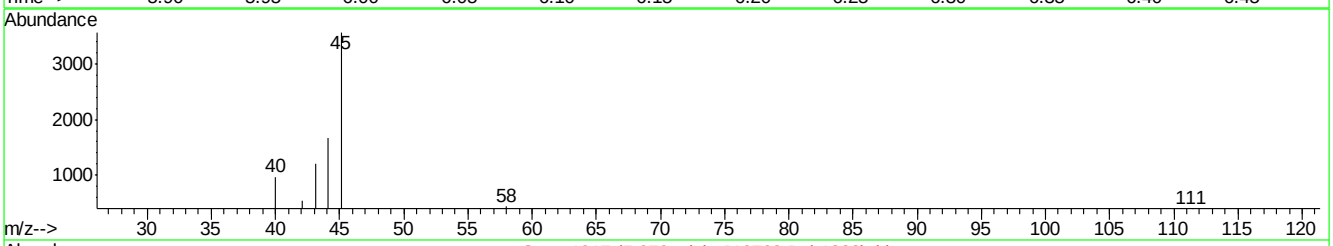
Quantitation Report (Qedit)

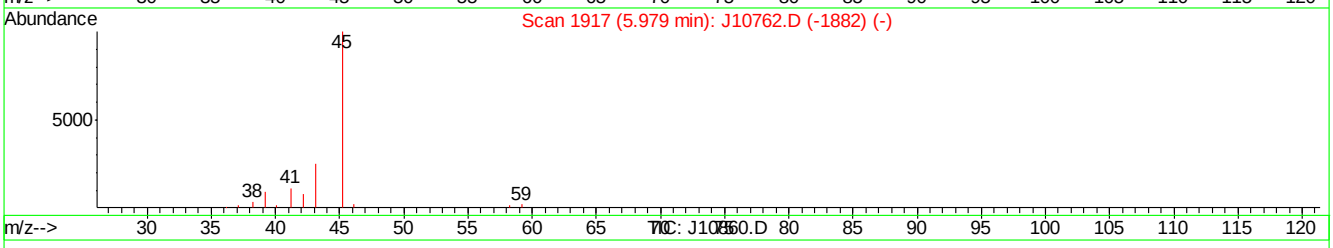
Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(11) ISOPROPYL ALCOHOL (m)

6.07min 0.15PPBV

response 5209

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 59.00 | 2.20 | 0.00 |
| 43.00 | 25.50 | 34.10 |
| 0.00 | 0.00 | 0.00 |

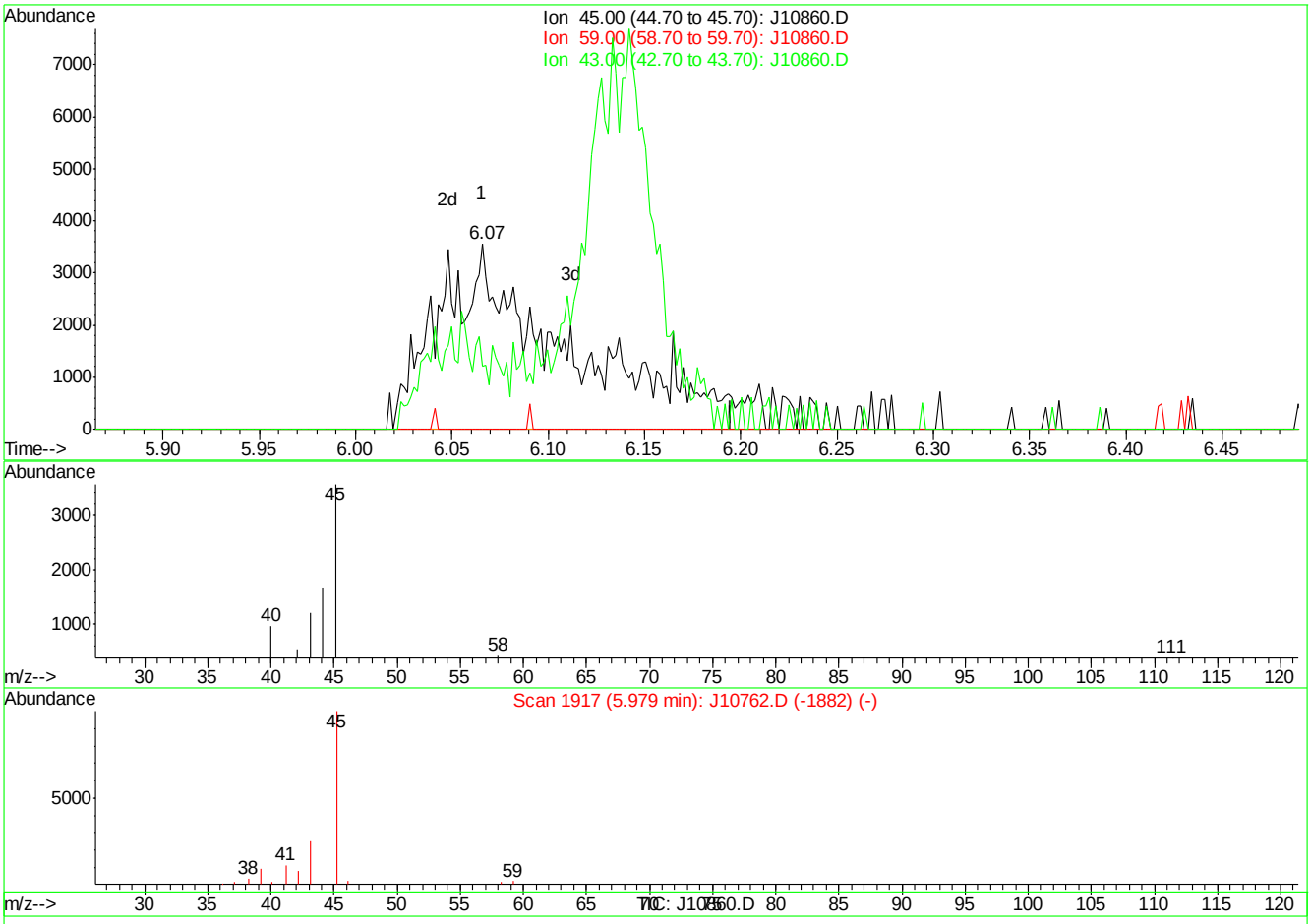
J10860.D J070507T.M Thu Jul 05 11:26:38 2007

Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(11) ISOPROPYL ALCOHOL (m)

6.07min 0.47PPBV m

response 16583

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 59.00 | 2.20 | 0.00 |
| 43.00 | 25.50 | 34.10 |
| 0.00 | 0.00 | 0.00 |

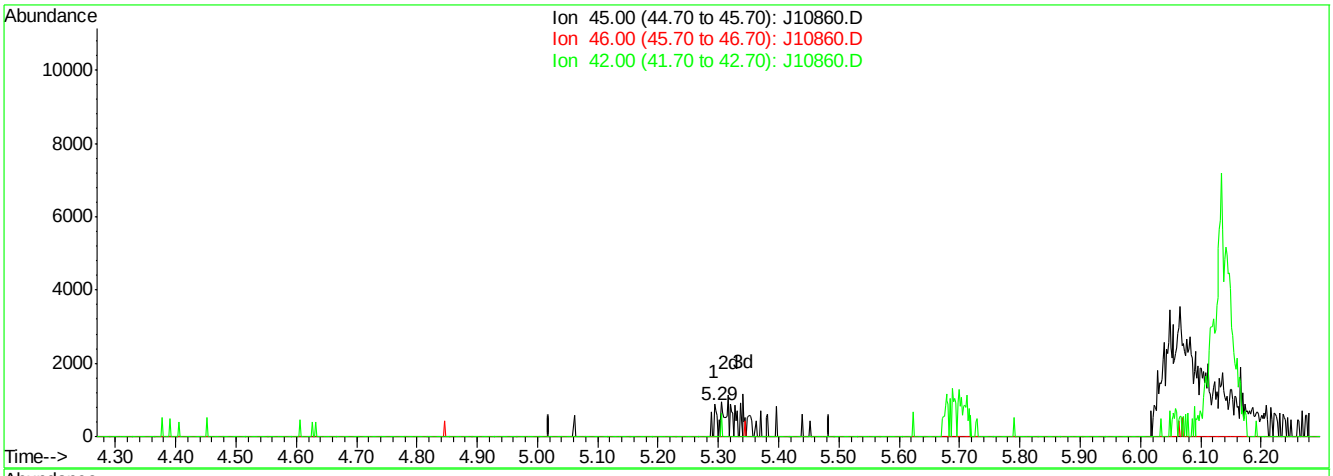
J10860.D J070507T.M Thu Jul 05 11:26:48 2007

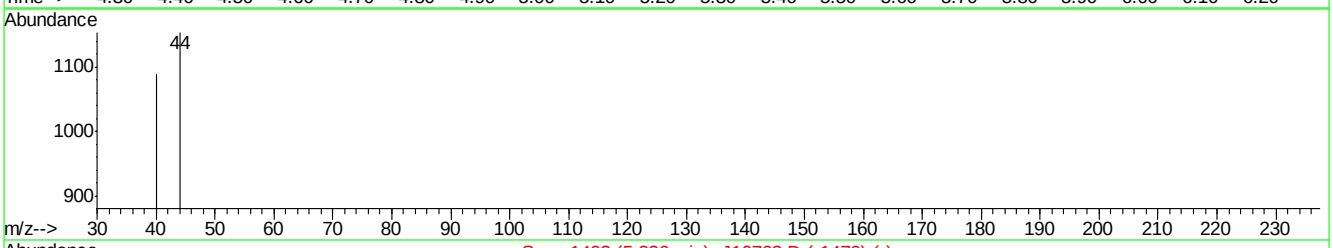
Quantitation Report (Qedit)

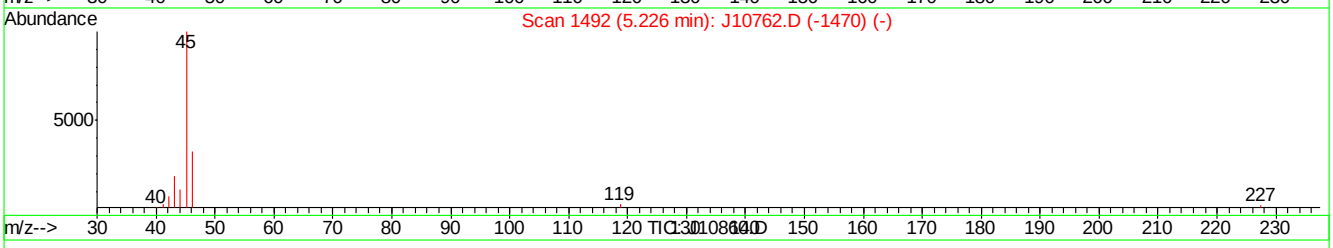
Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(16) ETHANOL (m)

5.29min 0.05PPBV

response 306

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 34.30 | 0.00# |
| 42.00 | 3.50 | 0.00 |
| 0.00 | 0.00 | 0.00 |

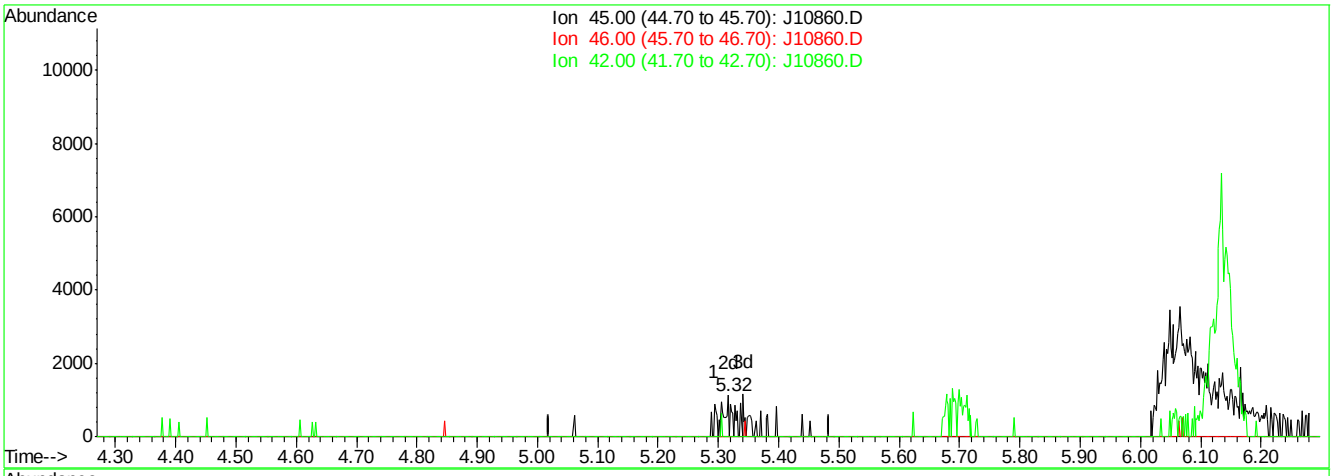
J10860.D J070507T.M Thu Jul 05 11:26:56 2007

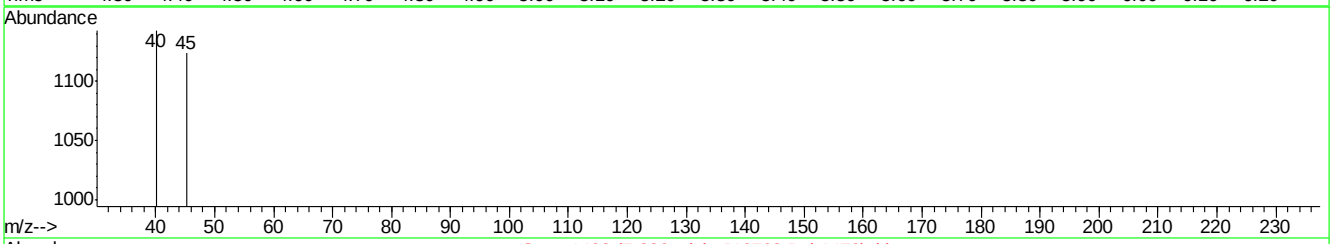
Quantitation Report (Qedit)

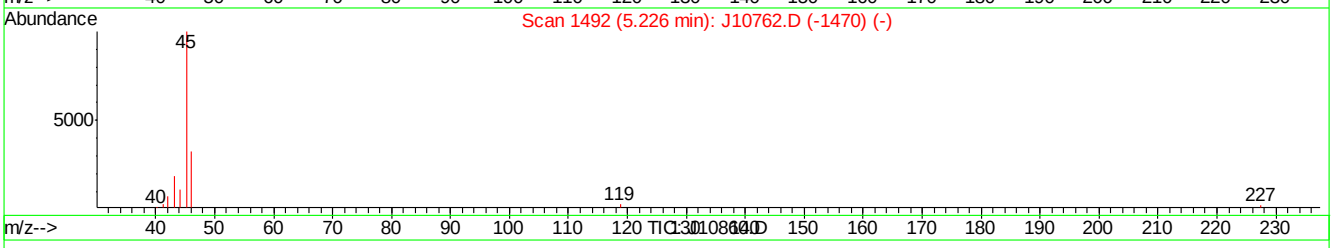
Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(16) ETHANOL (m)

5.32min 0.14PPBV m

response 847

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 34.30 | 0.00# |
| 42.00 | 3.50 | 0.00 |
| 0.00 | 0.00 | 0.00 |

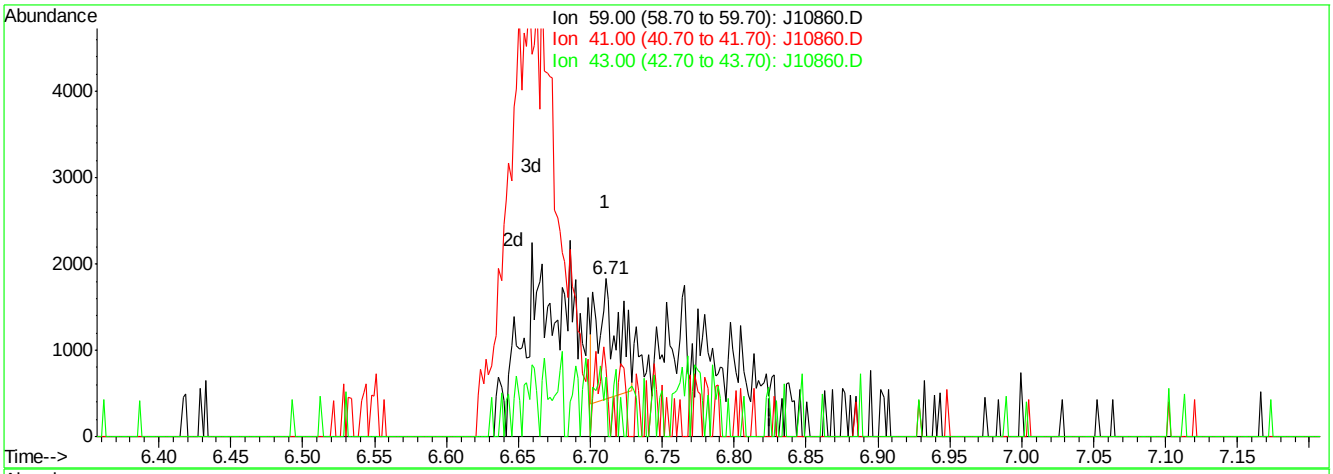
J10860.D J070507T.M Thu Jul 05 11:27:18 2007

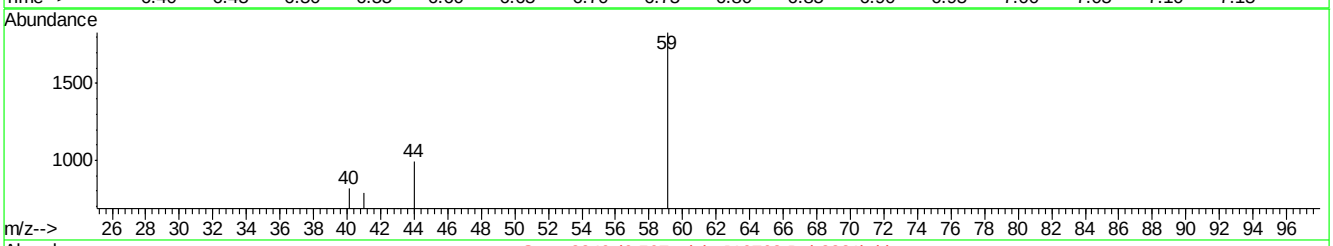
Quantitation Report (Qedit)

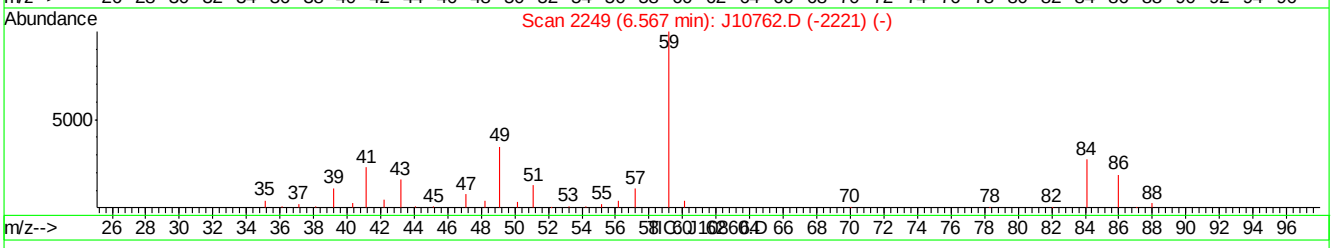
Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(22) TERTIARY BUTYL ALCOHOL (m)

6.71min 0.03PPBV

response 1343

| Ion | Exp% | Act% |
|---|---|---|
| 59.00 | 100 | 100 |
| 41.00 | 22.00 | 37.97 |
| 43.00 | 17.20 | 28.82 |
| 0.00 | 0.00 | 0.00 |

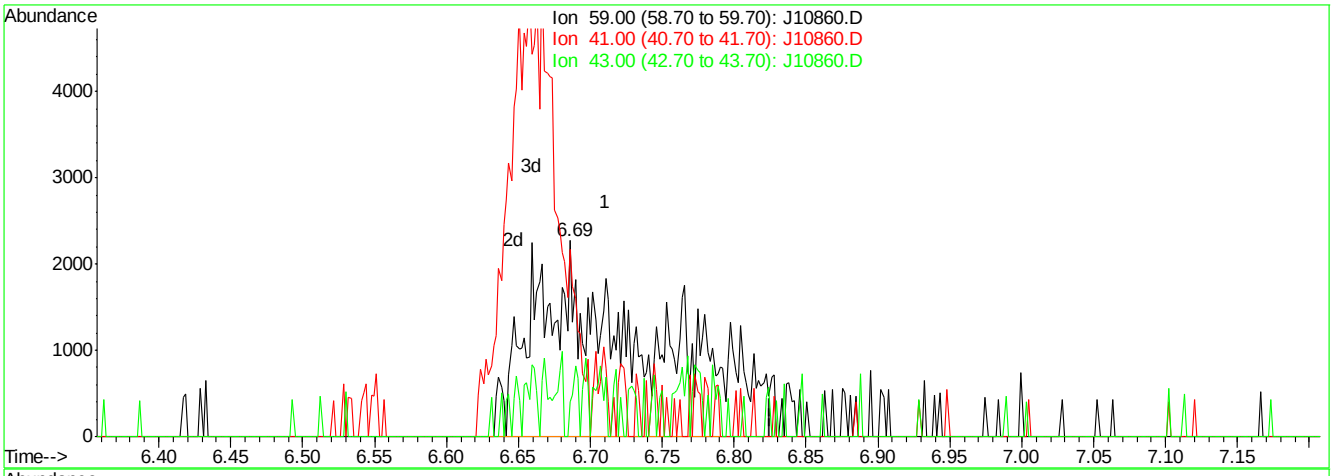
J10860.D J070507T.M Thu Jul 05 11:27:29 2007

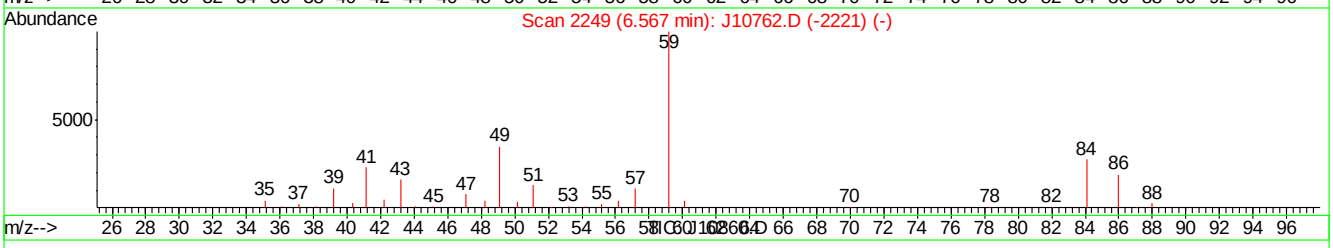
Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(22) TERTIARY BUTYL ALCOHOL (m)

6.69min 0.32PPBV m

response 12447

| Ion | Exp% | Act% |
|---|---|---|
| 59.00 | 100 | 100 |
| 41.00 | 22.00 | 4.10 |
| 43.00 | 17.20 | 3.11 |
| 0.00 | 0.00 | 0.00 |

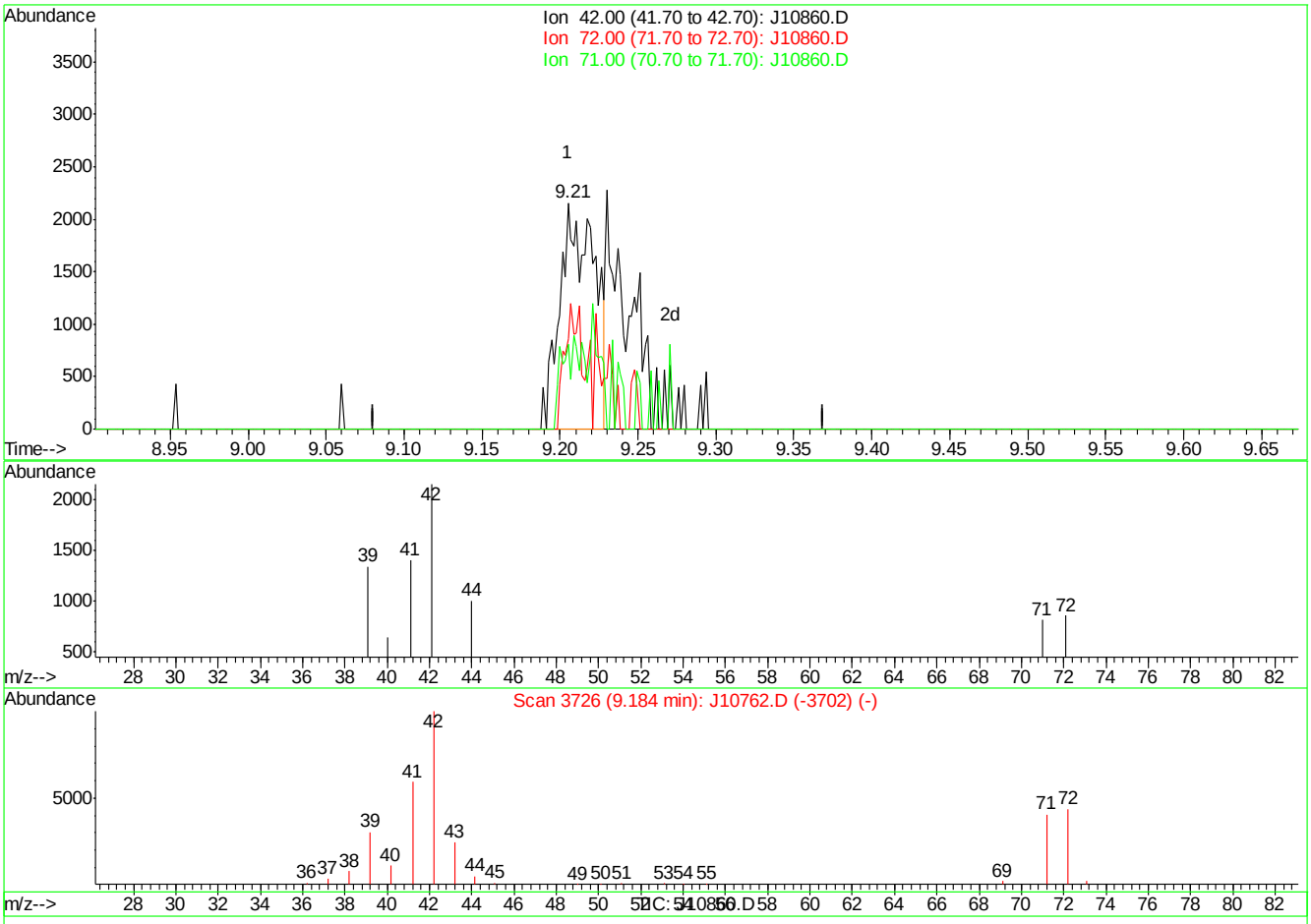
J10860.D J070507T.M Thu Jul 05 11:27:45 2007

Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(24) TETRAHYDROFURAN (m)

9.21min 0.19PPBV

response 3316

| Ion | Exp% | Act% |
|---|---|---|
| 42.00 | 100 | 100 |
| 72.00 | 46.60 | 29.98 |
| 71.00 | 46.70 | 12.03# |
| 0.00 | 0.00 | 0.00 |

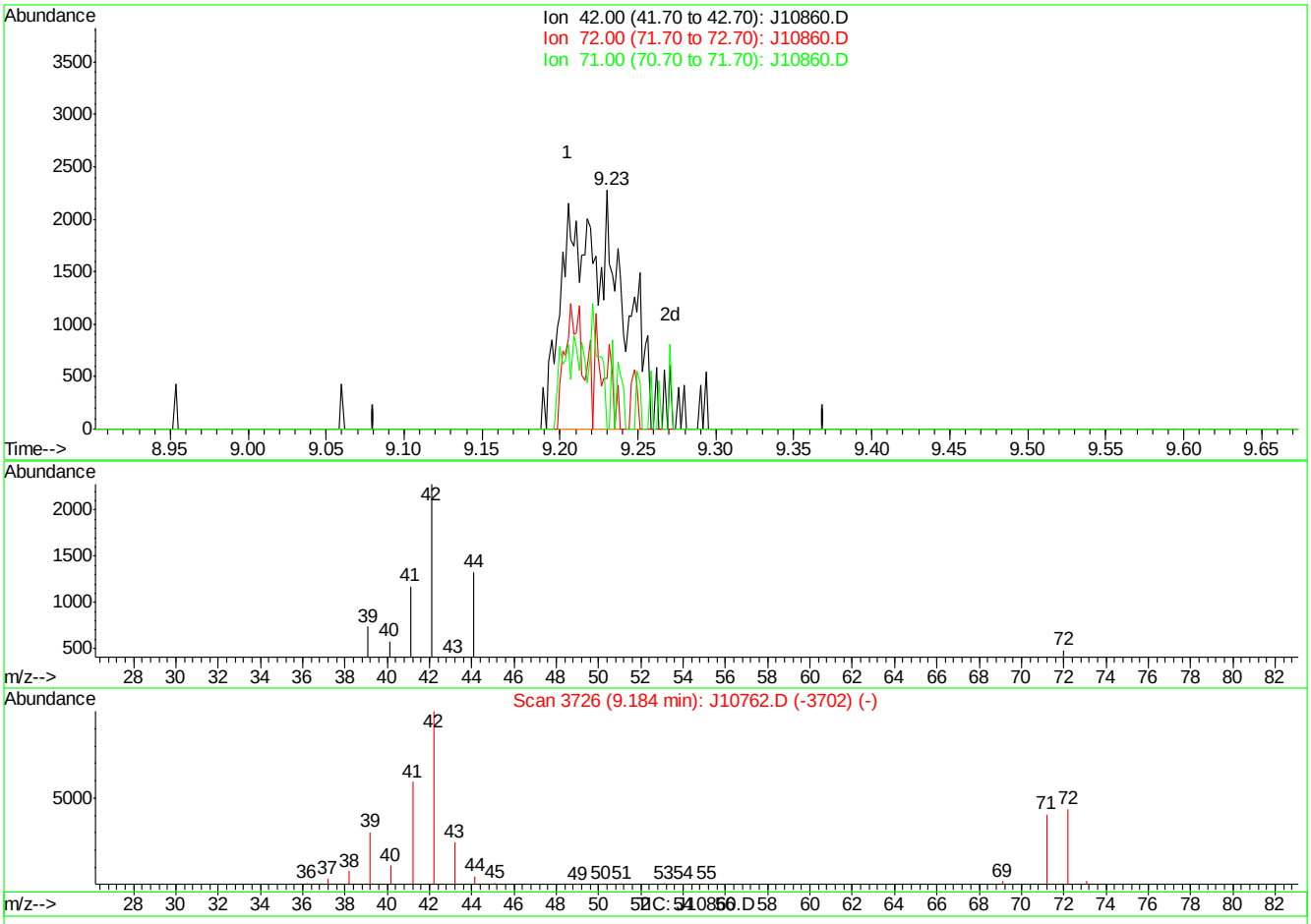
J10860.D J070507T.M Thu Jul 05 11:27:51 2007

Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(24) TETRAHYDROFURAN (m)

9.23min 0.30PPBV m

response 5371

| Ion | Exp% | Act% |
|---|---|---|
| 42.00 | 100 | 100 |
| 72.00 | 46.60 | 18.51# |
| 71.00 | 46.70 | 7.43# |
| 0.00 | 0.00 | 0.00 |

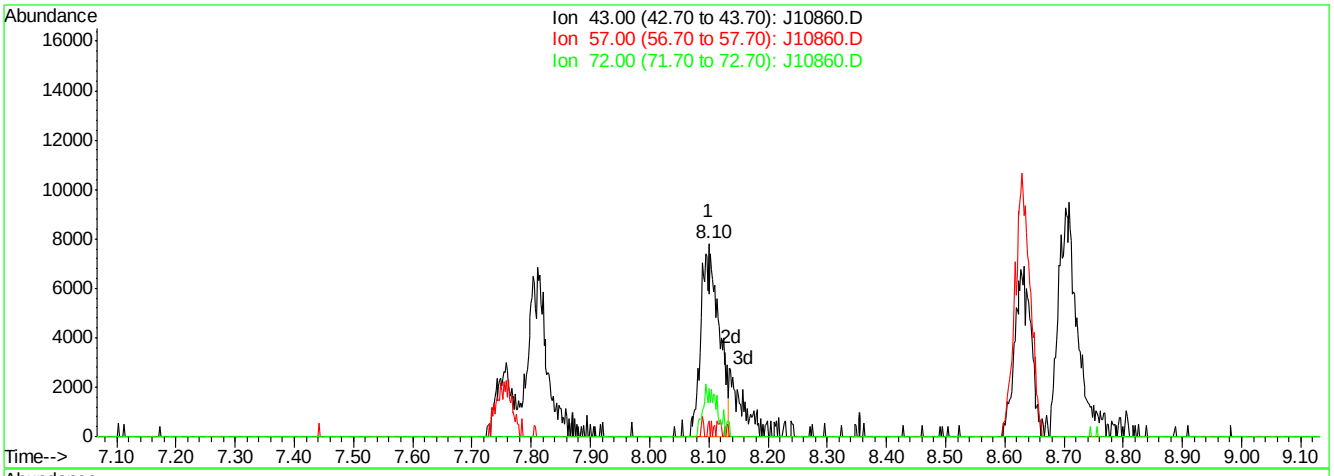
J10860.D J070507T.M Thu Jul 05 11:28:01 2007

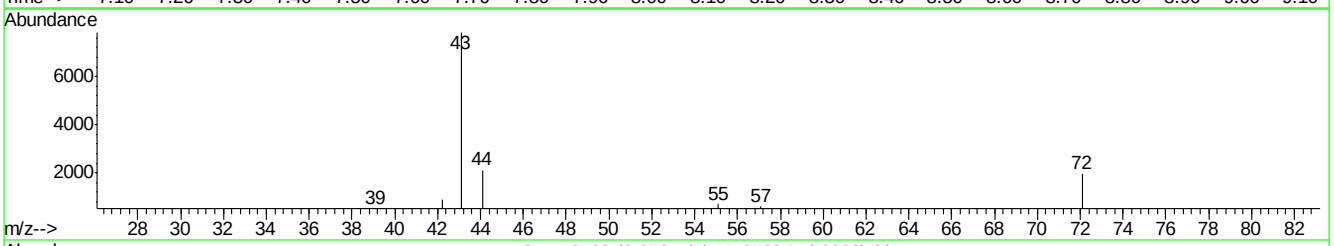
Quantitation Report (Qedit)

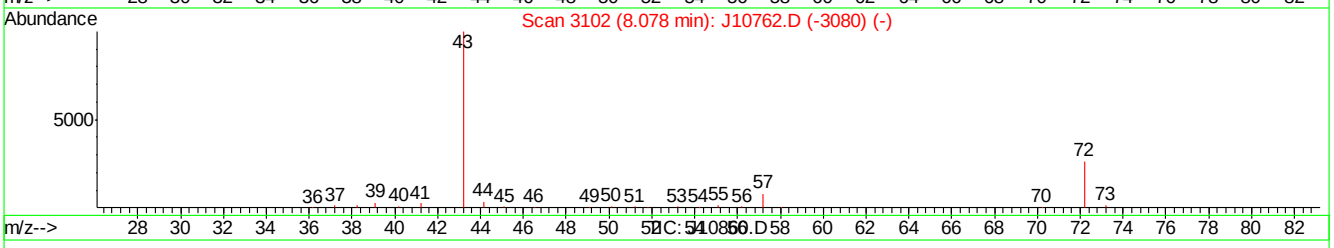
Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(28) METHYL ETHYL KETONE (m)

8.10min 0.44PPBV

response 16344

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 57.00 | 8.00 | 7.71 |
| 72.00 | 26.40 | 24.93 |
| 0.00 | 0.00 | 0.00 |

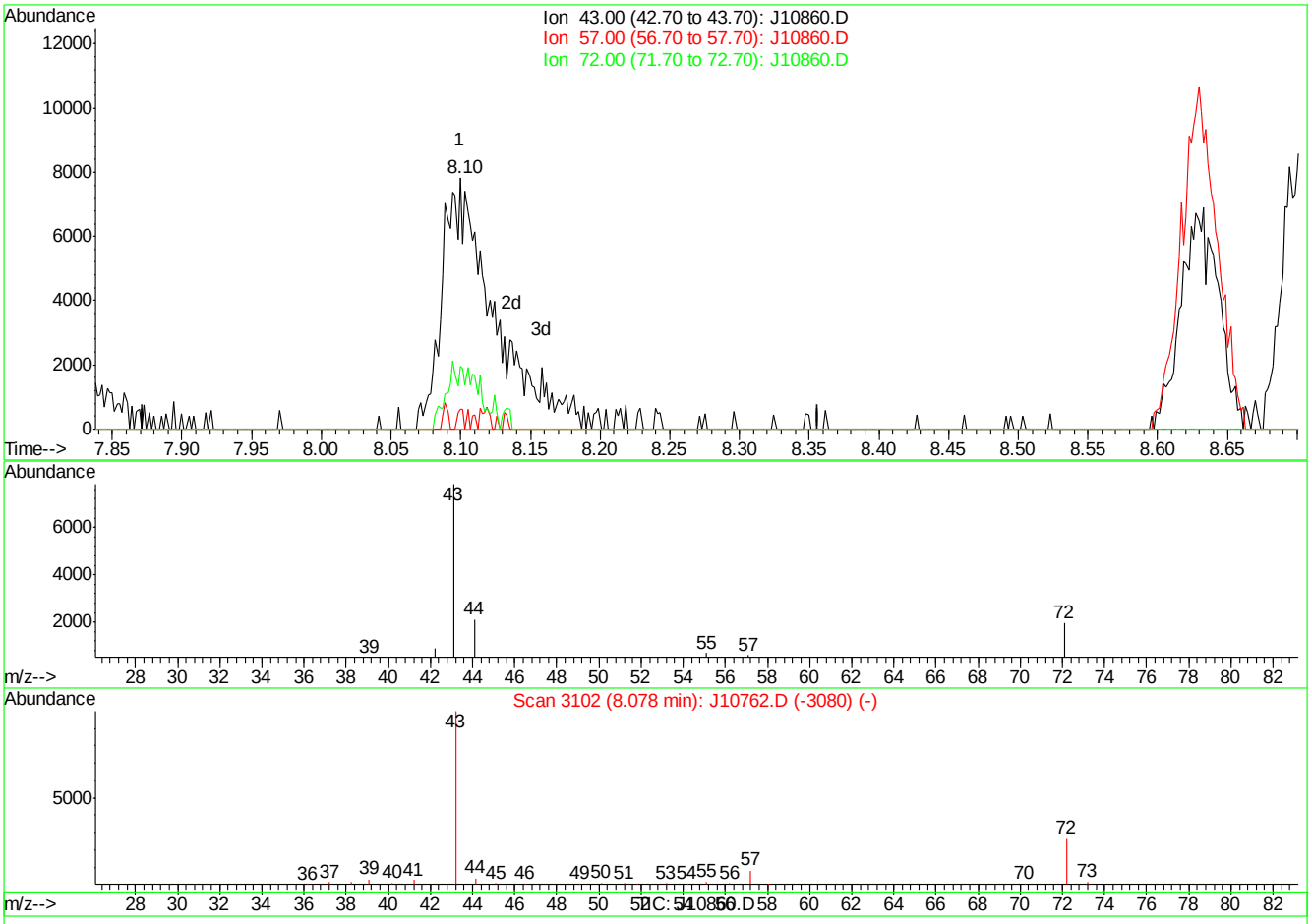
J10860.D J070507T.M Thu Jul 05 11:28:12 2007

Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(28) METHYL ETHYL KETONE (m)

8.10min 0.54PPBV m

response 20284

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 57.00 | 8.00 | 7.71 |
| 72.00 | 26.40 | 24.93 |
| 0.00 | 0.00 | 0.00 |

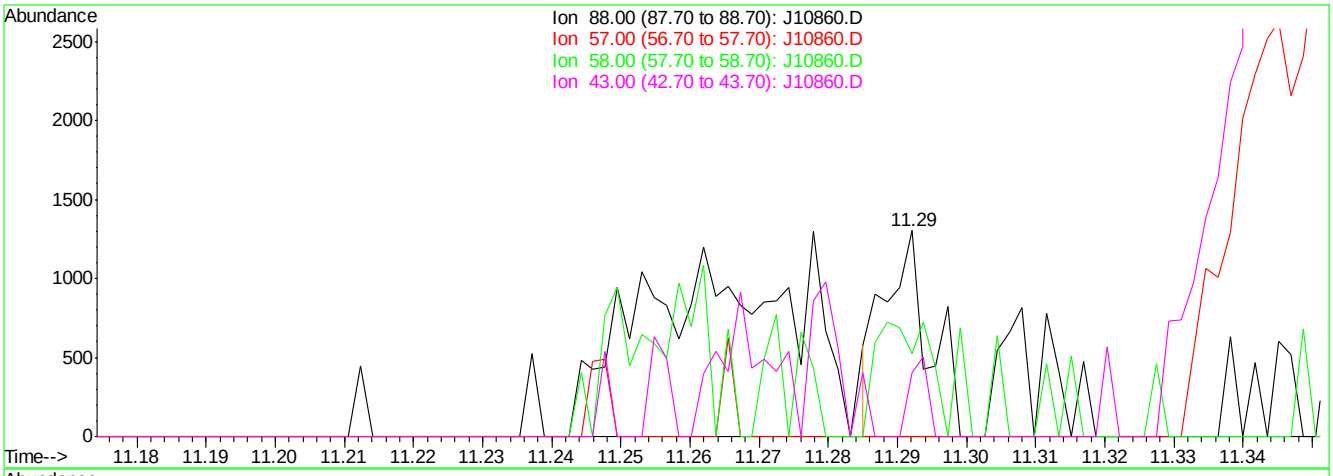
J10860.D J070507T.M Thu Jul 05 11:28:19 2007

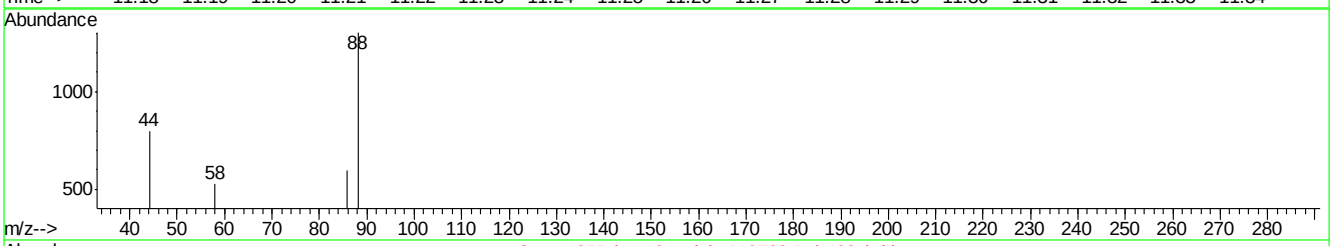
Quantitation Report (Qedit)

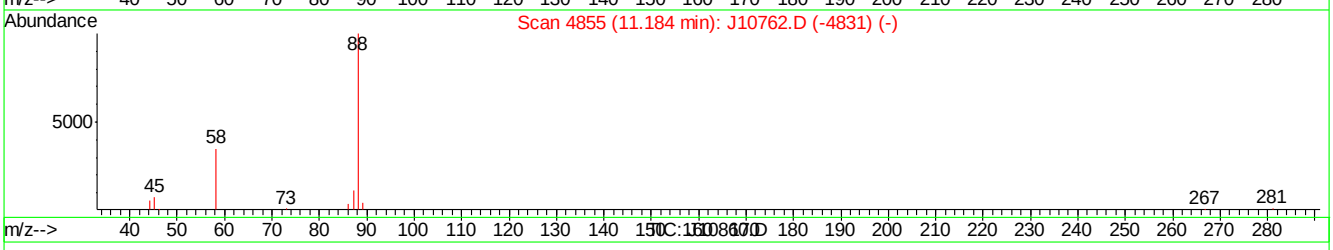
Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(42) 1,4-DIOXANE (m)

11.29min 0.05PPBV

response 606

| Ion | Exp% | Act% |
|---|---|---|
| 88.00 | 100 | 100 |
| 57.00 | 19.90 | 0.00 |
| 58.00 | 51.60 | 40.34 |
| 43.00 | 30.20 | 30.75 |

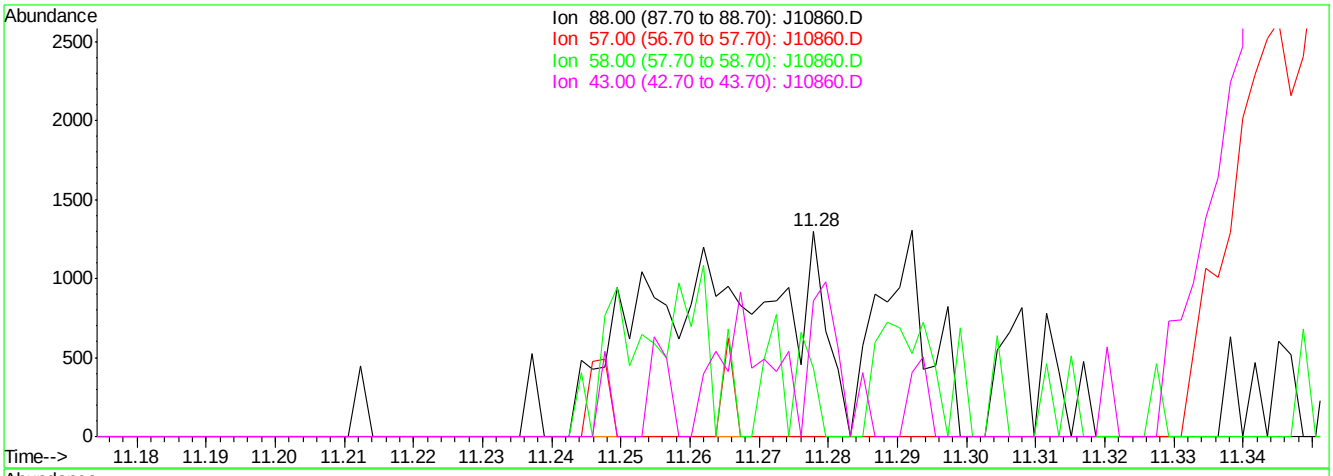
J10860.D J070507T.M Thu Jul 05 11:28:38 2007

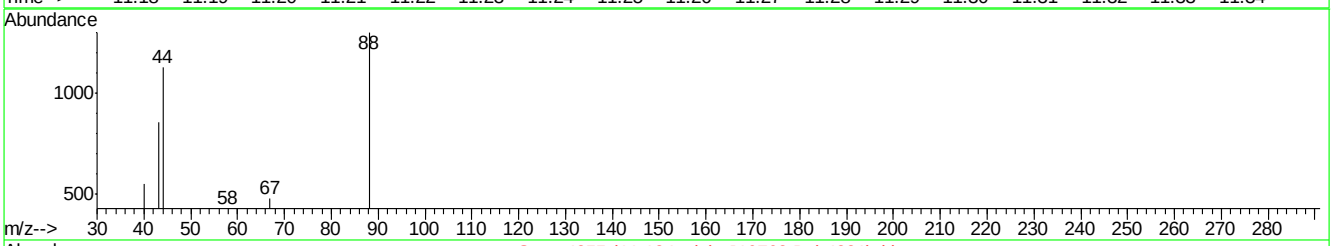
Quantitation Report (Qedit)

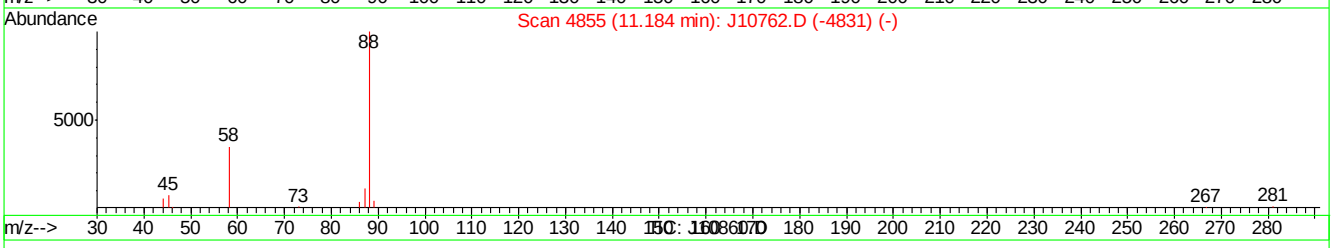
Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(42) 1,4-DIOXANE (m)

11.28min 0.16PPBV m

response 1834

| Ion | Exp% | Act% |
|---|---|---|
| 88.00 | 100 | 100 |
| 57.00 | 19.90 | 0.00 |
| 58.00 | 51.60 | 33.05 |
| 43.00 | 30.20 | 65.80# |

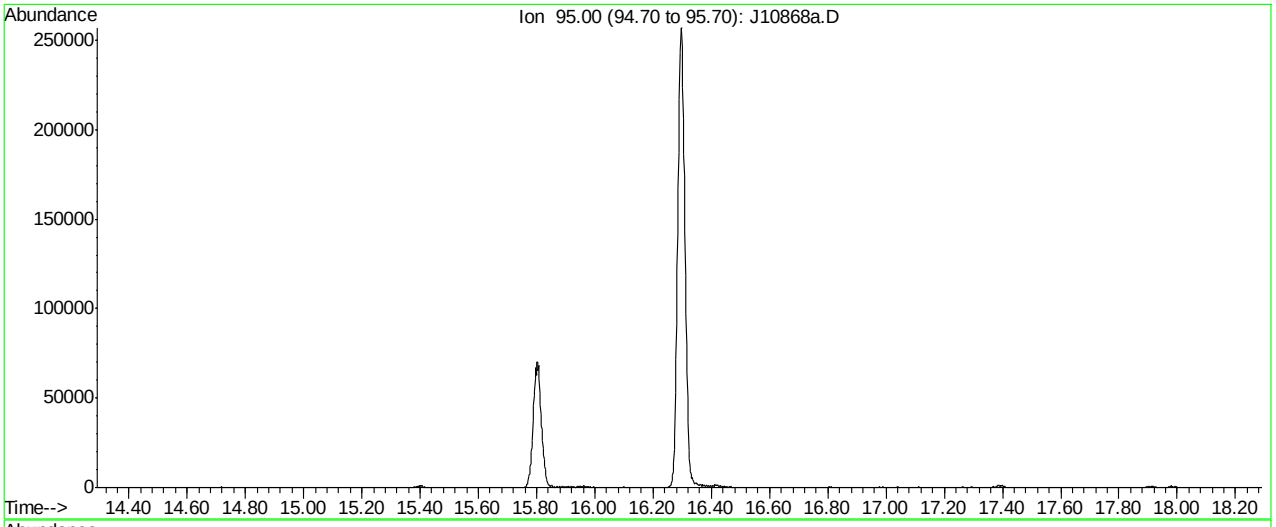
J10860.D J070507T.M Thu Jul 05 11:28:45 2007

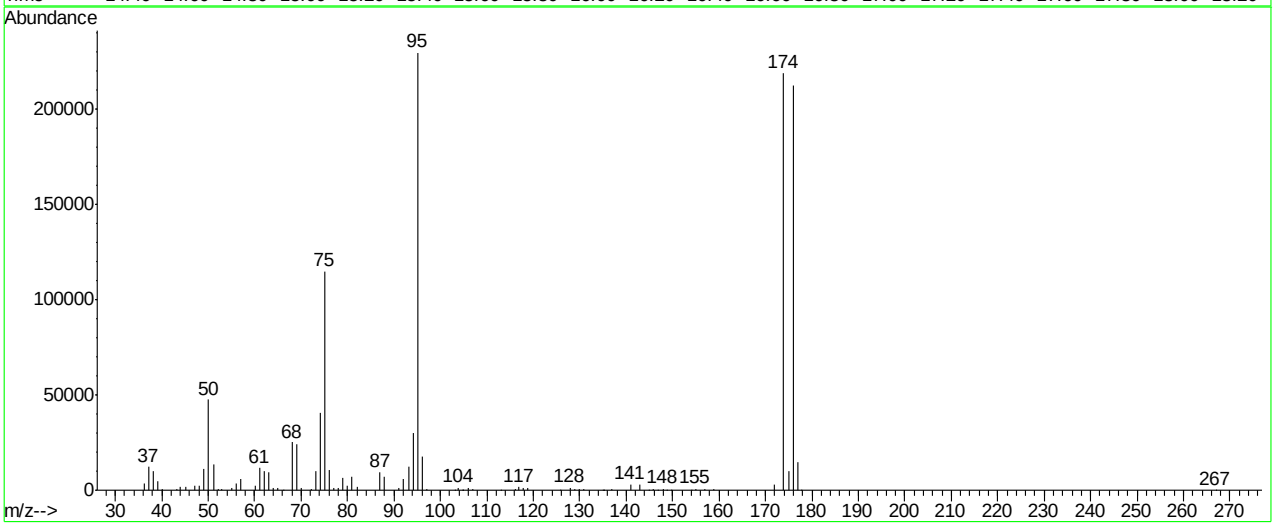
BFB

Data File : C:\MSDCHEM\1\DATA\J10868a.D
Acq On : 5 Jul 2007 5:56 pm
Sample : cc562-10 (M080)
Misc : MS13866, MSJ562,,,,,1
MS Integration Params: LSCINT.P

Vial: 3
Operator: danat
Inst : MSJ
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um




Spectrum Information: Average of 16.290 to 16.292 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 20.7 | 47380 | PASS |
| 75 | 95 | 30 | 66 | 50.0 | 114612 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 229440 | PASS |
| 96 | 95 | 5 | 9 | 7.7 | 17680 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 95.3 | 218688 | PASS |
| 175 | 174 | 4 | 9 | 4.6 | 10052 | PASS |
| 176 | 174 | 93 | 101 | 97.0 | 212064 | PASS |
| 177 | 176 | 5 | 9 | 6.9 | 14698 | PASS |

J10868a.D J070507T.M Fri Jul 06 11:26:31 2007

Average of 16.290 to 16.292 min.: J10868a.D
cc562-10 (M080)

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.15 | 3412 | 50.10 | 47380 | 64.10 | 1260 | 77.00 | 1335 |
| 37.10 | 12154 | 51.10 | 13643 | 65.05 | 1321 | 78.10 | 1201 |
| 38.10 | 9970 | 52.10 | 799 | 66.10 | 239 | 79.00 | 6707 |
| 39.10 | 4941 | 53.00 | 331 | 68.10 | 25036 | 80.00 | 2589 |
| 40.00 | 472 | 55.10 | 1054 | 69.10 | 24384 | 80.95 | 7251 |
| 43.20 | 337 | 56.10 | 3487 | 70.05 | 1293 | 82.00 | 1822 |
| 44.00 | 1650 | 57.05 | 5956 | 72.10 | 687 | 87.00 | 9525 |
| 45.15 | 1794 | 60.10 | 2355 | 73.10 | 10139 | 88.00 | 6804 |
| 47.10 | 2337 | 61.10 | 11658 | 74.10 | 40736 | 91.00 | 1284 |
| 48.10 | 2127 | 62.10 | 10203 | 75.10 | 114612 | 92.05 | 6187 |
| 49.10 | 10942 | 63.10 | 9563 | 76.10 | 10554 | 93.10 | 12261 |

Average of 16.290 to 16.292 min.: J10868a.D
cc562-10 (M080)

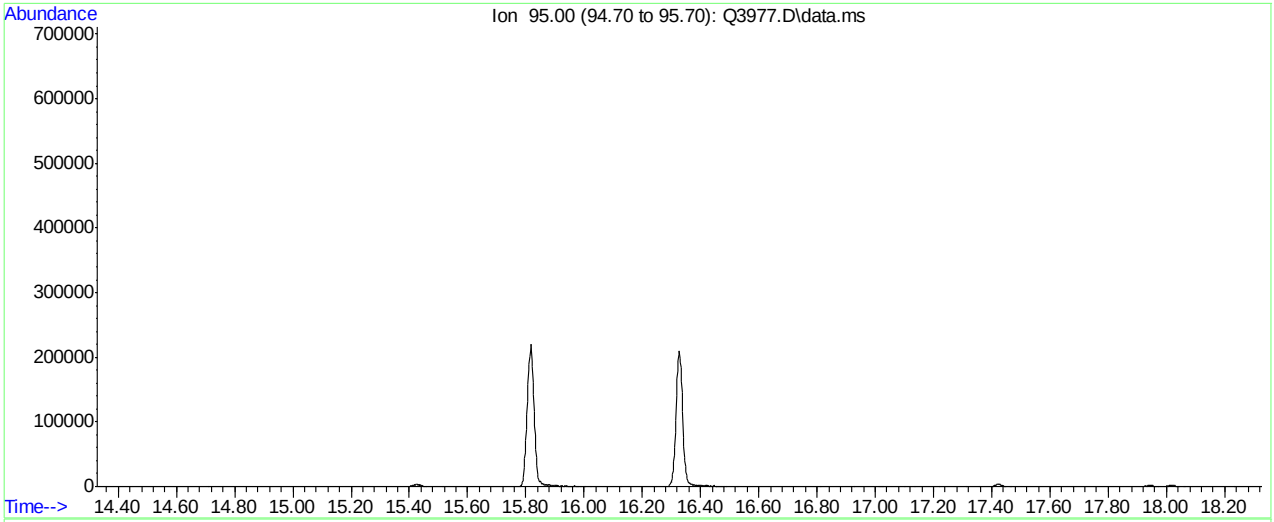
| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 94.15 | 30008 | 116.05 | 885 | 136.85 | 497 | 156.95 | 541 |
| 95.10 | 229440 | 116.95 | 1589 | 140.90 | 3098 | 158.85 | 689 |
| 96.10 | 17680 | 117.90 | 1222 | 142.90 | 2899 | 171.90 | 2894 |
| 97.10 | 647 | 118.90 | 1290 | 144.90 | 309 | 173.90 | 218688 |
| 103.00 | 232 | 125.90 | 212 | 145.80 | 383 | 175.00 | 10052 |
| 103.90 | 1206 | 127.90 | 1322 | 146.90 | 286 | 175.90 | 212064 |
| 104.70 | 279 | 128.90 | 337 | 147.90 | 730 | 176.90 | 14698 |
| 104.90 | 298 | 129.85 | 840 | 148.80 | 255 | 177.70 | 204 |
| 105.95 | 1122 | 130.80 | 323 | 149.80 | 228 | 266.90 | 223 |
| 107.00 | 339 | 134.90 | 216 | 154.10 | 200 | | |
| 113.10 | 223 | 135.20 | 305 | 154.90 | 748 | | |

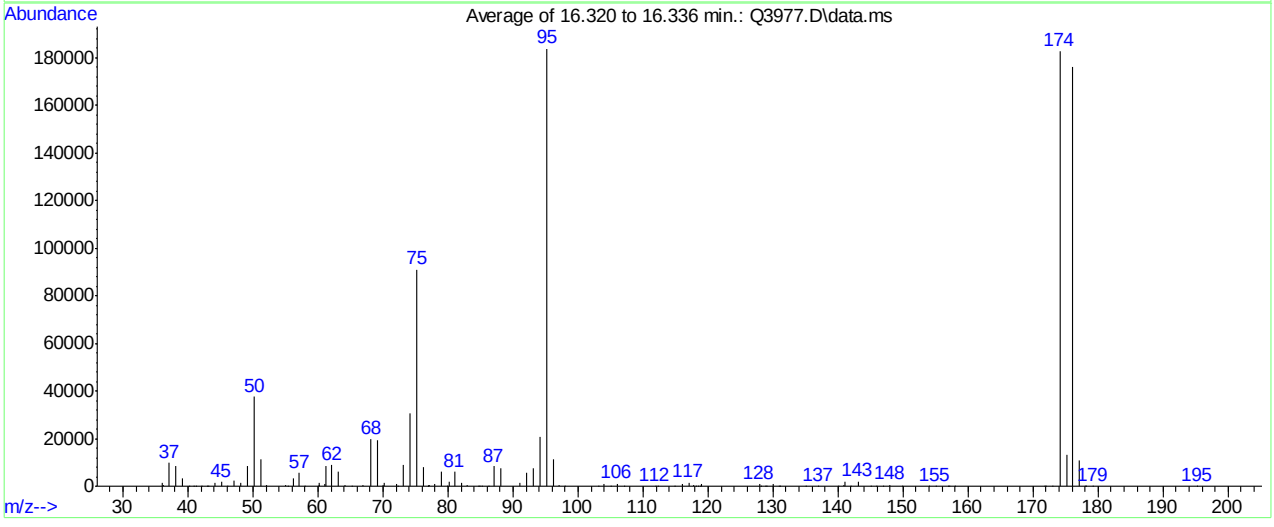
BFB

Data File : C:\msdchem\1\DATA\Q3977.D
Acq On : 16 Jul 2007 4:53 pm
Sample : ic214-40 (M211)
Misc : MS13893, MSQ214,,,,,1
MS Integration Params: LSCINT.P

Vial: 2
Operator: danat
Inst : MAMSQ
Multiplr: 1.00

Method : C:\msdchem\1\METHODS\Q071607T.m (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um




Spectrum Information: Average of 16.320 to 16.336 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 20.4 | 37567 | PASS |
| 75 | 95 | 30 | 66 | 49.5 | 91035 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 183833 | PASS |
| 96 | 95 | 5 | 9 | 6.2 | 11307 | PASS |
| 173 | 174 | 0.00 | 2 | 0.1 | 121 | PASS |
| 174 | 95 | 50 | 120 | 99.4 | 182726 | PASS |
| 175 | 174 | 4 | 9 | 7.1 | 12997 | PASS |
| 176 | 174 | 93 | 101 | 96.4 | 176070 | PASS |
| 177 | 176 | 5 | 9 | 6.2 | 10865 | PASS |

Q3977.D Q071607T.m Tue Jul 17 13:57:03 2007 RPT1

Average of 16.320 to 16.336 min.: Q3977.D\data.ms
ic214-40 (M211)

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.05 | 1539 | 44.10 | 1650 | 56.15 | 3334 | 66.95 | 389 |
| 36.25 | 638 | 45.10 | 1695 | 57.15 | 5515 | 68.15 | 19877 |
| 37.15 | 9767 | 46.00 | 43 | 58.00 | 104 | 69.15 | 19215 |
| 38.15 | 8446 | 47.05 | 2291 | 60.10 | 1633 | 70.00 | 317 |
| 39.15 | 3266 | 48.20 | 1408 | 60.25 | 354 | 70.15 | 1214 |
| 40.10 | 174 | 49.20 | 8260 | 61.00 | 902 | 72.05 | 1055 |
| 40.95 | 212 | 50.20 | 37567 | 61.20 | 8680 | 72.30 | 89 |
| 41.20 | 56 | 51.15 | 11197 | 62.15 | 8847 | 73.15 | 9174 |
| 42.10 | 55 | 52.10 | 424 | 63.15 | 6276 | 74.15 | 30679 |
| 42.90 | 74 | 55.05 | 619 | 64.10 | 547 | 75.20 | 91035 |
| 43.15 | 201 | 55.30 | 80 | 65.15 | 87 | 76.15 | 8037 |

Average of 16.320 to 16.336 min.: Q3977.D\data.ms
ic214-40 (M211)

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 76.90 | 137 | 84.90 | 47 | 97.05 | 366 | 117.00 | 1624 |
| 77.00 | 498 | 85.20 | 50 | 98.00 | 40 | 117.85 | 392 |
| 77.15 | 699 | 86.15 | 193 | 103.05 | 95 | 118.05 | 237 |
| 78.00 | 899 | 87.05 | 8285 | 104.00 | 904 | 118.40 | 45 |
| 79.05 | 6028 | 88.10 | 7567 | 105.05 | 182 | 118.80 | 160 |
| 79.80 | 171 | 91.10 | 1322 | 106.00 | 1104 | 119.00 | 912 |
| 80.10 | 1742 | 92.15 | 5695 | 107.05 | 236 | 127.95 | 748 |
| 81.05 | 5959 | 93.15 | 7504 | 111.90 | 76 | 128.15 | 154 |
| 82.00 | 1626 | 94.15 | 20668 | 112.30 | 51 | 128.80 | 43 |
| 83.00 | 433 | 95.20 | 183833 | 114.90 | 171 | 129.00 | 58 |
| 84.70 | 43 | 96.15 | 11307 | 116.00 | 799 | 129.95 | 739 |

Average of 16.320 to 16.336 min.: Q3977.D\data.ms
ic214-40 (M211)

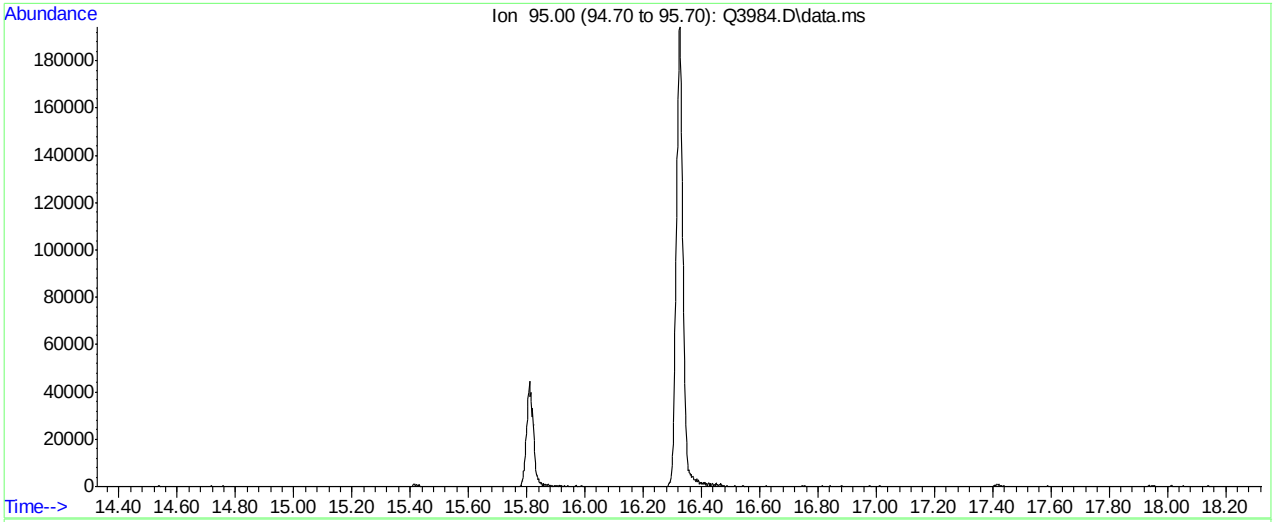
| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 130.80 | 80 | 146.90 | 201 | 174.10 | 182726 | | |
| 131.05 | 107 | 148.00 | 488 | 175.15 | 12997 | | |
| 135.00 | 96 | 149.90 | 43 | 176.10 | 176070 | | |
| 137.00 | 139 | 153.95 | 121 | 177.05 | 10865 | | |
| 140.00 | 44 | 155.00 | 253 | 177.90 | 161 | | |
| 140.85 | 326 | 156.85 | 91 | 178.20 | 40 | | |
| 141.10 | 1680 | 157.15 | 238 | 179.20 | 44 | | |
| 141.95 | 141 | 158.00 | 56 | 195.20 | 53 | | |
| 143.05 | 1907 | 171.80 | 40 | | | | |
| 145.00 | 41 | 172.00 | 68 | | | | |
| 145.90 | 49 | 173.00 | 121 | | | | |

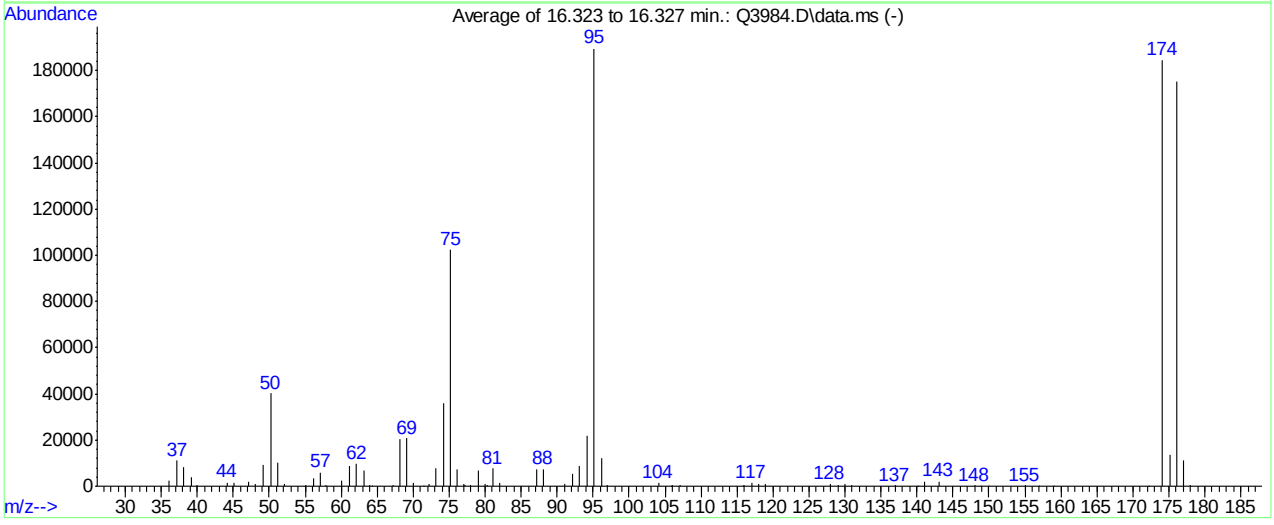
BFB

Data File : C:\msdchem\1\DATA\Q3984.D
Acq On : 17 Jul 2007 8:45 am
Sample : icv214-10 (M209)
Misc : MS13893, MSQ214,,,,,1
MS Integration Params: LSCINT.P

Vial: 3
Operator: danat
Inst : MAMSQ
Multiplr: 1.00

Method : C:\msdchem\1\METHODS\Q071607T.m (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um




AutoFind: Scans 7741, 7742, 7743; Background Corrected with Scan 7716

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 21.2 | 40213 | PASS |
| 75 | 95 | 30 | 66 | 54.0 | 102322 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 189568 | PASS |
| 96 | 95 | 5 | 9 | 6.5 | 12344 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 97.3 | 184490 | PASS |
| 175 | 174 | 4 | 9 | 7.5 | 13823 | PASS |
| 176 | 174 | 93 | 101 | 95.0 | 175296 | PASS |
| 177 | 176 | 5 | 9 | 6.5 | 11417 | PASS |

Q3984.D Q071607T.m Tue Jul 17 14:02:49 2007 RPT1

Average of 16.323 to 16.327 min.: Q3984.D\data.ms
icv214-10 (M209)
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.10 | 2457 | 51.10 | 10417 | 64.20 | 143 | 77.00 | 859 |
| 37.20 | 11108 | 52.15 | 913 | 67.15 | 495 | 77.20 | 540 |
| 38.15 | 8382 | 55.00 | 705 | 68.15 | 20629 | 77.95 | 596 |
| 39.15 | 3712 | 56.15 | 3439 | 69.15 | 20818 | 79.05 | 6665 |
| 40.00 | 483 | 57.15 | 5953 | 70.05 | 1666 | 80.00 | 974 |
| 44.15 | 1587 | 57.90 | 392 | 71.50 | 146 | 80.30 | 610 |
| 45.15 | 1573 | 60.05 | 2223 | 72.15 | 1022 | 81.05 | 7695 |
| 47.05 | 1862 | 61.10 | 8762 | 73.15 | 7990 | 82.00 | 1365 |
| 48.00 | 1178 | 62.15 | 9532 | 74.20 | 35784 | 87.10 | 7363 |
| 49.15 | 9366 | 63.15 | 6741 | 75.20 | 102322 | 88.05 | 7408 |
| 50.20 | 40213 | 64.00 | 563 | 76.15 | 7416 | 91.00 | 1094 |

Average of 16.323 to 16.327 min.: Q3984.D\data.ms
icv214-10 (M209)
Modified:subtracted

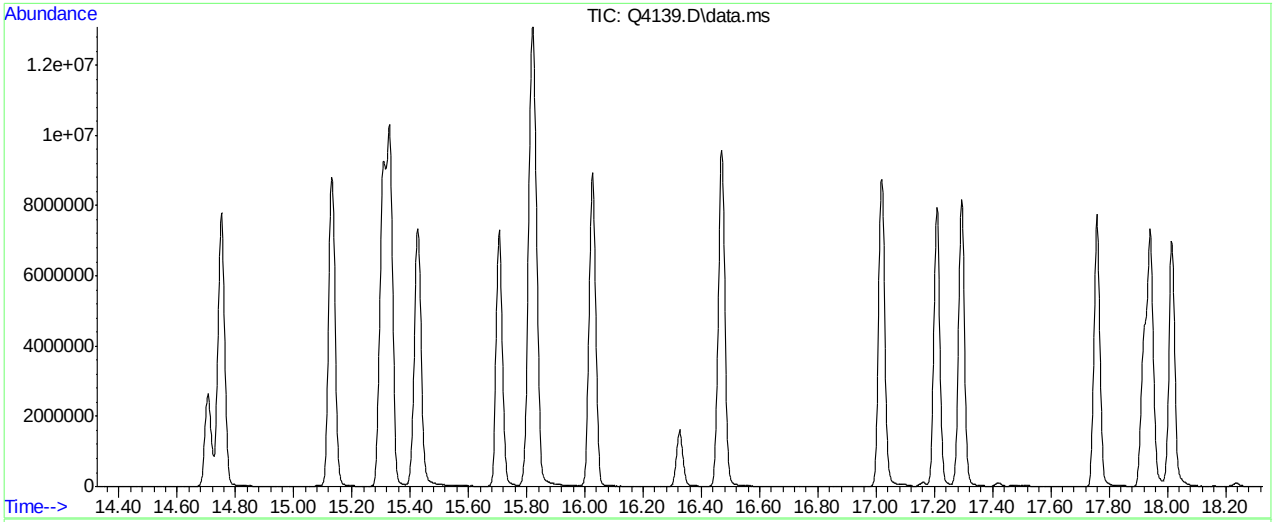
| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 92.15 | 5150 | 115.95 | 488 | 143.05 | 2110 | 177.10 | 11417 |
| 93.15 | 8533 | 117.00 | 1303 | 148.05 | 364 | 177.95 | 380 |
| 94.15 | 21933 | 118.00 | 749 | 148.90 | 227 | | |
| 95.15 | 189568 | 119.00 | 1084 | 150.00 | 157 | | |
| 96.15 | 12344 | 127.95 | 866 | 155.00 | 482 | | |
| 97.05 | 403 | 129.00 | 646 | 156.90 | 136 | | |
| 104.10 | 1316 | 129.95 | 774 | 158.90 | 208 | | |
| 105.80 | 210 | 131.00 | 299 | 172.20 | 214 | | |
| 106.05 | 667 | 136.95 | 476 | 174.10 | 184490 | | |
| 107.05 | 383 | 140.10 | 134 | 175.10 | 13823 | | |
| 115.80 | 226 | 141.05 | 1809 | 176.10 | 175296 | | |

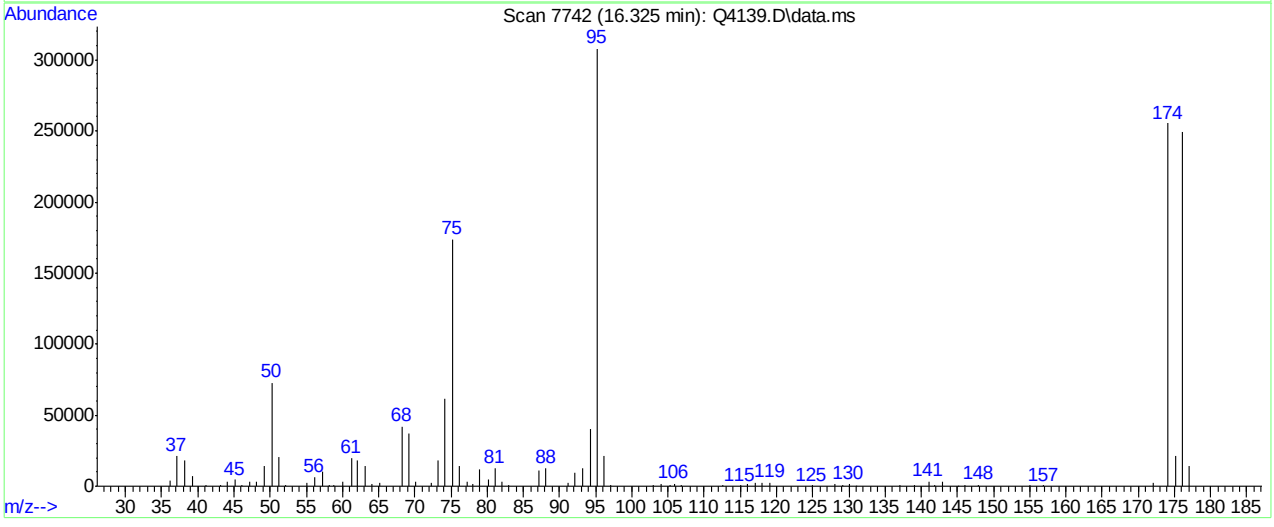
BFB

Data File : C:\msdchem\1\DATA\Q4139.D
Acq On : 27 Jul 2007 12:17 pm
Sample : ic220-40 (M168)
Misc : MS13975, MSQ220,,,,,1
MS Integration Params: LSCINT.P

Vial: 4
Operator: danat
Inst : MAMSQ
Multiplr: 1.00

Method : C:\msdchem\1\METHODS\Q072707T.m (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um




Spectrum Information: Scan 7742

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 23.6 | 72640 | PASS |
| 75 | 95 | 30 | 66 | 56.5 | 173952 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 308096 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 21032 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 82.9 | 255424 | PASS |
| 175 | 174 | 4 | 9 | 8.2 | 21024 | PASS |
| 176 | 174 | 93 | 101 | 97.6 | 249280 | PASS |
| 177 | 176 | 5 | 9 | 5.7 | 14200 | PASS |

Q4139.D Q072707T.m Wed Aug 01 10:03:26 2007 RPT1

Scan 7742 (16.325 min): Q4139.D\data.ms
ic220-40 (M168)

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.10 | 4089 | 49.20 | 14540 | 62.10 | 17904 | 76.20 | 14283 |
| 37.10 | 21216 | 50.20 | 72640 | 63.20 | 13904 | 77.20 | 3460 |
| 38.20 | 18296 | 51.20 | 20480 | 64.10 | 1619 | 78.00 | 1630 |
| 39.20 | 7218 | 52.20 | 854 | 65.20 | 2015 | 79.00 | 12005 |
| 41.10 | 732 | 55.00 | 2188 | 68.20 | 42008 | 80.10 | 4681 |
| 43.10 | 709 | 56.10 | 6657 | 69.20 | 36872 | 81.10 | 12810 |
| 44.10 | 3387 | 57.20 | 9984 | 70.10 | 3166 | 82.00 | 3049 |
| 45.10 | 4395 | 58.20 | 541 | 72.20 | 2764 | 83.00 | 715 |
| 46.10 | 433 | 58.80 | 529 | 73.20 | 18424 | 87.10 | 11245 |
| 47.10 | 2903 | 60.10 | 3505 | 74.20 | 61440 | 88.10 | 12634 |
| 48.10 | 3312 | 61.20 | 19784 | 75.20 | 173952 | 91.10 | 2488 |

Scan 7742 (16.325 min): Q4139.D\data.ms
ic220-40 (M168)

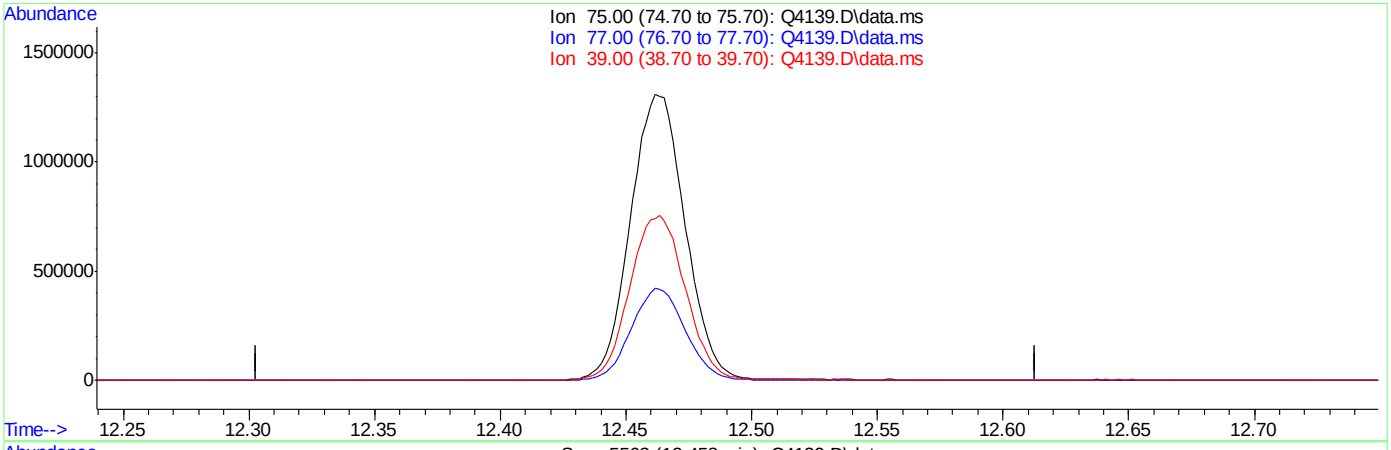
| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 92.10 | 9881 | 112.60 | 456 | 137.10 | 1134 | 174.10 | 255424 |
| 93.20 | 13024 | 115.00 | 597 | 139.10 | 449 | 175.10 | 21024 |
| 94.20 | 40200 | 116.00 | 1356 | 141.00 | 3495 | 176.10 | 249280 |
| 95.20 | 308096 | 117.00 | 2247 | 141.90 | 1045 | 177.10 | 14200 |
| 96.10 | 21032 | 118.00 | 2210 | 143.00 | 3182 | | |
| 97.00 | 453 | 119.10 | 2707 | 145.10 | 400 | | |
| 103.00 | 570 | 124.90 | 741 | 146.00 | 725 | | |
| 104.10 | 1534 | 128.10 | 1414 | 147.90 | 859 | | |
| 105.30 | 629 | 129.10 | 790 | 155.00 | 650 | | |
| 105.90 | 1974 | 130.00 | 1512 | 156.90 | 664 | | |
| 106.80 | 450 | 131.00 | 408 | 172.00 | 2051 | | |

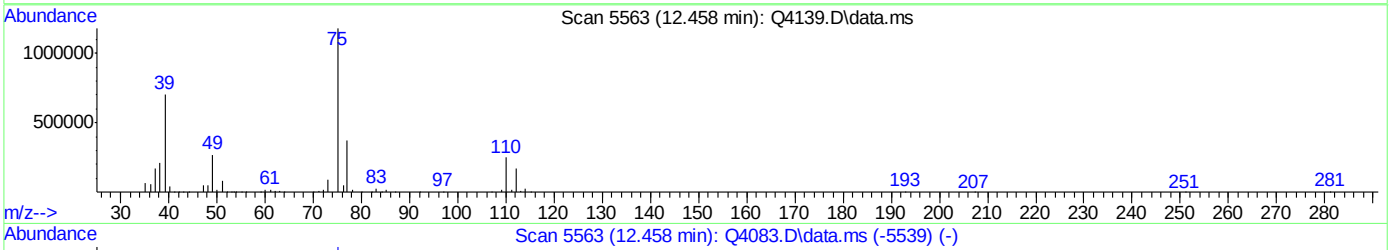
Quantitation Report (Qedit)

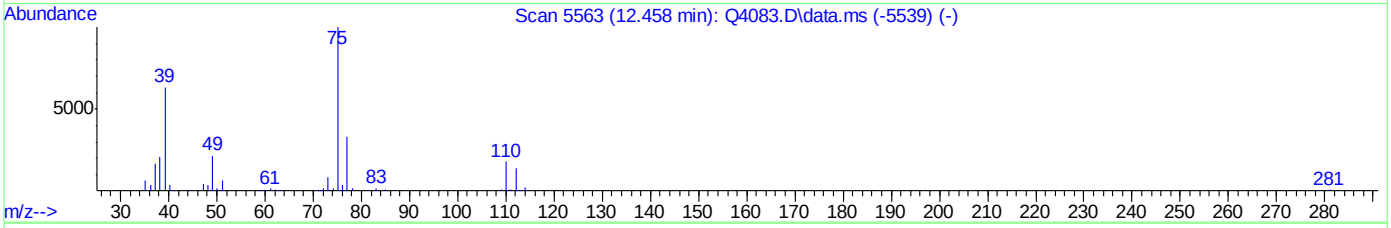
Data Path : C:\msdchem\1\DATA\
Data File : Q4139.D
Acq On : 27 Jul 2007 12:17 pm
Operator : danat
Sample : ic220-40 (M168)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 12:42:16 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 11:38:44 2007
Response via : Initial Calibration






TIC: Q4139.D\data.ms

(47) trans-1,3-DICHLOROPROPENE (m)

12.458min (-12.458) 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 75.00 | 100 | 0.00 |
| 77.00 | 30.90 | 0.00# |
| 39.00 | 62.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |



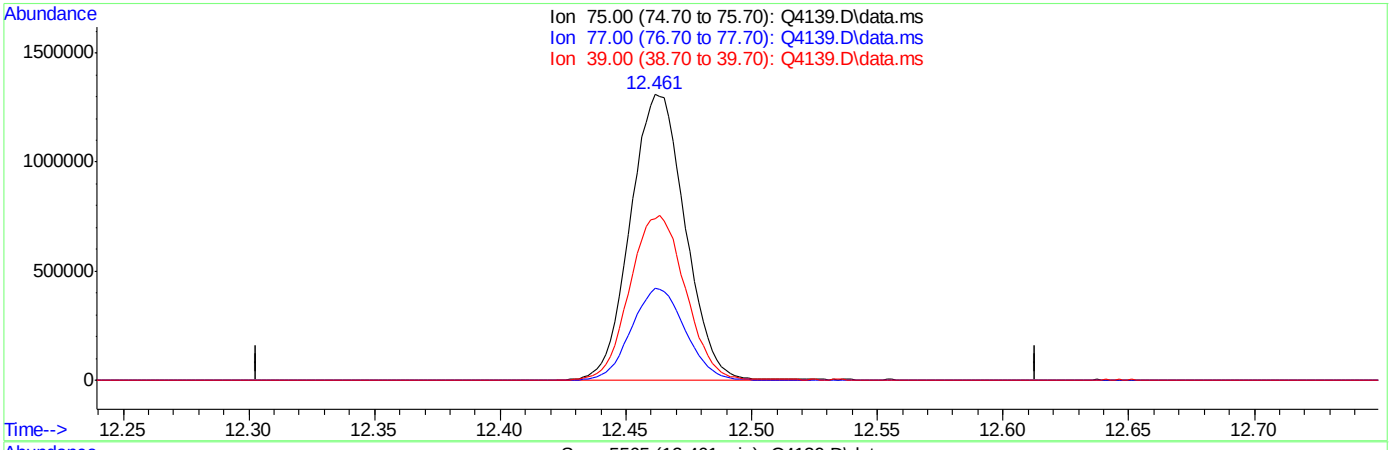
ACCUTEST Laboratories M66578

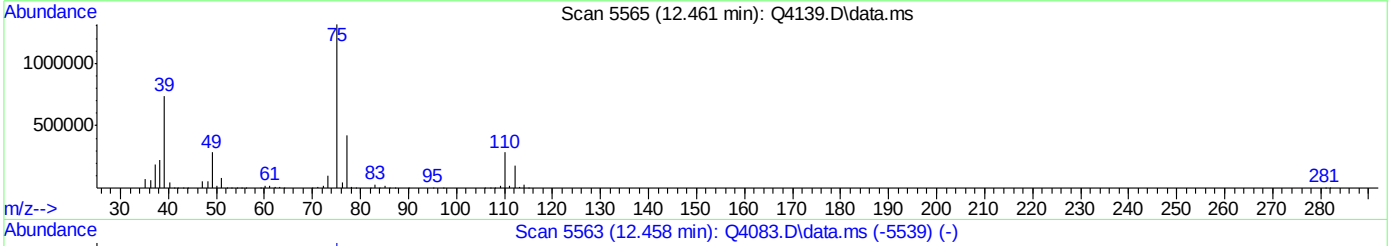
Quantitation Report (Qedit)

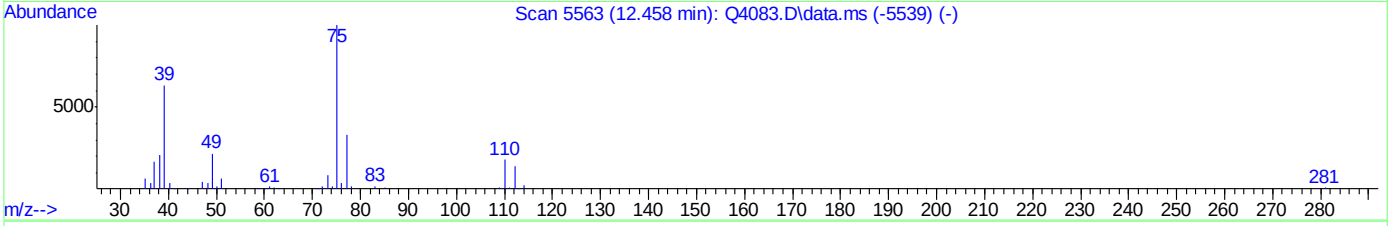
Data Path : C:\msdchem\1\DATA\
Data File : Q4139.D
Acq On : 27 Jul 2007 12:17 pm
Operator : danat
Sample : ic220-40 (M168)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 12:42:16 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 11:38:44 2007
Response via : Initial Calibration






TIC: Q4139.D\data.ms

(47) trans-1,3-DICHLOROPROPENE (m)

12.461min (+0.003) 60.75PPBV m

response 1999718

| Ion | Exp% | Act% |
|---|---|---|
| 75.00 | 100 | 100 |
| 77.00 | 30.90 | 0.00# |
| 39.00 | 62.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |



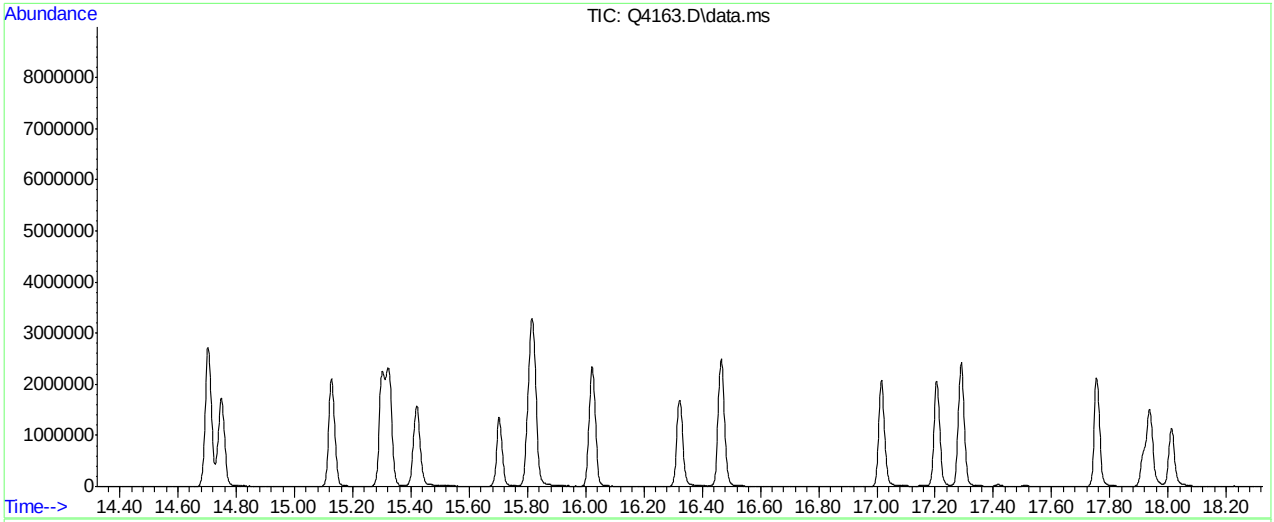
ACCUTEST Laboratories M66578

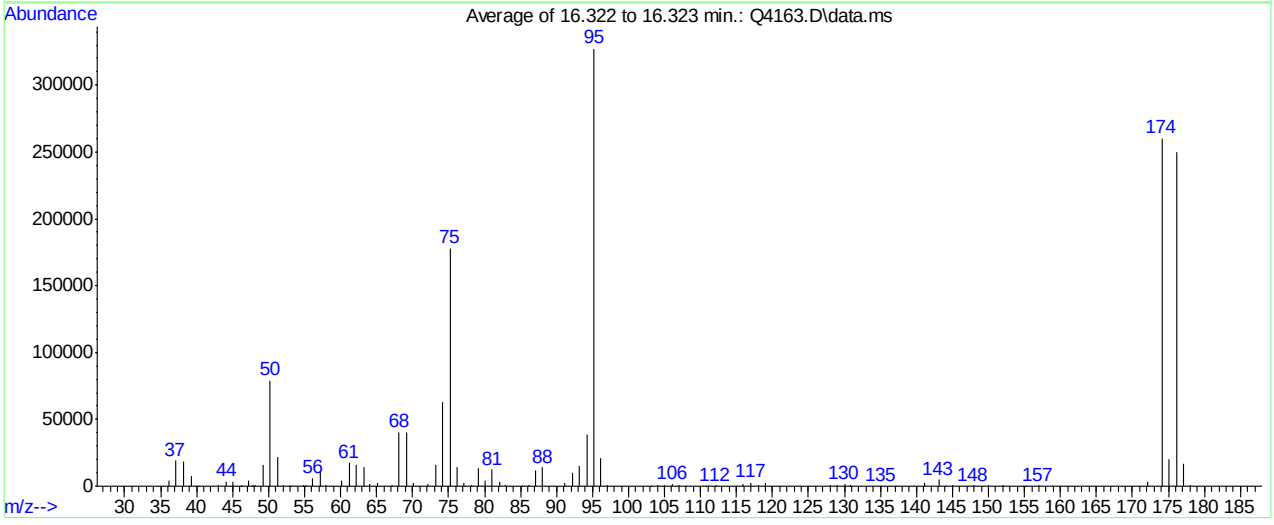
BFB

Data File : C:\msdchem\1\DATA\Q4163.D
Acq On : 1 Aug 2007 11:54 am
Sample : CC220-10 (M069)
Misc : MS14034, MSQ221,,,,,1
MS Integration Params: LSCINT.P

Vial: 1
Operator: danat
Inst : MAMSQ
Multiplr: 1.00

Method : C:\msdchem\1\METHODS\Q072707T.m (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um




Spectrum Information: Average of 16.322 to 16.323 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 24.1 | 78900 | PASS |
| 75 | 95 | 30 | 66 | 54.4 | 178080 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 327456 | PASS |
| 96 | 95 | 5 | 9 | 6.3 | 20628 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 79.5 | 260256 | PASS |
| 175 | 174 | 4 | 9 | 7.8 | 20248 | PASS |
| 176 | 174 | 93 | 101 | 95.9 | 249696 | PASS |
| 177 | 176 | 5 | 9 | 6.9 | 17228 | PASS |

Q4163.D Q072707T.m Wed Aug 01 12:27:53 2007 RPT1

Average of 16.322 to 16.323 min.: Q4163.D\data.ms
CC220-10 (M069)

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.20 | 4161 | 47.15 | 4344 | 56.10 | 6277 | 69.20 | 40304 |
| 37.10 | 19104 | 47.90 | 1095 | 57.20 | 11067 | 70.15 | 2839 |
| 38.20 | 18380 | 48.10 | 1068 | 57.95 | 602 | 72.20 | 1765 |
| 39.20 | 7416 | 49.20 | 15728 | 60.10 | 4441 | 73.20 | 15847 |
| 39.90 | 348 | 50.20 | 78900 | 61.20 | 17512 | 74.20 | 63028 |
| 40.20 | 409 | 51.20 | 21840 | 62.15 | 16316 | 75.20 | 178080 |
| 43.05 | 784 | 52.05 | 1109 | 63.20 | 14605 | 76.15 | 14194 |
| 44.15 | 3722 | 52.80 | 249 | 64.10 | 2004 | 77.15 | 2945 |
| 45.10 | 3525 | 53.15 | 443 | 65.15 | 2269 | 78.20 | 874 |
| 46.10 | 211 | 54.90 | 676 | 67.10 | 1177 | 79.10 | 13421 |
| 46.30 | 301 | 55.20 | 759 | 68.15 | 40360 | 80.05 | 3919 |

Average of 16.322 to 16.323 min.: Q4163.D\data.ms
CC220-10 (M069)

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 81.05 | 12378 | 95.20 | 327456 | 112.15 | 671 | 137.00 | 266 |
| 82.10 | 3768 | 96.15 | 20628 | 115.00 | 325 | 139.60 | 247 |
| 82.90 | 787 | 97.10 | 595 | 115.95 | 1540 | 141.05 | 2820 |
| 85.20 | 236 | 103.20 | 201 | 117.00 | 2760 | 142.00 | 235 |
| 86.15 | 693 | 104.00 | 1109 | 118.00 | 1094 | 143.10 | 4696 |
| 87.05 | 11367 | 105.00 | 810 | 119.05 | 2220 | 144.10 | 233 |
| 88.05 | 13918 | 106.15 | 1660 | 128.00 | 1126 | 144.95 | 900 |
| 91.10 | 2138 | 107.00 | 887 | 128.90 | 845 | 147.90 | 683 |
| 92.20 | 10453 | 108.00 | 291 | 130.05 | 1394 | 149.00 | 367 |
| 93.15 | 15229 | 110.70 | 329 | 130.90 | 650 | 150.05 | 661 |
| 94.20 | 38244 | 111.00 | 292 | 135.10 | 283 | 152.00 | 533 |

Average of 16.322 to 16.323 min.: Q4163.D\data.ms
CC220-10 (M069)

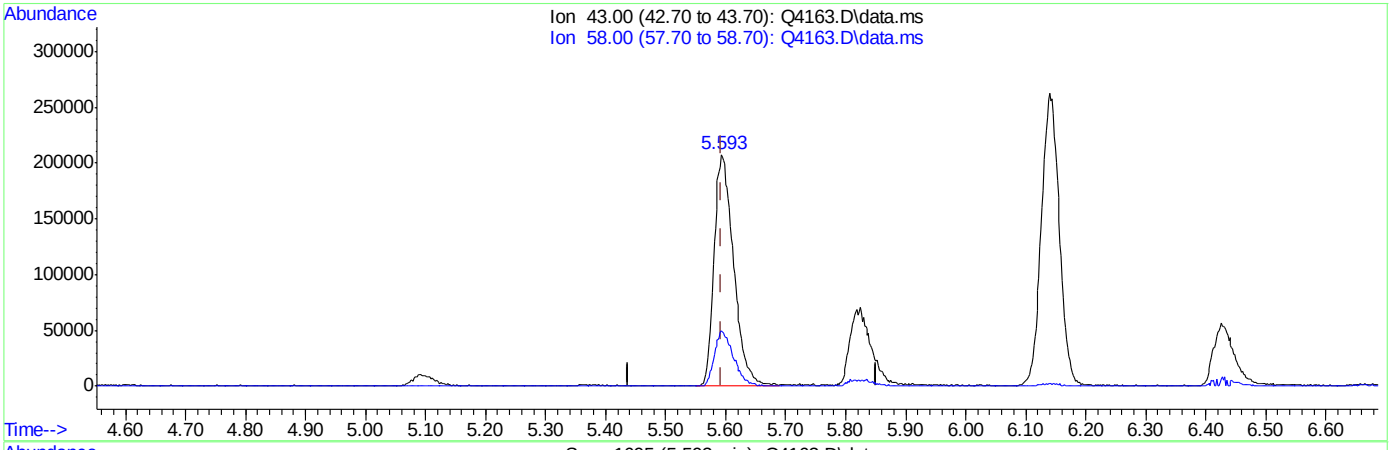
| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 154.90 | 307 | | | | | | |
| 155.10 | 314 | | | | | | |
| 157.00 | 579 | | | | | | |
| 158.80 | 255 | | | | | | |
| 172.10 | 3106 | | | | | | |
| 174.10 | 260256 | | | | | | |
| 175.10 | 20248 | | | | | | |
| 176.10 | 249696 | | | | | | |
| 177.10 | 17228 | | | | | | |
| 178.00 | 542 | | | | | | |

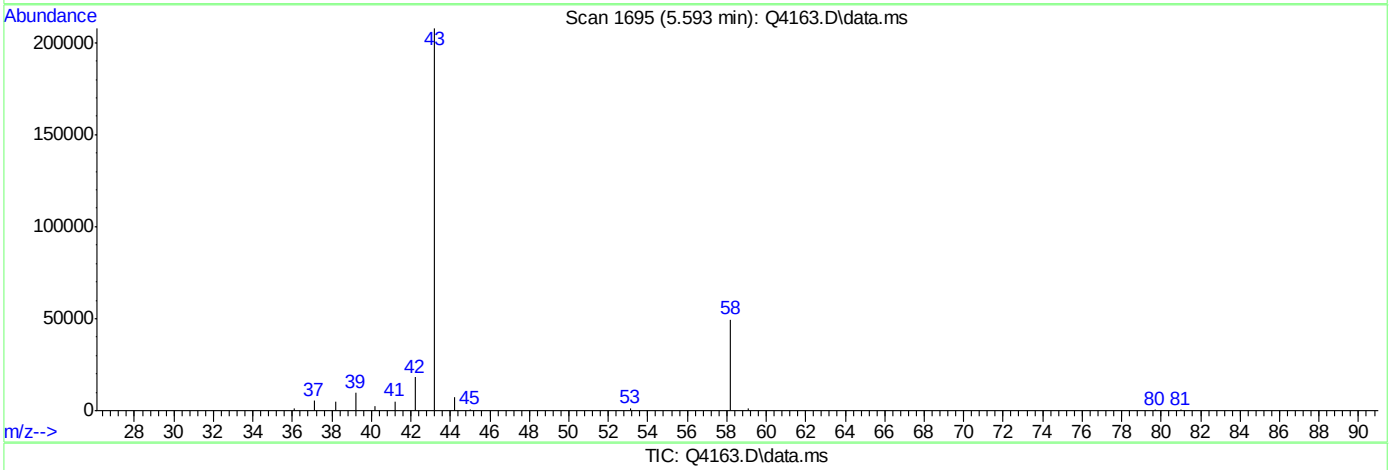
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : Q4163.D
Acq On : 1 Aug 2007 11:54 am
Operator : danat
Sample : CC220-10 (M069)
Misc : MS14034, MSQ221,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 12:26:44 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration






TIC: Q4163.D\data.ms

(12) ACETONE (m)

5.593min (-0.000) 6.99PPBV

response 471535

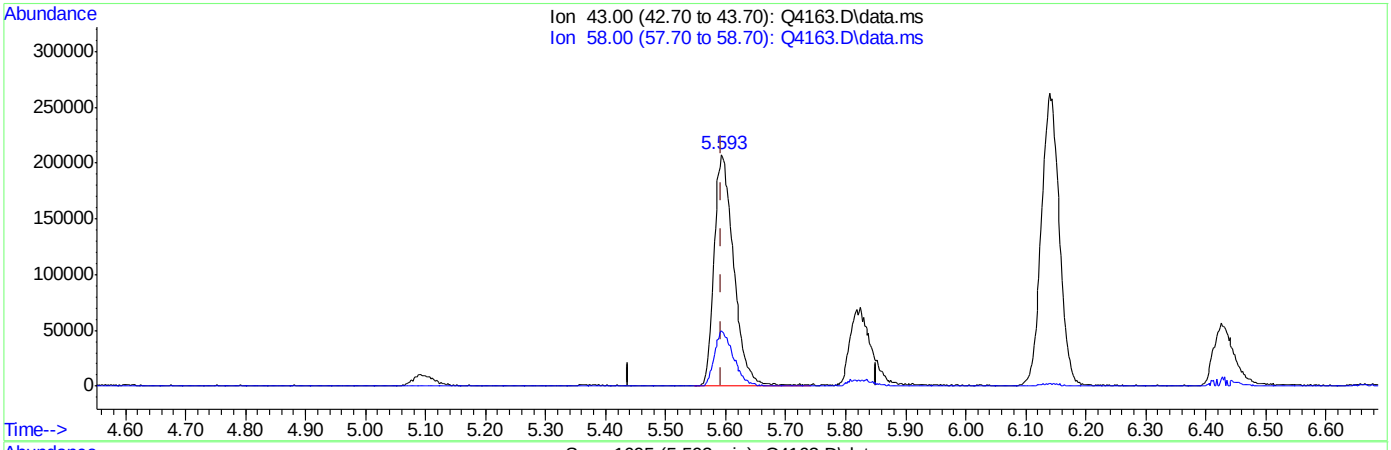
| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 58.00 | 21.90 | 23.40 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

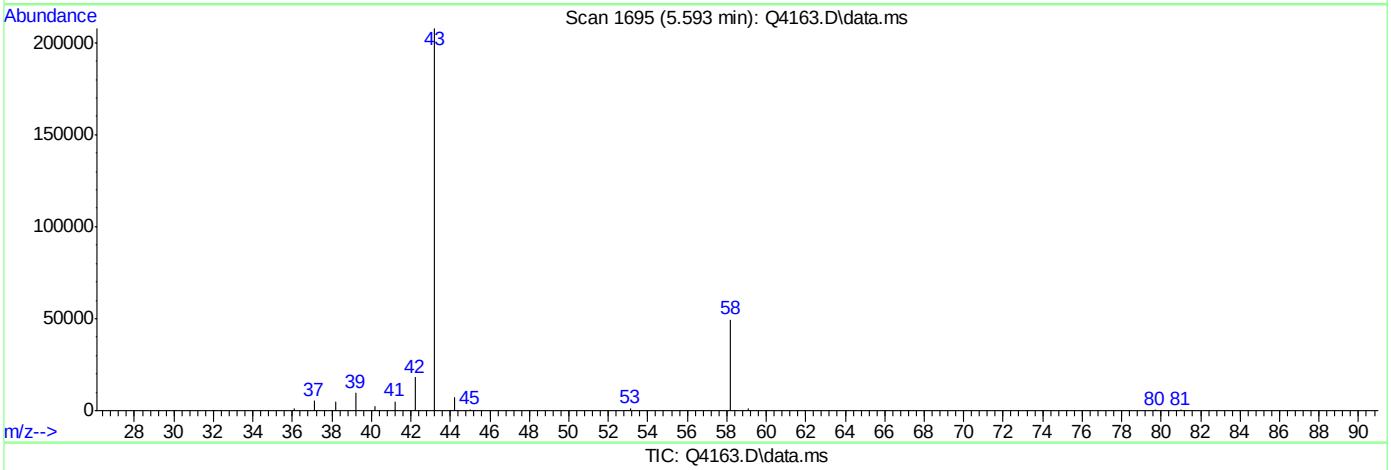
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : Q4163.D
Acq On : 1 Aug 2007 11:54 am
Operator : danat
Sample : CC220-10 (M069)
Misc : MS14034, MSQ221,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 12:26:44 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration






TIC: Q4163.D\data.ms

(12) ACETONE (m)

5.593min (-0.000) 7.04PPBV m

response 475303

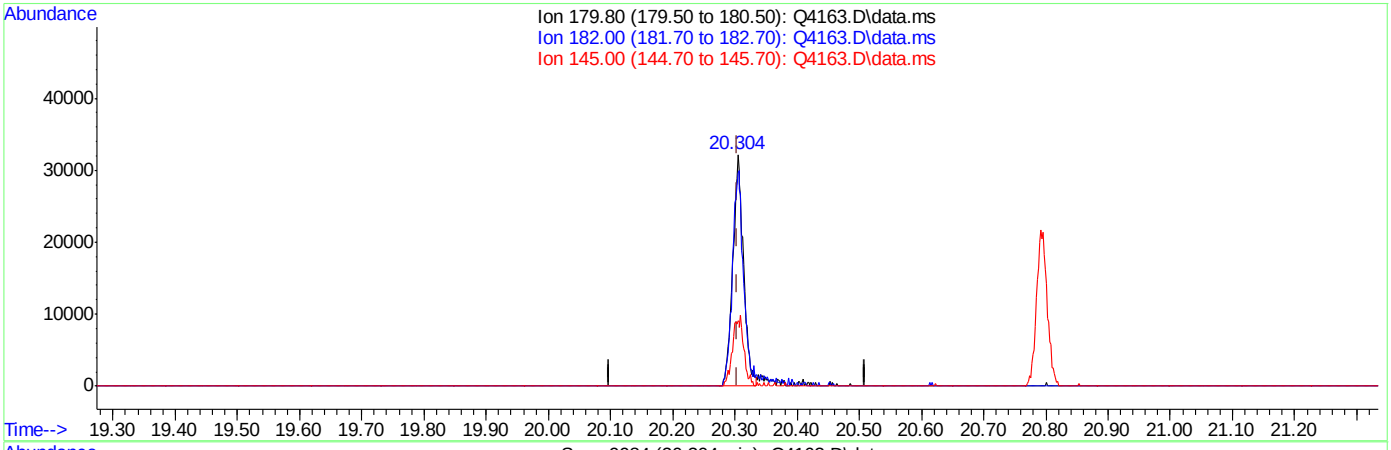
| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 58.00 | 21.90 | 23.22 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

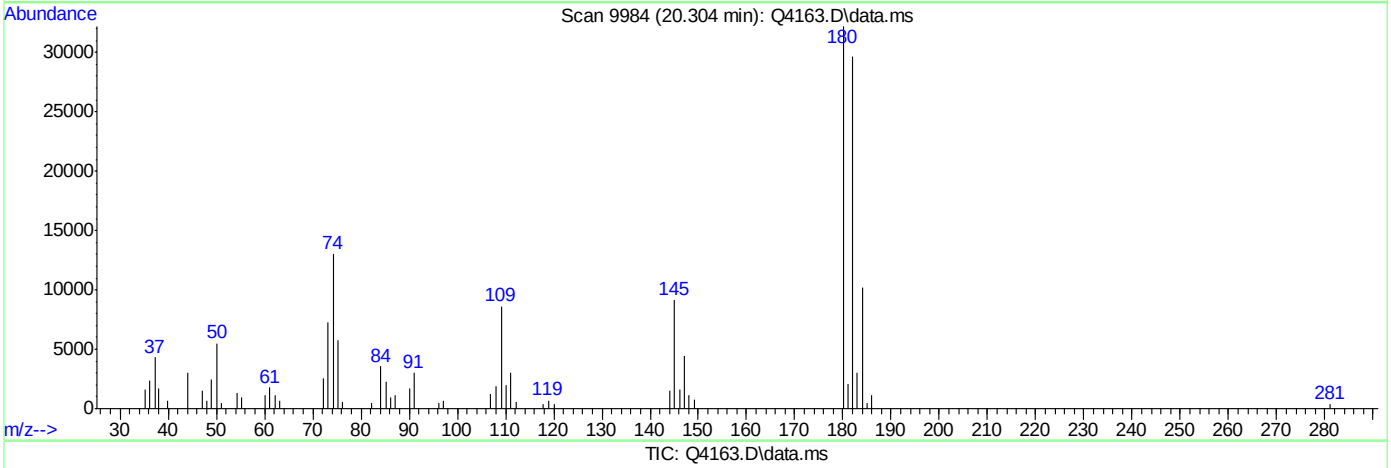
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : Q4163.D
Acq On : 1 Aug 2007 11:54 am
Operator : danat
Sample : CC220-10 (M069)
Misc : MS14034, MSQ221,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 12:26:44 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration






(73) 1,2,4-TRICHLOROBENZENE (m)

20.304min (-0.000) 2.58PPBV

response 40796

| Ion | Exp% | Act% |
|---|---|---|
| 179.80 | 100 | 100 |
| 182.00 | 95.70 | 100.91 |
| 145.00 | 30.20 | 31.72 |
| 0.00 | 0.00 | 0.00 |



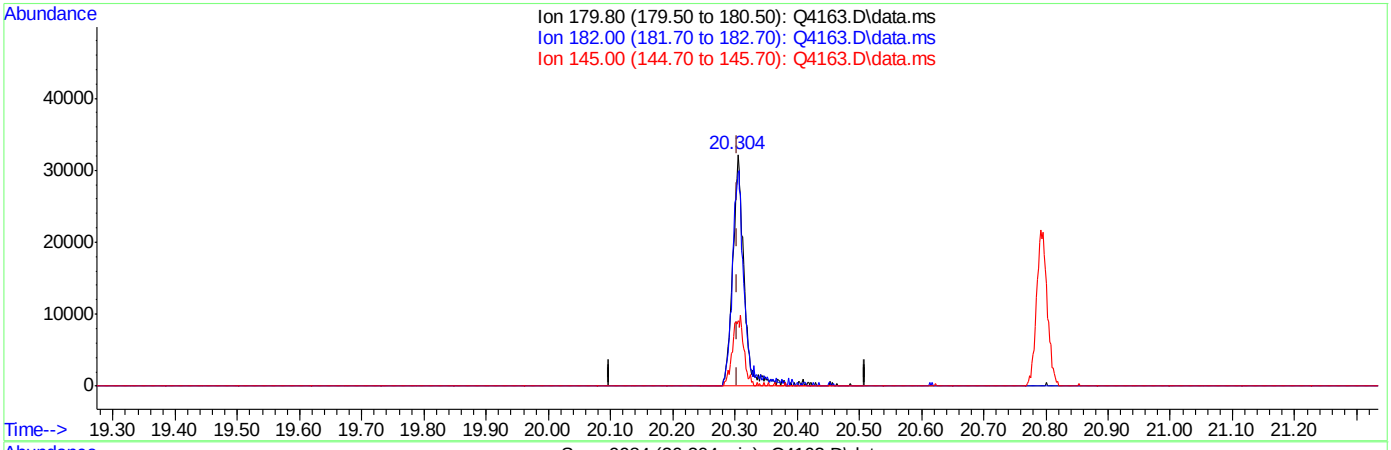
ACCUTEST Laboratories M66578

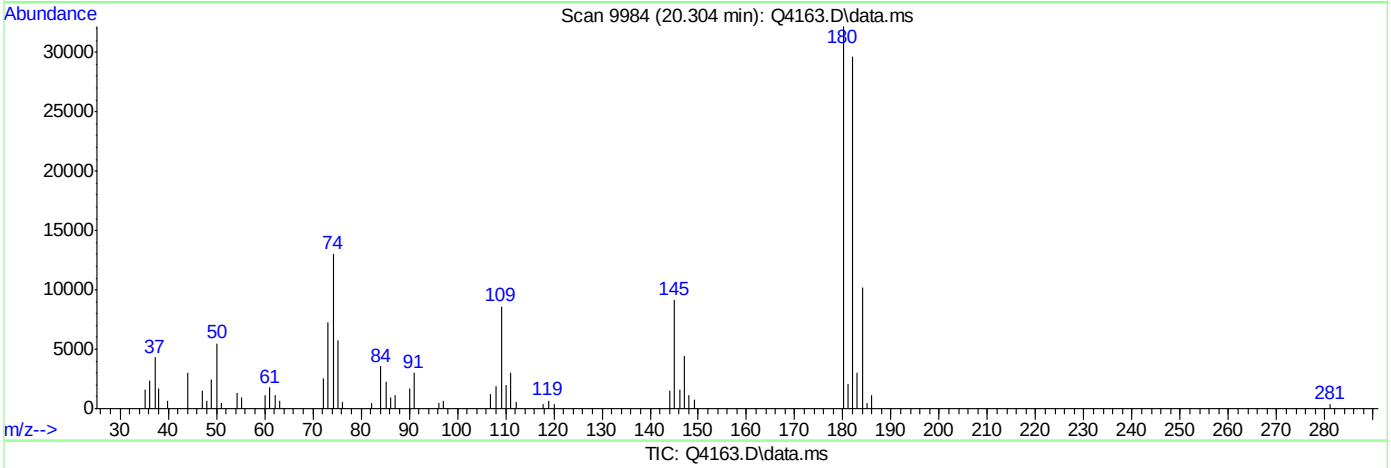
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : Q4163.D
Acq On : 1 Aug 2007 11:54 am
Operator : danat
Sample : CC220-10 (M069)
Misc : MS14034, MSQ221,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 12:26:44 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration






TIC: Q4163.D\data.ms

(73) 1,2,4-TRICHLOROBENZENE (m)

20.304min (-0.000) 2.78PPBV m

response 43972

| Ion | Exp% | Act% |
|---|---|---|
| 179.80 | 100 | 100 |
| 182.00 | 95.70 | 93.62 |
| 145.00 | 30.20 | 29.43 |
| 0.00 | 0.00 | 0.00 |



ACCUTEST Laboratories M66578

Manual Integrations APPROVED (compounds with "m" flag)
Doug Yargeau
07/11/07 09:41

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10860.D
Acq On : 5 Jul 2007 10:47 am
Operator : danat
Sample : ic562-0.5 (M210)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 11:29:12 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 11:24:31 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.62 | 128 | 309281 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.44 | 114 | 1310708 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.67 | 117 | 1115339 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 61) 4-BROMOFLUOROBENZENE | 16.29 | 95 | 310811 | 4.41 | PPBV | 0.00 |
| Spiked Amount 5.000 | Range 51 - 142 | | Recovery = 88.20% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) DICHLORODIFLUOROMETHANE | 4.06 | 85 | 58883 | 0.53 | PPBV | 97 |
| 3) PROPYLENE | 4.00 | 41 | 7610 | 0.47 | PPBV | 95 |
| 4) FREON 114 | 4.33 | 85 | 51934 | 0.54 | PPBV | 95 |
| 5) CHLOROMETHANE | 4.23 | 50 | 13702 | 0.57 | PPBV | 98 |
| 6) VINYL CHLORIDE | 4.45 | 62 | 15292 | 0.56 | PPBV # | 54 |
| 7) 1,3-BUTADIENE | 4.58 | 39 | 9645 | 0.50 | PPBV | 90 |
| 8) BROMOMETHANE | 4.86 | 94 | 16317 | 0.53 | PPBV | 96 |
| 9) CHLOROETHANE | 5.03 | 64 | 6594 | 0.52 | PPBV | 80 |
| 10) TRICHLOROFLUOROMETHANE | 5.79 | 101 | 57690 | 0.50 | PPBV | 99 |
| 11) ISOPROPYL ALCOHOL | 6.07 | 45 | 16583m | 0.47 | PPBV | |
| 12) ACETONE | 5.69 | 43 | 24290 | 0.41 | PPBV | 83 |
| 13) PENTANE | 6.13 | 42 | 12834 | 0.45 | PPBV | 91 |
| 14) 1,1-DICHLOROETHYLENE | 6.43 | 96 | 12786 | 0.43 | PPBV | 97 |
| 15) CARBON DISULFIDE | 6.84 | 76 | 48612 | 0.54 | PPBV | 96 |
| 16) ETHANOL | 5.32 | 45 | 847m | 0.14 | PPBV | |
| 17) BROMOETHENE | 5.38 | 106 | 11653 | 0.39 | PPBV | 98 |
| 18) METHYLENE CHLORIDE | 6.55 | 84 | 32235 | 0.58 | PPBV | 93 |
| 19) 3-CHLOROPROPENE | 6.66 | 39 | 10218 | 0.44 | PPBV | 90 |
| 20) FREON 113 | 6.79 | 151 | 37857 | 0.52 | PPBV | 95 |
| 21) TRANS-1,2-DICHLOROETHYLENE | 7.45 | 96 | 13859 | 0.49 | PPBV | 99 |
| 22) TERTIARY BUTYL ALCOHOL | 6.69 | 59 | 12447m | 0.32 | PPBV | |
| 23) METHYL TERTIARY BUTYL ETHE | 7.75 | 73 | 20442 | 0.35 | PPBV | 95 |
| 24) TETRAHYDROFURAN | 9.23 | 42 | 5371m | 0.30 | PPBV | |
| 25) HEXANE | 8.63 | 57 | 18926 | 0.53 | PPBV | 87 |
| 26) VINYL ACETATE | 7.81 | 43 | 12485 | 0.32 | PPBV | 74 |
| 27) 1,1-DICHLOROETHANE | 7.65 | 63 | 26691 | 0.54 | PPBV | 98 |
| 28) METHYL ETHYL KETONE | 8.10 | 43 | 20284m | 0.54 | PPBV | |
| 29) cis-1,2-DICHLOROETHYLENE | 8.46 | 96 | 13416 | 0.49 | PPBV | 98 |
| 30) ETHYL ACETATE | 8.71 | 43 | 20867 | 0.54 | PPBV # | 94 |
| 31) CHLOROFORM | 8.74 | 83 | 38336 | 0.55 | PPBV | 98 |
| 32) 1,1,1-TRICHLOROETHANE | 9.68 | 97 | 40329 | 0.50 | PPBV | 97 |
| 33) CARBON TETRACHLORIDE | 10.25 | 117 | 51116 | 0.51 | PPBV | 96 |
| 34) 1,2-DICHLOROETHANE | 9.45 | 62 | 19128 | 0.48 | PPBV | 96 |
| 36) BENZENE | 10.12 | 78 | 26821 | 0.44 | PPBV | 98 |
| 37) CYCLOHEXANE | 10.37 | 84 | 8898 | 0.30 | PPBV | 94 |
| 38) TRICHLOROETHYLENE | 11.11 | 95 | 16401 | 0.48 | PPBV | 91 |
| 39) 1,2-DICHLOROPROPANE | 10.90 | 63 | 9846 | 0.47 | PPBV | 97 |
| 40) BROMODICHLOROMETHANE | 11.09 | 83 | 31966 | 0.52 | PPBV | 97 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.12 | 57 | 34764 | 0.37 | PPBV | 88 |
| 42) 1,4-DIOXANE | 11.28 | 88 | 1834m | 0.16 | PPBV | |
| 43) HEPTANE | 11.36 | 43 | 12719 | 0.43 | PPBV | 91 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10860.D
Acq On : 5 Jul 2007 10:47 am
Operator : danat
Sample : ic562-0.5 (M210)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 11:29:12 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 11:24:31 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 12.02 | 43 | 12485 | 0.34 | PPBV | 80 |
| 45) cis-1,3-DICHLOROPROPENE | 11.94 | 75 | 9289 | 0.33 | PPBV | 92 |
| 46) TOLUENE | 12.88 | 92 | 12463 | 0.31 | PPBV | 96 |
| 47) trans-1,3-DICHLOROPROPENE | 12.44 | 75 | 8100 | 0.31 | PPBV | 91 |
| 48) 1,1,2-TRICHLOROETHANE | 12.62 | 83 | 10909 | 0.49 | PPBV | 96 |
| 50) 2-HEXANONE | 13.20 | 43 | 10674 | 0.40 | PPBV # | 70 |
| 51) TETRACHLOROETHYLENE | 14.01 | 164 | 16591 | 0.45 | PPBV | 99 |
| 52) DIBROMOCHLOROMETHANE | 13.32 | 129 | 28641 | 0.52 | PPBV | 98 |
| 53) 1,2-DIBROMOETHANE | 13.57 | 107 | 18292 | 0.50 | PPBV | 98 |
| 54) CHLOROBENZENE | 14.71 | 112 | 31570 | 0.54 | PPBV | 99 |
| 55) ETHYLBENZENE | 15.09 | 91 | 23865 | 0.31 | PPBV | 94 |
| 56) m,p-XYLENE | 15.27 | 106 | 18708 | 0.59 | PPBV # | 81 |
| 57) o-XYLENE | 15.78 | 106 | 9506 | 0.31 | PPBV | 96 |
| 58) STYRENE | 15.67 | 104 | 9469 | 0.25 | PPBV | 96 |
| 59) NONANE | 15.97 | 43 | 10517 | 0.29 | PPBV | 93 |
| 60) BROMOFORM | 15.39 | 173 | 27506 | 0.52 | PPBV | 96 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.79 | 83 | 31385 | 0.66 | PPBV | 92 |
| 63) ISOPROPYLBENZENE | 16.42 | 105 | 31529 | 0.35 | PPBV | 96 |
| 64) 2-CHLOROTOLUENE | 16.98 | 91 | 19425 | 0.32 | PPBV | 99 |
| 65) 4-ETHYLTOLUENE | 17.16 | 105 | 20141 | 0.27 | PPBV | 99 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.25 | 105 | 23617 | 0.34 | PPBV | 94 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.72 | 105 | 17005 | 0.28 | PPBV | 93 |
| 68) m-DICHLOROBENZENE | 17.90 | 146 | 27431 | 0.58 | PPBV | 98 |
| 69) BENZYL CHLORIDE | 17.89 | 91 | 17693 | 0.48 | PPBV | 97 |
| 70) p-DICHLOROBENZENE | 17.98 | 146 | 21701 | 0.51 | PPBV | 93 |
| 71) o-DICHLOROBENZENE | 18.37 | 146 | 25627 | 0.61 | PPBV | 96 |
| 72) HEXACHLOROBUTADIENE | 20.76 | 225 | 51263 | 1.27 | PPBV | 98 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.28 | 180 | 20594 | 1.20 | PPBV | 98 |

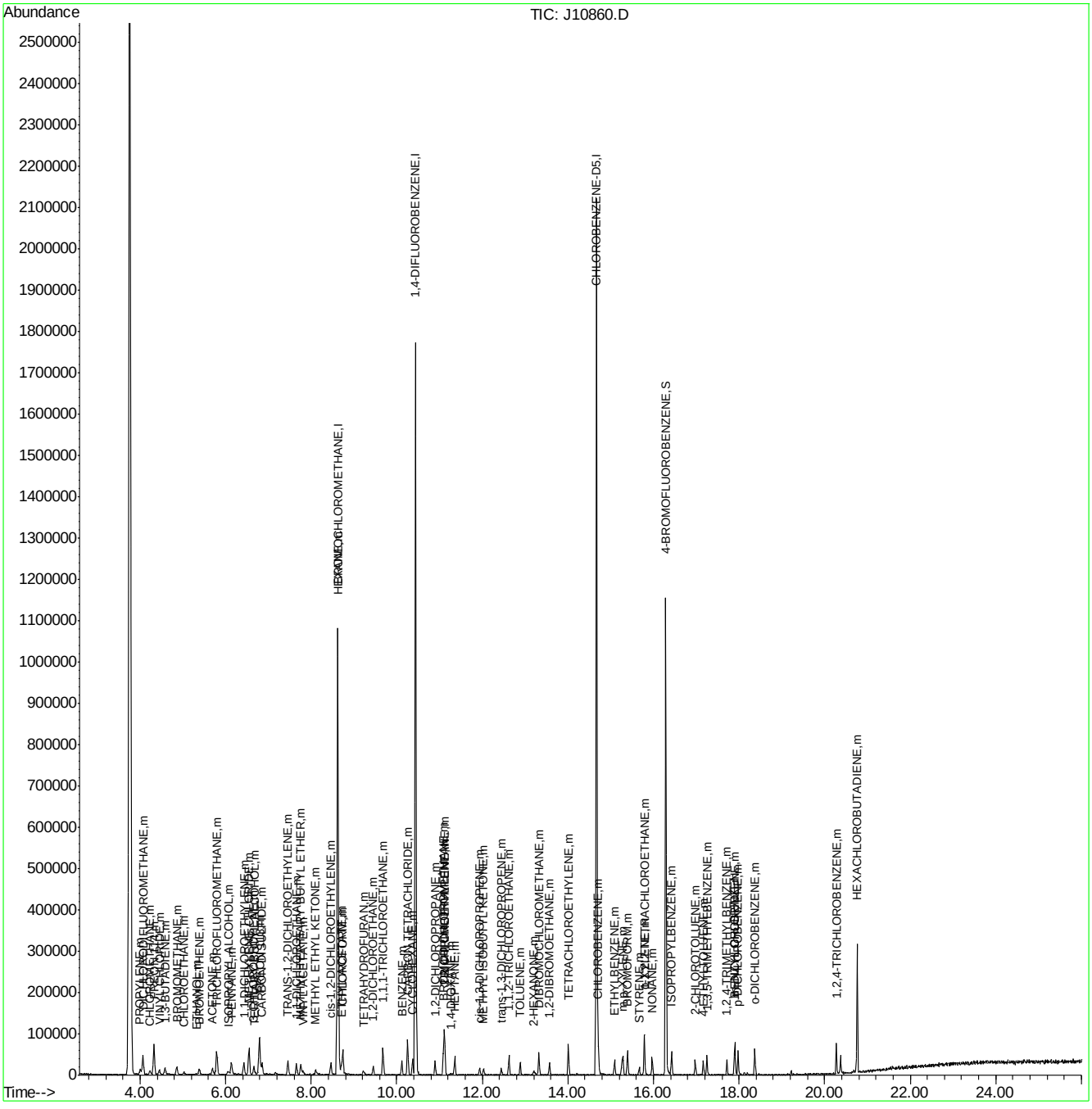
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10860.D
Acq On : 5 Jul 2007 10:47 am
Operator : danat
Sample : ic562-0.5 (M210)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 11:29:12 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 11:24:31 2007
Response via : Initial Calibration



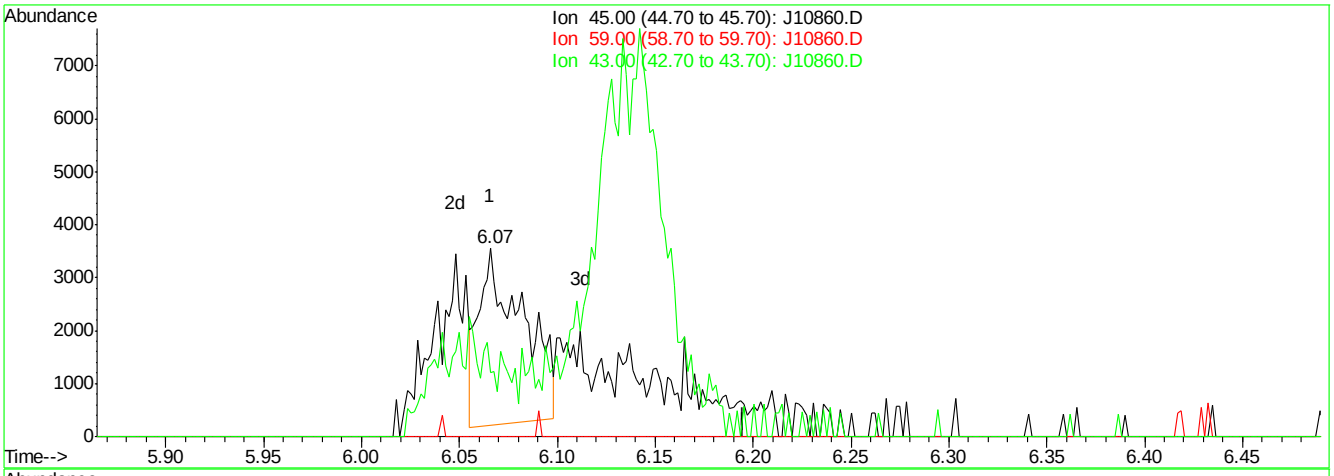


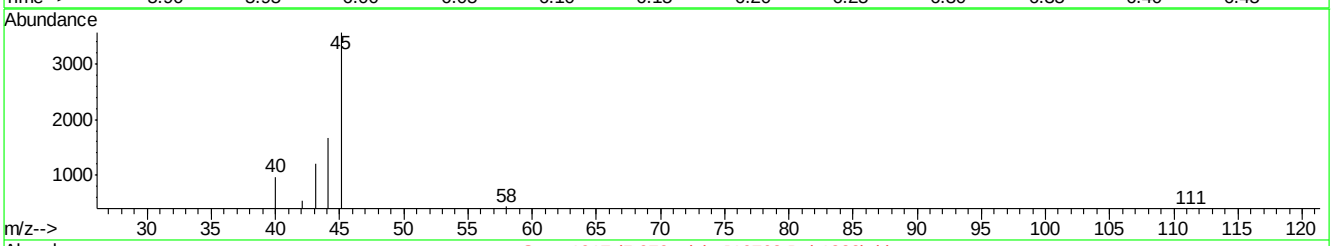
Quantitation Report (Qedit)

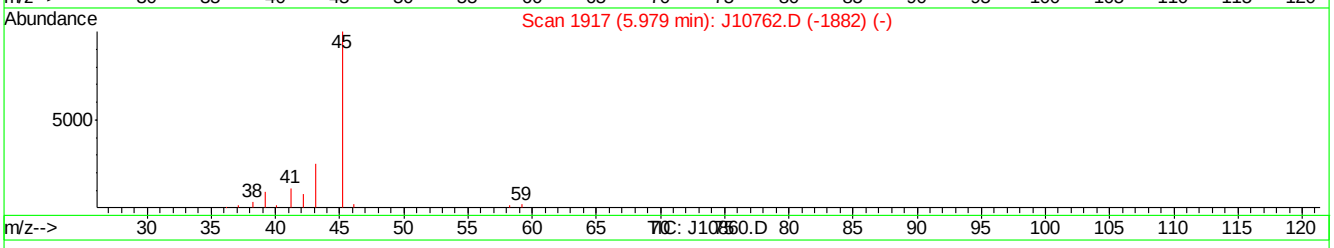
Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(11) ISOPROPYL ALCOHOL (m)

6.07min 0.15PPBV

response 5209

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 59.00 | 2.20 | 0.00 |
| 43.00 | 25.50 | 34.10 |
| 0.00 | 0.00 | 0.00 |

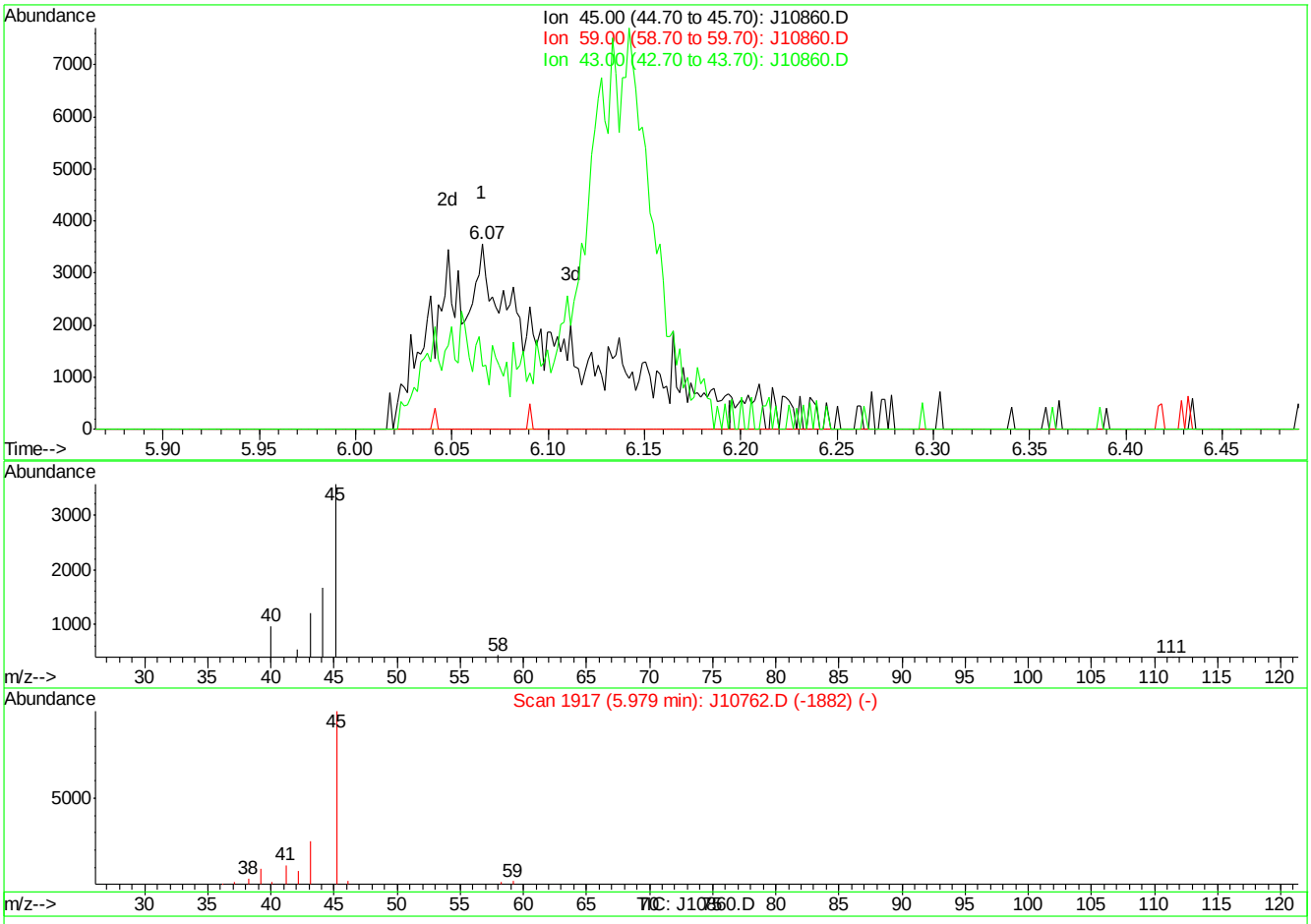
J10860.D J070507T.M Thu Jul 05 11:26:38 2007

Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(11) ISOPROPYL ALCOHOL (m)

6.07min 0.47PPBV m

response 16583

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 59.00 | 2.20 | 0.00 |
| 43.00 | 25.50 | 34.10 |
| 0.00 | 0.00 | 0.00 |

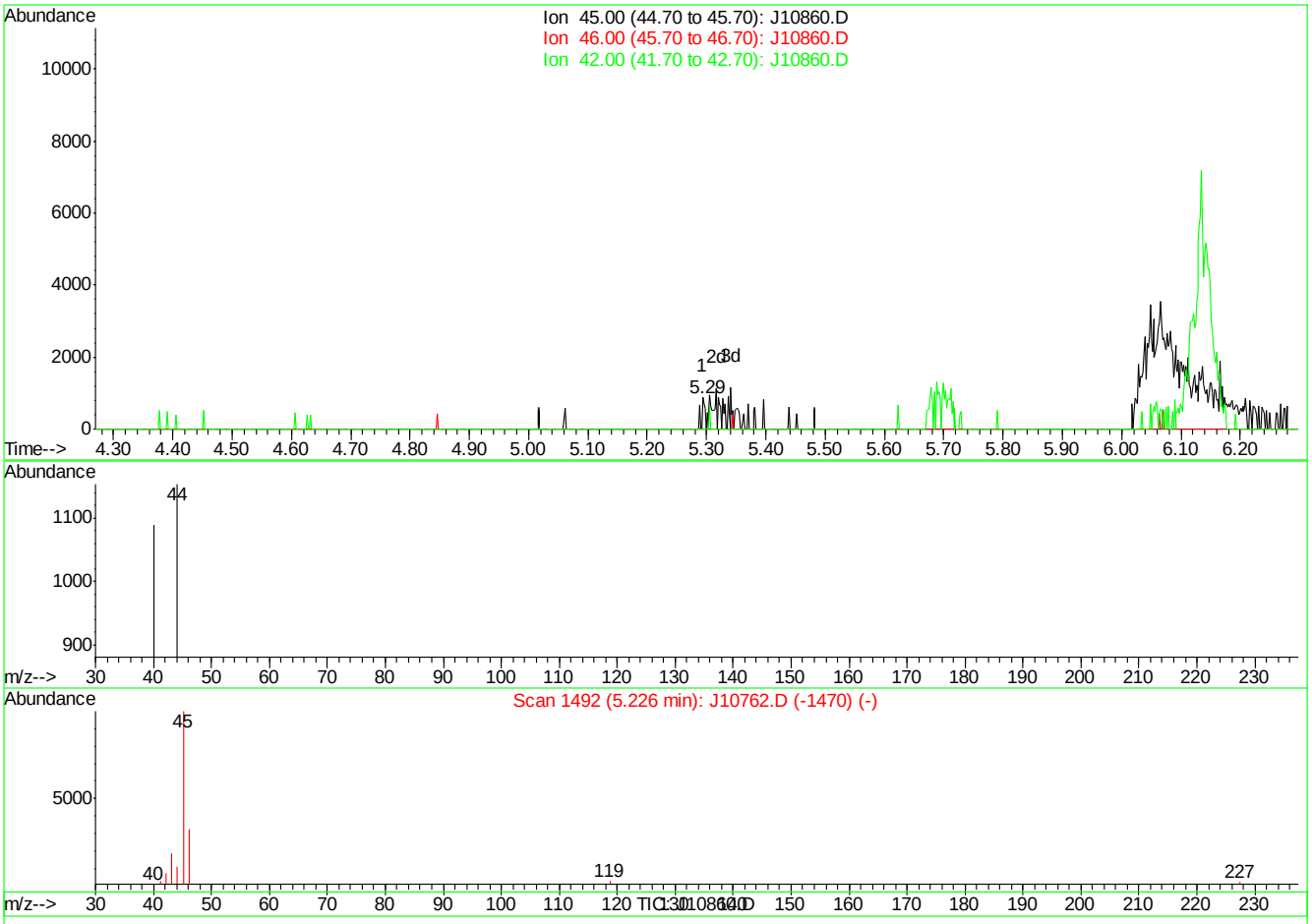
J10860.D J070507T.M Thu Jul 05 11:26:48 2007

Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(16) ETHANOL (m)

5.29min 0.05PPBV

response 306

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 34.30 | 0.00# |
| 42.00 | 3.50 | 0.00 |
| 0.00 | 0.00 | 0.00 |

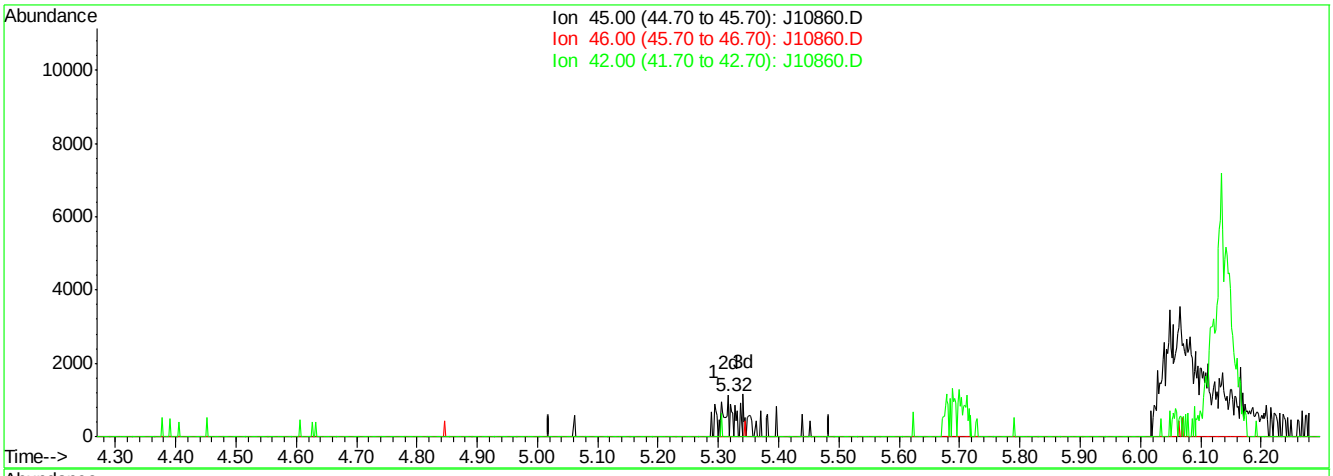
J10860.D J070507T.M Thu Jul 05 11:26:56 2007

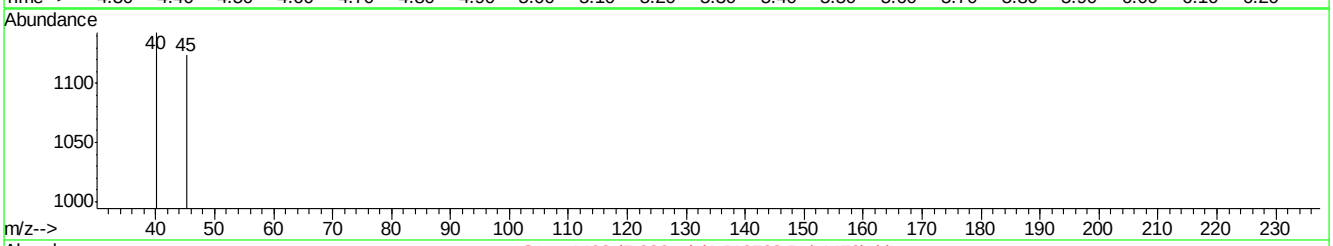
Quantitation Report (Qedit)

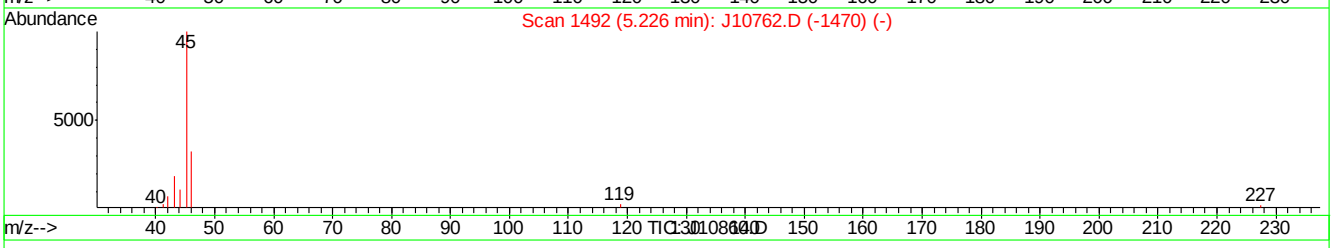
Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(16) ETHANOL (m)

5.32min 0.14PPBV m

response 847

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 34.30 | 0.00# |
| 42.00 | 3.50 | 0.00 |
| 0.00 | 0.00 | 0.00 |

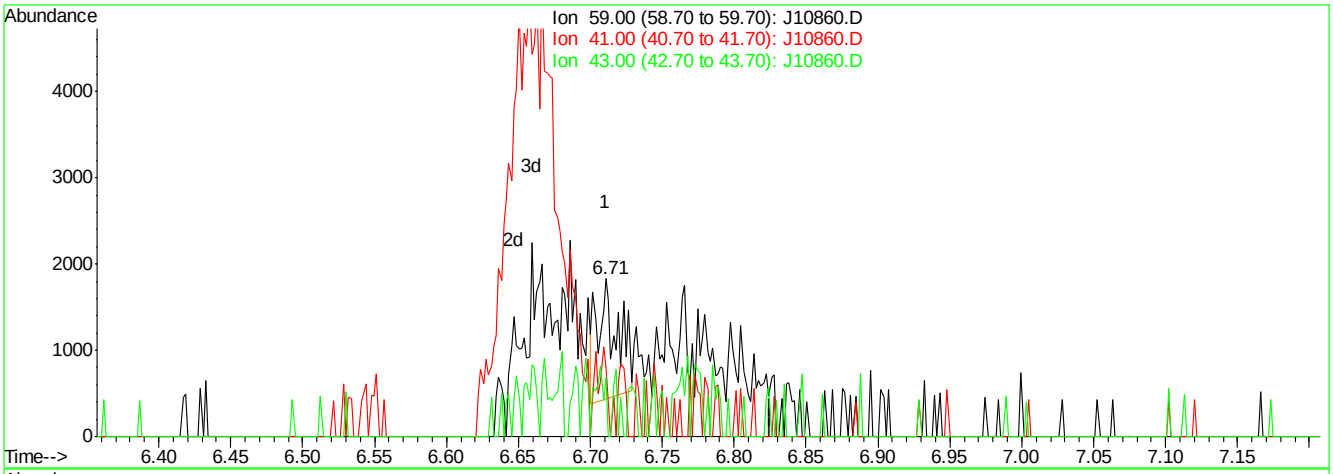
J10860.D J070507T.M Thu Jul 05 11:27:18 2007

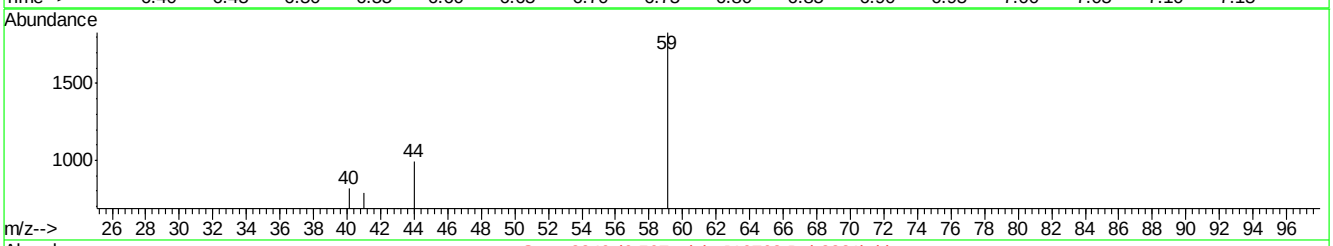
Quantitation Report (Qedit)

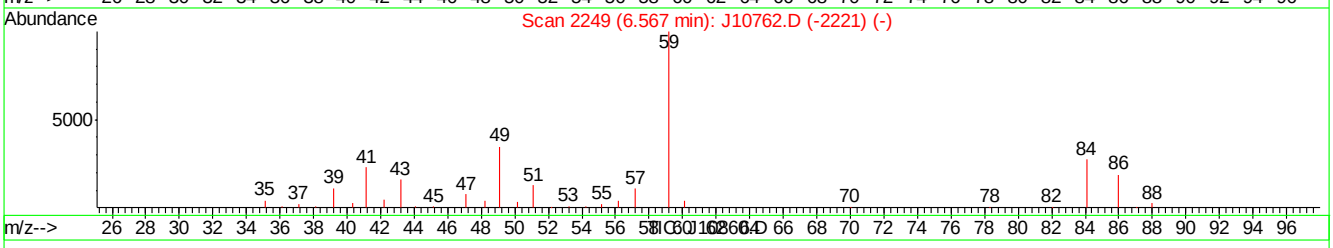
Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(22) TERTIARY BUTYL ALCOHOL (m)

6.71min 0.03PPBV

response 1343

| Ion | Exp% | Act% |
|---|---|---|
| 59.00 | 100 | 100 |
| 41.00 | 22.00 | 37.97 |
| 43.00 | 17.20 | 28.82 |
| 0.00 | 0.00 | 0.00 |

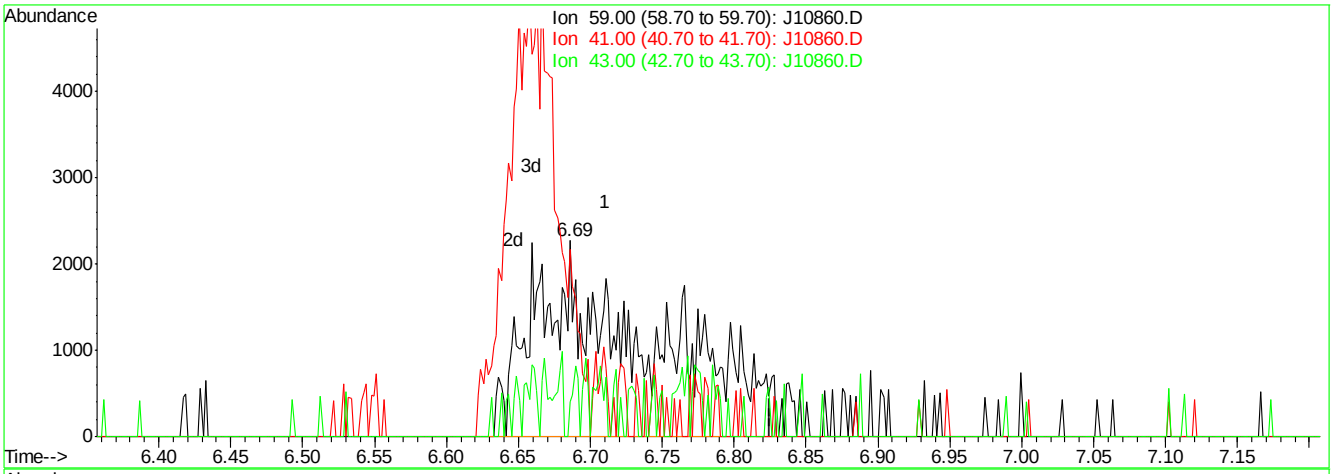
J10860.D J070507T.M Thu Jul 05 11:27:29 2007

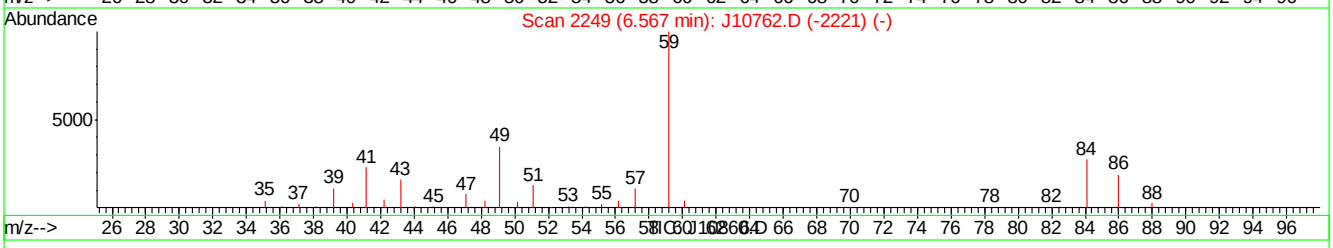
Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(22) TERTIARY BUTYL ALCOHOL (m)

6.69min 0.32PPBV m

response 12447

| Ion | Exp% | Act% |
|---|---|---|
| 59.00 | 100 | 100 |
| 41.00 | 22.00 | 4.10 |
| 43.00 | 17.20 | 3.11 |
| 0.00 | 0.00 | 0.00 |

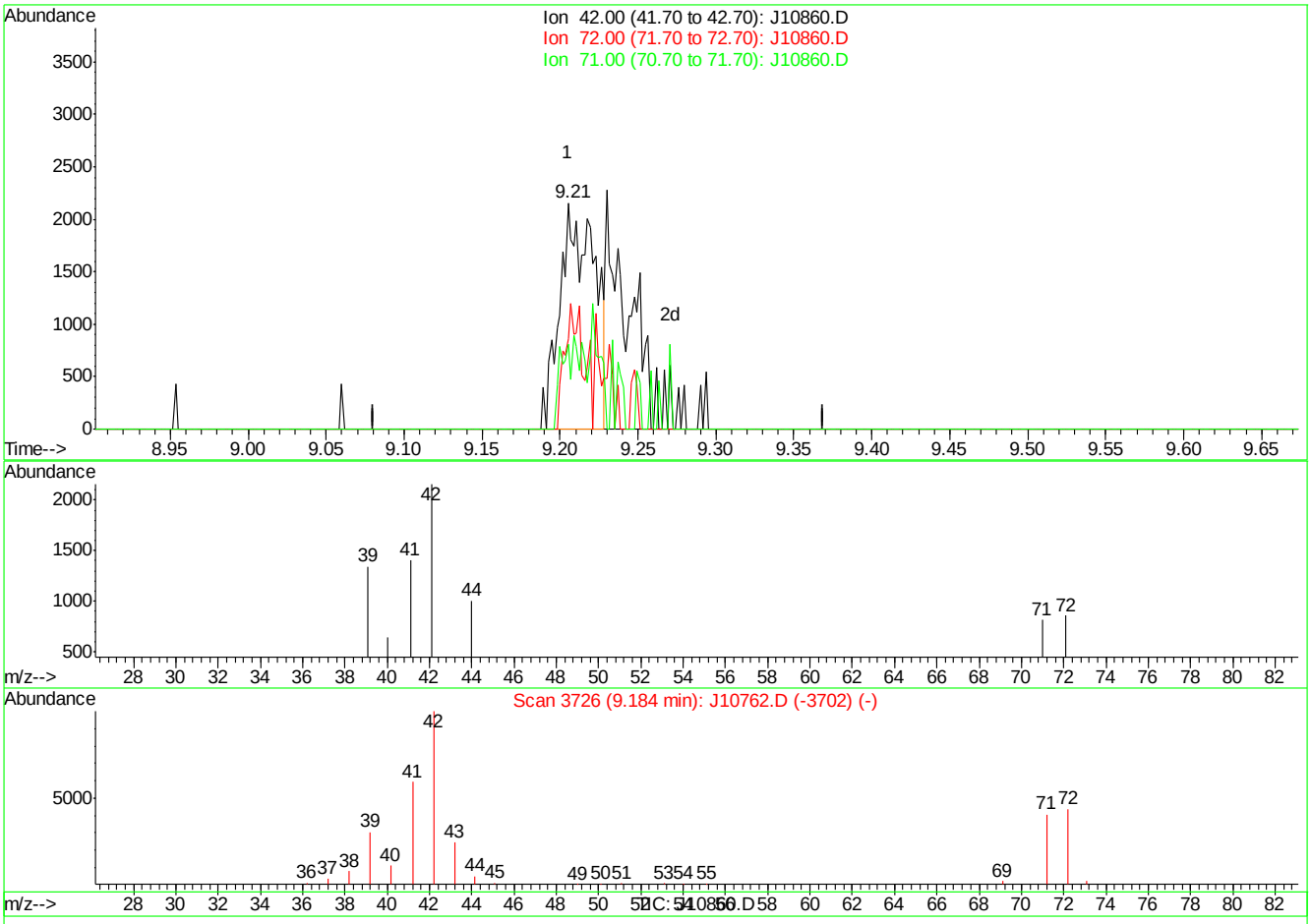
J10860.D J070507T.M Thu Jul 05 11:27:45 2007

Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(24) TETRAHYDROFURAN (m)

9.21min 0.19PPBV

response 3316

| Ion | Exp% | Act% |
|---|---|---|
| 42.00 | 100 | 100 |
| 72.00 | 46.60 | 29.98 |
| 71.00 | 46.70 | 12.03# |
| 0.00 | 0.00 | 0.00 |

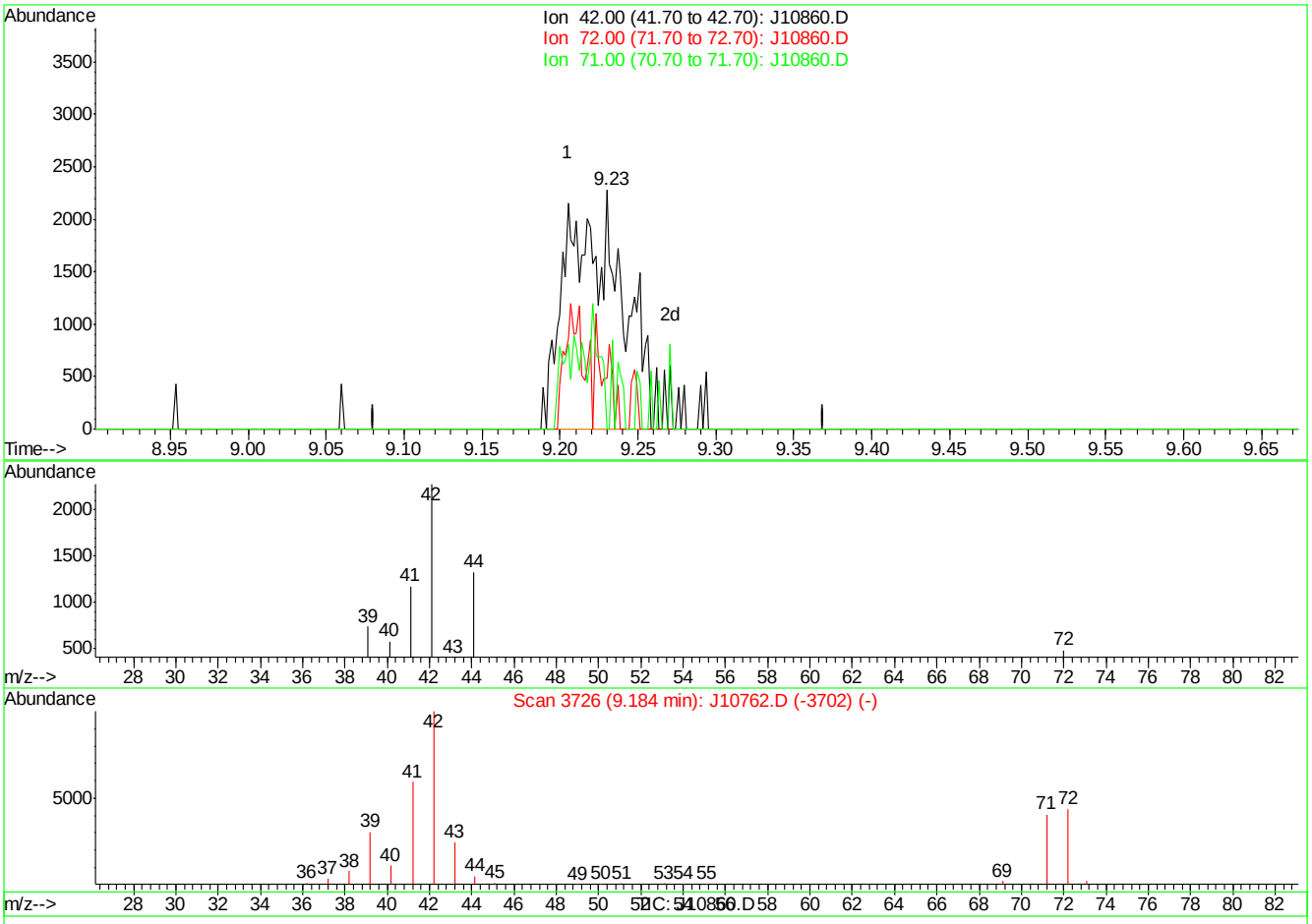
J10860.D J070507T.M Thu Jul 05 11:27:51 2007

Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(24) TETRAHYDROFURAN (m)

9.23min 0.30PPBV m

response 5371

| Ion | Exp% | Act% |
|---|---|---|
| 42.00 | 100 | 100 |
| 72.00 | 46.60 | 18.51# |
| 71.00 | 46.70 | 7.43# |
| 0.00 | 0.00 | 0.00 |

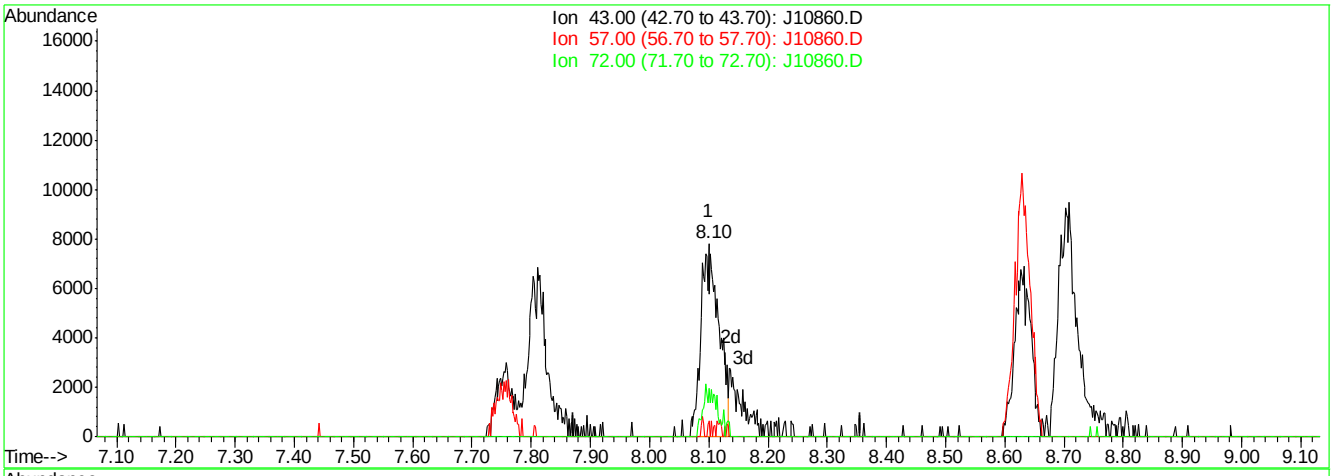
J10860.D J070507T.M Thu Jul 05 11:28:01 2007

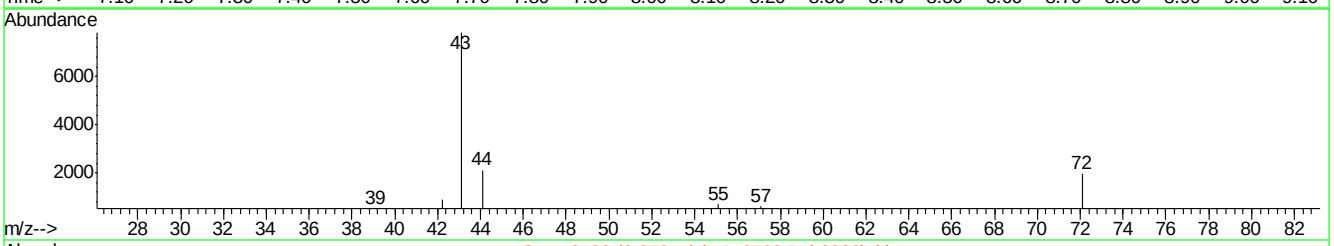
Quantitation Report (Qedit)

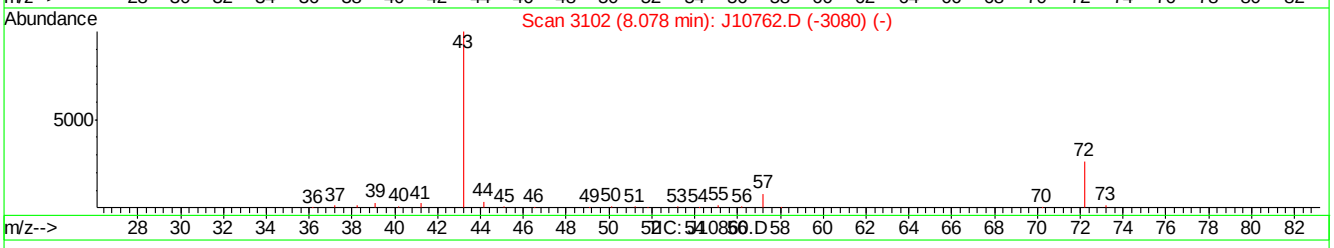
Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(28) METHYL ETHYL KETONE (m)

8.10min 0.44PPBV

response 16344

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 57.00 | 8.00 | 7.71 |
| 72.00 | 26.40 | 24.93 |
| 0.00 | 0.00 | 0.00 |

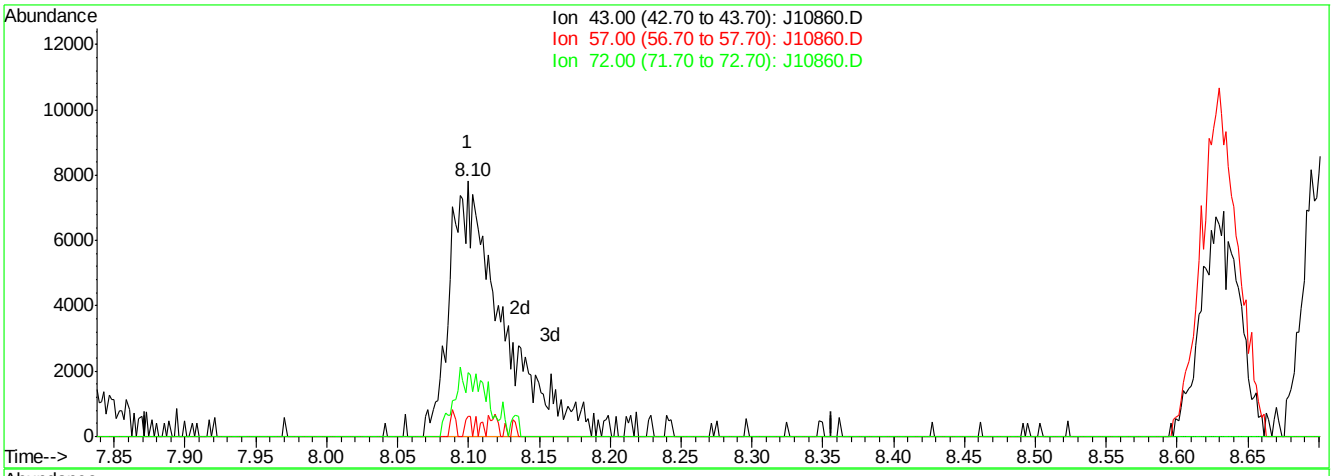
J10860.D J070507T.M Thu Jul 05 11:28:12 2007

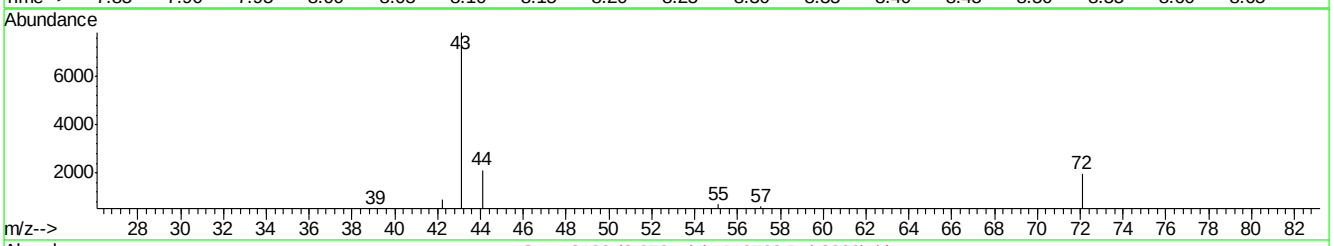
Quantitation Report (Qedit)

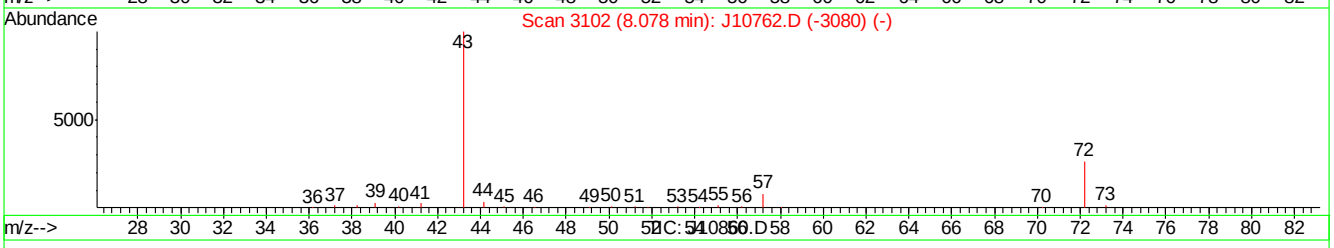
Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(28) METHYL ETHYL KETONE (m)

8.10min 0.54PPBV m

response 20284

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 57.00 | 8.00 | 7.71 |
| 72.00 | 26.40 | 24.93 |
| 0.00 | 0.00 | 0.00 |

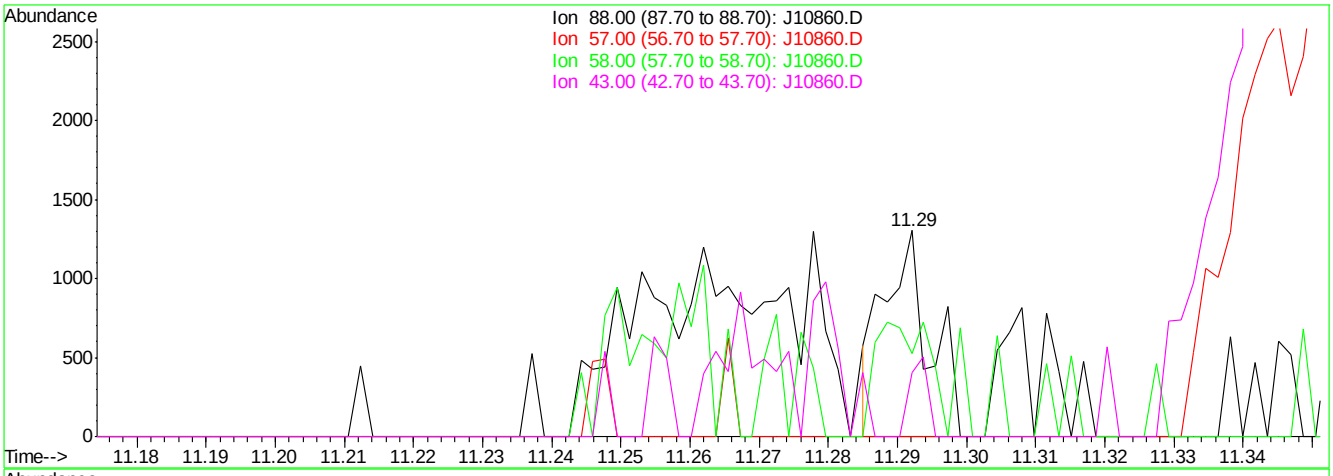
J10860.D J070507T.M Thu Jul 05 11:28:19 2007

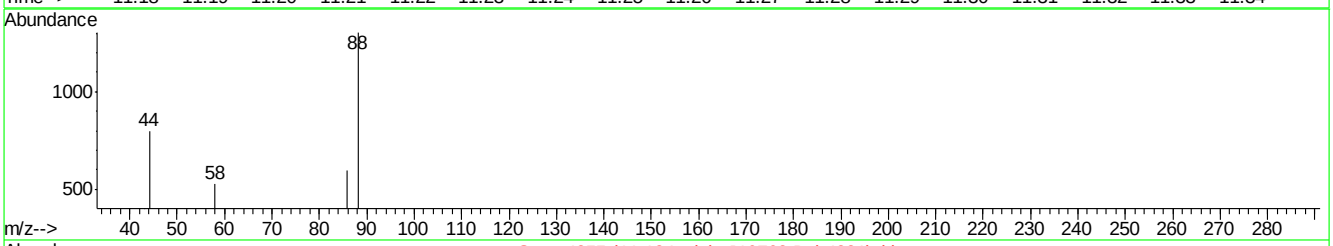
Quantitation Report (Qedit)

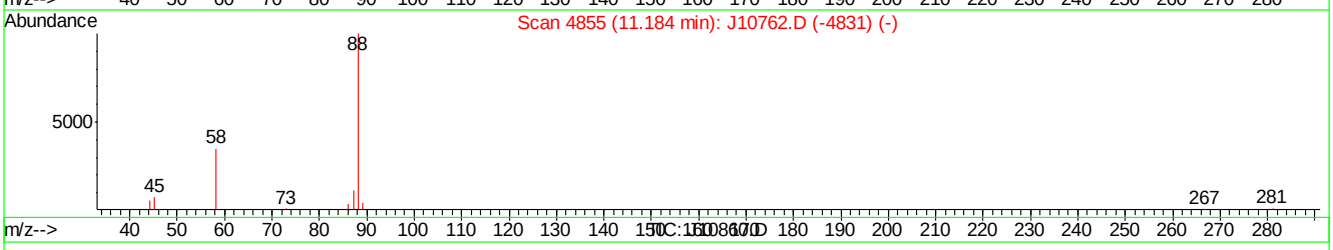
Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(42) 1,4-DIOXANE (m)

11.29min 0.05PPBV

response 606

| Ion | Exp% | Act% |
|---|---|---|
| 88.00 | 100 | 100 |
| 57.00 | 19.90 | 0.00 |
| 58.00 | 51.60 | 40.34 |
| 43.00 | 30.20 | 30.75 |

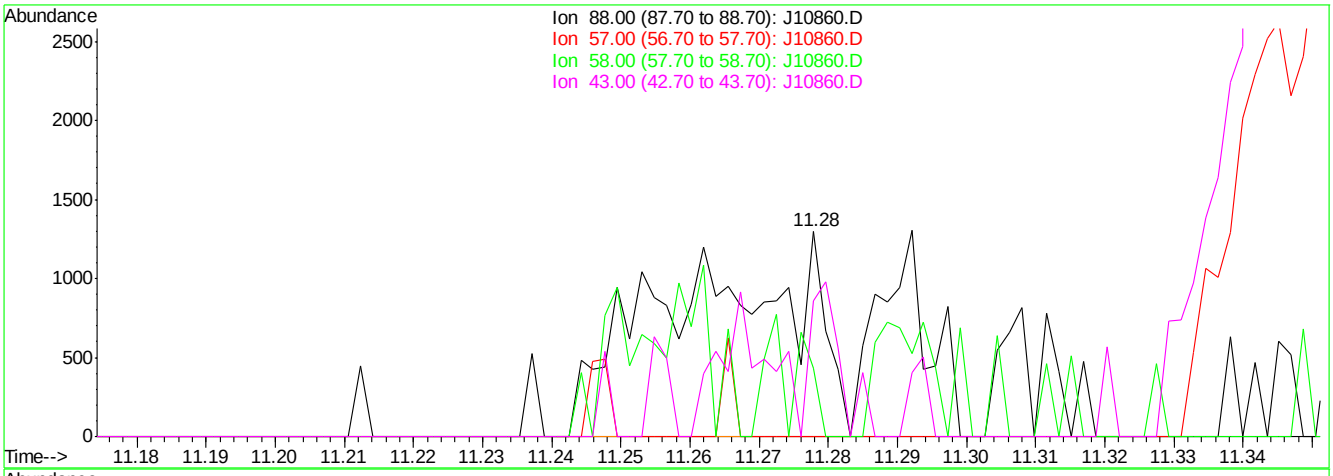
J10860.D J070507T.M Thu Jul 05 11:28:38 2007

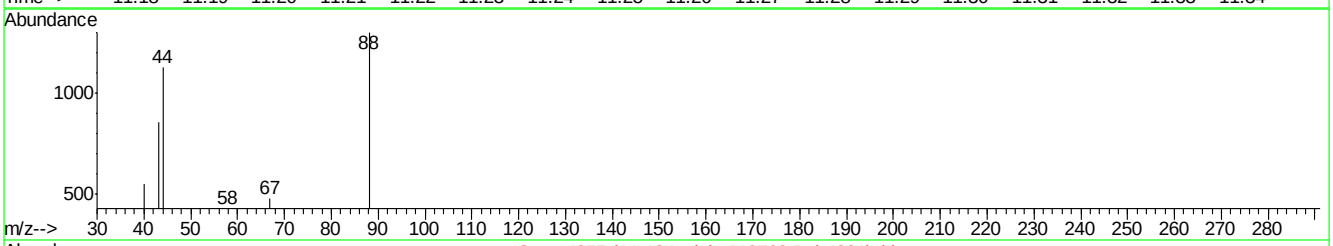
Quantitation Report (Qedit)

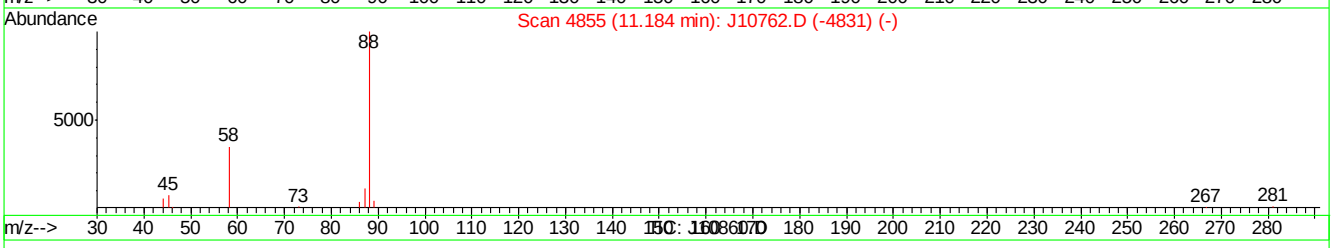
Data File : C:\MSDChem\1\data\J10860.D Vial: 1
Acq On : 5 Jul 2007 10:47 am Operator: danat
Sample : ic562-0.5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 11:24:40 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(42) 1,4-DIOXANE (m)

11.28min 0.16PPBV m

response 1834

| Ion | Exp% | Act% |
|---|---|---|
| 88.00 | 100 | 100 |
| 57.00 | 19.90 | 0.00 |
| 58.00 | 51.60 | 33.05 |
| 43.00 | 30.20 | 65.80# |

J10860.D J070507T.M Thu Jul 05 11:28:45 2007

Manual Integrations APPROVED (compounds with "m" flag)
Doug Yargeau
07/11/07 09:41

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10861.D
Acq On : 5 Jul 2007 11:40 am
Operator : danat
Sample : ic562-0.2 (M210)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 12:10:09 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 11:24:31 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.61 | 128 | 314205 | 10.00 | PPBV | -0.01 |
| 35) 1,4-DIFLUOROBENZENE | 10.43 | 114 | 1315959 | 10.00 | PPBV | -0.01 |
| 49) CHLOROBENZENE-D5 | 14.66 | 117 | 1039945 | 10.00 | PPBV | -0.01 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.28 | 95 | 267857 | 4.08 | PPBV | -0.01 |

Spiked Amount 5.000 Range 51 - 142 Recovery = 81.60%

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 2) DICHLORODIFLUOROMETHANE | 4.06 | 85 | 21186 | 0.19 | PPBV | 95 |
| 3) PROPYLENE | 4.00 | 41 | 2114 | 0.13 | PPBV | 87 |
| 4) FREON 114 | 4.32 | 85 | 18384 | 0.19 | PPBV | 92 |
| 5) CHLOROMETHANE | 4.23 | 50 | 4882 | 0.20 | PPBV # | 41 |
| 6) VINYL CHLORIDE | 4.44 | 62 | 4391 | 0.16 | PPBV # | 52 |
| 7) 1,3-BUTADIENE | 4.58 | 39 | 2547m | 0.13 | PPBV | |
| 8) BROMOMETHANE | 4.84 | 94 | 5275m | 0.17 | PPBV | |
| 9) CHLOROETHANE | 5.02 | 64 | 1880m | 0.15 | PPBV | |
| 10) TRICHLOROFLUOROMETHANE | 5.79 | 101 | 20139 | 0.17 | PPBV | 97 |
| 12) ACETONE | 5.70 | 43 | 9476 | 0.16 | PPBV | 69 |
| 13) PENTANE | 6.14 | 42 | 4698 | 0.16 | PPBV # | 13 |
| 14) 1,1-DICHLOROETHYLENE | 6.42 | 96 | 3387 | 0.11 | PPBV # | 84 |
| 15) CARBON DISULFIDE | 6.84 | 76 | 16228 | 0.18 | PPBV | 89 |
| 17) BROMOETHENE | 5.38 | 106 | 3106 | 0.10 | PPBV # | 76 |
| 18) METHYLENE CHLORIDE | 6.54 | 84 | 14497 | 0.26 | PPBV | 93 |
| 20) FREON 113 | 6.78 | 151 | 14135 | 0.19 | PPBV | 94 |
| 21) TRANS-1,2-DICHLOROETHYLENE | 7.46 | 96 | 3716 | 0.13 | PPBV # | 12 |
| 23) METHYL TERTIARY BUTYL ETHE | 7.77 | 73 | 6299 | 0.11 | PPBV # | 65 |
| 25) HEXANE | 8.62 | 57 | 7032 | 0.19 | PPBV | 82 |
| 27) 1,1-DICHLOROETHANE | 7.65 | 63 | 8089m | 0.16 | PPBV | |
| 28) METHYL ETHYL KETONE | 8.13 | 43 | 5695m | 0.15 | PPBV | |
| 29) cis-1,2-DICHLOROETHYLENE | 8.45 | 96 | 3794m | 0.14 | PPBV | |
| 30) ETHYL ACETATE | 8.73 | 43 | 6106 | 0.16 | PPBV # | 94 |
| 31) CHLOROFORM | 8.73 | 83 | 12578 | 0.18 | PPBV | 97 |
| 32) 1,1,1-TRICHLOROETHANE | 9.67 | 97 | 12874 | 0.16 | PPBV | 96 |
| 33) CARBON TETRACHLORIDE | 10.25 | 117 | 16993 | 0.17 | PPBV | 98 |
| 34) 1,2-DICHLOROETHANE | 9.44 | 62 | 5489 | 0.13 | PPBV | 74 |
| 36) BENZENE | 10.11 | 78 | 7215 | 0.12 | PPBV | 95 |
| 38) TRICHLOROETHYLENE | 11.10 | 95 | 4041 | 0.12 | PPBV # | 54 |
| 39) 1,2-DICHLOROPROPANE | 10.89 | 63 | 3124 | 0.15 | PPBV # | 37 |
| 40) BROMODICHLOROMETHANE | 11.08 | 83 | 10388 | 0.17 | PPBV | 92 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.12 | 57 | 8438 | 0.09 | PPBV | 85 |
| 48) 1,1,2-TRICHLOROETHANE | 12.62 | 83 | 3088 | 0.14 | PPBV | 92 |
| 51) TETRACHLOROETHYLENE | 14.01 | 164 | 5048 | 0.15 | PPBV | 92 |
| 52) DIBROMOCHLOROMETHANE | 13.32 | 129 | 7812 | 0.15 | PPBV | 94 |
| 53) 1,2-DIBROMOETHANE | 13.56 | 107 | 5001 | 0.15 | PPBV # | 97 |
| 54) CHLOROBENZENE | 14.71 | 112 | 9098 | 0.17 | PPBV | 97 |
| 56) m,p-XYLENE | 15.25 | 106 | 4070 | 0.14 | PPBV | 90 |
| 60) BROMOFORM | 15.39 | 173 | 6630 | 0.13 | PPBV | 96 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.79 | 83 | 7272 | 0.17 | PPBV | 94 |
| 68) m-DICHLOROBENZENE | 17.91 | 146 | 5264 | 0.12 | PPBV | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10861.D
Acq On : 5 Jul 2007 11:40 am
Operator : danat
Sample : ic562-0.2 (M210)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 12:10:09 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 11:24:31 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 69) BENZYL CHLORIDE | 17.89 | 91 | 3365 | 0.10 | PPBV | 68 |
| 70) p-DICHLOROBENZENE | 17.98 | 146 | 4657 | 0.12 | PPBV | 93 |
| 71) o-DICHLOROBENZENE | 18.37 | 146 | 5188 | 0.13 | PPBV | 95 |
| 72) HEXACHLOROBUTADIENE | 20.76 | 225 | 14766 | 0.39 | PPBV | 97 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.27 | 180 | 4132 | 0.26 | PPBV | 93 |

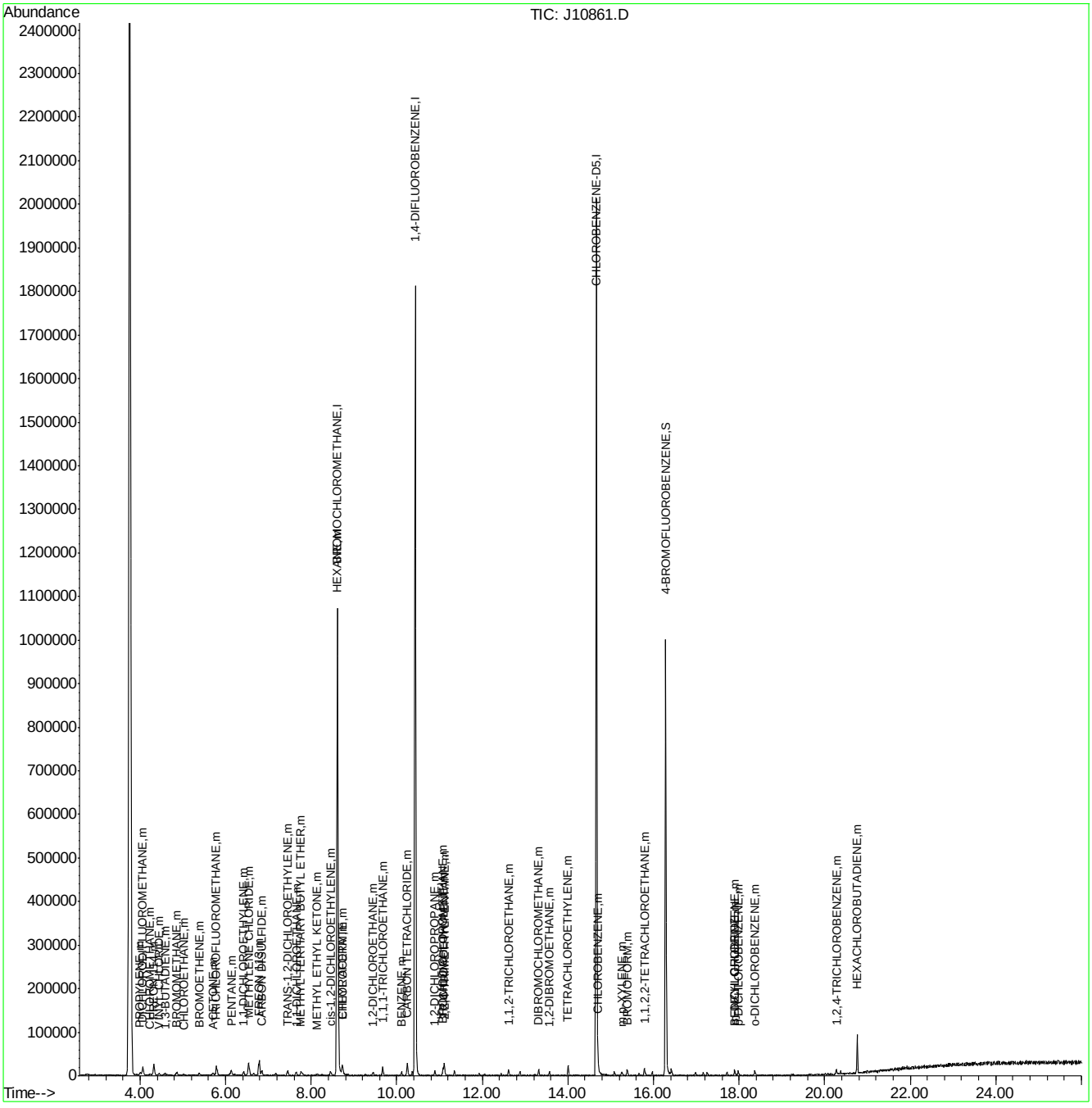
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10861.D
Acq On : 5 Jul 2007 11:40 am
Operator : danat
Sample : ic562-0.2 (M210)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 12:10:09 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 11:24:31 2007
Response via : Initial Calibration





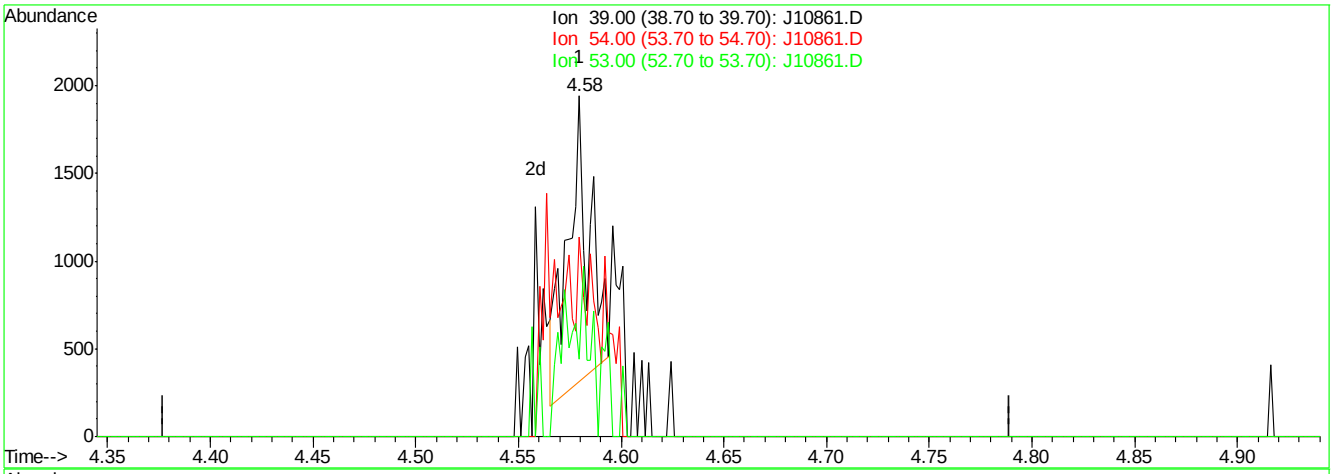

J070507T.M Fri Jul 06 11:18:51 2007 Page: 3

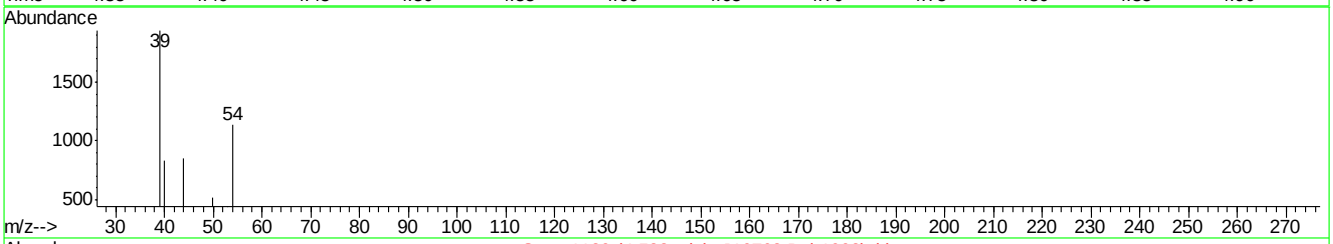
Quantitation Report (Qedit)

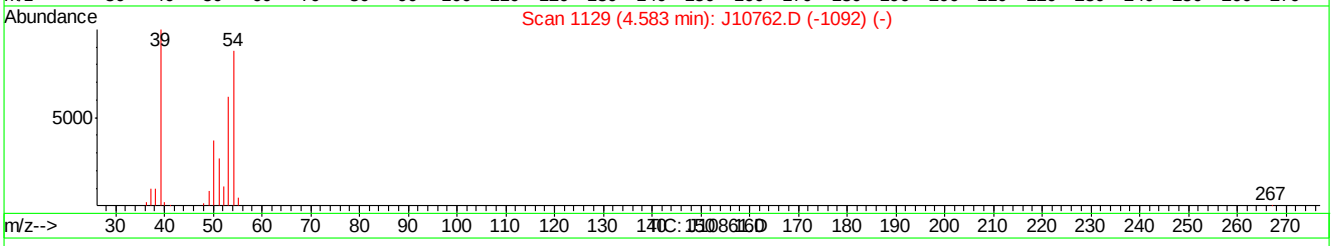
Data File : C:\MSDChem\1\data\J10861.D Vial: 1
Acq On : 5 Jul 2007 11:40 am Operator: danat
Sample : ic562-0.2 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 12:06:13 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(7) 1,3-BUTADIENE (m)

4.58min 0.06PPBV

response 1190

| Ion | Exp% | Act% |
|---|---|---|
| 39.00 | 100 | 100 |
| 54.00 | 92.50 | 0.00# |
| 53.00 | 65.20 | 52.27 |
| 0.00 | 0.00 | 0.00 |

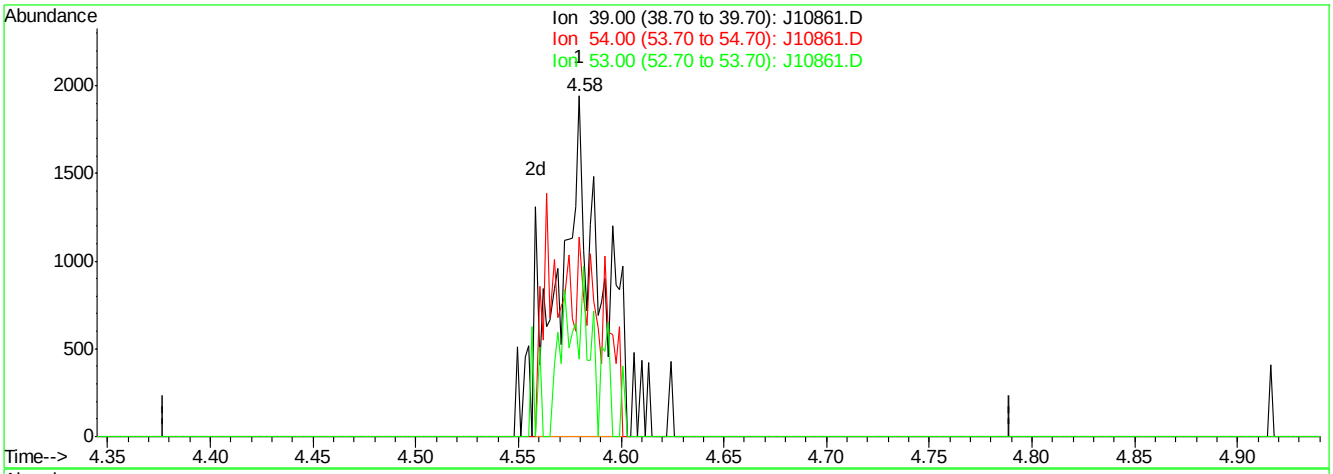
J10861.D J070507T.M Thu Jul 05 12:06:49 2007

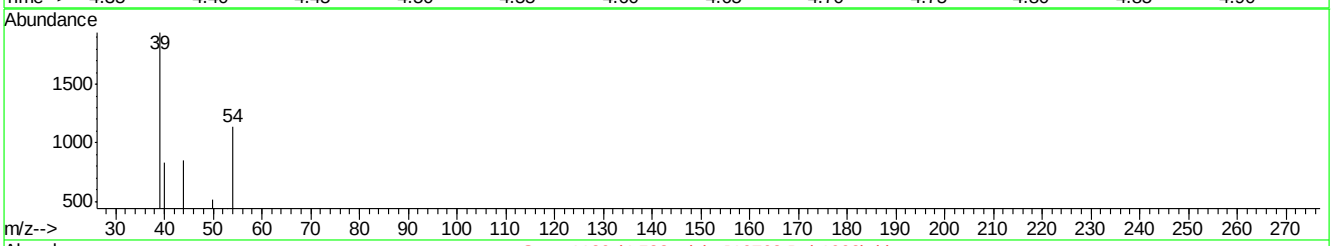
Quantitation Report (Qedit)

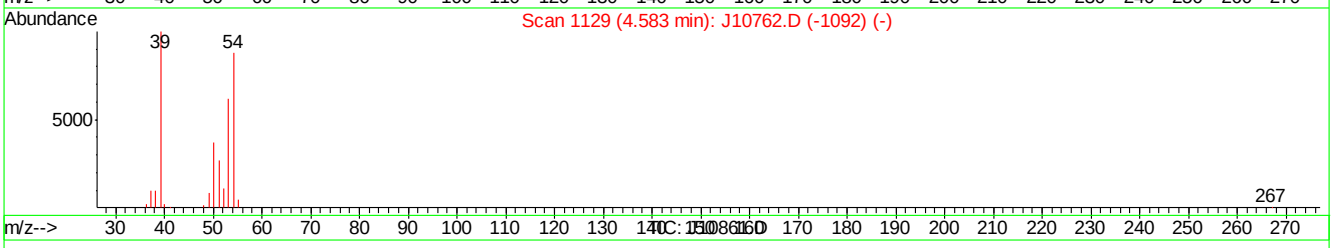
Data File : C:\MSDChem\1\data\J10861.D Vial: 1
Acq On : 5 Jul 2007 11:40 am Operator: danat
Sample : ic562-0.2 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 12:06:13 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(7) 1,3-BUTADIENE (m)

4.58min 0.13PPBV m

response 2547

| Ion | Exp% | Act% |
|---|---|---|
| 39.00 | 100 | 100 |
| 54.00 | 92.50 | 0.00# |
| 53.00 | 65.20 | 24.42# |
| 0.00 | 0.00 | 0.00 |

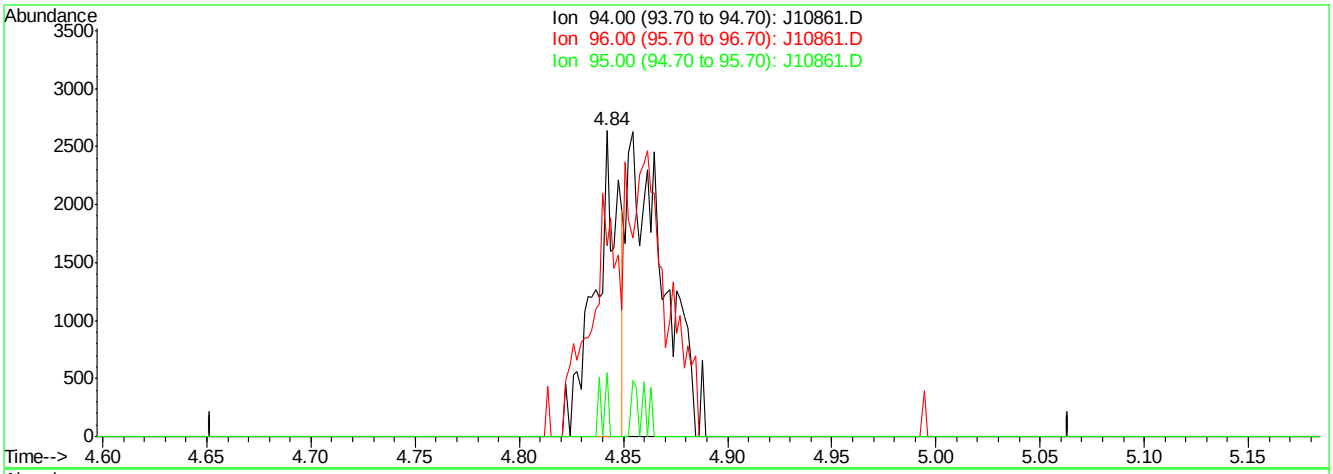
J10861.D J070507T.M Thu Jul 05 12:06:58 2007

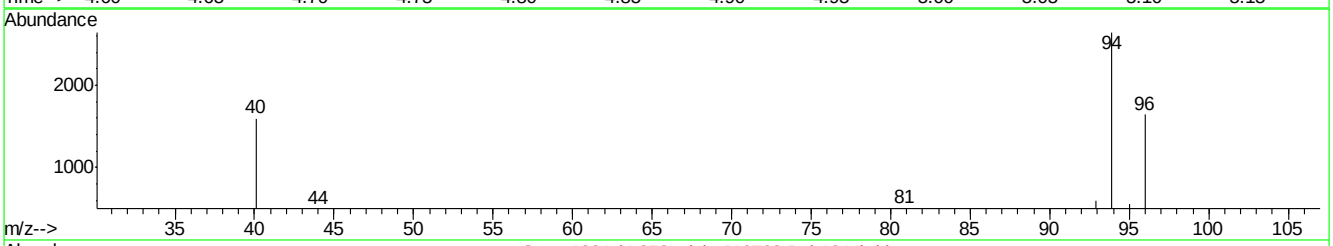
Quantitation Report (Qedit)

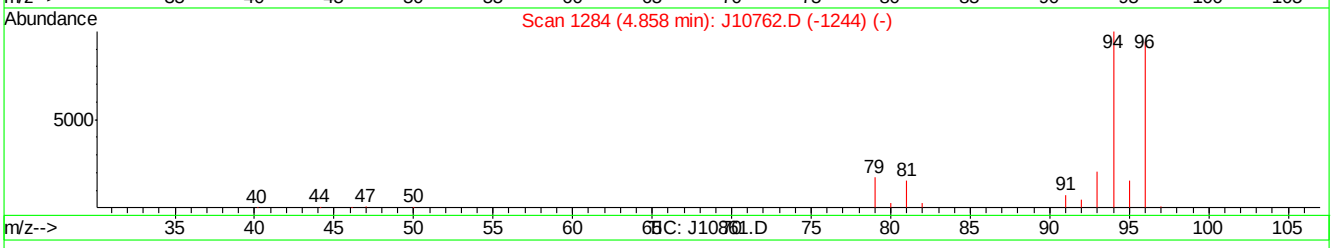
Data File : C:\MSDChem\1\data\J10861.D Vial: 1
Acq On : 5 Jul 2007 11:40 am Operator: danat
Sample : ic562-0.2 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 12:06:13 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(8) BROMOMETHANE (m)

4.84min 0.06PPBV

response 2038

| Ion | Exp% | Act% |
|---|---|---|
| 94.00 | 100 | 100 |
| 96.00 | 94.50 | 93.77 |
| 95.00 | 15.50 | 5.54 |
| 0.00 | 0.00 | 0.00 |

J10861.D J070507T.M Thu Jul 05 12:07:03 2007

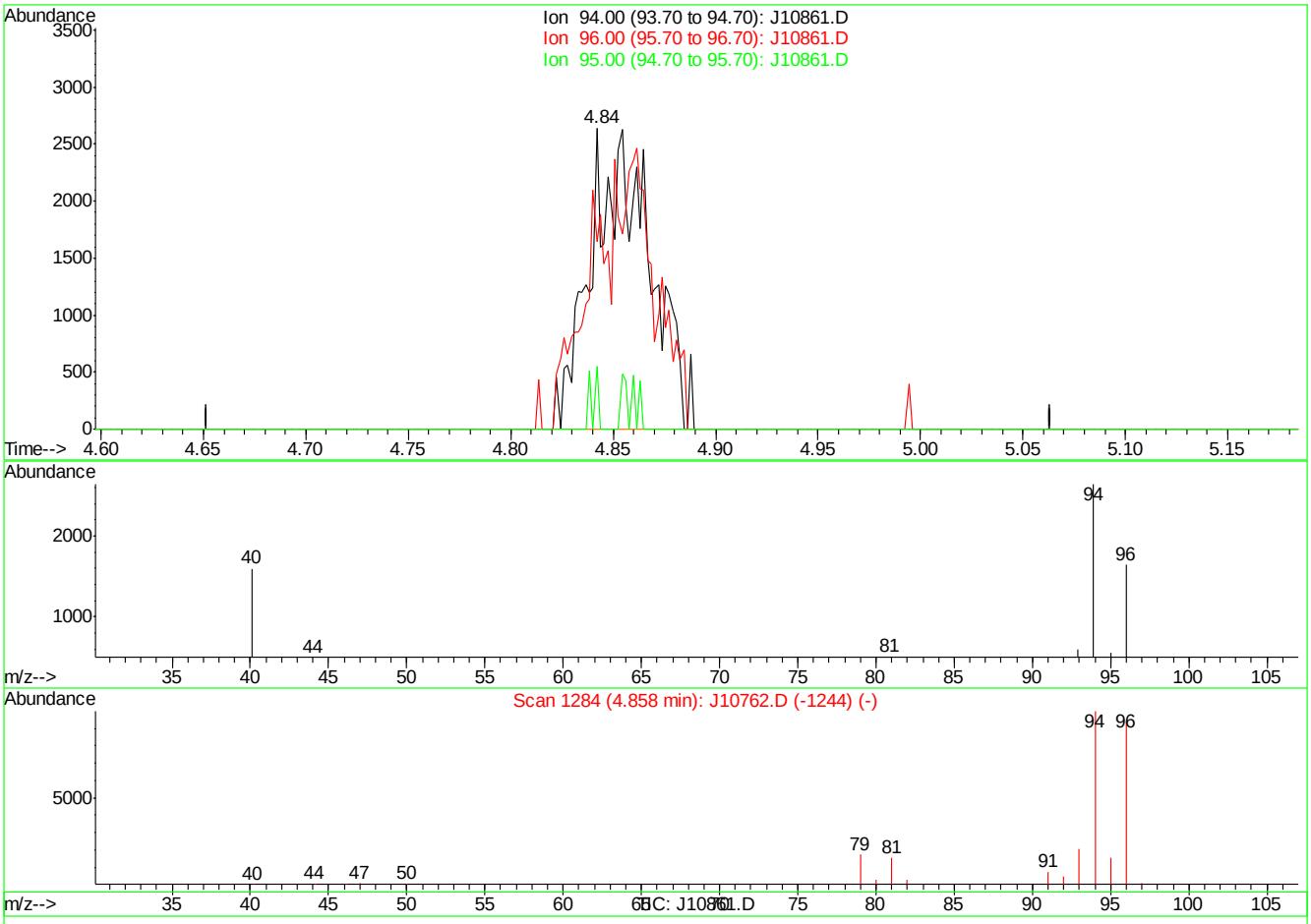
Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10861.D Vial: 1
Acq On : 5 Jul 2007 11:40 am Operator: danat
Sample : ic562-0.2 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 12:06:13 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration






(8) BROMOMETHANE (m)

4.84min 0.17PPBV m

response 5275

| Ion | Exp% | Act% |
|---|---|---|
| 94.00 | 100 | 100 |
| 96.00 | 94.50 | 36.23# |
| 95.00 | 15.50 | 2.14 |
| 0.00 | 0.00 | 0.00 |

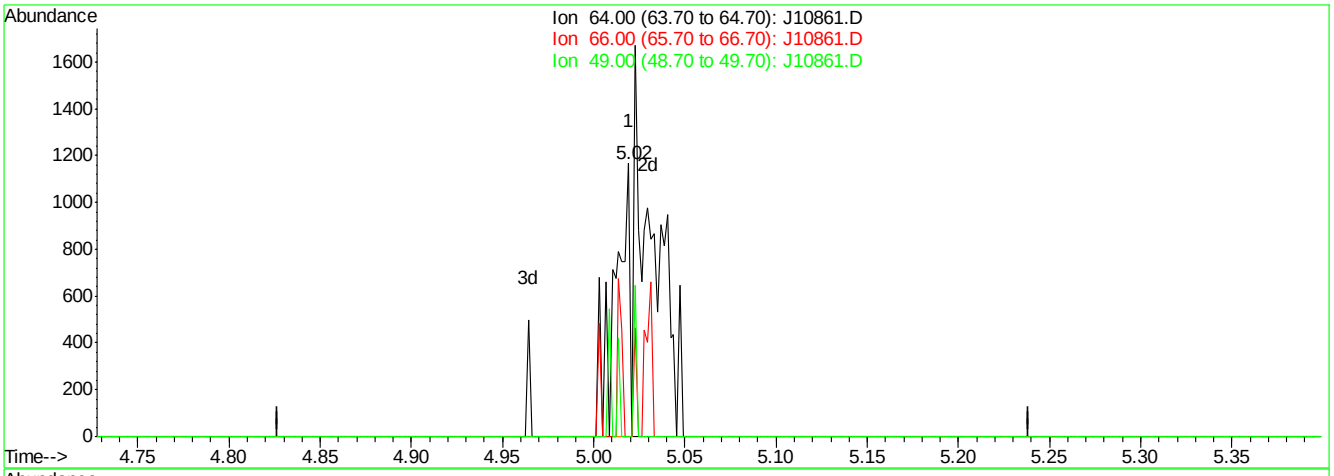
J10861.D J070507T.M Thu Jul 05 12:07:08 2007

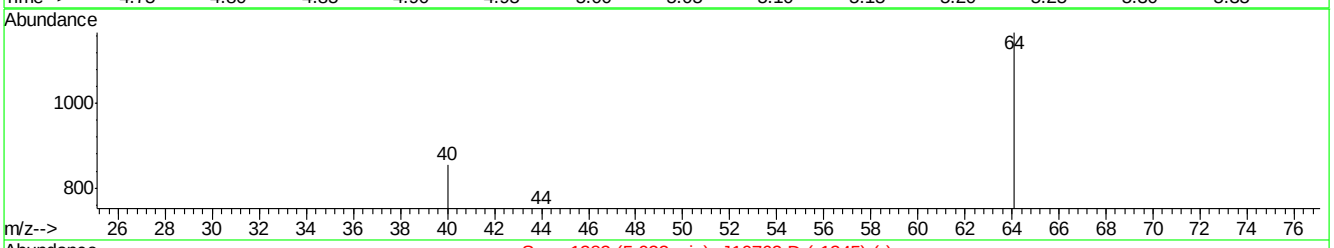
Quantitation Report (Qedit)

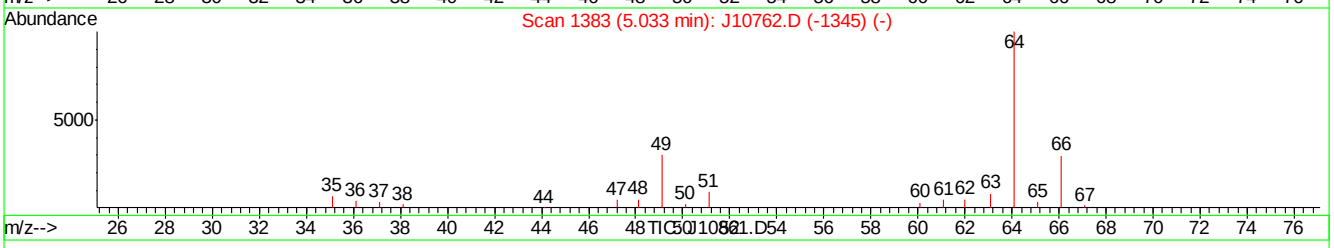
Data File : C:\MSDChem\1\data\J10861.D Vial: 1
Acq On : 5 Jul 2007 11:40 am Operator: danat
Sample : ic562-0.2 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 12:06:13 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(9) CHLOROETHANE (m)

5.02min 0.05PPBV

response 658

| Ion | Exp% | Act% |
|---|---|---|
| 64.00 | 100 | 100 |
| 66.00 | 33.20 | 18.24 |
| 49.00 | 30.60 | 15.65 |
| 0.00 | 0.00 | 0.00 |

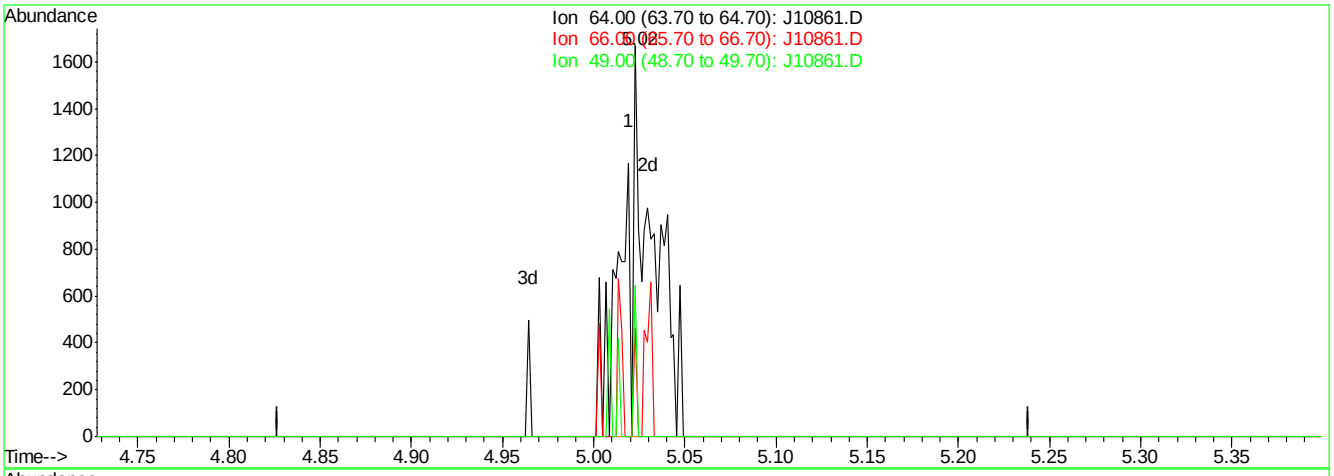
J10861.D J070507T.M Thu Jul 05 12:07:13 2007

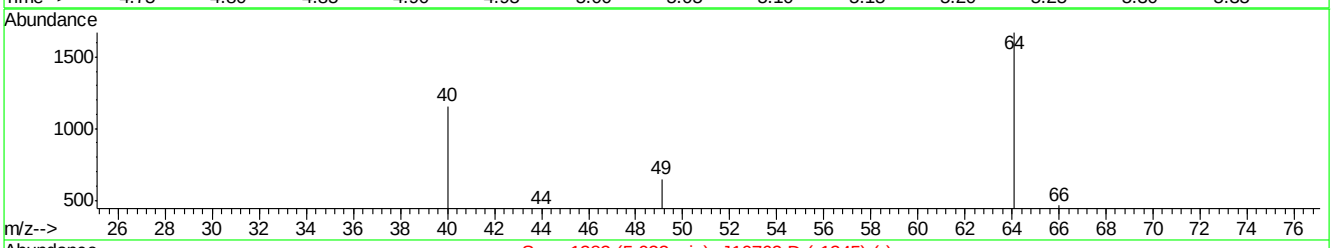
Quantitation Report (Qedit)

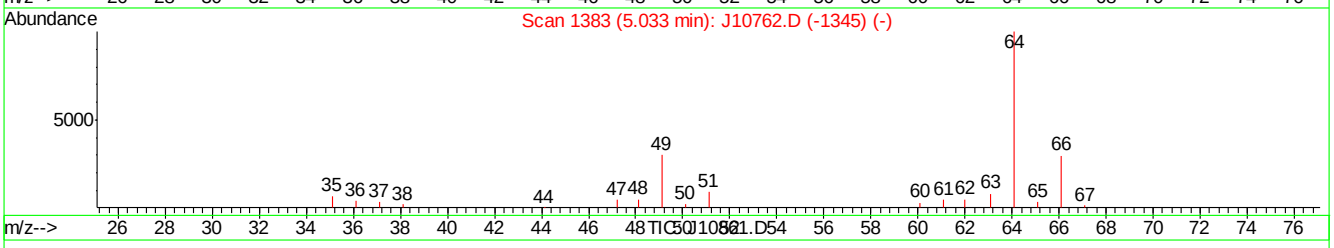
Data File : C:\MSDChem\1\data\J10861.D Vial: 1
Acq On : 5 Jul 2007 11:40 am Operator: danat
Sample : ic562-0.2 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 12:06:13 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(9) CHLOROETHANE (m)

5.02min 0.15PPBV m

response 1880

| Ion | Exp% | Act% |
|---|---|---|
| 64.00 | 100 | 100 |
| 66.00 | 33.20 | 6.38# |
| 49.00 | 30.60 | 5.48# |
| 0.00 | 0.00 | 0.00 |

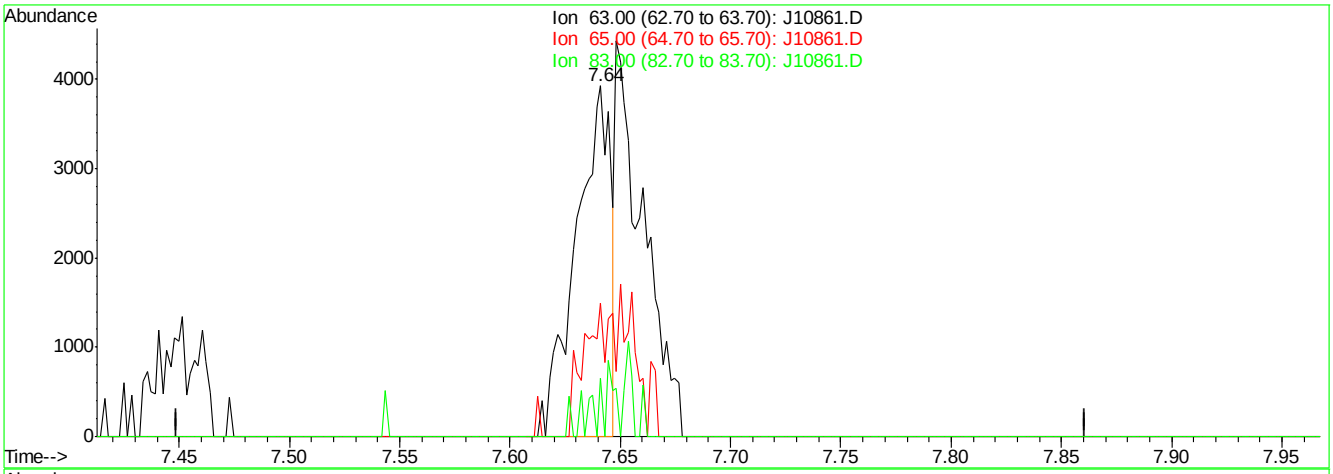
J10861.D J070507T.M Thu Jul 05 12:07:16 2007

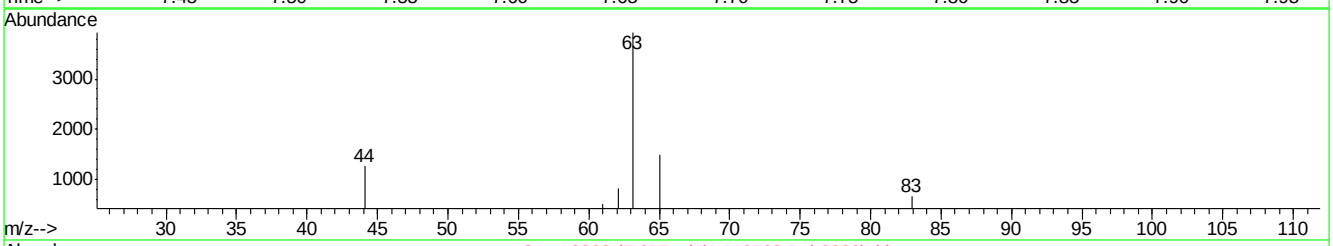
Quantitation Report (Qedit)

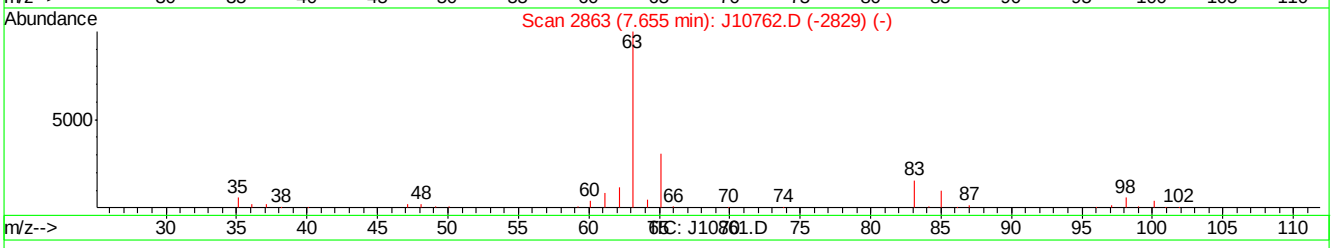
Data File : C:\MSDChem\1\data\J10861.D Vial: 1
Acq On : 5 Jul 2007 11:40 am Operator: danat
Sample : ic562-0.2 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 12:06:13 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(27) 1,1-DICHLOROETHANE (m)

7.64min 0.08PPBV

response 4190

| Ion | Exp% | Act% |
|---|---|---|
| 63.00 | 100 | 100 |
| 65.00 | 32.30 | 0.00# |
| 83.00 | 15.10 | 4.68 |
| 0.00 | 0.00 | 0.00 |

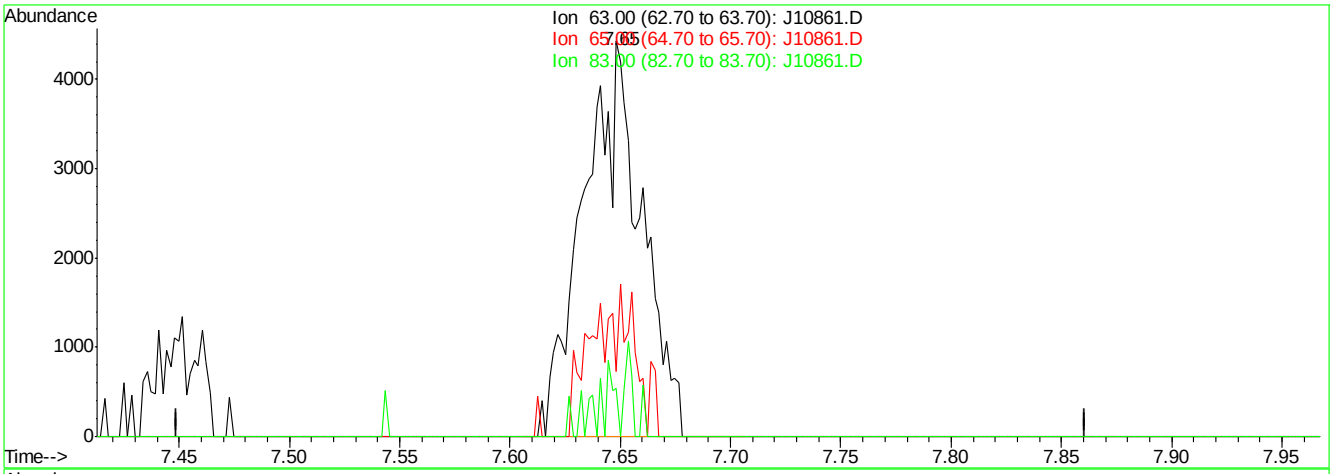
J10861.D J070507T.M Thu Jul 05 12:08:09 2007

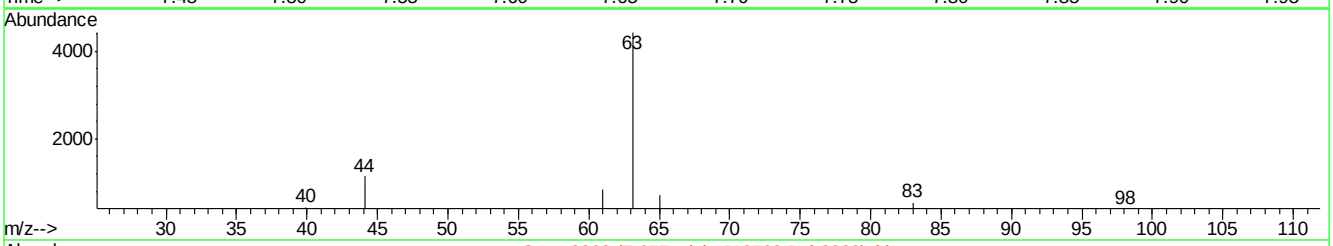
Quantitation Report (Qedit)

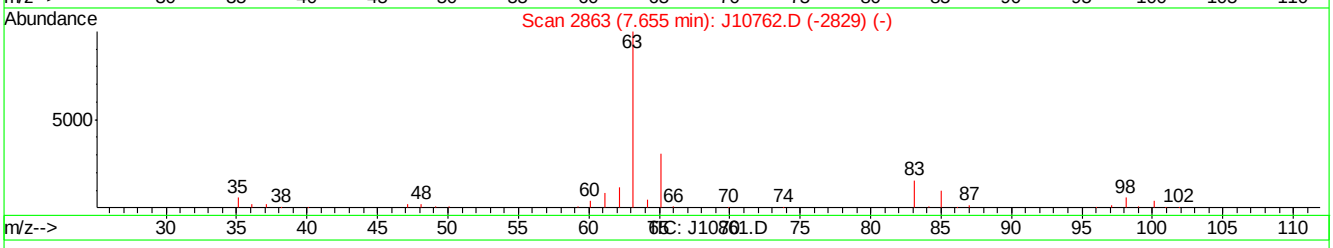
Data File : C:\MSDChem\1\data\J10861.D Vial: 1
Acq On : 5 Jul 2007 11:40 am Operator: danat
Sample : ic562-0.2 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 12:06:13 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(27) 1,1-DICHLOROETHANE (m)

7.65min 0.16PPBV m

response 8089

| Ion | Exp% | Act% |
|---|---|---|
| 63.00 | 100 | 100 |
| 65.00 | 32.30 | 0.00# |
| 83.00 | 15.10 | 2.42 |
| 0.00 | 0.00 | 0.00 |

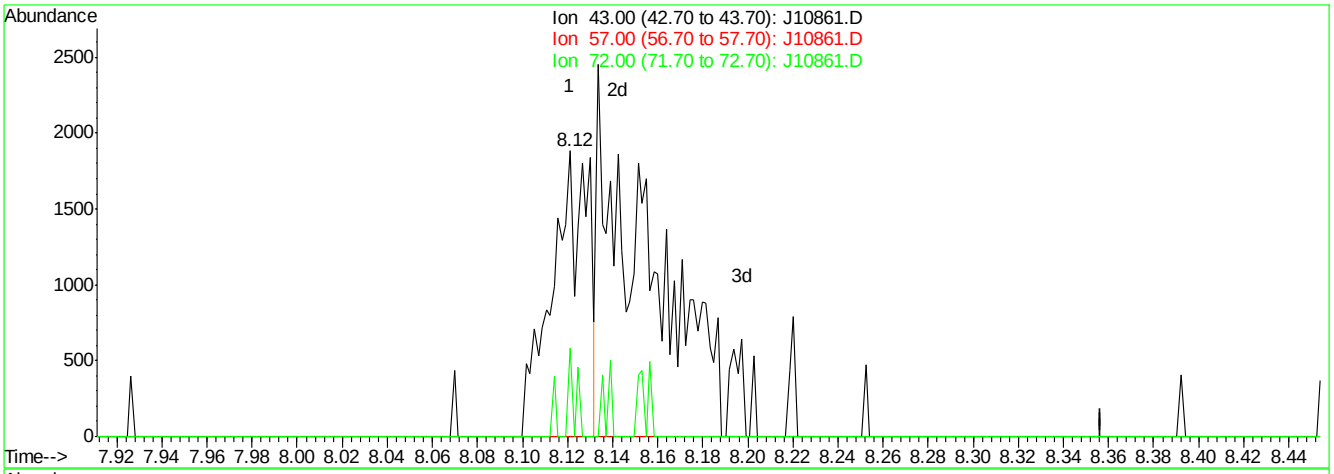
J10861.D J070507T.M Thu Jul 05 12:08:13 2007

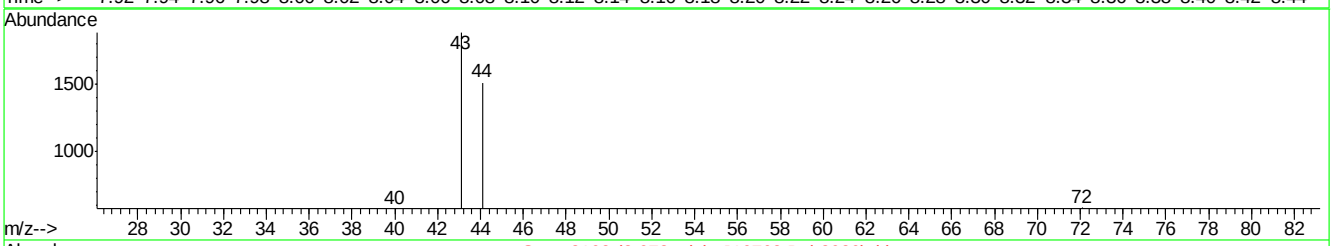
Quantitation Report (Qedit)

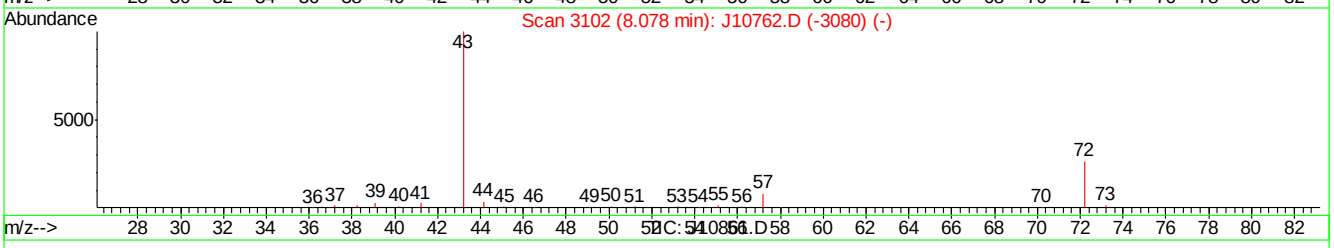
Data File : C:\MSDChem\1\data\J10861.D Vial: 1
Acq On : 5 Jul 2007 11:40 am Operator: danat
Sample : ic562-0.2 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 12:06:13 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(28) METHYL ETHYL KETONE (m)

8.12min 0.05PPBV

response 2089

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 57.00 | 8.00 | 0.00 |
| 72.00 | 26.40 | 30.96 |
| 0.00 | 0.00 | 0.00 |

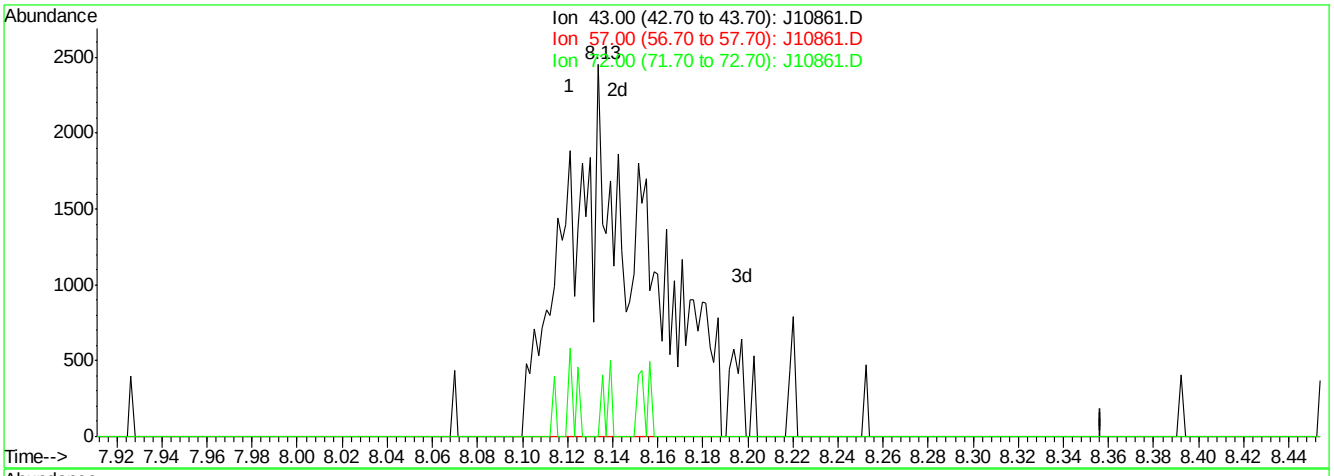
J10861.D J070507T.M Thu Jul 05 12:08:19 2007

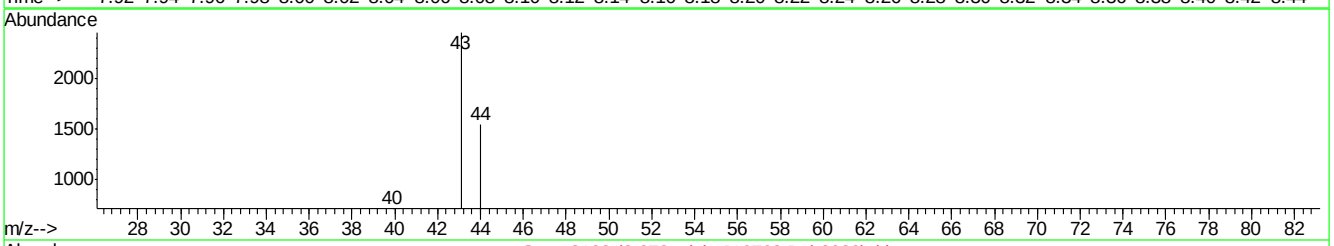
Quantitation Report (Qedit)

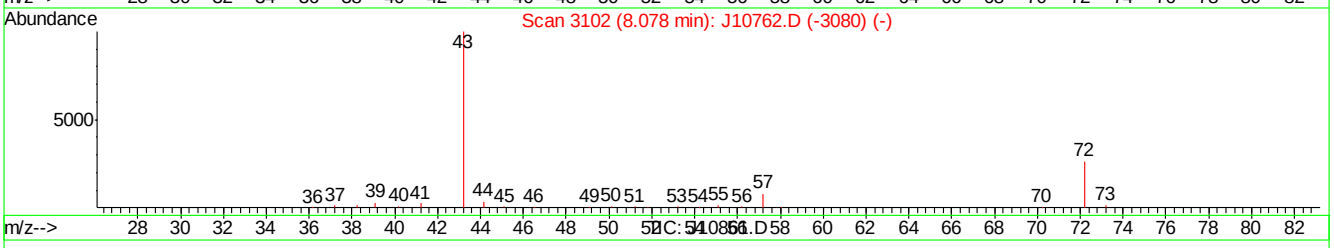
Data File : C:\MSDChem\1\data\J10861.D Vial: 1
Acq On : 5 Jul 2007 11:40 am Operator: danat
Sample : ic562-0.2 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 12:06:13 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(28) METHYL ETHYL KETONE (m)

8.13min 0.15PPBV m

response 5695

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 57.00 | 8.00 | 0.00 |
| 72.00 | 26.40 | 0.00# |
| 0.00 | 0.00 | 0.00 |

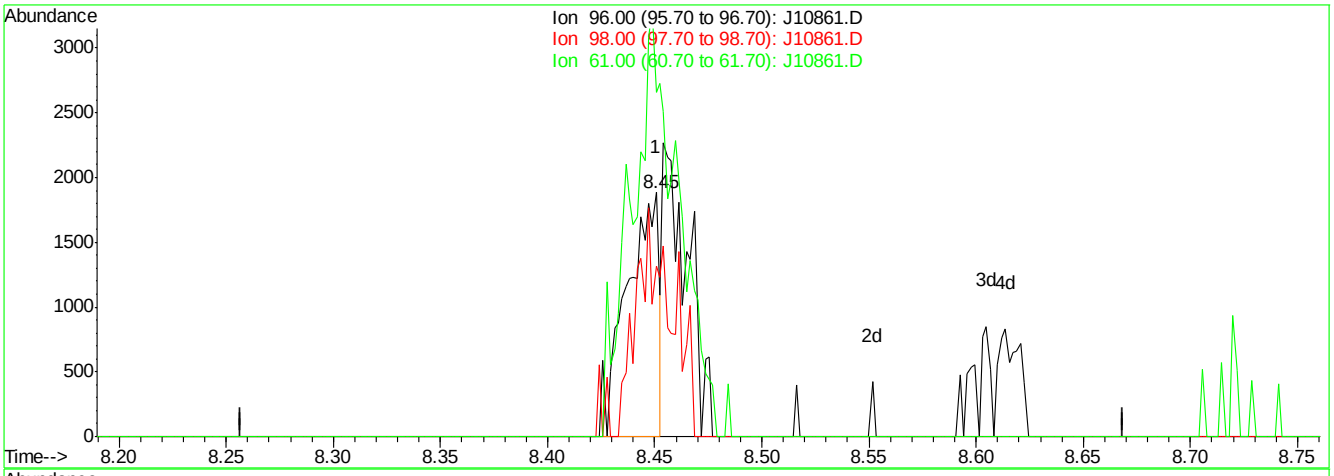
J10861.D J070507T.M Thu Jul 05 12:08:24 2007

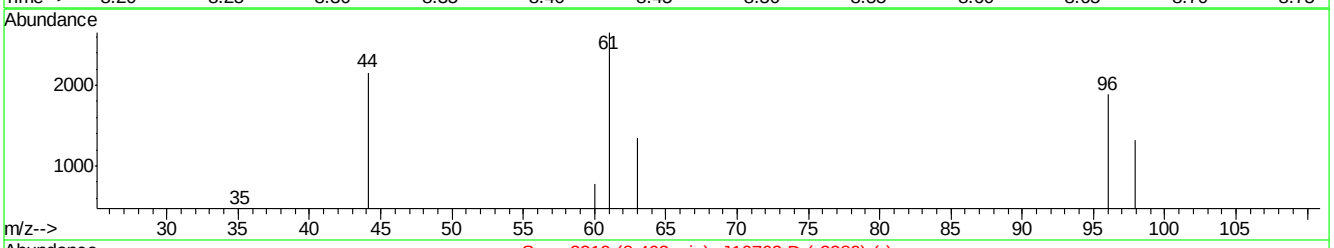
Quantitation Report (Qedit)

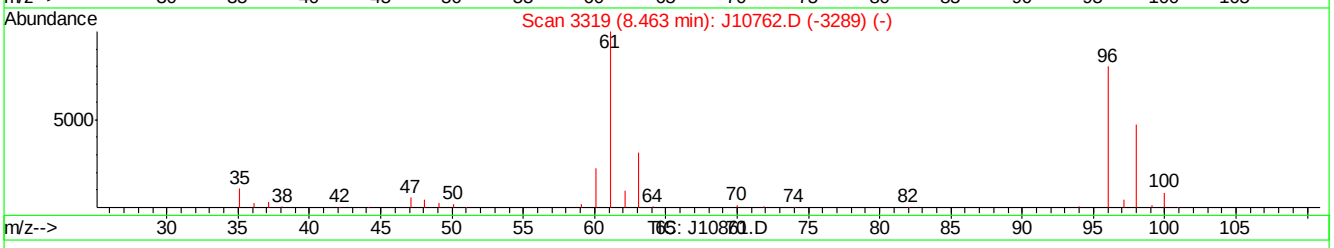
Data File : C:\MSDChem\1\data\J10861.D Vial: 1
Acq On : 5 Jul 2007 11:40 am Operator: danat
Sample : ic562-0.2 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 12:06:13 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(29) cis-1,2-DICHLOROETHYLENE (m)

8.45min 0.07PPBV

response 1947

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 98.00 | 64.90 | 103.85# |
| 61.00 | 125.50 | 259.42# |
| 0.00 | 0.00 | 0.00 |

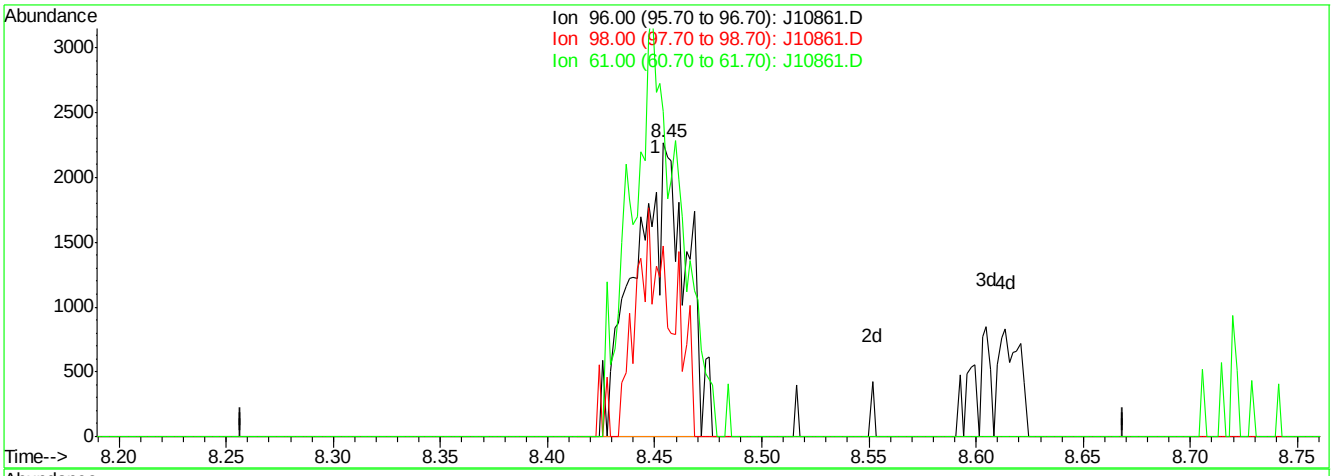
J10861.D J070507T.M Thu Jul 05 12:08:30 2007

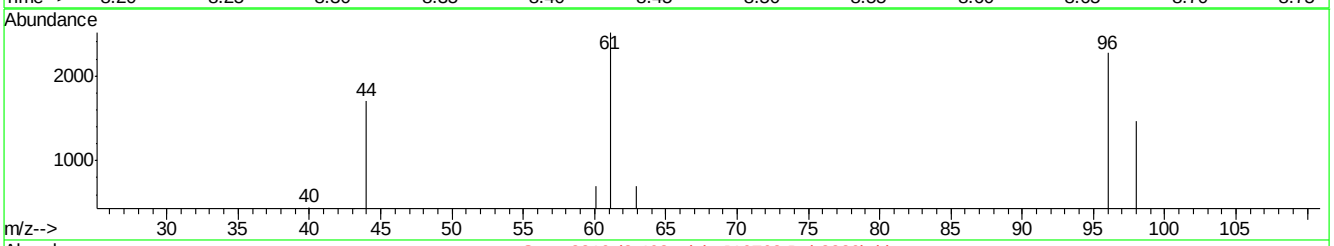
Quantitation Report (Qedit)

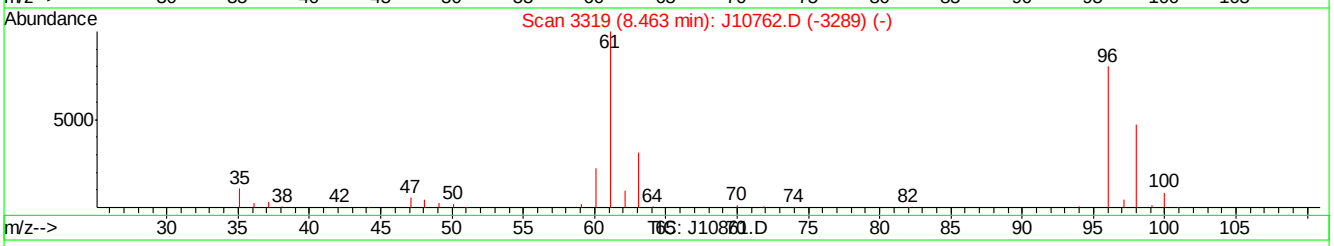
Data File : C:\MSDChem\1\data\J10861.D Vial: 1
Acq On : 5 Jul 2007 11:40 am Operator: danat
Sample : ic562-0.2 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 12:06:13 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(29) cis-1,2-DICHLOROETHYLENE (m)

8.45min 0.14PPBV m

response 3794

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 98.00 | 64.90 | 53.29 |
| 61.00 | 125.50 | 133.13 |
| 0.00 | 0.00 | 0.00 |

J10861.D J070507T.M Thu Jul 05 12:08:35 2007

Manual Integrations APPROVED (compounds with "m" flag)
Doug Yargeau 07/11/07 09:41

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10863.D
Acq On : 5 Jul 2007 1:26 pm
Operator : danat
Sample : ic562-40 (M210)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 13:58:42 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 11:24:31 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.62 | 128 | 350136 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.45 | 114 | 1441648 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.70 | 117 | 1373333 | 10.00 | PPBV | 0.02 |
| System Monitoring Compounds | | | | | | |
| 61) 4-BROMOFLUOROBENZENE | 16.32 | 95 | 492873 | 5.68 | PPBV | 0.03 |
| Spiked Amount 5.000 | Range 51 - 142 | | Recovery | = 113.60% | | |
| Target Compounds | | | | | | Qvalue |
| 2) DICHLORODIFLUOROMETHANE | 4.07 | 85 | 4444007 | 35.65 | PPBV | 99 |
| 3) PROPYLENE | 3.99 | 41 | 815972 | 44.50 | PPBV | 100 |
| 4) FREON 114 | 4.32 | 85 | 4101699 | 37.77 | PPBV | 98 |
| 5) CHLOROMETHANE | 4.23 | 50 | 1068221 | 39.59 | PPBV | 97 |
| 6) VINYL CHLORIDE | 4.44 | 62 | 1260210 | 40.71 | PPBV | 99 |
| 7) 1,3-BUTADIENE | 4.57 | 39 | 995442 | 45.46 | PPBV | 96 |
| 8) BROMOMETHANE | 4.85 | 94 | 1361965 | 38.79 | PPBV | 99 |
| 9) CHLOROETHANE | 5.01 | 64 | 596148 | 41.60 | PPBV | 99 |
| 10) TRICHLOROFLUOROMETHANE | 5.78 | 101 | 4564557 | 34.85 | PPBV | 100 |
| 11) ISOPROPYL ALCOHOL | 6.04 | 45 | 1543457m | 38.89 | PPBV | |
| 12) ACETONE | 5.64 | 43 | 1581089 | 23.31 | PPBV | 98 |
| 13) PENTANE | 6.12 | 42 | 1150710 | 35.99 | PPBV | 99 |
| 14) 1,1-DICHLOROETHYLENE | 6.41 | 96 | 1386047 | 41.48 | PPBV | 99 |
| 15) CARBON DISULFIDE | 6.83 | 76 | 3945499 | 38.93 | PPBV | 99 |
| 16) ETHANOL | 5.23 | 45 | 276078 | 39.16 | PPBV | 87 |
| 17) BROMOETHENE | 5.37 | 106 | 1382133 | 40.81 | PPBV | 99 |
| 18) METHYLENE CHLORIDE | 6.53 | 84 | 1229697 | 19.57 | PPBV | 97 |
| 19) 3-CHLOROPROPENE | 6.65 | 39 | 1373628 | 52.05 | PPBV | 89 |
| 20) FREON 113 | 6.77 | 151 | 2904178 | 35.42 | PPBV | 96 |
| 21) TRANS-1,2-DICHLOROETHYLENE | 7.44 | 96 | 1377181 | 42.68 | PPBV | 99 |
| 22) TERTIARY BUTYL ALCOHOL | 6.65 | 59 | 1955300m | 44.82 | PPBV | |
| 23) METHYL TERTIARY BUTYL ETHE | 7.72 | 73 | 2924308 | 43.75 | PPBV | 98 |
| 24) TETRAHYDROFURAN | 9.17 | 42 | 964987 | 47.57 | PPBV | 98 |
| 25) HEXANE | 8.62 | 57 | 1620784 | 39.94 | PPBV | 98 |
| 26) VINYL ACETATE | 7.80 | 43 | 2065370 | 46.38 | PPBV | 98 |
| 27) 1,1-DICHLOROETHANE | 7.65 | 63 | 2382057 | 42.28 | PPBV | 99 |
| 28) METHYL ETHYL KETONE | 8.09 | 43 | 1890243 | 44.58 | PPBV | 95 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.45 | 96 | 1379003 | 44.82 | PPBV | 98 |
| 30) ETHYL ACETATE | 8.70 | 43 | 2142500 | 48.89 | PPBV | 96 |
| 31) CHLOROFORM | 8.75 | 83 | 3258334 | 41.25 | PPBV | 99 |
| 32) 1,1,1-TRICHLOROETHANE | 9.68 | 97 | 3768097 | 41.18 | PPBV | 99 |
| 33) CARBON TETRACHLORIDE | 10.26 | 117 | 4303561 | 37.98 | PPBV | 100 |
| 34) 1,2-DICHLOROETHANE | 9.46 | 62 | 1920339 | 42.15 | PPBV | 99 |
| 36) BENZENE | 10.13 | 78 | 3699200 | 54.81 | PPBV | 99 |
| 37) CYCLOHEXANE | 10.36 | 84 | 1606095 | 49.10 | PPBV | 97 |
| 38) TRICHLOROETHYLENE | 11.13 | 95 | 1903469 | 51.06 | PPBV | 100 |
| 39) 1,2-DICHLOROPROPANE | 10.91 | 63 | 1202107 | 52.61 | PPBV | 96 |
| 40) BROMODICHLOROMETHANE | 11.11 | 83 | 3256427 | 48.55 | PPBV | 99 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.13 | 57 | 5986544 | 58.67 | PPBV | 98 |
| 42) 1,4-DIOXANE | 11.20 | 88 | 646557 | 51.51 | PPBV | 94 |
| 43) HEPTANE | 11.37 | 43 | 1890518 | 58.66 | PPBV | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10863.D
Acq On : 5 Jul 2007 1:26 pm
Operator : danat
Sample : ic562-40 (M210)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 13:58:42 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 11:24:31 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 12.03 | 43 | 2305916 | 56.42 | PPBV | 99 |
| 45) cis-1,3-DICHLOROPROPENE | 11.95 | 75 | 1815083 | 59.05 | PPBV | 96 |
| 46) TOLUENE | 12.90 | 92 | 2637403 | 58.93 | PPBV | 99 |
| 47) trans-1,3-DICHLOROPROPENE | 12.47 | 75 | 1814273 | 63.58 | PPBV | 97 |
| 48) 1,1,2-TRICHLOROETHANE | 12.65 | 83 | 1219933 | 49.46 | PPBV | 99 |
| 50) 2-HEXANONE | 13.21 | 43 | 1966322 | 59.45 | PPBV | 99 |
| 51) TETRACHLOROETHYLENE | 14.03 | 164 | 2213972 | 48.65 | PPBV | 99 |
| 52) DIBROMOCHLOROMETHANE | 13.36 | 129 | 3111378 | 45.75 | PPBV | 100 |
| 53) 1,2-DIBROMOETHANE | 13.61 | 107 | 2306336 | 51.13 | PPBV | 100 |
| 54) CHLOROBENZENE | 14.74 | 112 | 3586892 | 49.65 | PPBV | 100 |
| 55) ETHYLBENZENE | 15.12 | 91 | 5764119 | 61.29 | PPBV | 100 |
| 56) m,p-XYLENE | 15.31 | 106 | 4830541 | 124.27 | PPBV | 99 |
| 57) o-XYLENE | 15.82 | 106 | 2433592 | 63.87 | PPBV | 99 |
| 58) STYRENE | 15.70 | 104 | 3465000 | 75.07 | PPBV | 99 |
| 59) NONANE | 15.99 | 43 | 2563975 | 57.85 | PPBV | 99 |
| 60) BROMOFORM | 15.44 | 173 | 3253840m | 49.55 | PPBV | |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.83 | 83 | 3198938 | 55.02 | PPBV | 99 |
| 63) ISOPROPYLBENZENE | 16.45 | 105 | 6811310 | 62.07 | PPBV | 100 |
| 64) 2-CHLOROTOLUENE | 17.01 | 91 | 4871458 | 66.10 | PPBV | 99 |
| 65) 4-ETHYLTOLUENE | 17.19 | 105 | 6684323 | 74.07 | PPBV | 100 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.28 | 105 | 5920272 | 68.25 | PPBV | 99 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.74 | 105 | 5542437 | 72.98 | PPBV | 99 |
| 68) m-DICHLOROBENZENE | 17.93 | 146 | 4062798 | 70.10 | PPBV | 99 |
| 69) BENZYL CHLORIDE | 17.91 | 91 | 3384523 | 74.10 | PPBV | 99 |
| 70) p-DICHLOROBENZENE | 18.00 | 146 | 3828818 | 72.85 | PPBV | 99 |
| 71) o-DICHLOROBENZENE | 18.39 | 146 | 3460186 | 66.68 | PPBV | 98 |
| 72) HEXACHLOROBUTADIENE | 20.76 | 225 | 1703155 | 34.19 | PPBV | 99 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.28 | 180 | 1097085 | 51.95 | PPBV | 99 |

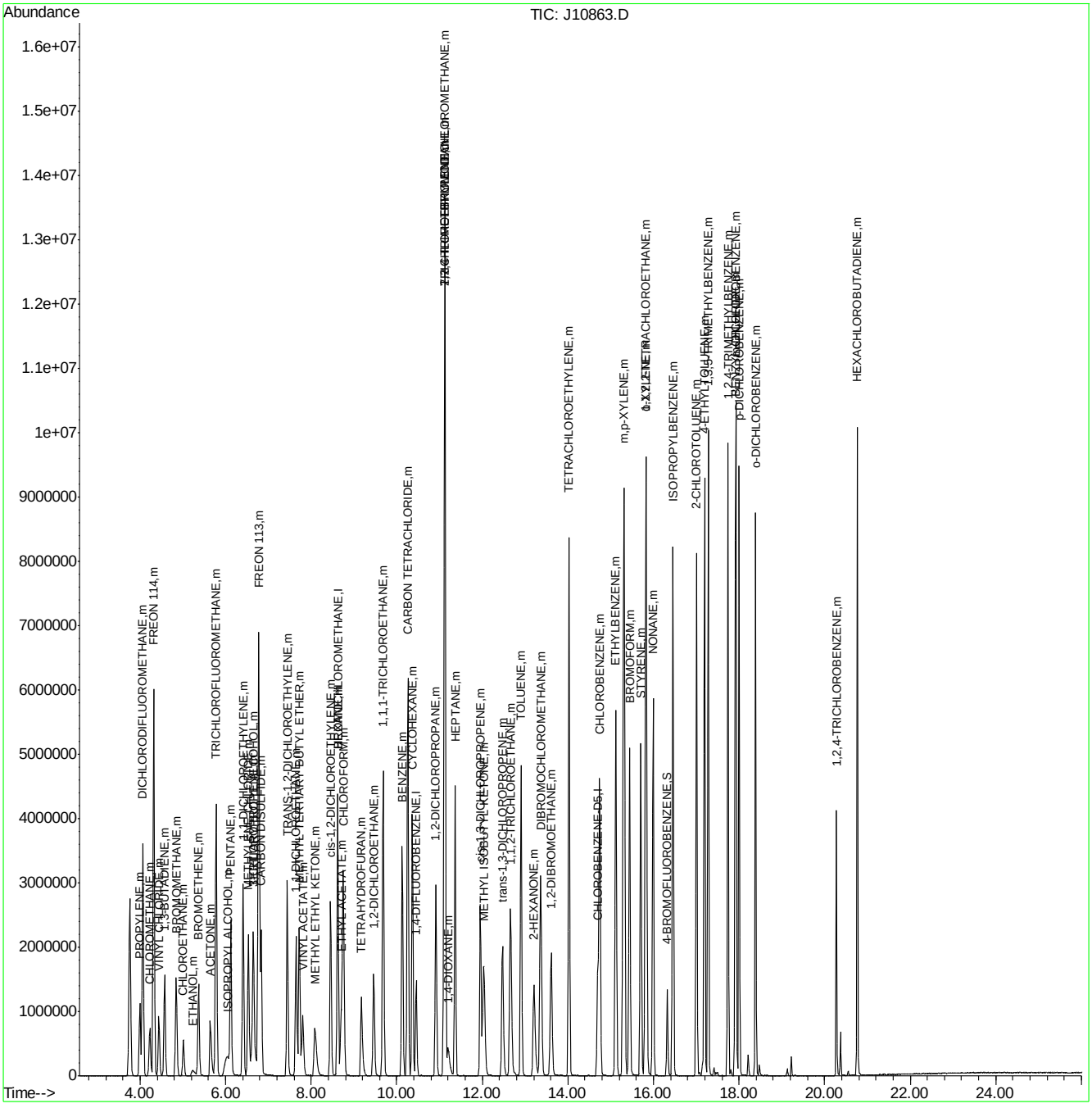
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10863.D
Acq On : 5 Jul 2007 1:26 pm
Operator : danat
Sample : ic562-40 (M210)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 13:58:42 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 11:24:31 2007
Response via : Initial Calibration







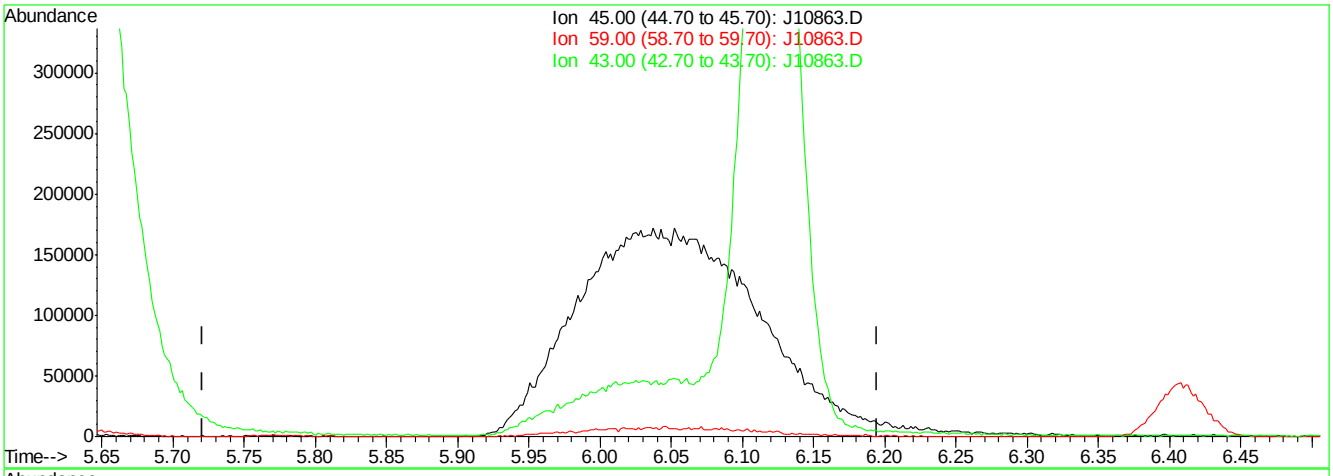

ACCUTEST Laboratories M66578

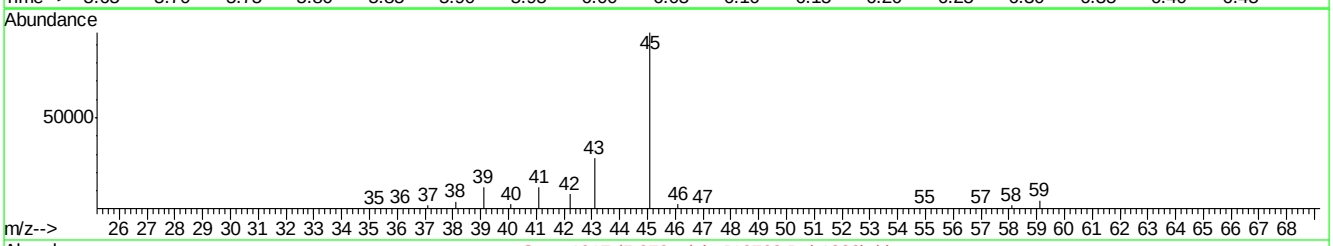
Quantitation Report (Qedit)

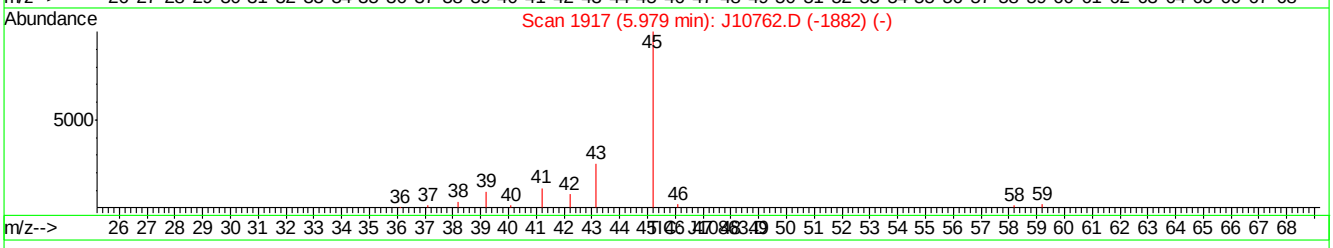
Data File : C:\MSDChem\1\data\J10863.D Vial: 1
Acq On : 5 Jul 2007 1:26 pm Operator: danat
Sample : ic562-40 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 13:56:42 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(11) ISOPROPYL ALCOHOL (m)

5.98min 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 0.00 |
| 59.00 | 2.20 | 0.00 |
| 43.00 | 25.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |

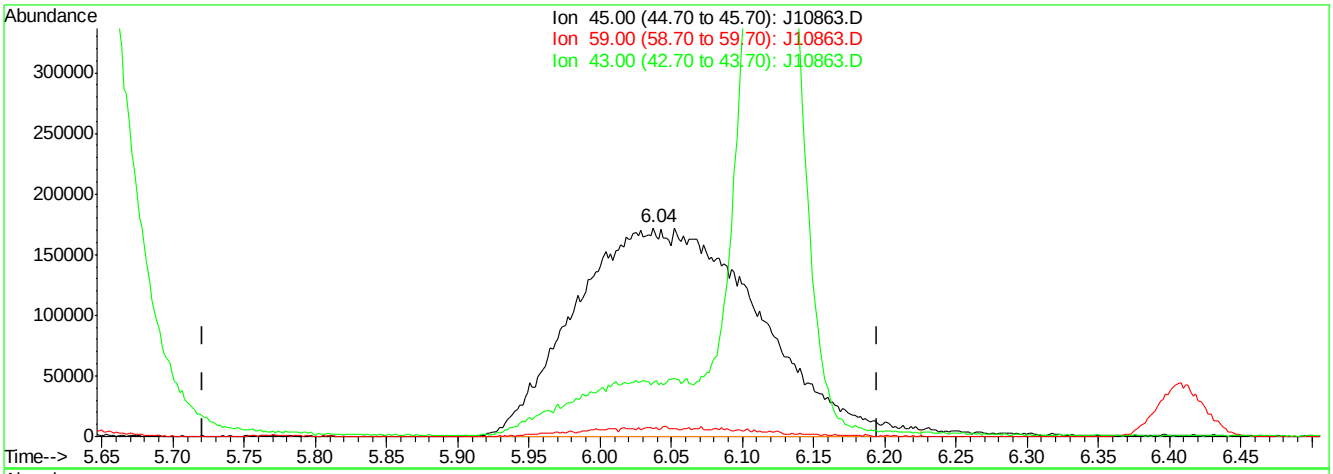
J10863.D J070507T.M Thu Jul 05 13:57:14 2007

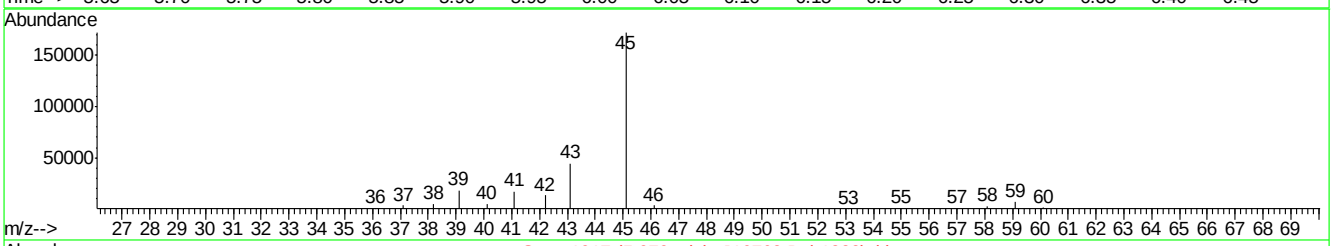
Quantitation Report (Qedit)

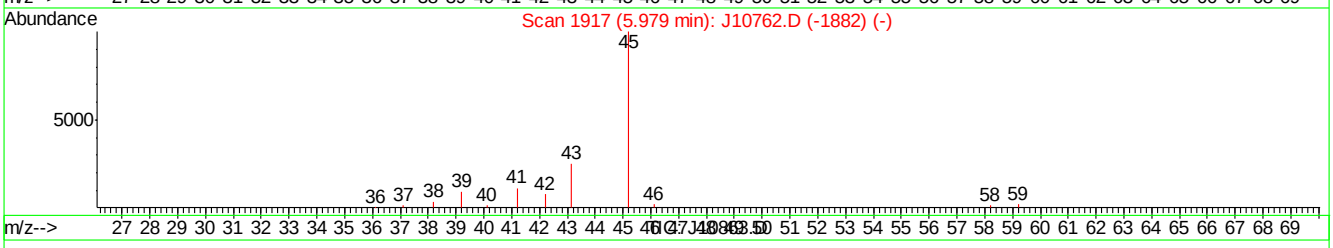
Data File : C:\MSDChem\1\data\J10863.D Vial: 1
Acq On : 5 Jul 2007 1:26 pm Operator: danat
Sample : ic562-40 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 13:56:42 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(11) ISOPROPYL ALCOHOL (m)

6.04min 38.89PPBV m

response 1543457

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 59.00 | 2.20 | 4.03 |
| 43.00 | 25.50 | 25.95 |
| 0.00 | 0.00 | 0.00 |

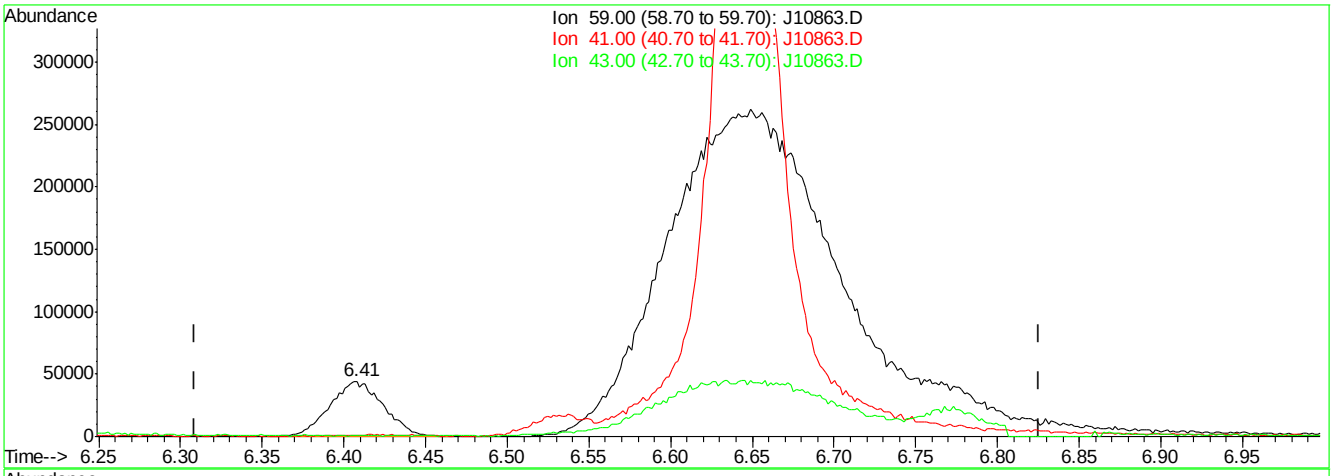
J10863.D J070507T.M Thu Jul 05 13:57:20 2007

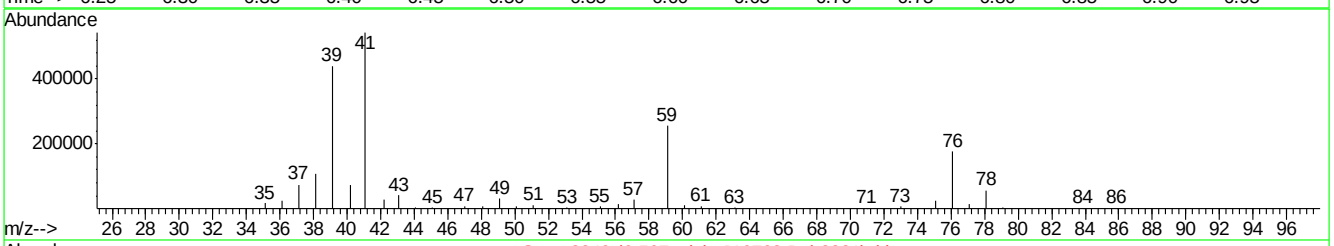
Quantitation Report (Qedit)

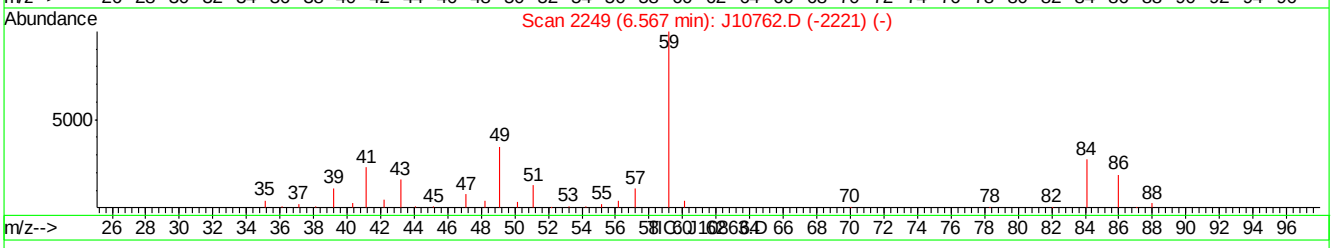
Data File : C:\MSDChem\1\data\J10863.D Vial: 1
Acq On : 5 Jul 2007 1:26 pm Operator: danat
Sample : ic562-40 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 13:56:42 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(22) TERTIARY BUTYL ALCOHOL (m)

6.41min 2.31PPBV

response 100889

| Ion | Exp% | Act% |
|---|---|---|
| 59.00 | 100 | 100 |
| 41.00 | 22.00 | 0.00# |
| 43.00 | 17.20 | 0.00 |
| 0.00 | 0.00 | 0.00 |

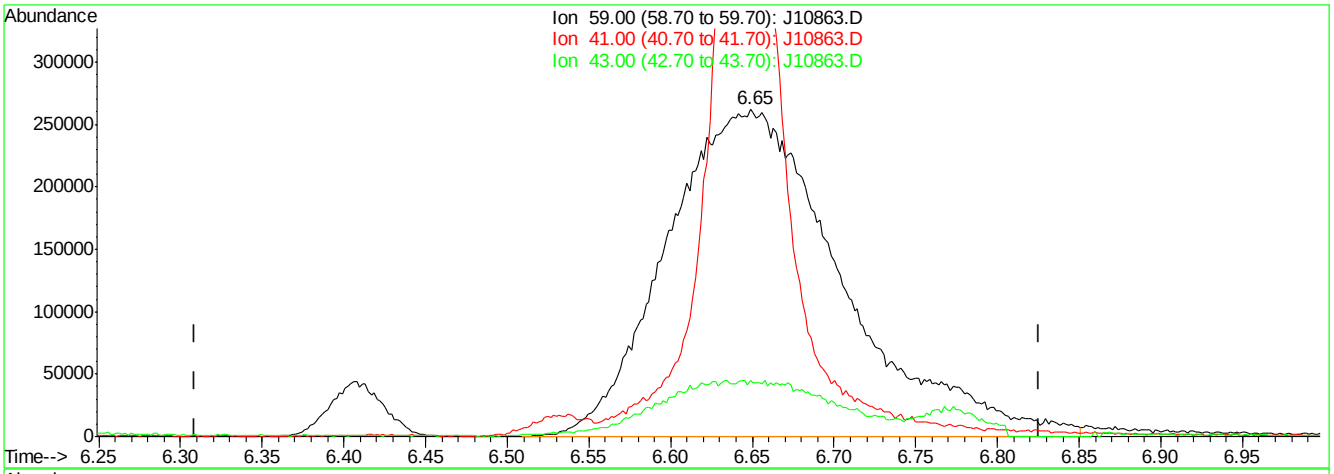
J10863.D J070507T.M Thu Jul 05 13:57:43 2007

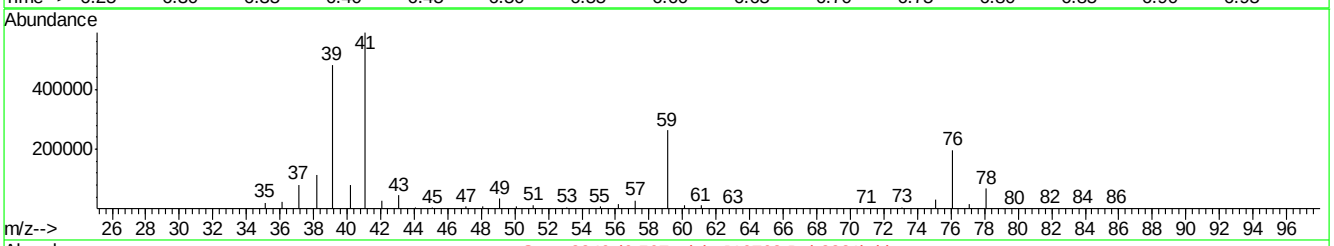
Quantitation Report (Qedit)

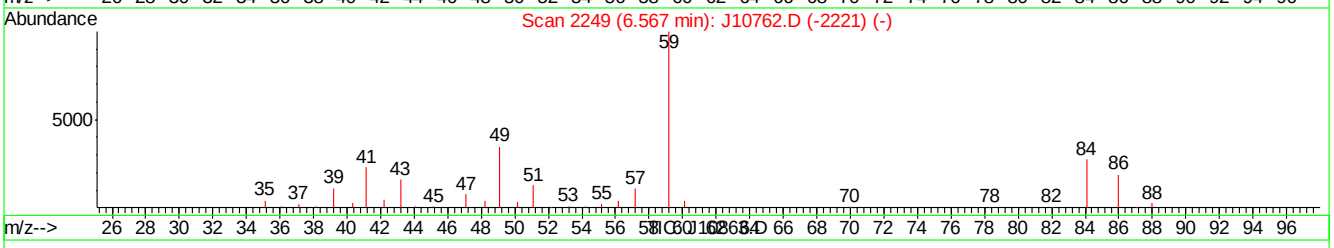
Data File : C:\MSDChem\1\data\J10863.D Vial: 1
Acq On : 5 Jul 2007 1:26 pm Operator: danat
Sample : ic562-40 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 13:56:42 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(22) TERTIARY BUTYL ALCOHOL (m)

6.65min 44.82PPBV m

response 1955300

| Ion | Exp% | Act% |
|---|---|---|
| 59.00 | 100 | 100 |
| 41.00 | 22.00 | 0.00# |
| 43.00 | 17.20 | 0.00 |
| 0.00 | 0.00 | 0.00 |

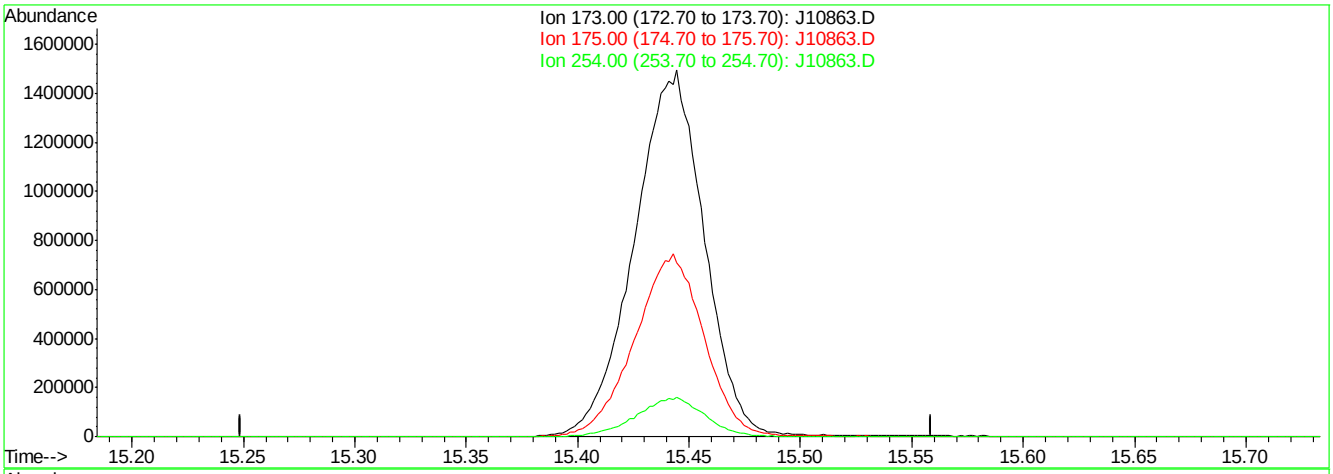
J10863.D J070507T.M Thu Jul 05 13:57:49 2007

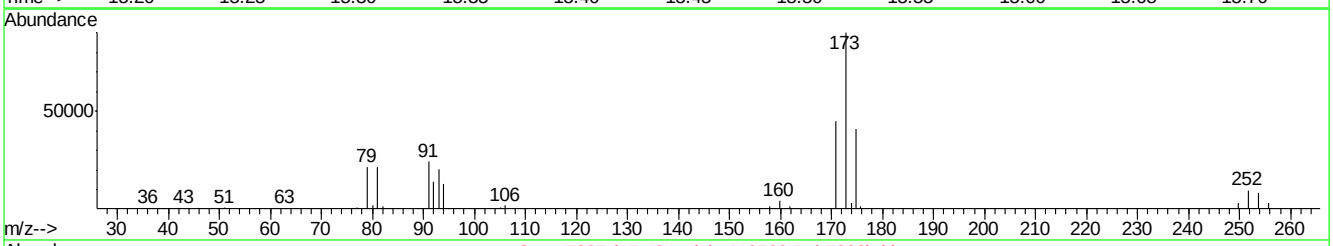
Quantitation Report (Qedit)

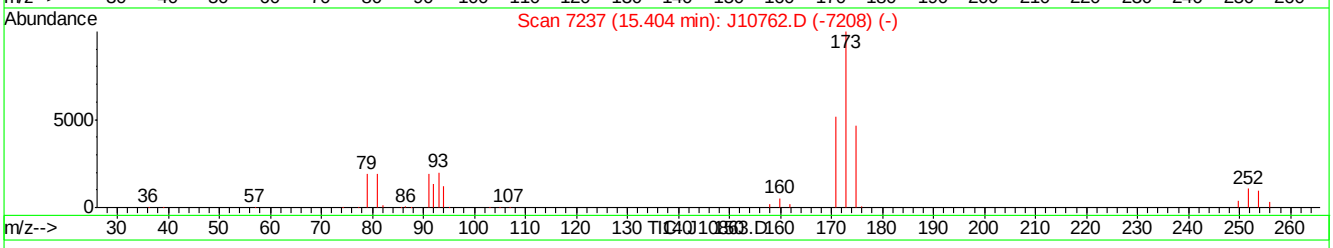
Data File : C:\MSDChem\1\data\J10863.D Vial: 1
Acq On : 5 Jul 2007 1:26 pm Operator: danat
Sample : ic562-40 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 13:56:42 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(60) BROMOFORM (m)

15.40min 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 173.00 | 100 | 0.00 |
| 175.00 | 49.10 | 0.00# |
| 254.00 | 9.90 | 0.00 |
| 0.00 | 0.00 | 0.00 |

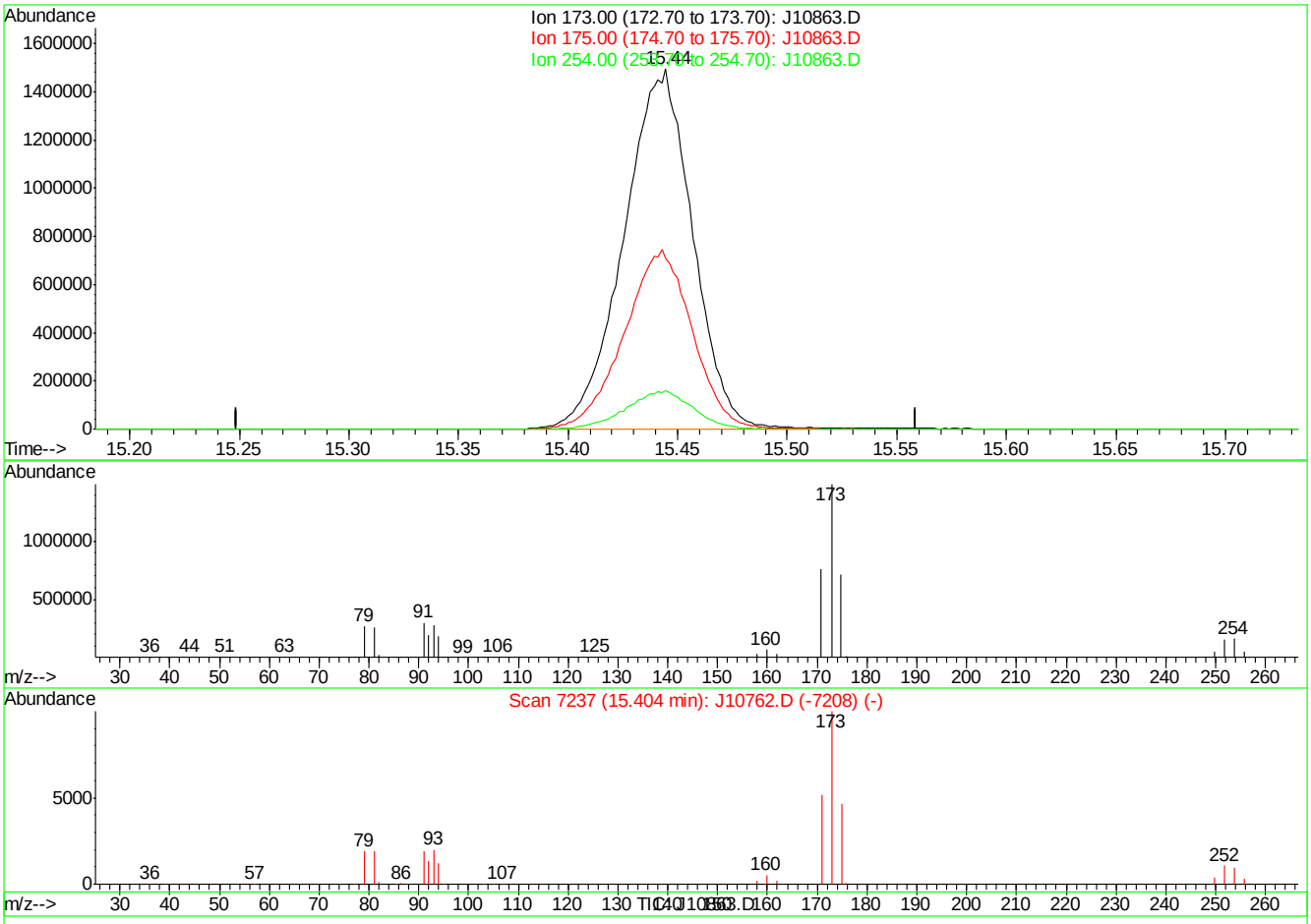
J10863.D J070507T.M Thu Jul 05 13:58:23 2007

Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10863.D Vial: 1
Acq On : 5 Jul 2007 1:26 pm Operator: danat
Sample : ic562-40 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 13:56:42 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(60) BROMOFORM (m)

15.44min 49.55PPBV m

response 3253840

| Ion | Exp% | Act% |
|---|---|---|
| 173.00 | 100 | 100 |
| 175.00 | 49.10 | 0.00# |
| 254.00 | 9.90 | 0.00 |
| 0.00 | 0.00 | 0.00 |

J10863.D J070507T.M Thu Jul 05 13:58:29 2007

Manual Integrations APPROVED (compounds with "m" flag)
Doug Yargeau 07/11/07 09:41

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10864.D
Acq On : 5 Jul 2007 2:22 pm
Operator : danat
Sample : ic562-20 (M210)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 15:04:41 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 11:24:31 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.60 | 128 | 365307 | 10.00 | PPBV | -0.02 |
| 35) 1,4-DIFLUOROBENZENE | 10.43 | 114 | 1518441 | 10.00 | PPBV | -0.01 |
| 49) CHLOROBENZENE-D5 | 14.68 | 117 | 1386139m | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 61) 4-BROMOFLUOROBENZENE | 16.31 | 95 | 477430 | 5.45 | PPBV | 0.01 |
| Spiked Amount 5.000 | Range 51 - 142 | | Recovery = 109.00% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) DICHLORODIFLUOROMETHANE | 4.06 | 85 | 1535648 | 11.81 | PPBV | 100 |
| 3) PROPYLENE | 3.99 | 41 | 268055 | 14.01 | PPBV | 97 |
| 4) FREON 114 | 4.31 | 85 | 1434256 | 12.66 | PPBV | 97 |
| 5) CHLOROMETHANE | 4.22 | 50 | 348958 | 12.40 | PPBV | 97 |
| 6) VINYL CHLORIDE | 4.44 | 62 | 439116 | 13.60 | PPBV | 94 |
| 7) 1,3-BUTADIENE | 4.57 | 39 | 352245 | 15.42 | PPBV | 100 |
| 8) BROMOMETHANE | 4.84 | 94 | 646187 | 17.64 | PPBV | 99 |
| 9) CHLOROETHANE | 5.01 | 64 | 278465 | 18.62 | PPBV | 99 |
| 10) TRICHLOROFLUOROMETHANE | 5.77 | 101 | 2228889 | 16.31 | PPBV | 99 |
| 11) ISOPROPYL ALCOHOL | 5.97 | 45 | 785813m | 18.98 | PPBV | |
| 12) ACETONE | 5.63 | 43 | 740790 | 10.47 | PPBV | 98 |
| 13) PENTANE | 6.11 | 42 | 545201 | 16.34 | PPBV | 98 |
| 14) 1,1-DICHLOROETHYLENE | 6.40 | 96 | 706399 | 20.26 | PPBV | 99 |
| 15) CARBON DISULFIDE | 6.82 | 76 | 2008630 | 18.99 | PPBV | 99 |
| 16) ETHANOL | 5.21 | 45 | 130953 | 17.80 | PPBV | 95 |
| 17) BROMOETHENE | 5.36 | 106 | 678826 | 19.21 | PPBV | 99 |
| 18) METHYLENE CHLORIDE | 6.52 | 84 | 611385 | 9.33 | PPBV | 98 |
| 19) 3-CHLOROPROPENE | 6.63 | 39 | 577004 | 20.95 | PPBV | 94 |
| 20) FREON 113 | 6.76 | 151 | 1434964 | 16.78 | PPBV | 96 |
| 21) TRANS-1,2-DICHLOROETHYLENE | 7.43 | 96 | 699399 | 20.78 | PPBV | 99 |
| 22) TERTIARY BUTYL ALCOHOL | 6.57 | 59 | 1036086 | 22.77 | PPBV | 93 |
| 23) METHYL TERTIARY BUTYL ETHE | 7.70 | 73 | 1492765 | 21.41 | PPBV | 99 |
| 24) TETRAHYDROFURAN | 9.15 | 42 | 477644 | 22.57 | PPBV | 99 |
| 25) HEXANE | 8.61 | 57 | 796209 | 18.81 | PPBV | 97 |
| 26) VINYL ACETATE | 7.78 | 43 | 992991 | 21.37 | PPBV | 98 |
| 27) 1,1-DICHLOROETHANE | 7.63 | 63 | 1140494 | 19.40 | PPBV | 100 |
| 28) METHYL ETHYL KETONE | 8.06 | 43 | 923256 | 20.87 | PPBV | 97 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.44 | 96 | 675636 | 21.05 | PPBV | 99 |
| 30) ETHYL ACETATE | 8.68 | 43 | 1037724 | 22.70 | PPBV | 96 |
| 31) CHLOROFORM | 8.73 | 83 | 1579562 | 19.17 | PPBV | 99 |
| 32) 1,1,1-TRICHLOROETHANE | 9.67 | 97 | 1761768 | 18.45 | PPBV | 100 |
| 33) CARBON TETRACHLORIDE | 10.24 | 117 | 2090440 | 17.68 | PPBV | 99 |
| 34) 1,2-DICHLOROETHANE | 9.44 | 62 | 909960 | 19.14 | PPBV | 99 |
| 36) BENZENE | 10.11 | 78 | 1699563 | 23.91 | PPBV | 99 |
| 37) CYCLOHEXANE | 10.35 | 84 | 783977 | 22.75 | PPBV | 98 |
| 38) TRICHLOROETHYLENE | 11.11 | 95 | 863825 | 22.00 | PPBV | 99 |
| 39) 1,2-DICHLOROPROPANE | 10.89 | 63 | 540869 | 22.47 | PPBV | 96 |
| 40) BROMODICHLOROMETHANE | 11.08 | 83 | 1484426 | 21.01 | PPBV | 99 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.11 | 57 | 2748943 | 25.58 | PPBV | 99 |
| 42) 1,4-DIOXANE | 11.17 | 88 | 315947 | 23.90 | PPBV | 94 |
| 43) HEPTANE | 11.35 | 43 | 865260 | 25.49 | PPBV | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10864.D
Acq On : 5 Jul 2007 2:22 pm
Operator : danat
Sample : ic562-20 (M210)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 15:04:41 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 11:24:31 2007
Response via : Initial Calibration

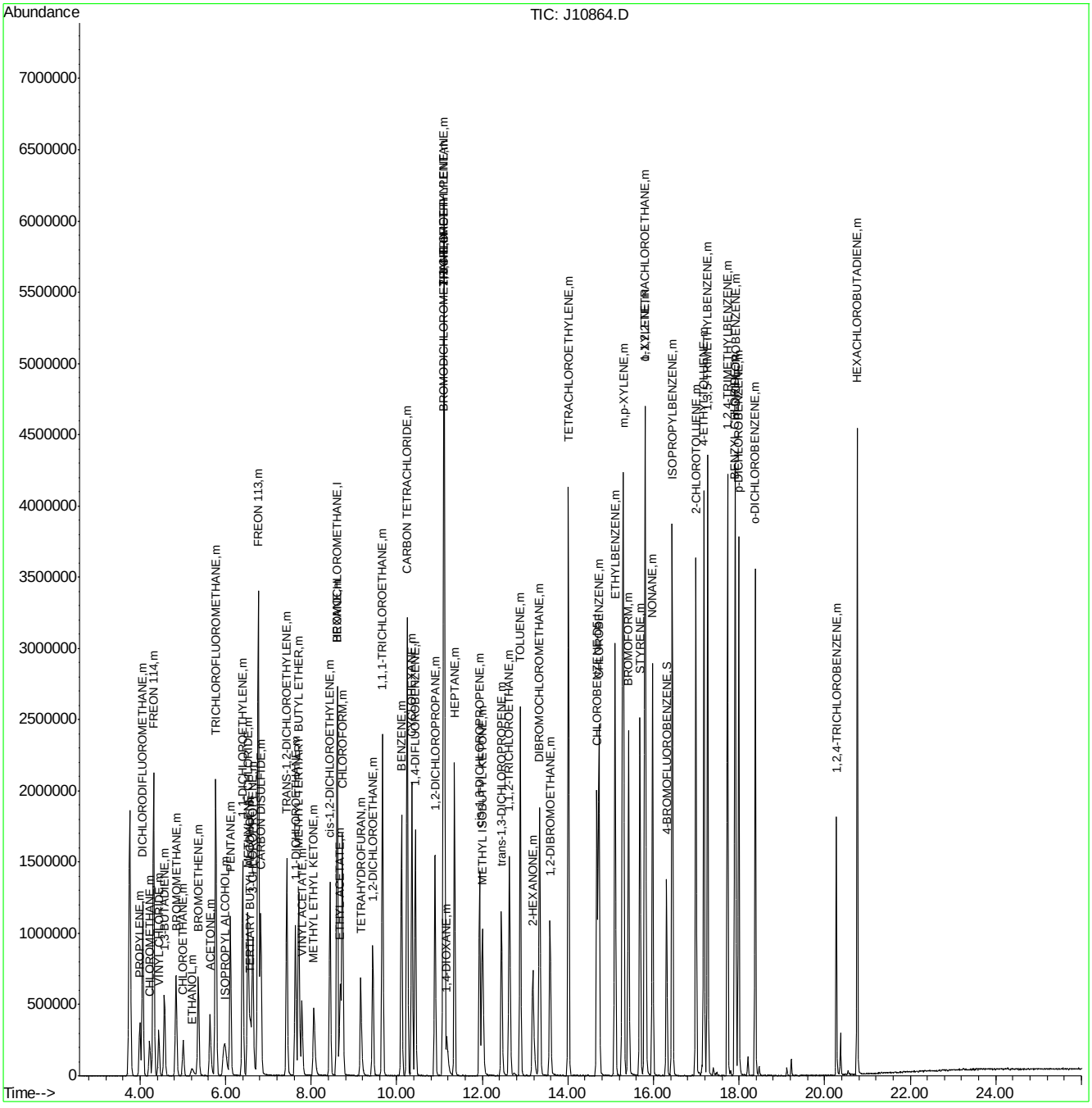
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 12.00 | 43 | 1043161 | 24.23 | PPBV | 99 |
| 45) cis-1,3-DICHLOROPROPENE | 11.93 | 75 | 842953 | 26.03 | PPBV | 98 |
| 46) TOLUENE | 12.89 | 92 | 1184576 | 25.13 | PPBV | 100 |
| 47) trans-1,3-DICHLOROPROPENE | 12.45 | 75 | 814312m | 27.09 | PPBV | |
| 48) 1,1,2-TRICHLOROETHANE | 12.63 | 83 | 554837 | 21.36 | PPBV | 100 |
| 50) 2-HEXANONE | 13.18 | 43 | 879787 | 26.35 | PPBV | 99 |
| 51) TETRACHLOROETHYLENE | 14.01 | 164 | 977744 | 21.29 | PPBV | 99 |
| 52) DIBROMOCHLOROMETHANE | 13.34 | 129 | 1454965 | 21.19 | PPBV | 100 |
| 53) 1,2-DIBROMOETHANE | 13.58 | 107 | 1049086 | 23.04 | PPBV | 100 |
| 54) CHLOROBENZENE | 14.72 | 112 | 1608101 | 22.05 | PPBV | 98 |
| 55) ETHYLBENZENE | 15.10 | 91 | 2583679 | 27.22 | PPBV | 100 |
| 56) m,p-XYLENE | 15.29 | 106 | 2122882 | 54.11 | PPBV | 100 |
| 57) o-XYLENE | 15.80 | 106 | 1058229 | 27.52 | PPBV | 99 |
| 58) STYRENE | 15.68 | 104 | 1486315 | 31.90 | PPBV | 99 |
| 59) NONANE | 15.98 | 43 | 1127032 | 25.19 | PPBV | 99 |
| 60) BROMOFORM | 15.42 | 173 | 1435182m | 21.65 | PPBV | |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.81 | 83 | 1397530m | 23.81 | PPBV | |
| 63) ISOPROPYLBENZENE | 16.44 | 105 | 2993529m | 27.03 | PPBV | |
| 64) 2-CHLOROTOLUENE | 16.99 | 91 | 2109180 | 28.35 | PPBV | 98 |
| 65) 4-ETHYLTOLUENE | 17.18 | 105 | 2774205m | 30.46 | PPBV | |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.27 | 105 | 2505745 | 28.62 | PPBV | 99 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.73 | 105 | 2269340 | 29.61 | PPBV | 99 |
| 68) m-DICHLOROBENZENE | 17.91 | 146 | 1619644 | 27.69 | PPBV | 99 |
| 69) BENZYL CHLORIDE | 17.90 | 91 | 1347521 | 29.23 | PPBV | 99 |
| 70) p-DICHLOROBENZENE | 17.99 | 146 | 1532314 | 28.89 | PPBV | 100 |
| 71) o-DICHLOROBENZENE | 18.38 | 146 | 1380046 | 26.35 | PPBV | 98 |
| 72) HEXACHLOROBUTADIENE | 20.76 | 225 | 763310 | 15.18 | PPBV | 99 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.27 | 180 | 477031 | 22.38 | PPBV | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10864.D
Acq On : 5 Jul 2007 2:22 pm
Operator : danat
Sample : ic562-20 (M210)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 15:04:41 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 11:24:31 2007
Response via : Initial Calibration



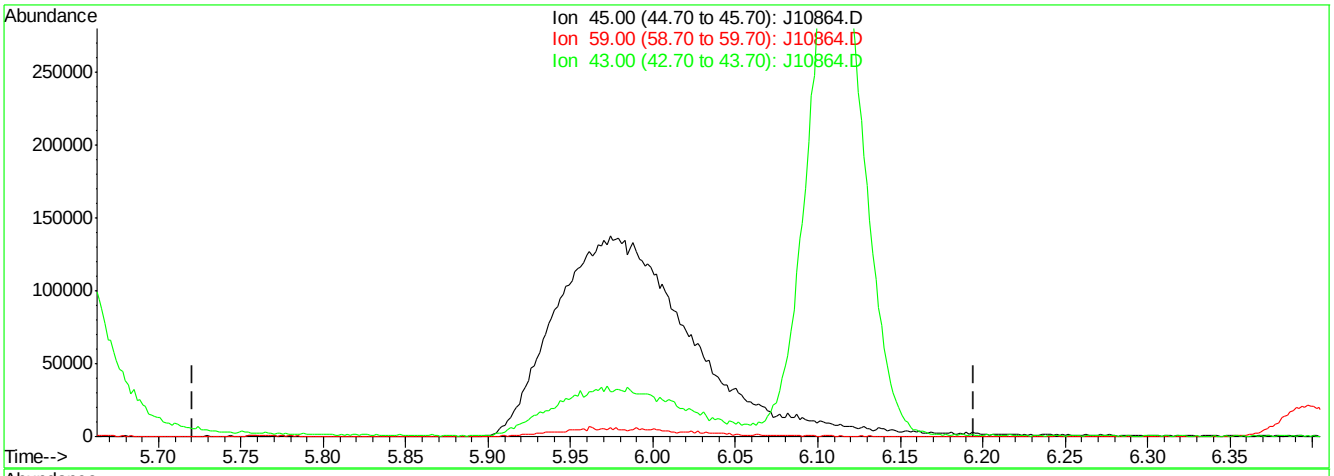

J070507T.M Fri Jul 06 11:19:19 2007 Page: 3

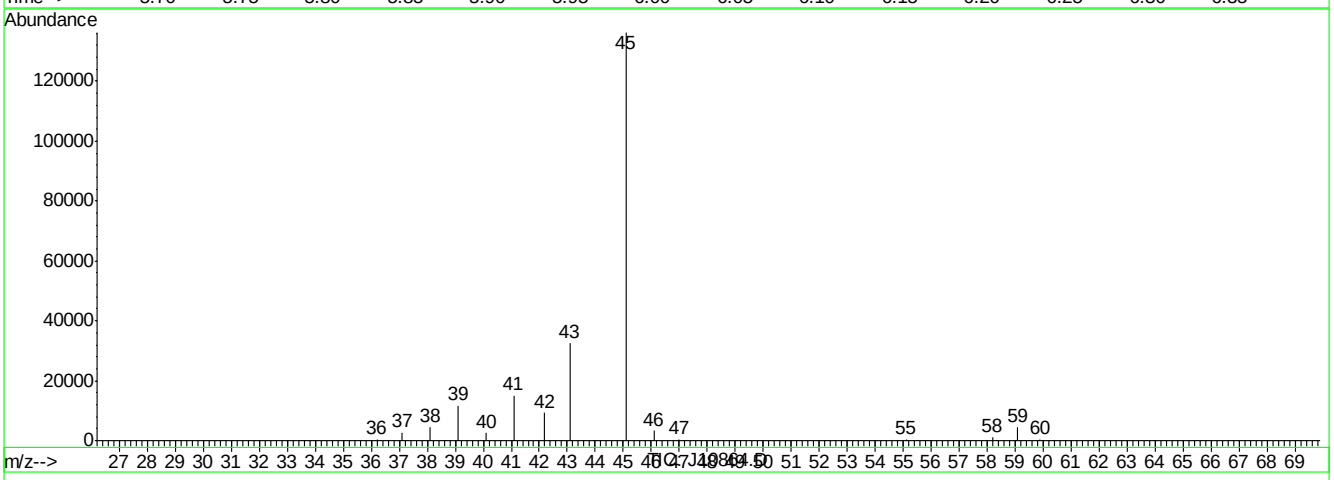
Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10864.D Vial: 1
Acq On : 5 Jul 2007 2:22 pm Operator: danat
Sample : ic562-20 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 15:00:43 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(11) ISOPROPYL ALCOHOL (m)

5.98min 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 0.00 |
| 59.00 | 2.20 | 0.00 |
| 43.00 | 25.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |

J10864.D J070507T.M Thu Jul 05 15:01:08 2007

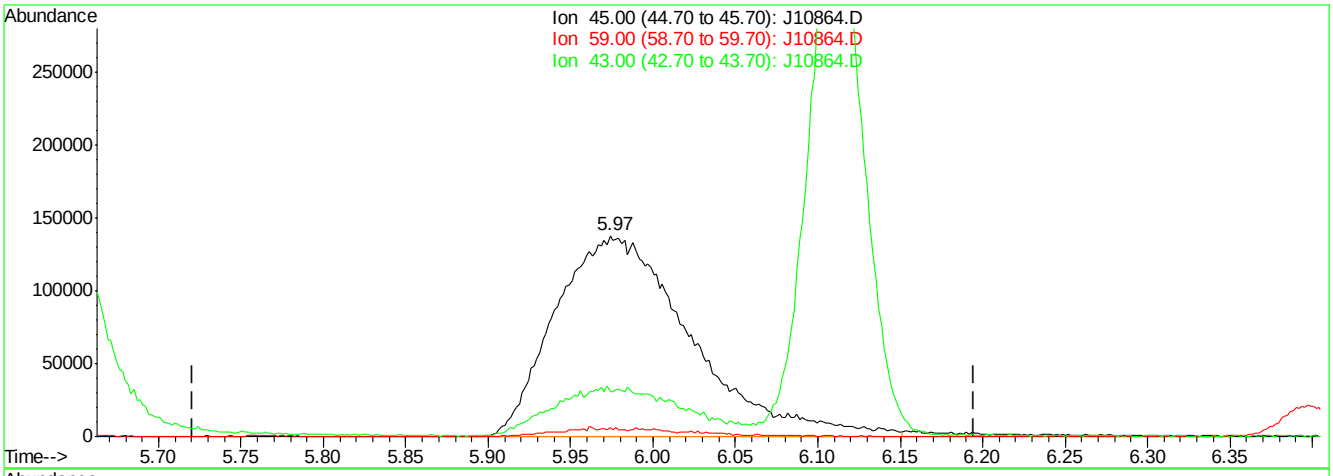
Quantitation Report (Qedit)

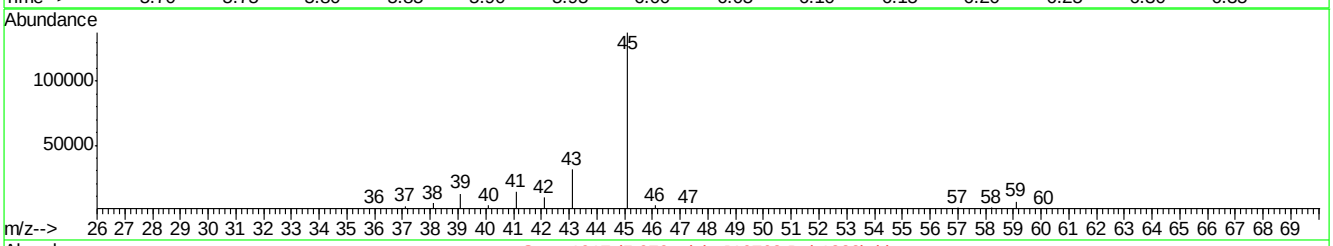
Data File : C:\MSDChem\1\data\J10864.D Vial: 1
Acq On : 5 Jul 2007 2:22 pm Operator: danat
Sample : ic562-20 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

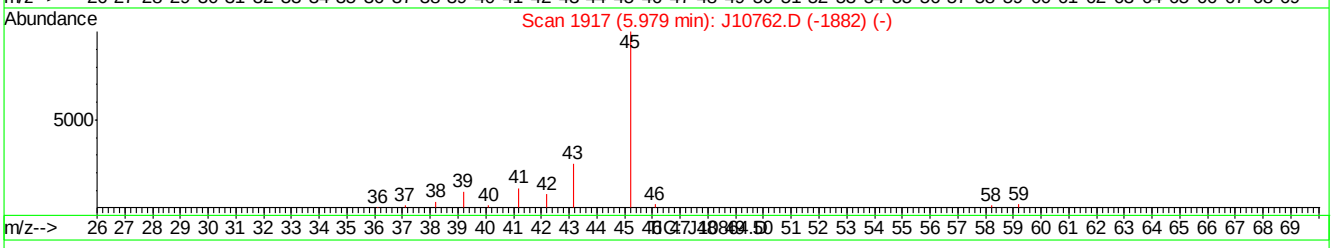
Quant Time: Jul 05 15:00:43 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration






(11) ISOPROPYL ALCOHOL (m)

5.97min 18.98PPBV m

response 785813

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 59.00 | 2.20 | 4.33 |
| 43.00 | 25.50 | 22.47 |
| 0.00 | 0.00 | 0.00 |

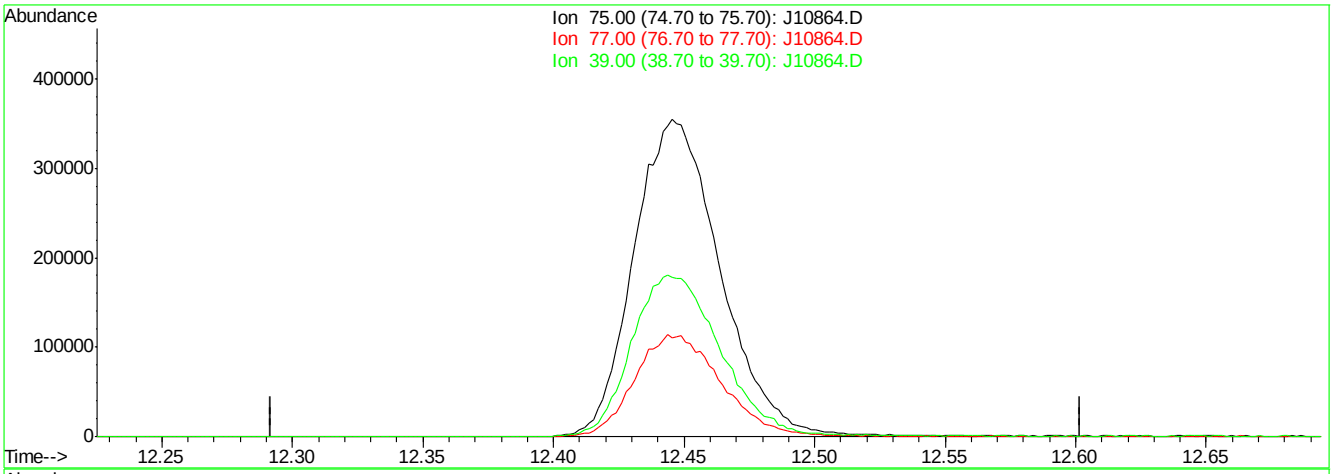
J10864.D J070507T.M Thu Jul 05 15:01:16 2007

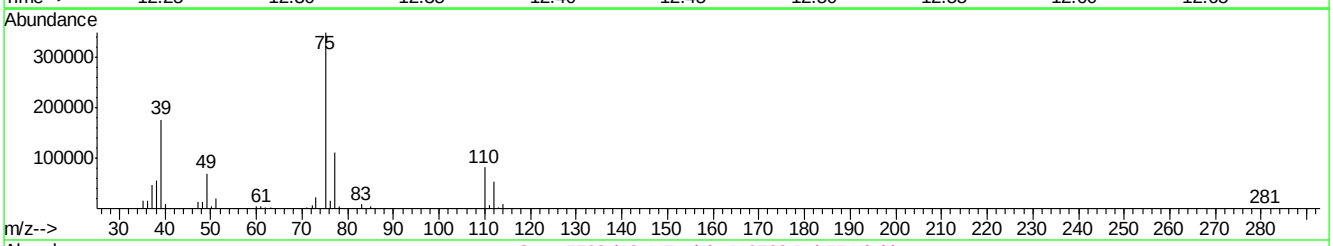
Quantitation Report (Qedit)

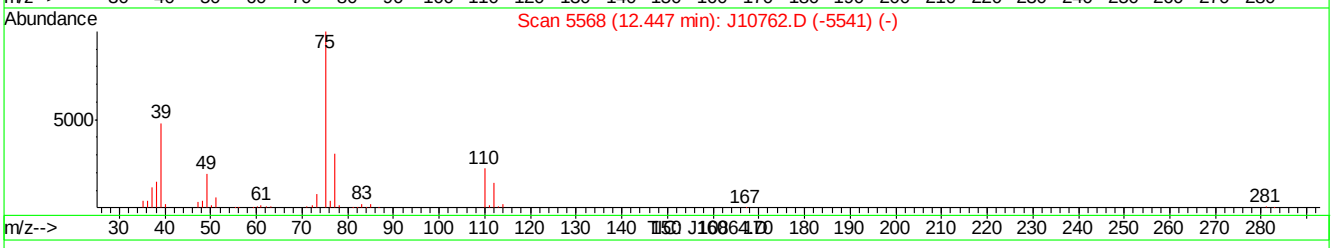
Data File : C:\MSDChem\1\data\J10864.D Vial: 1
Acq On : 5 Jul 2007 2:22 pm Operator: danat
Sample : ic562-20 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 15:00:43 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(47) trans-1,3-DICHLOROPROPENE (m)

12.45min 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 75.00 | 100 | 0.00 |
| 77.00 | 32.00 | 0.00# |
| 39.00 | 49.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |

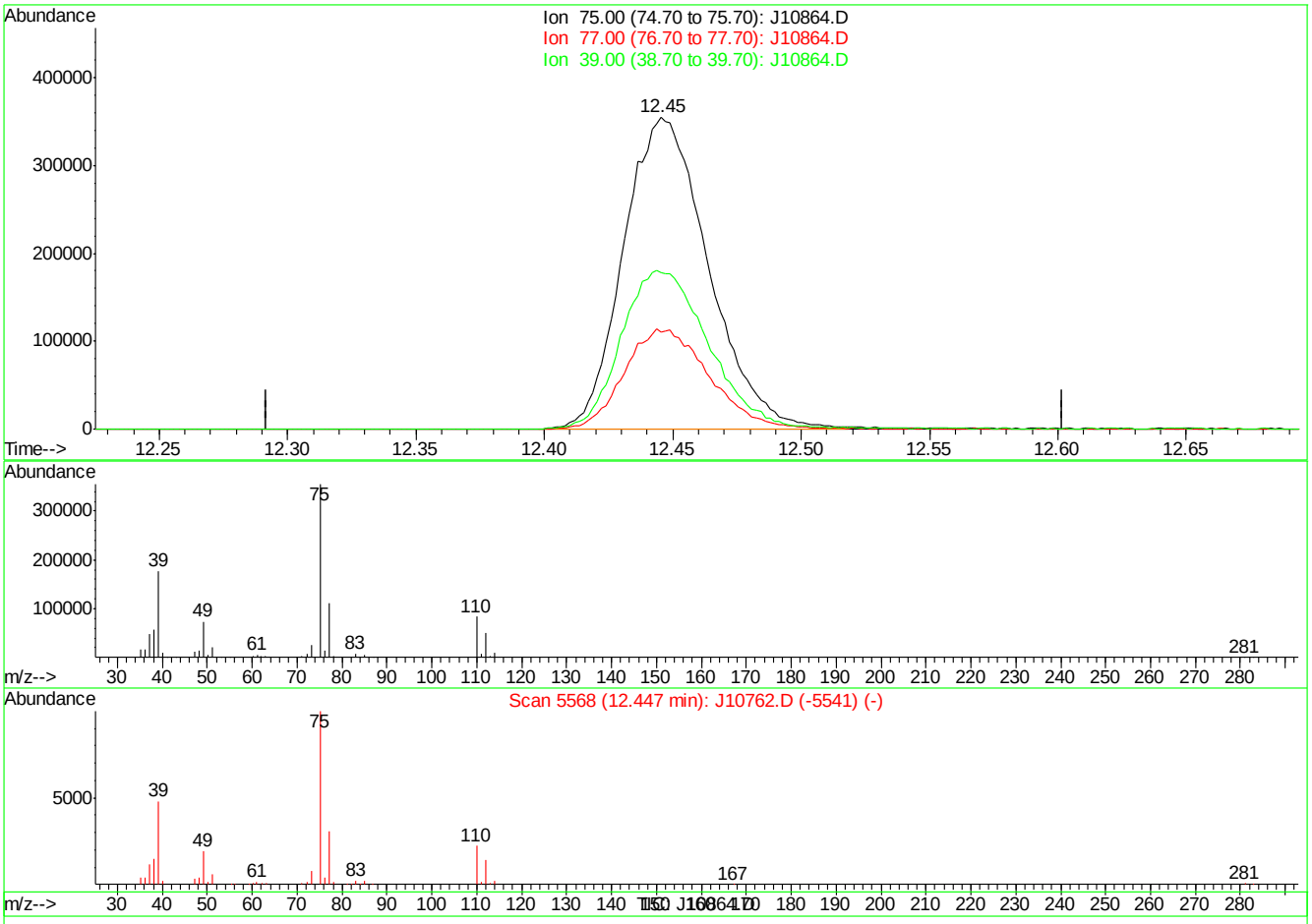
J10864.D J070507T.M Thu Jul 05 15:01:49 2007

Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10864.D Vial: 1
Acq On : 5 Jul 2007 2:22 pm Operator: danat
Sample : ic562-20 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 15:00:43 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(47) trans-1,3-DICHLOROPROPENE (m)

12.45min 27.09PPBV m

response 814312

| Ion | Exp% | Act% |
|---|---|---|
| 75.00 | 100 | 100 |
| 77.00 | 32.00 | 0.00# |
| 39.00 | 49.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |

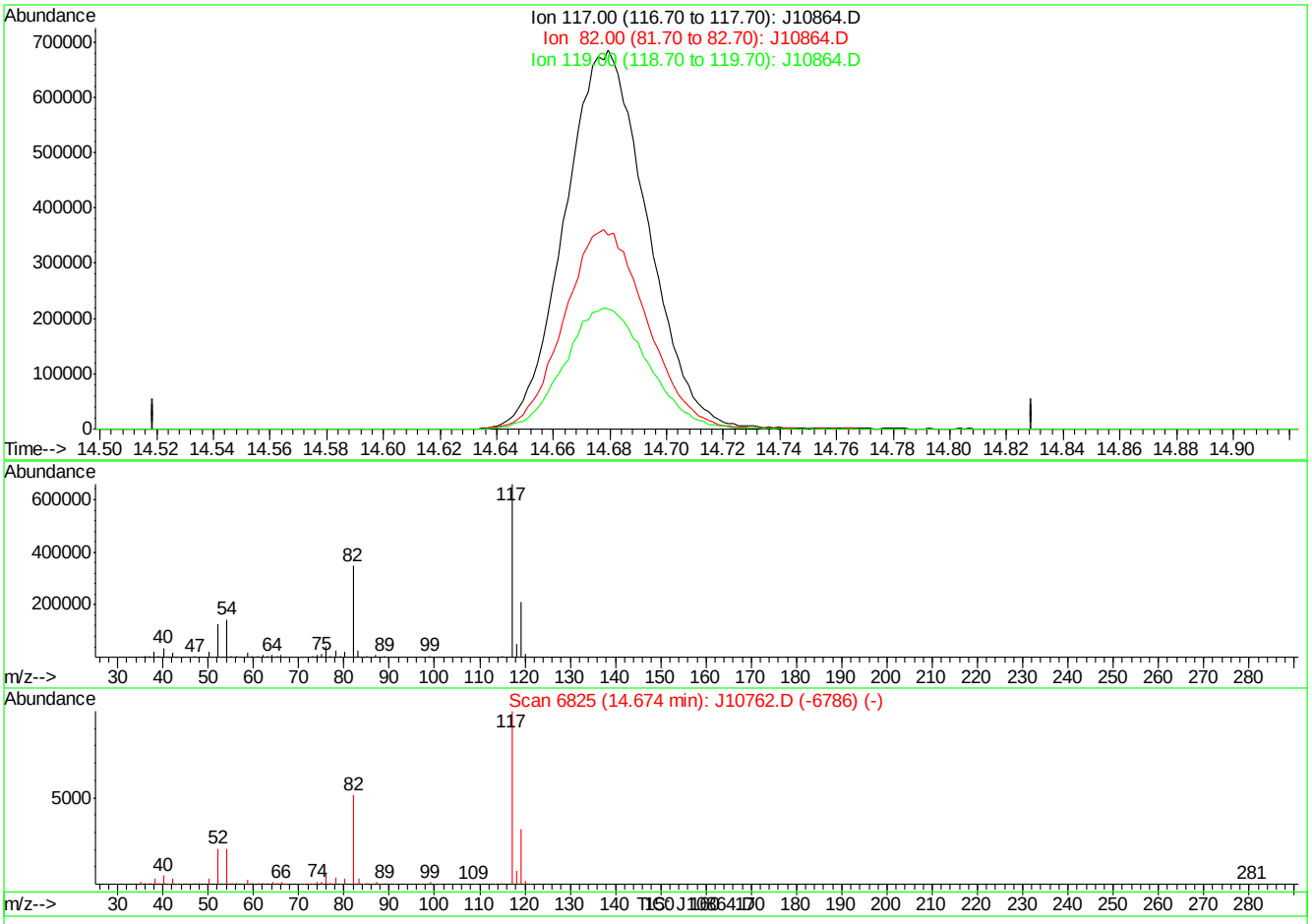
J10864.D J070507T.M Thu Jul 05 15:01:55 2007

Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10864.D Vial: 1
Acq On : 5 Jul 2007 2:22 pm Operator: danat
Sample : ic562-20 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 15:00:43 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(49) CHLOROBENZENE-D5 (I)

14.67min 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 117.00 | 100 | 0.00 |
| 82.00 | 0.00 | 0.00 |
| 119.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

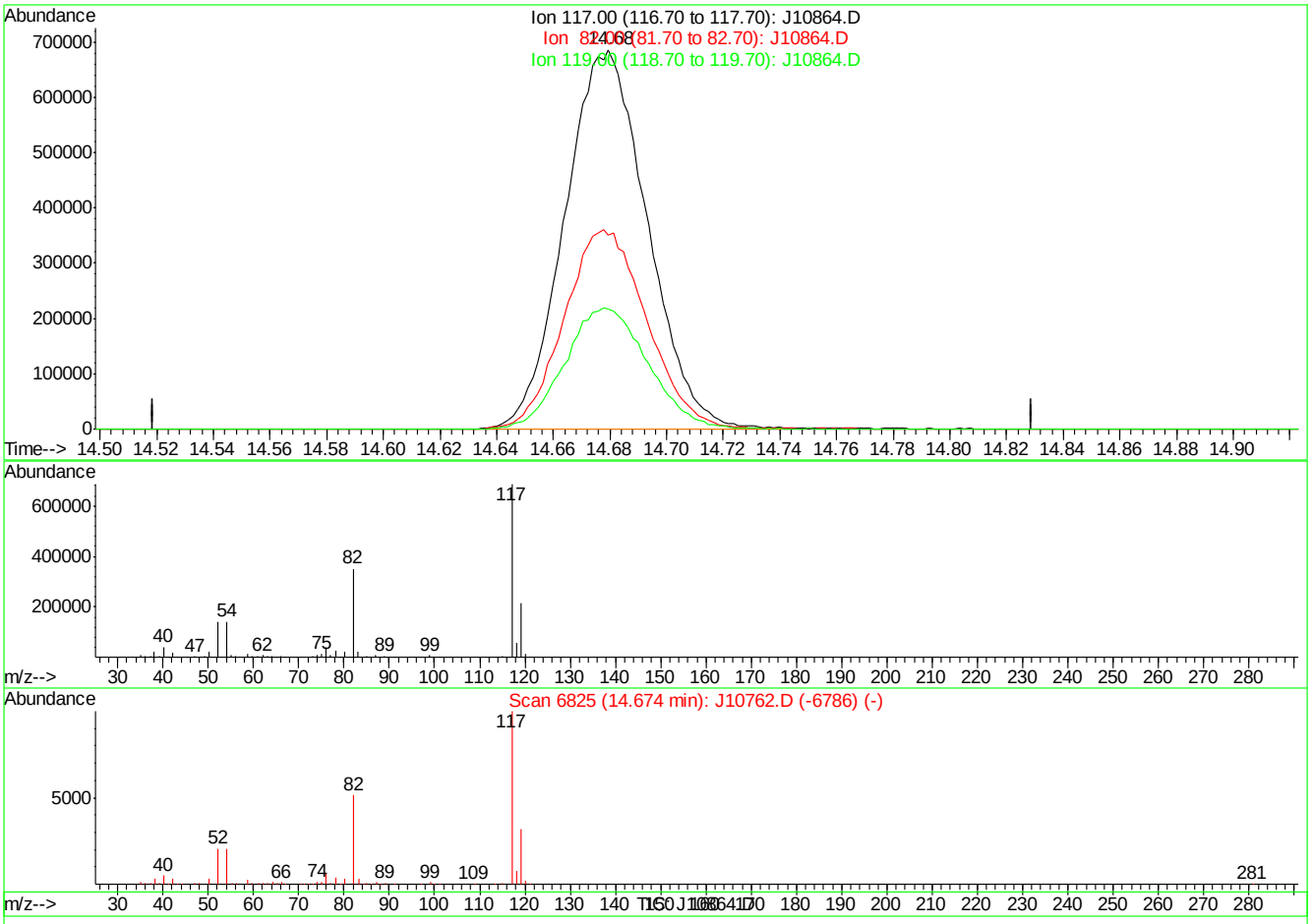
J10864.D J070507T.M Thu Jul 05 15:02:00 2007

Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10864.D Vial: 1
Acq On : 5 Jul 2007 2:22 pm Operator: danat
Sample : ic562-20 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 15:00:43 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(49) CHLOROBENZENE-D5 (I)

14.68min 10.00PPBV m

response 1386139

| Ion | Exp% | Act% |
|---|---|---|
| 117.00 | 100 | 100 |
| 82.00 | 0.00 | 0.00 |
| 119.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

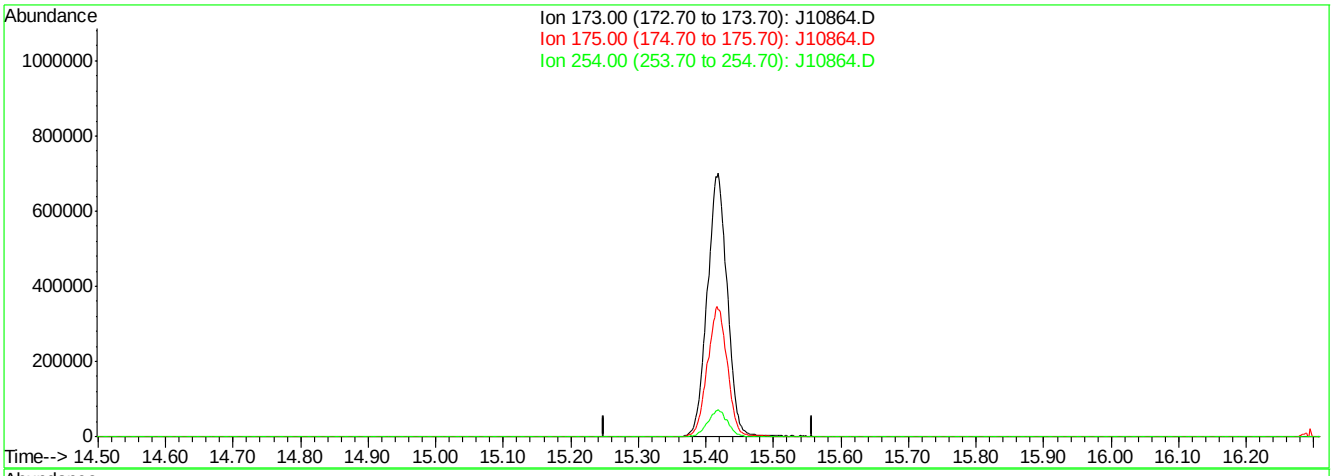
J10864.D J070507T.M Thu Jul 05 15:02:05 2007

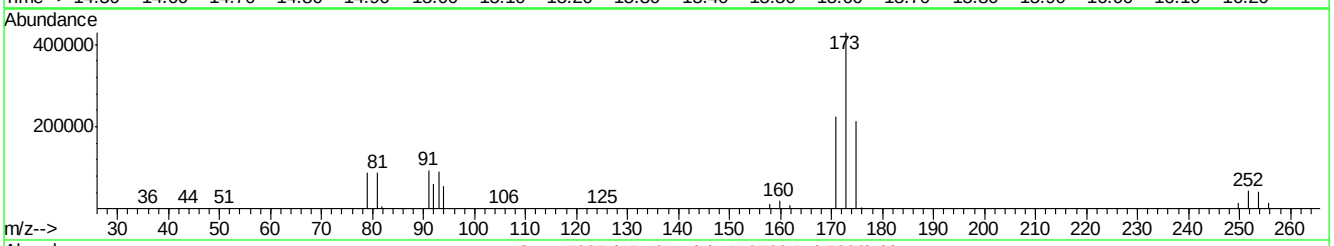
Quantitation Report (Qedit)

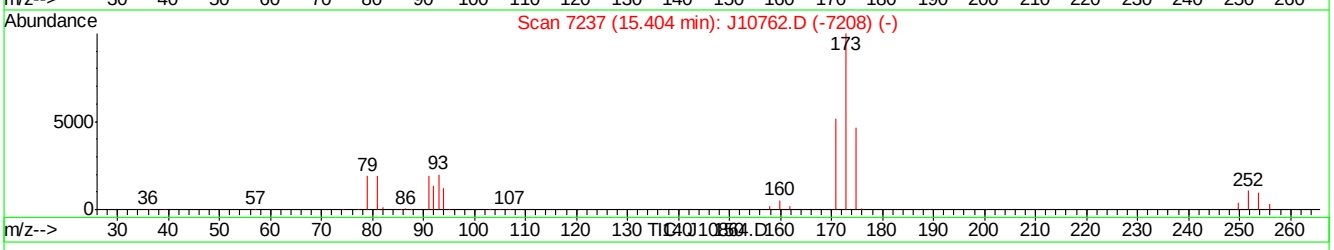
Data File : C:\MSDChem\1\data\J10864.D Vial: 1
Acq On : 5 Jul 2007 2:22 pm Operator: danat
Sample : ic562-20 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 15:00:43 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(60) BROMOFORM (m)

15.40min 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 173.00 | 100 | 0.00 |
| 175.00 | 49.10 | 0.00# |
| 254.00 | 9.90 | 0.00 |
| 0.00 | 0.00 | 0.00 |

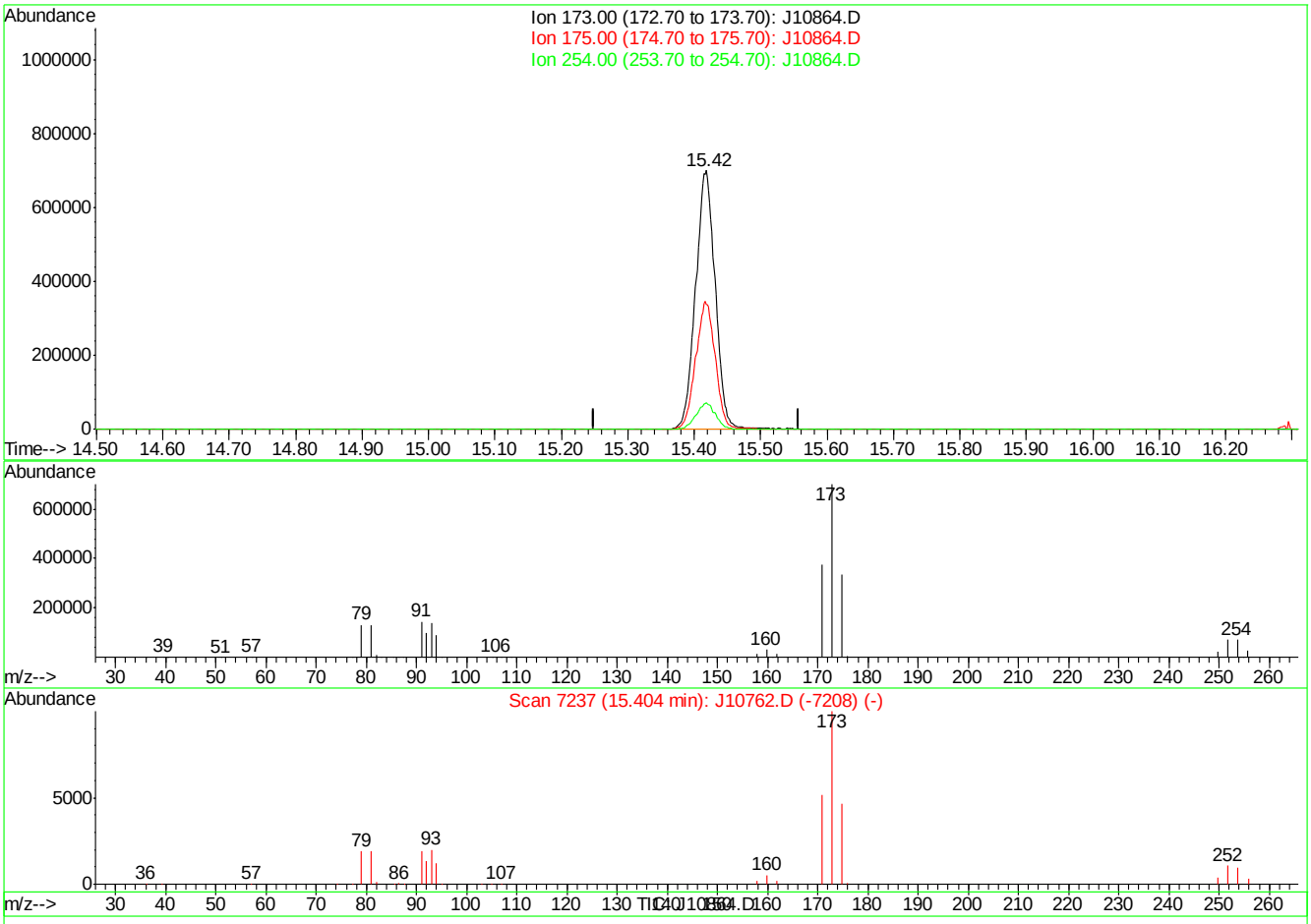
J10864.D J070507T.M Thu Jul 05 15:02:16 2007

Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10864.D Vial: 1
Acq On : 5 Jul 2007 2:22 pm Operator: danat
Sample : ic562-20 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 15:00:43 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(60) BROMOFORM (m)

15.42min 21.65PPBV m

response 1435182

| Ion | Exp% | Act% |
|---|---|---|
| 173.00 | 100 | 100 |
| 175.00 | 49.10 | 0.00# |
| 254.00 | 9.90 | 0.00 |
| 0.00 | 0.00 | 0.00 |

J10864.D J070507T.M Thu Jul 05 15:02:22 2007

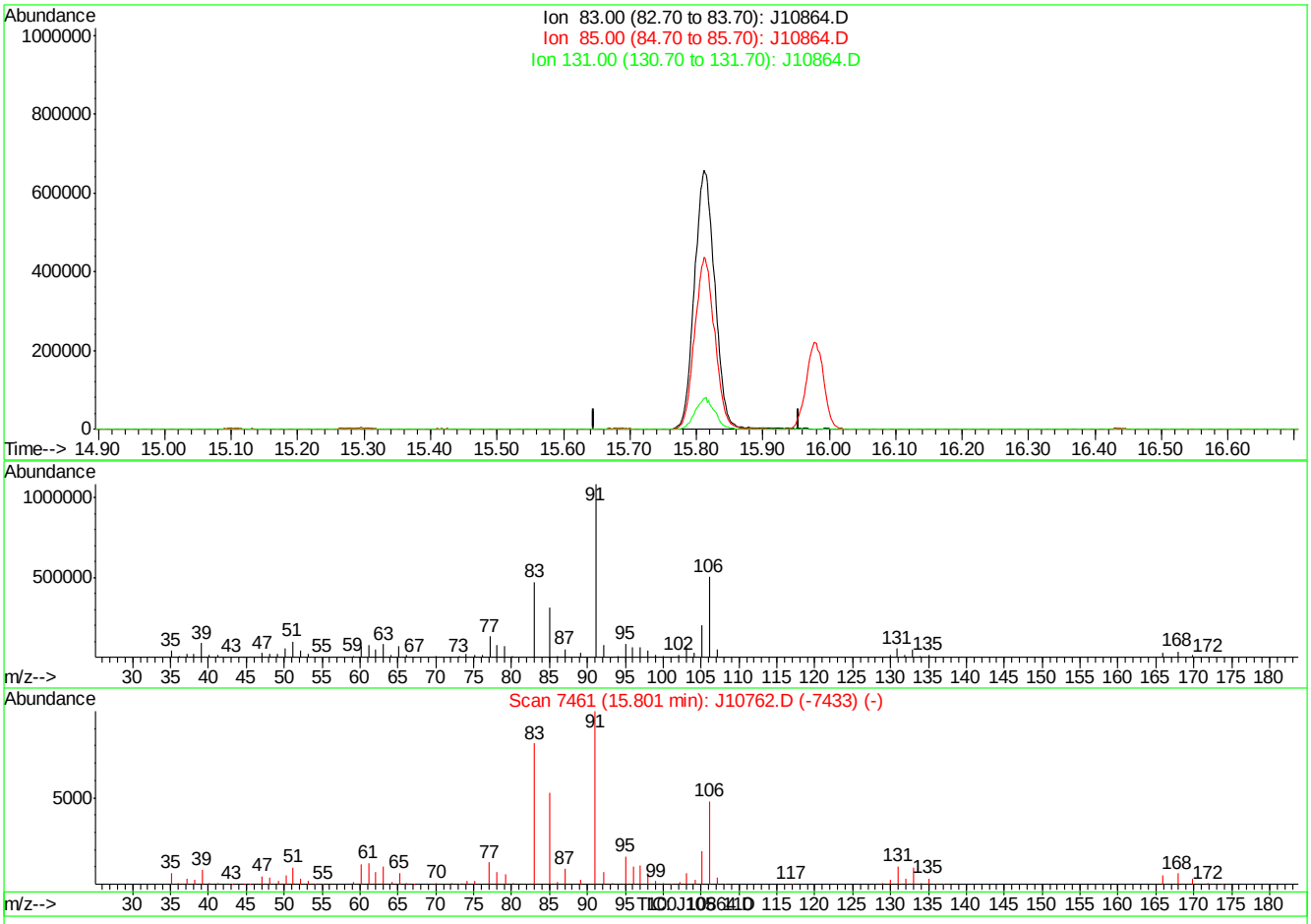
Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10864.D Vial: 1
Acq On : 5 Jul 2007 2:22 pm Operator: danat
Sample : ic562-20 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 15:00:43 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration






(62) 1,1,2,2-TETRACHLOROETHANE (m)

15.80min 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 83.00 | 100 | 0.00 |
| 85.00 | 66.00 | 0.00# |
| 131.00 | 12.40 | 0.00 |
| 0.00 | 0.00 | 0.00 |

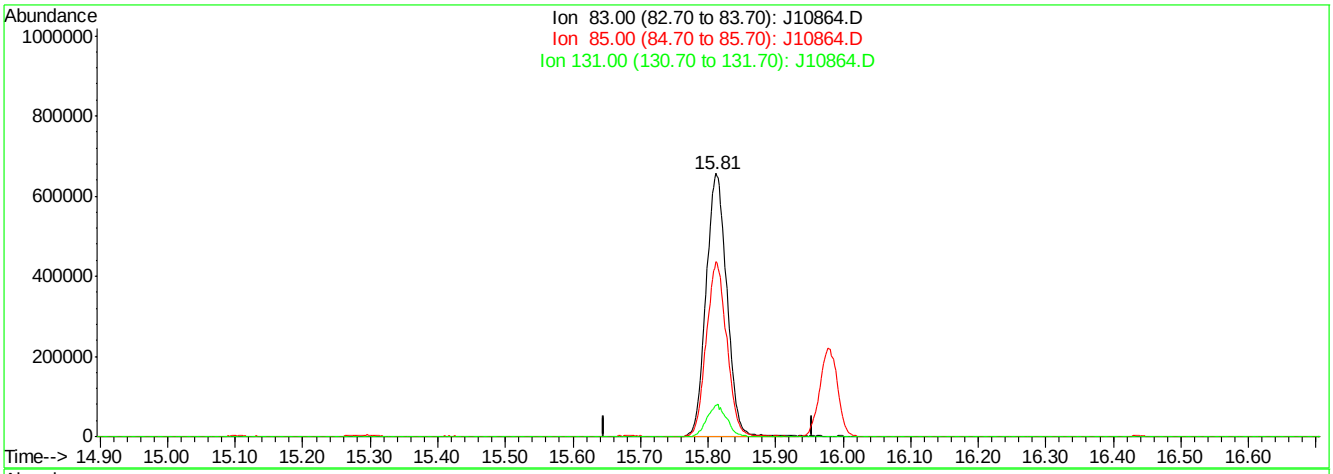
J10864.D J070507T.M Thu Jul 05 15:02:27 2007

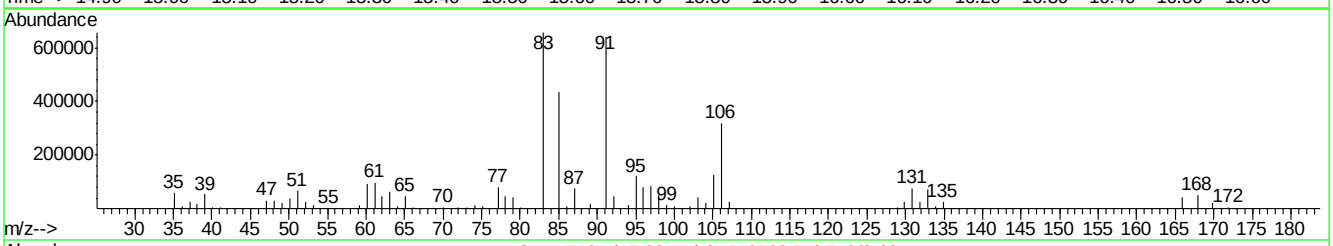
Quantitation Report (Qedit)

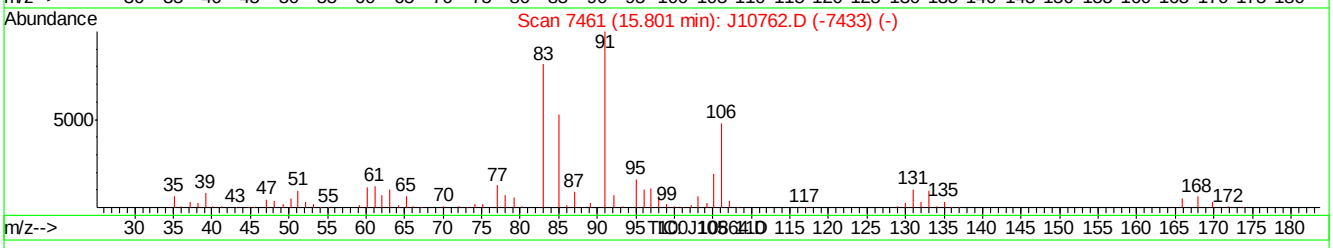
Data File : C:\MSDChem\1\data\J10864.D Vial: 1
Acq On : 5 Jul 2007 2:22 pm Operator: danat
Sample : ic562-20 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 15:00:43 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(62) 1,1,2,2-TETRACHLOROETHANE (m)

15.81min 23.81PPBV m

response 1397530

| Ion | Exp% | Act% |
|---|---|---|
| 83.00 | 100 | 100 |
| 85.00 | 66.00 | 0.00# |
| 131.00 | 12.40 | 0.00 |
| 0.00 | 0.00 | 0.00 |

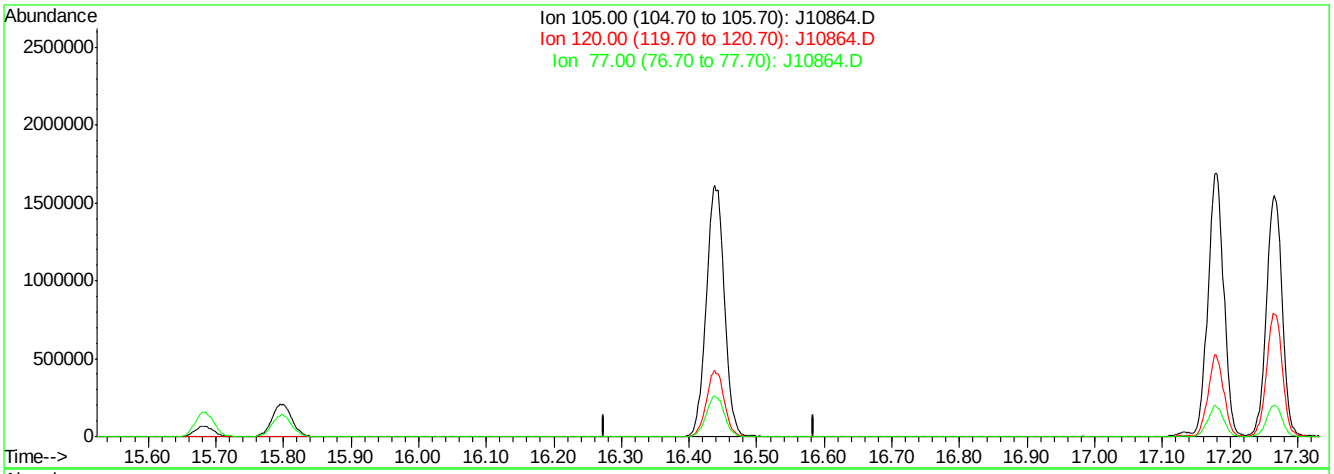
J10864.D J070507T.M Thu Jul 05 15:02:31 2007

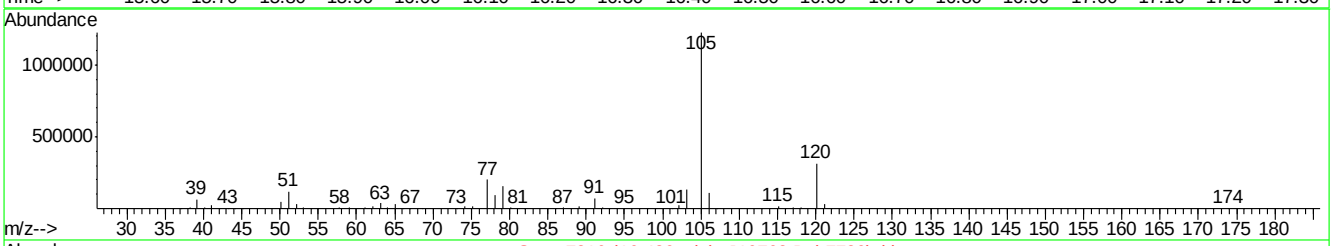
Quantitation Report (Qedit)

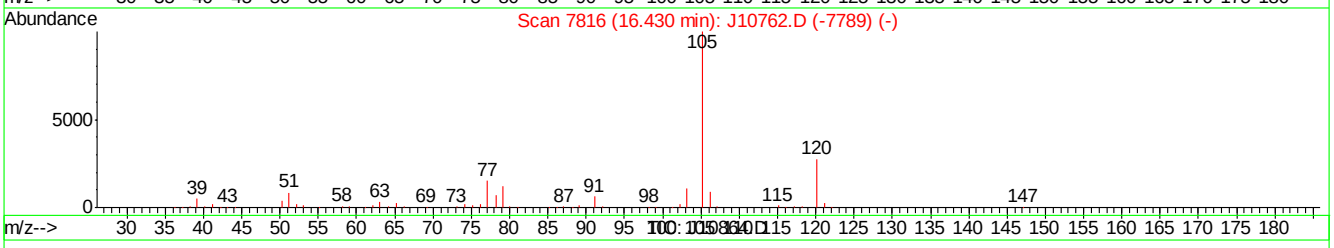
Data File : C:\MSDChem\1\data\J10864.D Vial: 1
Acq On : 5 Jul 2007 2:22 pm Operator: danat
Sample : ic562-20 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 15:00:43 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(63) ISOPROPYLBENZENE (m)

16.43min 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 105.00 | 100 | 0.00 |
| 120.00 | 26.60 | 0.00# |
| 77.00 | 15.90 | 0.00 |
| 0.00 | 0.00 | 0.00 |

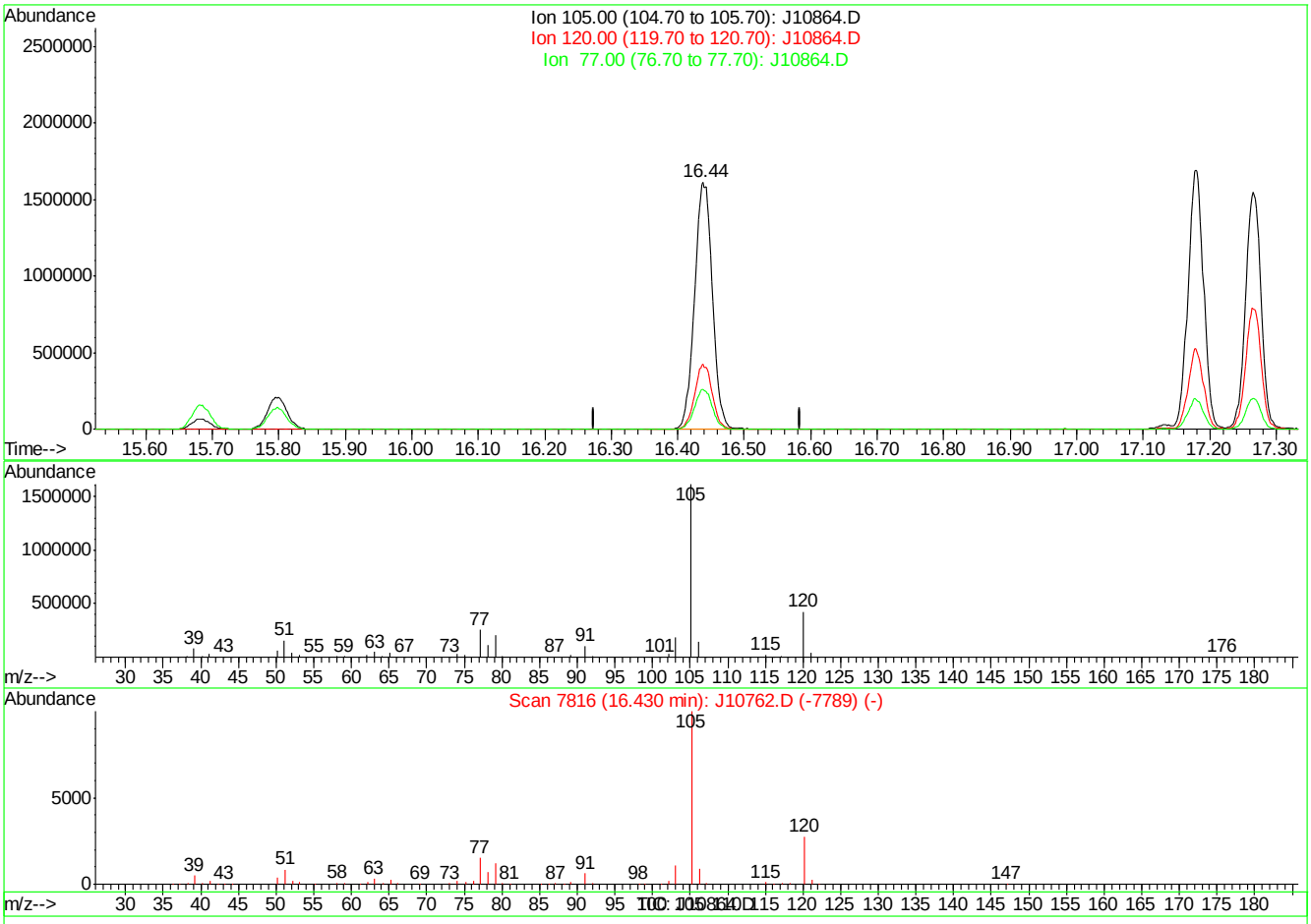
J10864.D J070507T.M Thu Jul 05 15:02:37 2007

Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10864.D Vial: 1
Acq On : 5 Jul 2007 2:22 pm Operator: danat
Sample : ic562-20 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 15:00:43 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(63) ISOPROPYLBENZENE (m)

16.44min 27.03PPBV m

response 2993529

| Ion | Exp% | Act% |
|---|---|---|
| 105.00 | 100 | 100 |
| 120.00 | 26.60 | 0.00# |
| 77.00 | 15.90 | 0.00 |
| 0.00 | 0.00 | 0.00 |

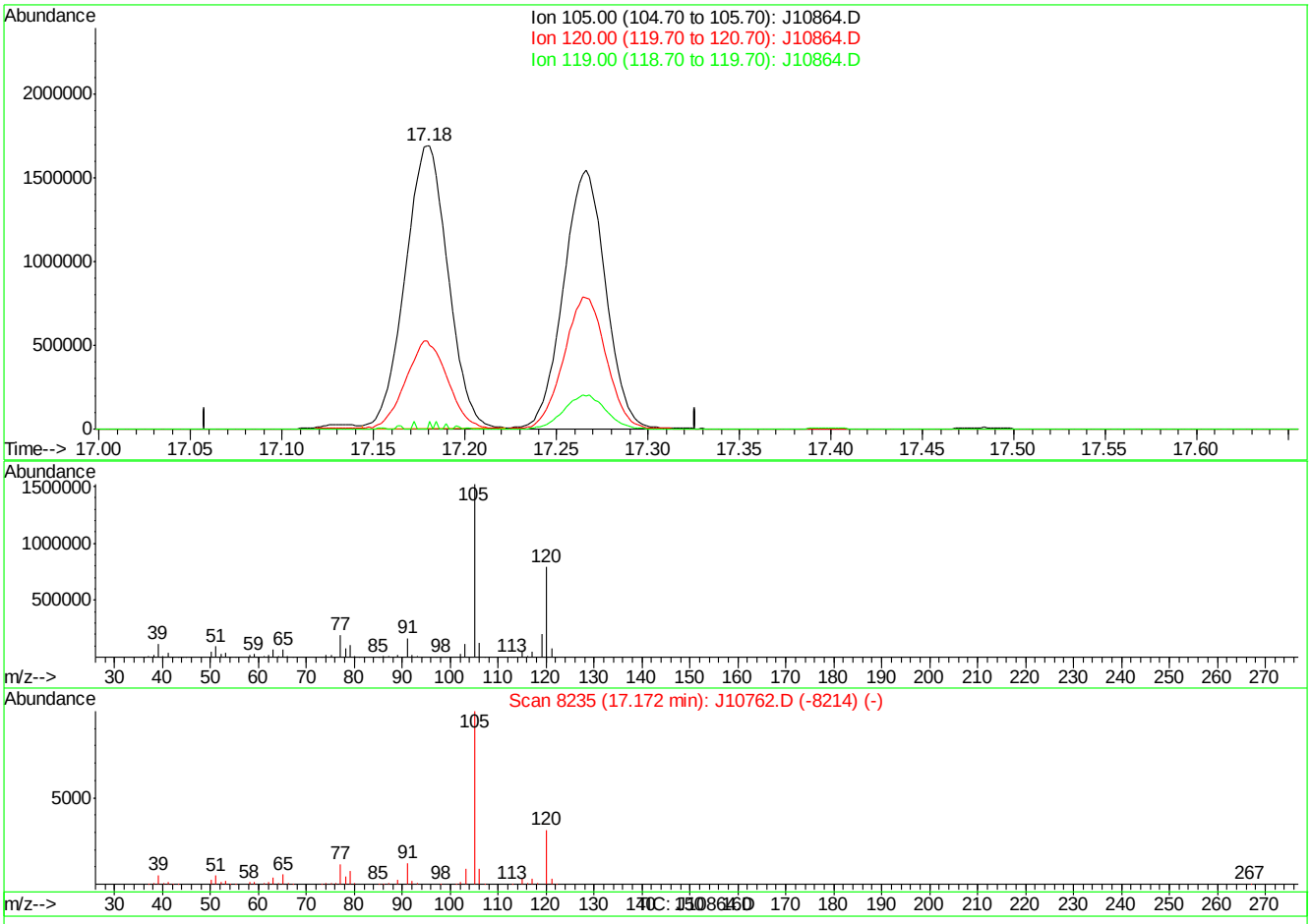
J10864.D J070507T.M Thu Jul 05 15:02:41 2007

Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10864.D Vial: 1
Acq On : 5 Jul 2007 2:22 pm Operator: danat
Sample : ic562-20 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 15:00:43 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(65) 4-ETHYLTOLUENE (m)

17.18min 30.08PPBV

response 2740052

| Ion | Exp% | Act% |
|---|---|---|
| 105.00 | 100 | 100 |
| 120.00 | 31.00 | 30.47 |
| 119.00 | 0.90 | 0.49 |
| 0.00 | 0.00 | 0.00 |

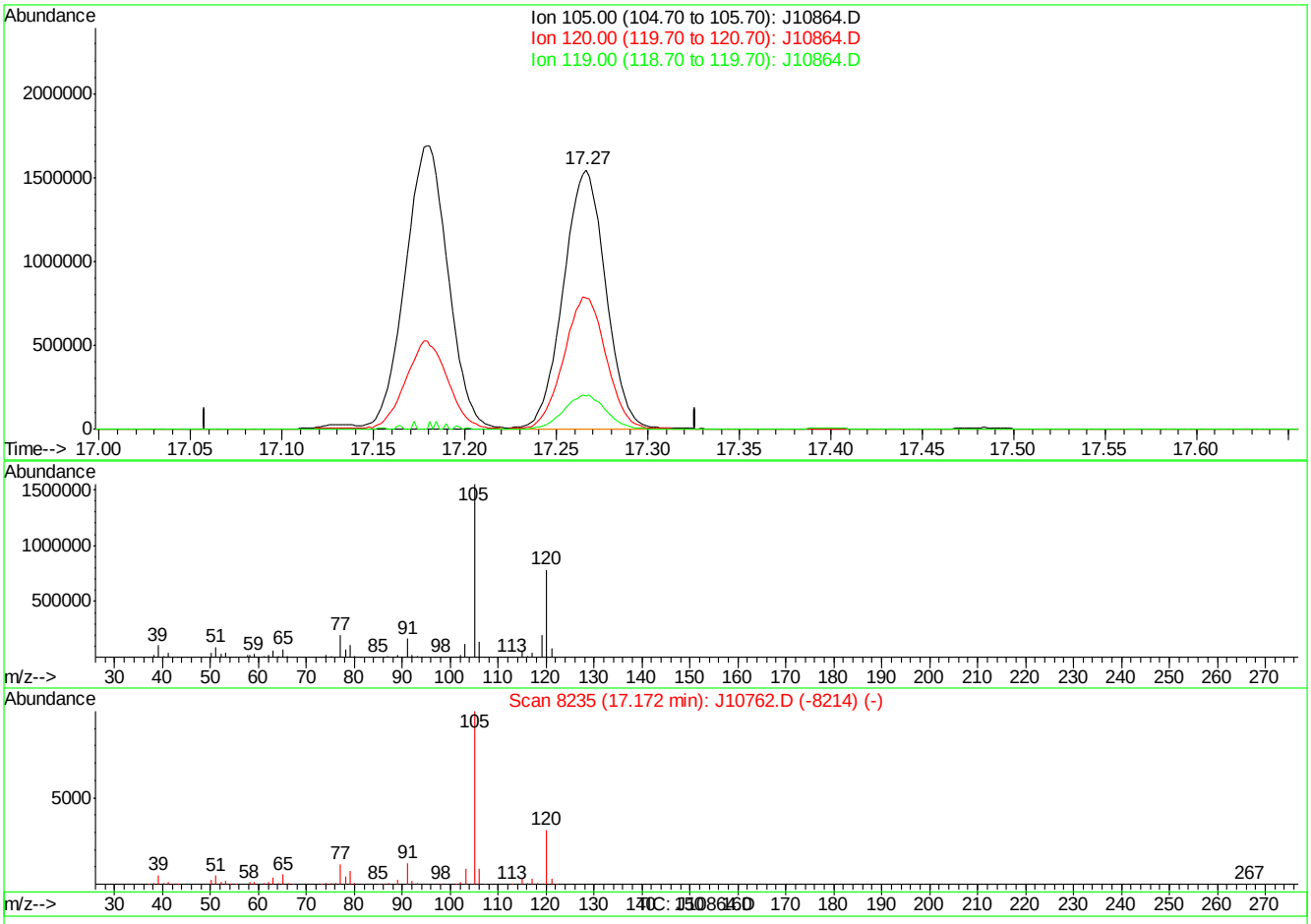
J10864.D J070507T.M Thu Jul 05 15:03:12 2007

Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10864.D Vial: 1
Acq On : 5 Jul 2007 2:22 pm Operator: danat
Sample : ic562-20 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 15:00:43 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(65) 4-ETHYLTOLUENE (m)

17.27min 27.55PPBV m

response 2509316

| Ion | Exp% | Act% |
|---|---|---|
| 105.00 | 100 | 100 |
| 120.00 | 31.00 | 33.27 |
| 119.00 | 0.90 | 0.54 |
| 0.00 | 0.00 | 0.00 |

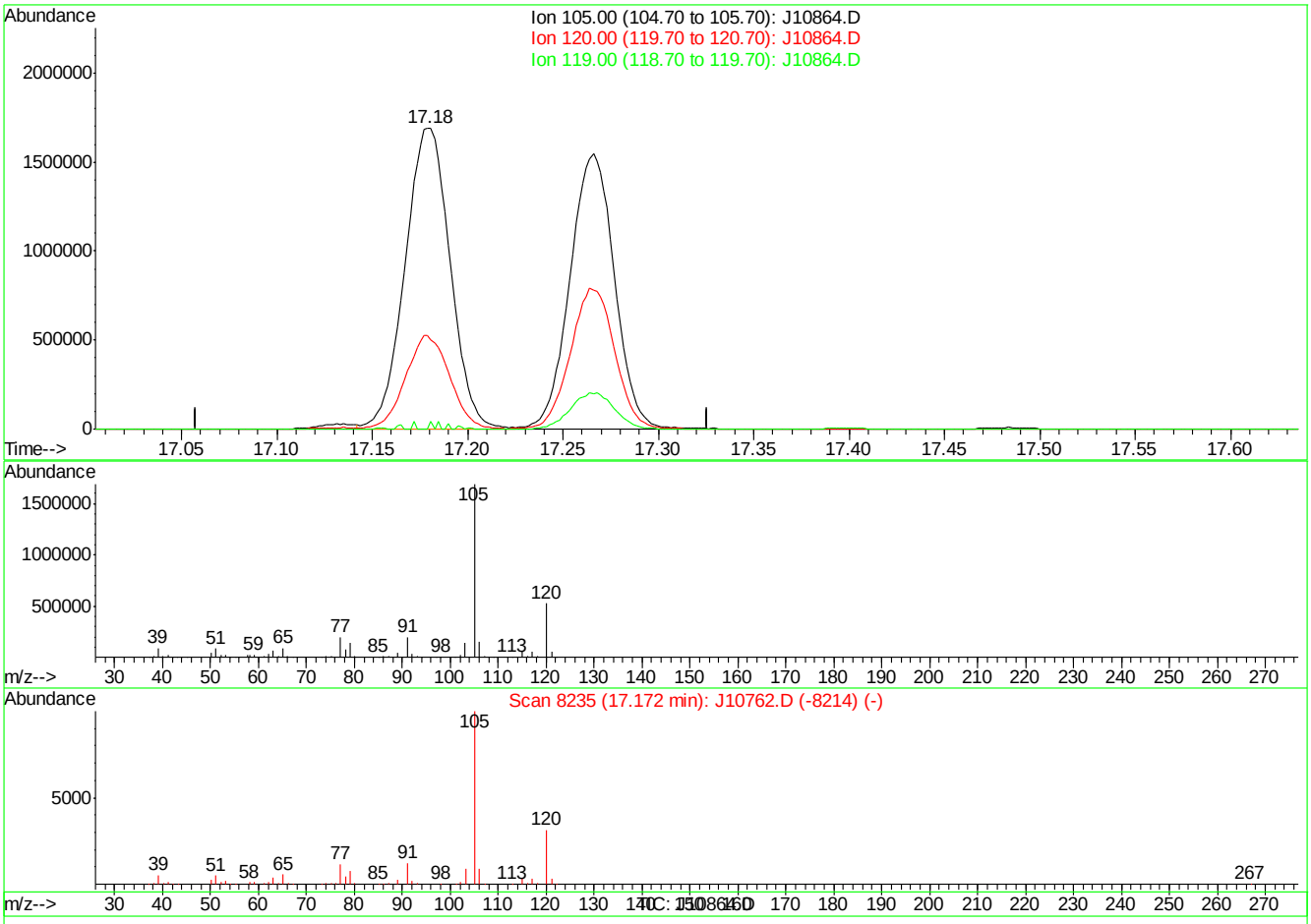
J10864.D J070507T.M Thu Jul 05 15:03:17 2007

Quantitation Report (Qedit)

Data File : C:\MSDChem\1\data\J10864.D Vial: 1
Acq On : 5 Jul 2007 2:22 pm Operator: danat
Sample : ic562-20 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 15:00:43 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 11:24:31 2007
Response via : Multiple Level Calibration




(65) 4-ETHYLTOLUENE (m)

17.18min 30.46PPBV m

response 2774205

| Ion | Exp% | Act% |
|---|---|---|
| 105.00 | 100 | 100 |
| 120.00 | 31.00 | 30.10 |
| 119.00 | 0.90 | 0.49 |
| 0.00 | 0.00 | 0.00 |

J10864.D J070507T.M Thu Jul 05 15:04:18 2007

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10865.D
Acq On : 5 Jul 2007 3:15 pm
Operator : danat
Sample : icc562-10 (M210)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 15:56:35 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 15:05:53 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.62 | 128 | 357730 | 10.00 | PPBV | -0.01 |
| 35) 1,4-DIFLUOROBENZENE | 10.43 | 114 | 1553136 | 10.00 | PPBV | -0.01 |
| 49) CHLOROBENZENE-D5 | 14.67 | 117 | 1367583 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 61) 4-BROMOFLUOROBENZENE | 16.30 | 95 | 450698 | 5.27 | PPBV | 0.00 |
| Spiked Amount 5.000 | Range 51 - 142 | | Recovery = 105.40% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) DICHLORODIFLUOROMETHANE | 4.07 | 85 | 1076721 | 9.52 | PPBV | 99 |
| 3) PROPYLENE | 4.00 | 41 | 194056 | 11.86 | PPBV | 95 |
| 4) FREON 114 | 4.32 | 85 | 925238 | 9.03 | PPBV | 97 |
| 5) CHLOROMETHANE | 4.23 | 50 | 234686 | 8.87 | PPBV | 97 |
| 6) VINYL CHLORIDE | 4.45 | 62 | 277627 | 9.48 | PPBV | 99 |
| 7) 1,3-BUTADIENE | 4.58 | 39 | 218238 | 10.78 | PPBV | 96 |
| 8) BROMOMETHANE | 4.85 | 94 | 319015 | 9.42 | PPBV | 100 |
| 9) CHLOROETHANE | 5.02 | 64 | 134835 | 9.66 | PPBV | 99 |
| 10) TRICHLOROFLUOROMETHANE | 5.78 | 101 | 1055126 | 8.78 | PPBV | 100 |
| 11) ISOPROPYL ALCOHOL | 5.97 | 45 | 339354 | 9.16 | PPBV | 97 |
| 12) ACETONE | 5.65 | 43 | 339867 | 7.29 | PPBV | 99 |
| 13) PENTANE | 6.13 | 42 | 259655 | 9.22 | PPBV | 98 |
| 14) 1,1-DICHLOROETHYLENE | 6.41 | 96 | 319565 | 10.85 | PPBV | 99 |
| 15) CARBON DISULFIDE | 6.84 | 76 | 917919 | 9.03 | PPBV | 99 |
| 16) ETHANOL | 5.22 | 45 | 57517 | 11.16 | PPBV | 98 |
| 17) BROMOETHENE | 5.37 | 106 | 314720 | 11.23 | PPBV | 99 |
| 18) METHYLENE CHLORIDE | 6.53 | 84 | 288840 | 5.18 | PPBV | 97 |
| 19) 3-CHLOROPROPENE | 6.65 | 39 | 240728 | 8.70 | PPBV | 96 |
| 20) FREON 113 | 6.77 | 151 | 667186 | 8.48 | PPBV | 97 |
| 21) TRANS-1,2-DICHLOROETHYLENE | 7.44 | 96 | 308958 | 10.23 | PPBV | 98 |
| 22) TERTIARY BUTYL ALCOHOL | 6.57 | 59 | 430066 | 10.86 | PPBV | 97 |
| 23) METHYL TERTIARY BUTYL ETHE | 7.72 | 73 | 648617 | 11.42 | PPBV | 99 |
| 24) TETRAHYDROFURAN | 9.17 | 42 | 204598 | 10.76 | PPBV | 99 |
| 25) HEXANE | 8.62 | 57 | 362632 | 8.86 | PPBV | 99 |
| 26) VINYL ACETATE | 7.79 | 43 | 422954 | 10.12 | PPBV | 98 |
| 27) 1,1-DICHLOROETHANE | 7.64 | 63 | 515933 | 9.09 | PPBV | 99 |
| 28) METHYL ETHYL KETONE | 8.07 | 43 | 406111 | 9.37 | PPBV | 99 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.45 | 96 | 291022 | 9.73 | PPBV | 98 |
| 30) ETHYL ACETATE | 8.69 | 43 | 453029 | 9.57 | PPBV # | 96 |
| 31) CHLOROFORM | 8.74 | 83 | 709256 | 8.74 | PPBV | 99 |
| 32) 1,1,1-TRICHLOROETHANE | 9.67 | 97 | 790106 | 8.93 | PPBV | 99 |
| 33) CARBON TETRACHLORIDE | 10.25 | 117 | 974330 | 9.04 | PPBV | 100 |
| 34) 1,2-DICHLOROETHANE | 9.44 | 62 | 400572 | 9.36 | PPBV | 98 |
| 36) BENZENE | 10.11 | 78 | 719064 | 9.93 | PPBV | 99 |
| 37) CYCLOHEXANE | 10.36 | 84 | 351407 | 10.53 | PPBV | 98 |
| 38) TRICHLOROETHYLENE | 11.11 | 95 | 372031 | 9.25 | PPBV | 98 |
| 39) 1,2-DICHLOROPROPANE | 10.89 | 63 | 229523 | 9.08 | PPBV | 98 |
| 40) BROMODICHLOROMETHANE | 11.08 | 83 | 636878 | 8.48 | PPBV | 99 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.12 | 57 | 1173343 | 10.61 | PPBV | 98 |
| 42) 1,4-DIOXANE | 11.17 | 88 | 128934 | 10.23 | PPBV | 93 |
| 43) HEPTANE | 11.36 | 43 | 377865 | 9.28 | PPBV | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10865.D
Acq On : 5 Jul 2007 3:15 pm
Operator : danat
Sample : icc562-10 (M210)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 15:56:35 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 15:05:53 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 12.00 | 43 | 441145 | 9.32 | PPBV | 98 |
| 45) cis-1,3-DICHLOROPROPENE | 11.93 | 75 | 340858 | 11.13 | PPBV | 98 |
| 46) TOLUENE | 12.89 | 92 | 492562 | 11.16 | PPBV | 99 |
| 47) trans-1,3-DICHLOROPROPENE | 12.44 | 75 | 328198 | 11.25 | PPBV | 97 |
| 48) 1,1,2-TRICHLOROETHANE | 12.63 | 83 | 240240 | 8.98 | PPBV | 100 |
| 50) 2-HEXANONE | 13.18 | 43 | 358222 | 9.19 | PPBV | 100 |
| 51) TETRACHLOROETHYLENE | 14.01 | 164 | 410408 | 9.45 | PPBV | 99 |
| 52) DIBROMOCHLOROMETHANE | 13.33 | 129 | 608765 | 8.95 | PPBV | 99 |
| 53) 1,2-DIBROMOETHANE | 13.57 | 107 | 427988 | 9.19 | PPBV | 100 |
| 54) CHLOROBENZENE | 14.72 | 112 | 688122 | 8.98 | PPBV | 99 |
| 55) ETHYLBENZENE | 15.10 | 91 | 1080019 | 11.86 | PPBV | 99 |
| 56) m,p-XYLENE | 15.28 | 106 | 896520 | 23.64 | PPBV | 94 |
| 57) o-XYLENE | 15.79 | 106 | 441607 | 11.65 | PPBV | 99 |
| 58) STYRENE | 15.68 | 104 | 565869 | 12.01 | PPBV | 100 |
| 59) NONANE | 15.97 | 43 | 470369 | 9.54 | PPBV | 97 |
| 60) BROMOFORM | 15.41 | 173 | 580762 | 8.81 | PPBV | 100 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.80 | 83 | 566916 | 8.01 | PPBV | 99 |
| 63) ISOPROPYLBENZENE | 16.43 | 105 | 1254810 | 11.11 | PPBV | 99 |
| 64) 2-CHLOROTOLUENE | 16.99 | 91 | 840760 | 11.11 | PPBV | 98 |
| 65) 4-ETHYLTOLUENE | 17.17 | 105 | 1060550 | 9.46 | PPBV | 99 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.26 | 105 | 993599 | 9.11 | PPBV | 99 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.72 | 105 | 878799 | 9.31 | PPBV | 99 |
| 68) m-DICHLOROBENZENE | 17.91 | 146 | 630101 | 8.68 | PPBV | 99 |
| 69) BENZYL CHLORIDE | 17.89 | 91 | 508860 | 9.48 | PPBV | 99 |
| 70) p-DICHLOROBENZENE | 17.99 | 146 | 601901 | 9.27 | PPBV | 100 |
| 71) o-DICHLOROBENZENE | 18.37 | 146 | 540883 | 8.38 | PPBV | 99 |
| 72) HEXACHLOROBUTADIENE | 20.76 | 225 | 347338 | 4.03 | PPBV | 98 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.27 | 180 | 206967 | 5.98 | PPBV | 98 |

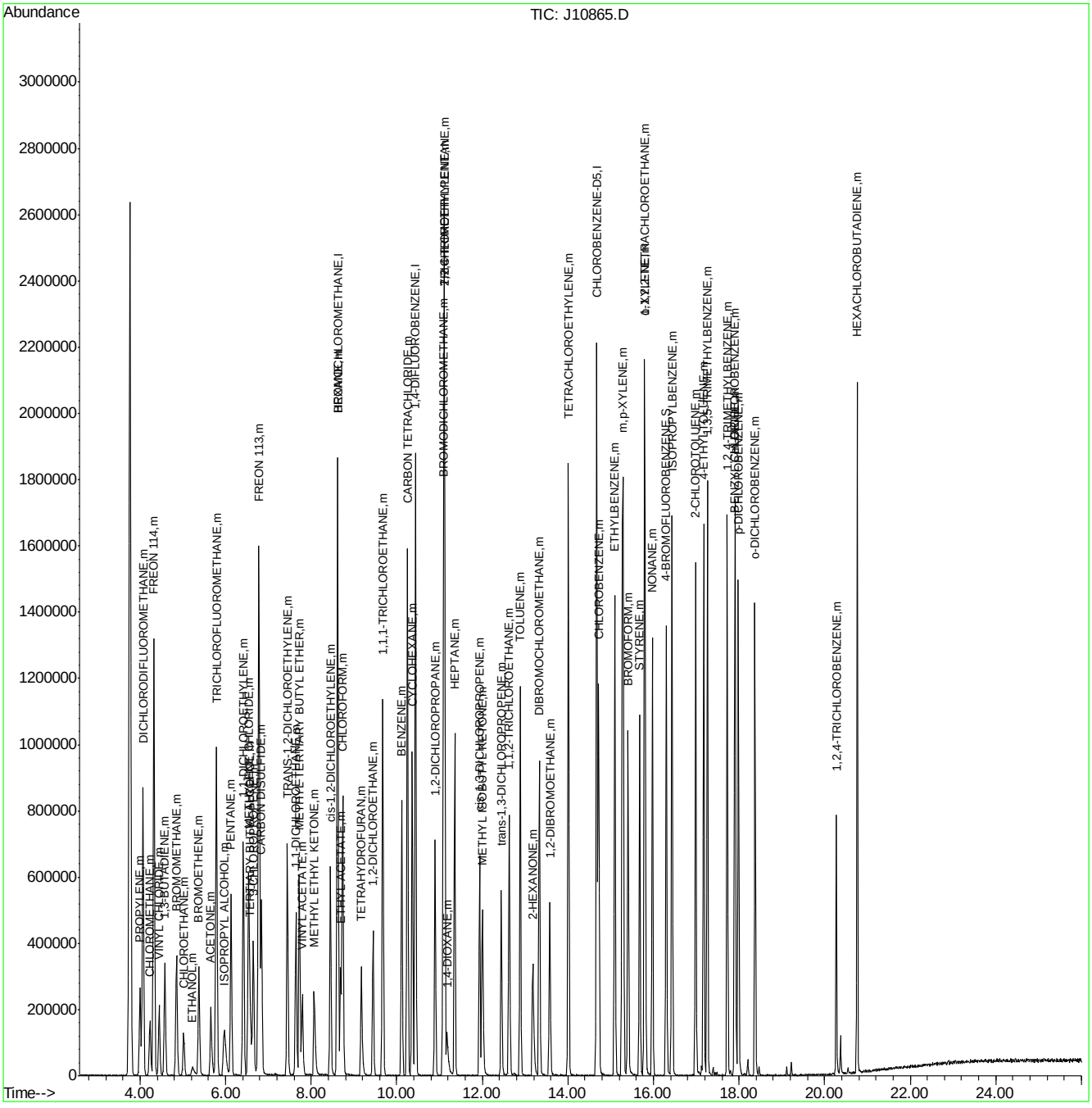
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10865.D
Acq On : 5 Jul 2007 3:15 pm
Operator : danat
Sample : icc562-10 (M210)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 15:56:35 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 15:05:53 2007
Response via : Initial Calibration








ACCUTEST Laboratories M66578

Manual Integrations APPROVED (compounds with "m" flag)
Doug Yargeau 07/11/07 09:41

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10866.D
Acq On : 5 Jul 2007 4:08 pm
Operator : danat
Sample : ic562-5 (M210)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 16:35:37 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 15:59:14 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.62 | 128 | 308937 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.43 | 114 | 1344037 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.67 | 117 | 1158520 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 61) 4-BROMOFLUOROBENZENE | 16.29 | 95 | 339092 | 4.64 | PPBV | 0.00 |
| Spiked Amount 5.000 | Range 51 - 142 | | Recovery = 92.80% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) DICHLORODIFLUOROMETHANE | 4.07 | 85 | 582729 | 6.01 | PPBV | 100 |
| 3) PROPYLENE | 4.00 | 41 | 98294 | 6.75 | PPBV | 91 |
| 4) FREON 114 | 4.32 | 85 | 536000 | 6.16 | PPBV | 100 |
| 5) CHLOROMETHANE | 4.23 | 50 | 138711 | 6.19 | PPBV | 94 |
| 6) VINYL CHLORIDE | 4.45 | 62 | 161797 | 6.45 | PPBV | 97 |
| 7) 1,3-BUTADIENE | 4.58 | 39 | 118794 | 6.71 | PPBV | 99 |
| 8) BROMOMETHANE | 4.85 | 94 | 178086 | 6.15 | PPBV | 99 |
| 9) CHLOROETHANE | 5.02 | 64 | 65785 | 5.49 | PPBV | 99 |
| 10) TRICHLOROFLUOROMETHANE | 5.79 | 101 | 595728 | 5.86 | PPBV | 100 |
| 11) ISOPROPYL ALCOHOL | 5.95 | 45 | 160004 | 5.09 | PPBV | 88 |
| 12) ACETONE | 5.66 | 43 | 177681 | 4.62 | PPBV | 100 |
| 13) PENTANE | 6.13 | 42 | 139874 | 5.83 | PPBV | 99 |
| 14) 1,1-DICHLOROETHYLENE | 6.42 | 96 | 169136 | 6.56 | PPBV | 99 |
| 15) CARBON DISULFIDE | 6.84 | 76 | 510584 | 5.91 | PPBV | 99 |
| 16) ETHANOL | 5.22 | 45 | 27044m | 5.44 | PPBV | |
| 17) BROMOETHENE | 5.38 | 106 | 169125 | 6.85 | PPBV | 99 |
| 18) METHYLENE CHLORIDE | 6.54 | 84 | 152118 | 5.22 | PPBV | 98 |
| 19) 3-CHLOROPROPENE | 6.65 | 39 | 110392 | 4.74 | PPBV | 99 |
| 20) FREON 113 | 6.78 | 151 | 336280 | 5.08 | PPBV | 99 |
| 21) TRANS-1,2-DICHLOROETHYLENE | 7.45 | 96 | 154290 | 5.89 | PPBV | 99 |
| 22) TERTIARY BUTYL ALCOHOL | 6.56 | 59 | 195431 | 5.62 | PPBV | 97 |
| 23) METHYL TERTIARY BUTYL ETHE | 7.73 | 73 | 313923 | 6.25 | PPBV | 99 |
| 24) TETRAHYDROFURAN | 9.18 | 42 | 95468 | 5.73 | PPBV | 98 |
| 25) HEXANE | 8.63 | 57 | 179704 | 5.18 | PPBV | 99 |
| 26) VINYL ACETATE | 7.79 | 43 | 199338 | 5.51 | PPBV | 97 |
| 27) 1,1-DICHLOROETHANE | 7.65 | 63 | 256128 | 5.31 | PPBV | 99 |
| 28) METHYL ETHYL KETONE | 8.07 | 43 | 192895 | 5.21 | PPBV | 97 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.45 | 96 | 147584 | 5.74 | PPBV | 99 |
| 30) ETHYL ACETATE | 8.69 | 43 | 211407 | 5.21 | PPBV | 100 |
| 31) CHLOROFORM | 8.73 | 83 | 360248 | 5.25 | PPBV | 100 |
| 32) 1,1,1-TRICHLOROETHANE | 9.67 | 97 | 386510 | 5.15 | PPBV | 99 |
| 33) CARBON TETRACHLORIDE | 10.25 | 117 | 480721 | 5.25 | PPBV | 99 |
| 34) 1,2-DICHLOROETHANE | 9.44 | 62 | 213484 | 5.84 | PPBV | 98 |
| 36) BENZENE | 10.12 | 78 | 374019 | 5.98 | PPBV | 99 |
| 37) CYCLOHEXANE | 10.36 | 84 | 172562 | 5.91 | PPBV | 98 |
| 38) TRICHLOROETHYLENE | 11.11 | 95 | 197728 | 5.76 | PPBV | 98 |
| 39) 1,2-DICHLOROPROPANE | 10.89 | 63 | 120865 | 5.61 | PPBV | 100 |
| 40) BROMODICHLOROMETHANE | 11.08 | 83 | 334936 | 5.29 | PPBV | 98 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.12 | 57 | 545596 | 4.91 | PPBV | 99 |
| 42) 1,4-DIOXANE | 11.18 | 88 | 56162 | 4.87 | PPBV | 94 |
| 43) HEPTANE | 11.35 | 43 | 181333 | 5.22 | PPBV | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10866.D
Acq On : 5 Jul 2007 4:08 pm
Operator : danat
Sample : ic562-5 (M210)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 16:35:37 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 15:59:14 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 12.00 | 43 | 194430 | 4.81 | PPBV | 99 |
| 45) cis-1,3-DICHLOROPROPENE | 11.93 | 75 | 172847 | 5.72 | PPBV | 98 |
| 46) TOLUENE | 12.88 | 92 | 246964 | 5.81 | PPBV | 100 |
| 47) trans-1,3-DICHLOROPROPENE | 12.44 | 75 | 156172 | 5.49 | PPBV | 98 |
| 48) 1,1,2-TRICHLOROETHANE | 12.62 | 83 | 124985 | 5.49 | PPBV | 99 |
| 50) 2-HEXANONE | 13.18 | 43 | 161027 | 4.96 | PPBV | 97 |
| 51) TETRACHLOROETHYLENE | 14.01 | 164 | 210815 | 5.78 | PPBV | 100 |
| 52) DIBROMOCHLOROMETHANE | 13.32 | 129 | 313410 | 5.54 | PPBV | 100 |
| 53) 1,2-DIBROMOETHANE | 13.57 | 107 | 221216 | 5.68 | PPBV | 100 |
| 54) CHLOROBENZENE | 14.71 | 112 | 353690 | 5.54 | PPBV | 99 |
| 55) ETHYLBENZENE | 15.09 | 91 | 512167 | 5.62 | PPBV | 100 |
| 56) m,p-XYLENE | 15.28 | 106 | 423682 | 11.30 | PPBV | 92 |
| 57) o-XYLENE | 15.78 | 106 | 208586 | 5.64 | PPBV | 100 |
| 58) STYRENE | 15.67 | 104 | 247110 | 5.20 | PPBV | 99 |
| 59) NONANE | 15.97 | 43 | 214630 | 5.18 | PPBV | 99 |
| 60) BROMOFORM | 15.40 | 173 | 289411 | 5.29 | PPBV | 99 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.79 | 83 | 275352 | 4.75 | PPBV | 98 |
| 63) ISOPROPYLBENZENE | 16.43 | 105 | 566878 | 5.37 | PPBV | 100 |
| 64) 2-CHLOROTOLUENE | 16.98 | 91 | 381215 | 5.35 | PPBV | 99 |
| 65) 4-ETHYLTOLUENE | 17.16 | 105 | 467174 | 5.30 | PPBV | 99 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.25 | 105 | 451807 | 5.36 | PPBV | 99 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.72 | 105 | 392208 | 5.38 | PPBV | 100 |
| 68) m-DICHLOROBENZENE | 17.90 | 146 | 312169 | 5.82 | PPBV | 98 |
| 69) BENZYL CHLORIDE | 17.89 | 91 | 230130 | 5.40 | PPBV | 99 |
| 70) p-DICHLOROBENZENE | 17.98 | 146 | 303681 | 5.98 | PPBV | 99 |
| 71) o-DICHLOROBENZENE | 18.37 | 146 | 267229 | 5.03 | PPBV | 99 |
| 72) HEXACHLOROBUTADIENE | 20.76 | 225 | 167222 | 4.21 | PPBV | 99 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.27 | 180 | 89901 | 4.56 | PPBV | 98 |

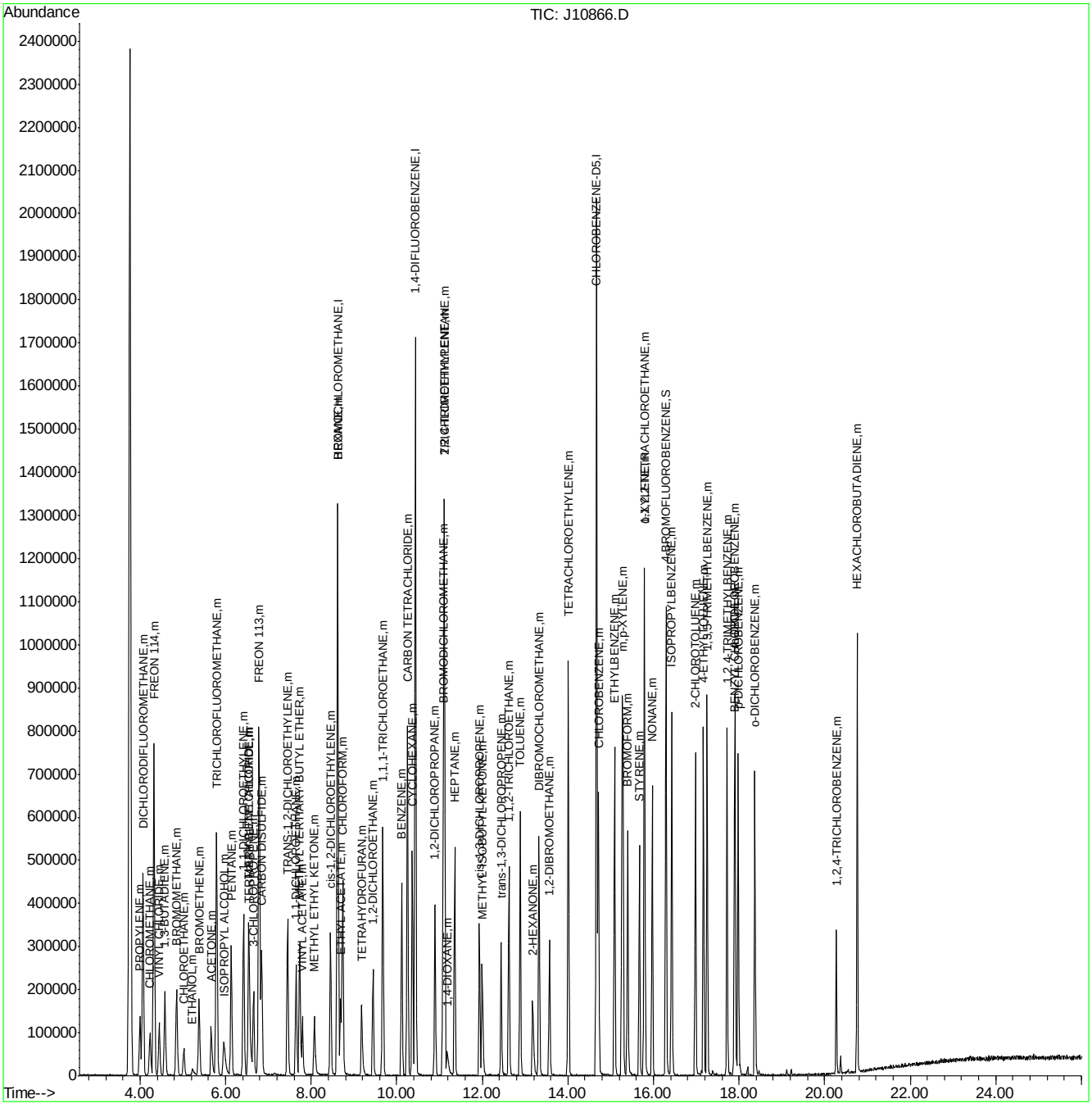
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10866.D
Acq On : 5 Jul 2007 4:08 pm
Operator : danat
Sample : ic562-5 (M210)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 16:35:37 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 15:59:14 2007
Response via : Initial Calibration







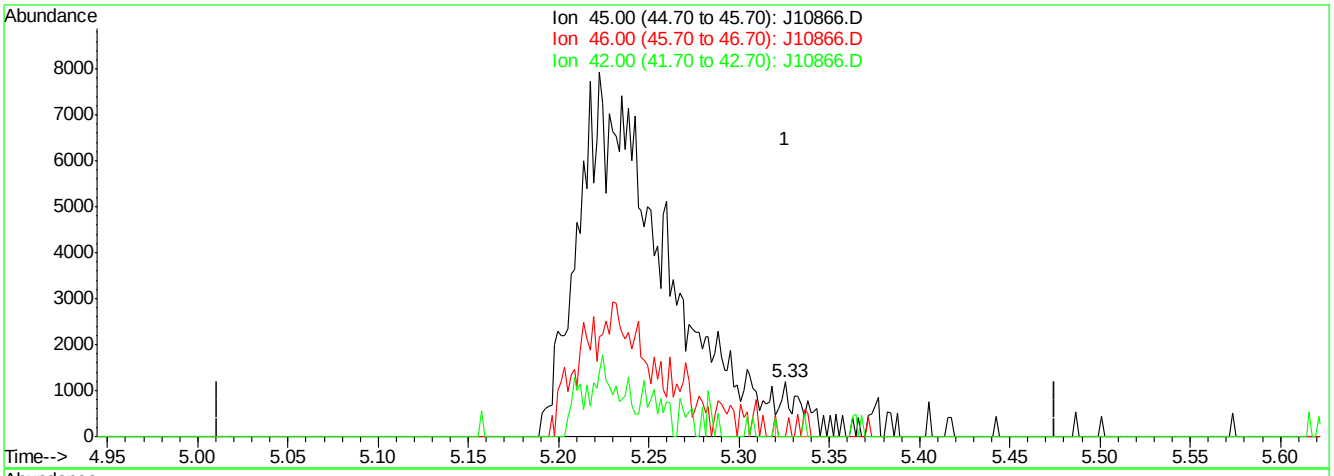

ACCUTEST Laboratories M66578

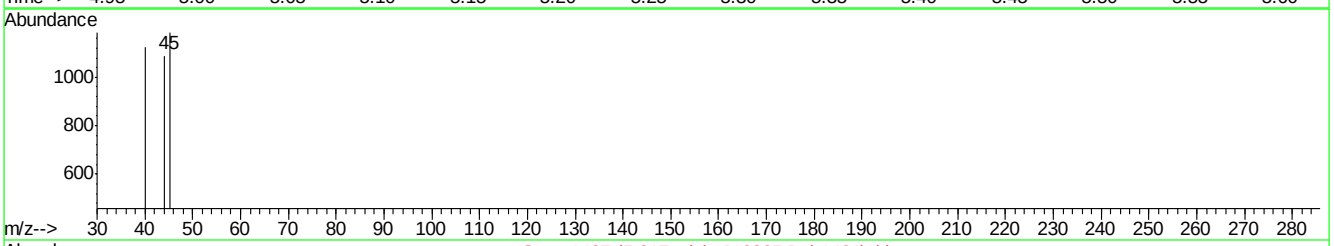
Quantitation Report (Qedit)

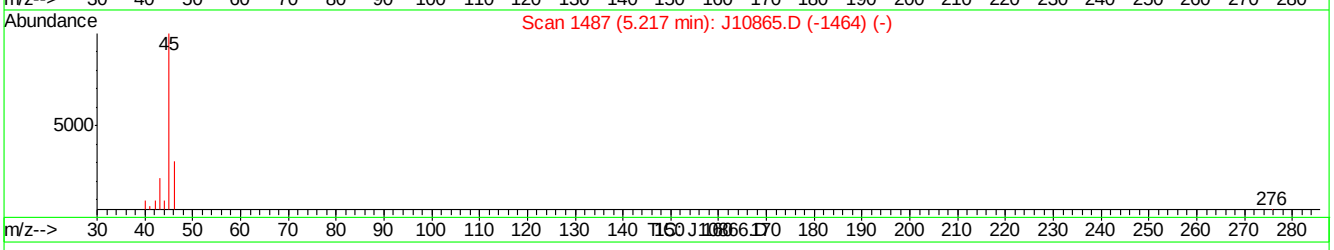
Data File : C:\MSDChem\1\data\J10866.D Vial: 1
Acq On : 5 Jul 2007 4:08 pm Operator: danat
Sample : ic562-5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 16:34:18 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 15:59:14 2007
Response via : Multiple Level Calibration




(16) ETHANOL (m)

5.33min 1.20PPBV

response 1013

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 34.00 | 17.97 |
| 42.00 | 9.40 | 4.44 |
| 0.00 | 0.00 | 0.00 |

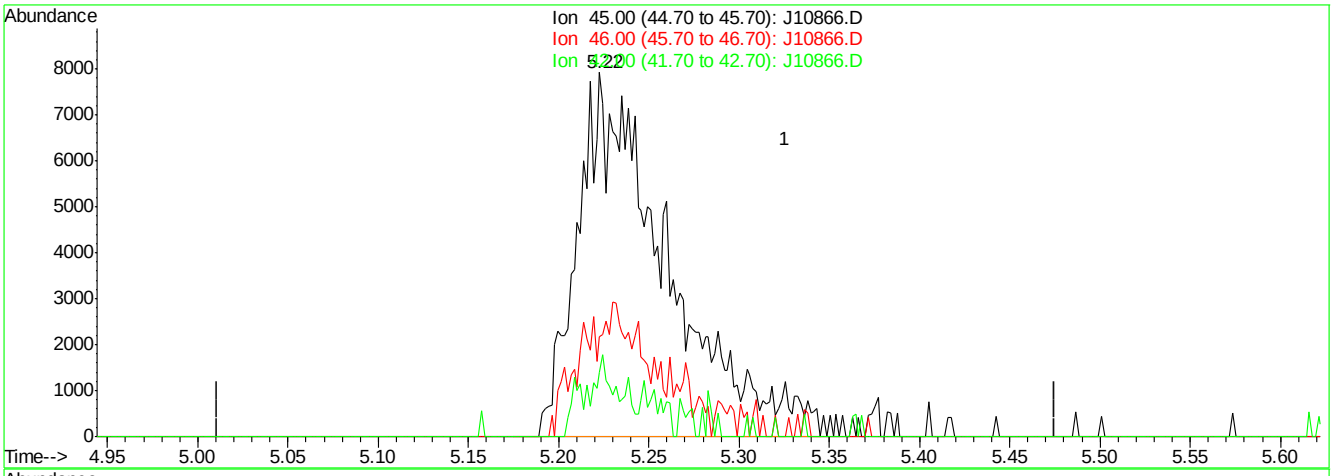
J10866.D J070507T.M Thu Jul 05 16:34:48 2007

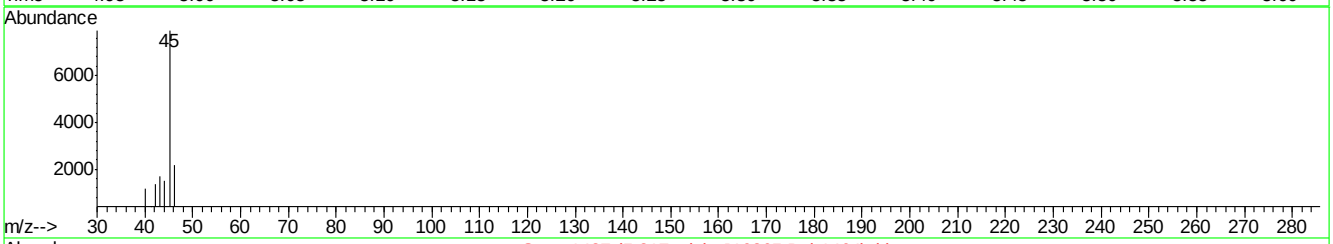
Quantitation Report (Qedit)

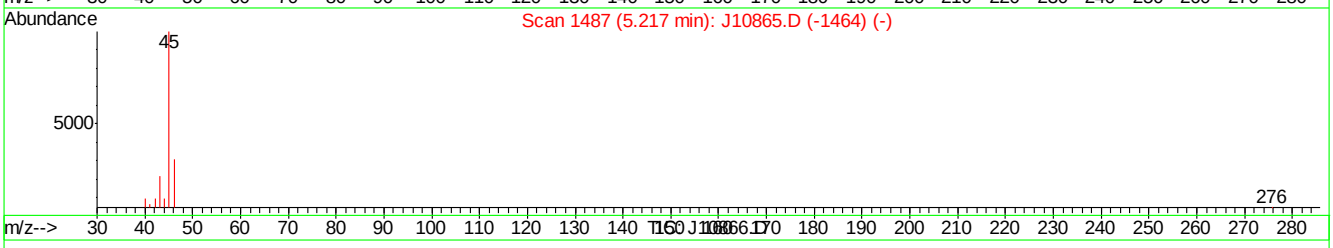
Data File : C:\MSDChem\1\data\J10866.D Vial: 1
Acq On : 5 Jul 2007 4:08 pm Operator: danat
Sample : ic562-5 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 16:34:18 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 15:59:14 2007
Response via : Multiple Level Calibration




(16) ETHANOL (m)

5.22min 5.44PPBV m

response 27044

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 34.00 | 0.67# |
| 42.00 | 9.40 | 0.17 |
| 0.00 | 0.00 | 0.00 |

J10866.D J070507T.M Thu Jul 05 16:34:55 2007

J10867.D

Manual Integrations APPROVED (compounds with "m" flag)

Doug Yargeau 07/11/07 09:41

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10867.D
Acq On : 5 Jul 2007 4:59 pm
Operator : danat
Sample : ic562-2 (M210)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 05 17:26:51 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 16:35:54 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.62 | 128 | 330127 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.43 | 114 | 1414347 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.67 | 117 | 1160504 | 10.00 | PPBV | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.29 | 95 | 334470 | 4.62 | PPBV | -0.01 |

Spiked Amount 5.000 Range 51 - 142 Recovery = 92.40%

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 2) DICHLORODIFLUOROMETHANE | 4.06 | 85 | 229466 | 2.15 | PPBV | 99 |
| 3) PROPYLENE | 4.00 | 41 | 35098 | 2.15 | PPBV | 93 |
| 4) FREON 114 | 4.32 | 85 | 181482 | 1.89 | PPBV | 99 |
| 5) CHLOROMETHANE | 4.24 | 50 | 48637 | 1.96 | PPBV | 89 |
| 6) VINYL CHLORIDE | 4.45 | 62 | 51618 | 1.85 | PPBV | 97 |
| 7) 1,3-BUTADIENE | 4.58 | 39 | 37084 | 1.87 | PPBV | 98 |
| 8) BROMOMETHANE | 4.86 | 94 | 59056 | 1.85 | PPBV | 99 |
| 9) CHLOROETHANE | 5.03 | 64 | 22813 | 1.76 | PPBV | 98 |
| 10) TRICHLOROFLUOROMETHANE | 5.79 | 101 | 201938 | 1.81 | PPBV | 100 |
| 11) ISOPROPYL ALCOHOL | 5.98 | 45 | 48377 | 1.44 | PPBV | 81 |
| 12) ACETONE | 5.69 | 43 | 57242 | 1.41 | PPBV | 99 |
| 13) PENTANE | 6.14 | 42 | 45140 | 1.72 | PPBV | 99 |
| 14) 1,1-DICHLOROETHYLENE | 6.42 | 96 | 52848 | 1.84 | PPBV | 99 |
| 15) CARBON DISULFIDE | 6.85 | 76 | 173627 | 1.83 | PPBV | 98 |
| 16) ETHANOL | 5.25 | 45 | 5804m | 1.81 | PPBV | |
| 17) BROMOETHENE | 5.39 | 106 | 50669 | 1.82 | PPBV | 98 |
| 18) METHYLENE CHLORIDE | 6.55 | 84 | 54170 | 1.32 | PPBV | 96 |
| 19) 3-CHLOROPROPENE | 6.66 | 39 | 37962 | 1.54 | PPBV | 93 |
| 20) FREON 113 | 6.79 | 151 | 119737 | 1.69 | PPBV | 99 |
| 21) TRANS-1,2-DICHLOROETHYLENE | 7.45 | 96 | 49311 | 1.72 | PPBV | 99 |
| 22) TERTIARY BUTYL ALCOHOL | 6.59 | 59 | 46528 | 1.23 | PPBV | 82 |
| 23) METHYL TERTIARY BUTYL ETHE | 7.74 | 73 | 96121 | 1.73 | PPBV | 98 |
| 24) TETRAHYDROFURAN | 9.21 | 42 | 24851 | 1.36 | PPBV | 91 |
| 25) HEXANE | 8.63 | 57 | 58771 | 1.58 | PPBV | 93 |
| 26) VINYL ACETATE | 7.80 | 43 | 53072 | 1.35 | PPBV | 92 |
| 27) 1,1-DICHLOROETHANE | 7.65 | 63 | 84237 | 1.62 | PPBV | 100 |
| 28) METHYL ETHYL KETONE | 8.09 | 43 | 56905 | 1.43 | PPBV | 90 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.45 | 96 | 46740 | 1.67 | PPBV | 99 |
| 30) ETHYL ACETATE | 8.71 | 43 | 64712 | 1.48 | PPBV # | 92 |
| 31) CHLOROFORM | 8.74 | 83 | 122413 | 1.66 | PPBV | 99 |
| 32) 1,1,1-TRICHLOROETHANE | 9.67 | 97 | 130586 | 1.62 | PPBV | 100 |
| 33) CARBON TETRACHLORIDE | 10.25 | 117 | 165237 | 1.68 | PPBV | 99 |
| 34) 1,2-DICHLOROETHANE | 9.45 | 62 | 68378 | 1.71 | PPBV | 100 |
| 36) BENZENE | 10.12 | 78 | 111788 | 1.65 | PPBV | 100 |
| 37) CYCLOHEXANE | 10.37 | 84 | 51554 | 1.63 | PPBV | 98 |
| 38) TRICHLOROETHYLENE | 11.11 | 95 | 58790 | 1.59 | PPBV | 98 |
| 39) 1,2-DICHLOROPROPANE | 10.90 | 63 | 37078 | 1.61 | PPBV | 96 |
| 40) BROMODICHLOROMETHANE | 11.08 | 83 | 108047 | 1.61 | PPBV | 97 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.12 | 57 | 163007 | 2.12 | PPBV | 98 |
| 42) 1,4-DIOXANE | 11.22 | 88 | 10728 | 1.90 | PPBV | 85 |
| 43) HEPTANE | 11.36 | 43 | 52042 | 1.41 | PPBV | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10867.D
Acq On : 5 Jul 2007 4:59 pm
Operator : danat
Sample : ic562-2 (M210)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 05 17:26:51 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 16:35:54 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 12.01 | 43 | 49831 | 1.18 PPBV | 94 |
| 45) cis-1,3-DICHLOROPROPENE | 11.93 | 75 | 42037 | 1.57 PPBV | 96 |
| 46) TOLUENE | 12.88 | 92 | 66487 | 1.65 PPBV | 99 |
| 47) trans-1,3-DICHLOROPROPENE | 12.44 | 75 | 37565 | 1.53 PPBV | 98 |
| 48) 1,1,2-TRICHLOROETHANE | 12.61 | 83 | 38780 | 1.60 PPBV | 98 |
| 50) 2-HEXANONE | 13.19 | 43 | 36294 | 1.12 PPBV # | 36 |
| 51) TETRACHLOROETHYLENE | 14.01 | 164 | 63817 | 1.71 PPBV | 98 |
| 52) DIBROMOCHLOROMETHANE | 13.32 | 129 | 97799 | 1.70 PPBV | 99 |
| 53) 1,2-DIBROMOETHANE | 13.57 | 107 | 61325 | 1.54 PPBV | 99 |
| 54) CHLOROBENZENE | 14.71 | 112 | 107091 | 1.65 PPBV | 98 |
| 55) ETHYLBENZENE | 15.09 | 91 | 127619 | 1.58 PPBV | 99 |
| 56) m,p-XYLENE | 15.28 | 106 | 109943 | 3.16 PPBV | 94 |
| 57) o-XYLENE | 15.78 | 106 | 53449 | 1.57 PPBV | 97 |
| 58) STYRENE | 15.67 | 104 | 48627 | 1.44 PPBV | 99 |
| 59) NONANE | 15.97 | 43 | 55542 | 1.33 PPBV | 98 |
| 60) BROMOFORM | 15.39 | 173 | 82740 | 1.50 PPBV | 98 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.78 | 83 | 84884 | 1.47 PPBV | 99 |
| 63) ISOPROPYLBENZENE | 16.42 | 105 | 143311 | 1.48 PPBV | 99 |
| 64) 2-CHLOROTOLUENE | 16.98 | 91 | 90956 | 1.49 PPBV | 99 |
| 65) 4-ETHYLTOLUENE | 17.16 | 105 | 107216 | 1.52 PPBV | 98 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.25 | 105 | 113765 | 1.46 PPBV | 99 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.72 | 105 | 87297 | 1.40 PPBV | 98 |
| 68) m-DICHLOROBENZENE | 17.90 | 146 | 86523 | 1.48 PPBV | 99 |
| 69) BENZYL CHLORIDE | 17.89 | 91 | 48772 | 1.25 PPBV | 99 |
| 70) p-DICHLOROBENZENE | 17.98 | 146 | 81526 | 1.52 PPBV | 98 |
| 71) o-DICHLOROBENZENE | 18.37 | 146 | 69326 | 1.30 PPBV | 99 |
| 72) HEXACHLOROBUTADIENE | 20.76 | 225 | 53969 | Below Cal | 99 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.28 | 180 | 21611 | 0.35 PPBV | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.7.7

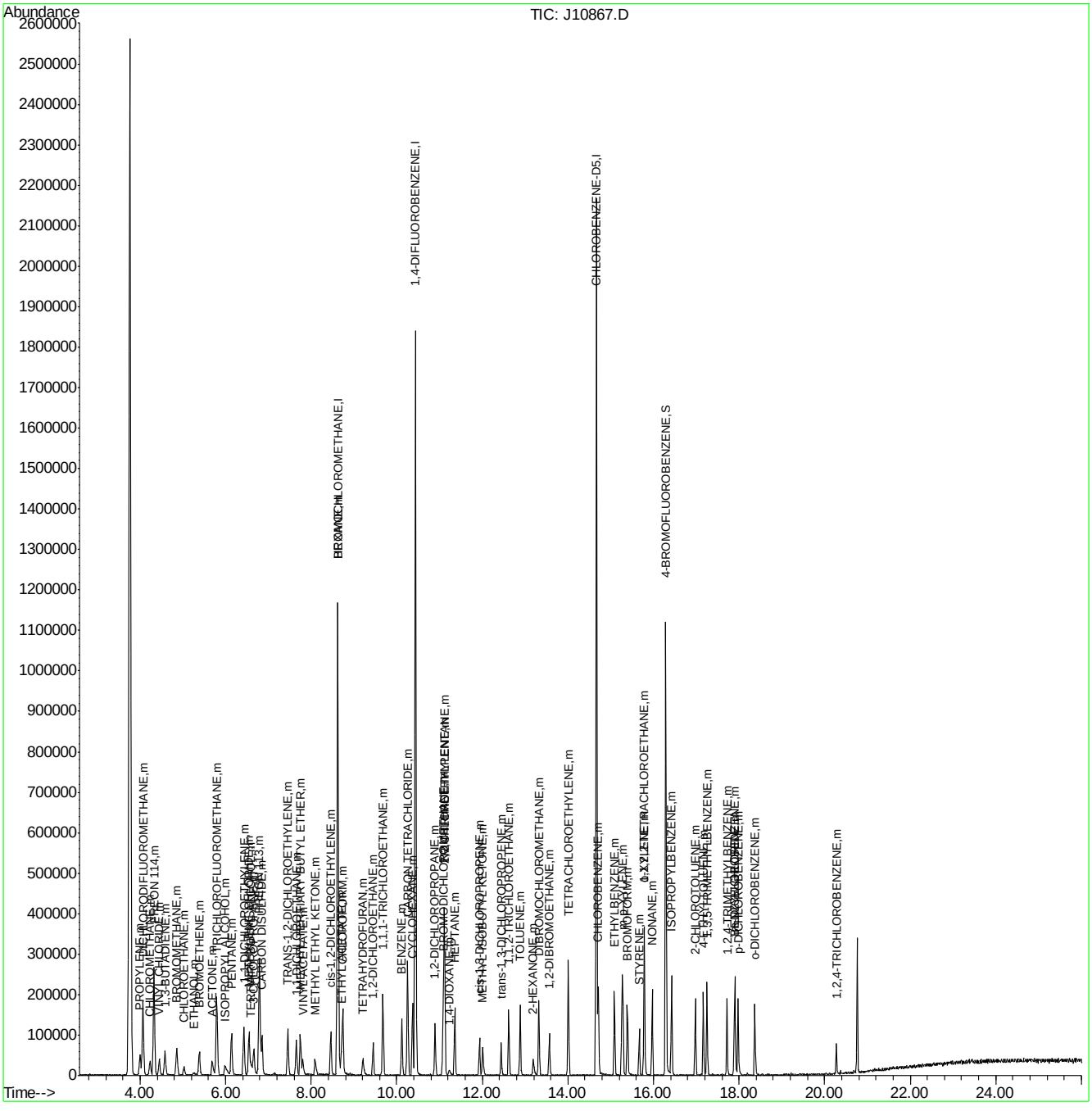
6

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10867.D
Acq On : 5 Jul 2007 4:59 pm
Operator : danat
Sample : ic562-2 (M210)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 05 17:26:51 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 16:35:54 2007
Response via : Initial Calibration



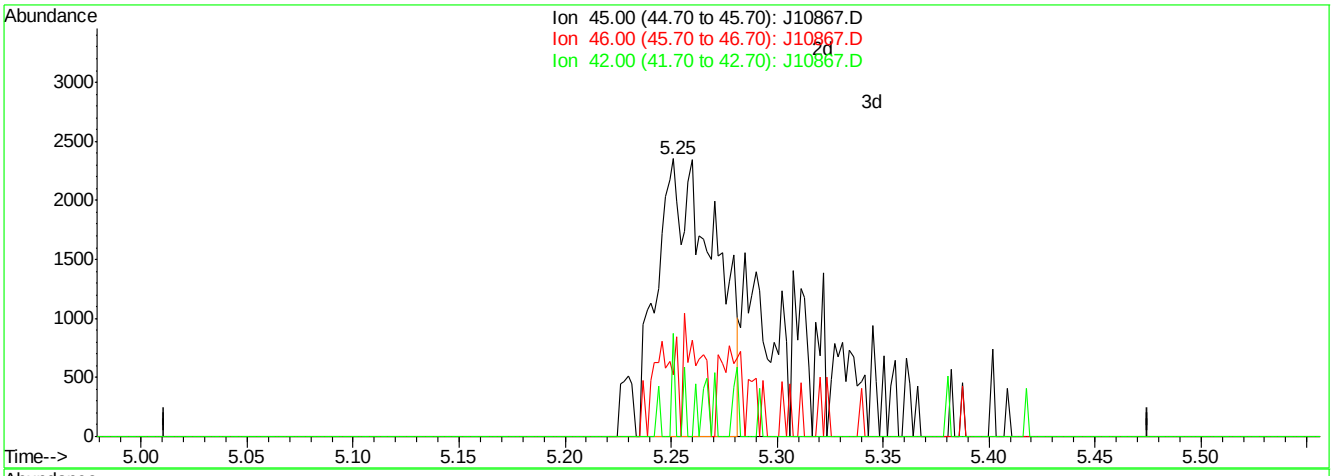


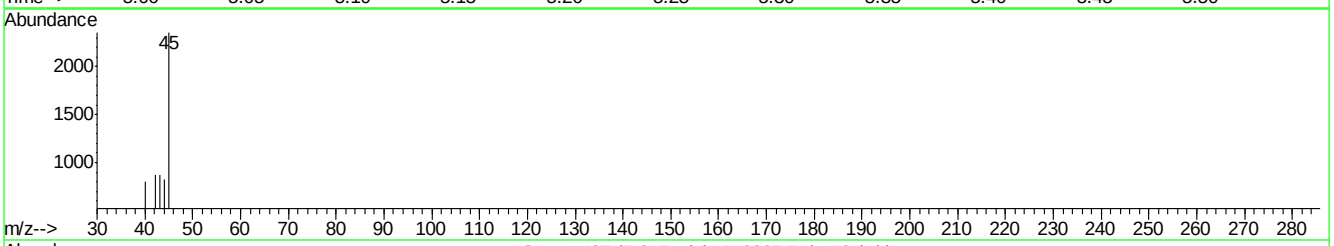
Quantitation Report (Qedit)

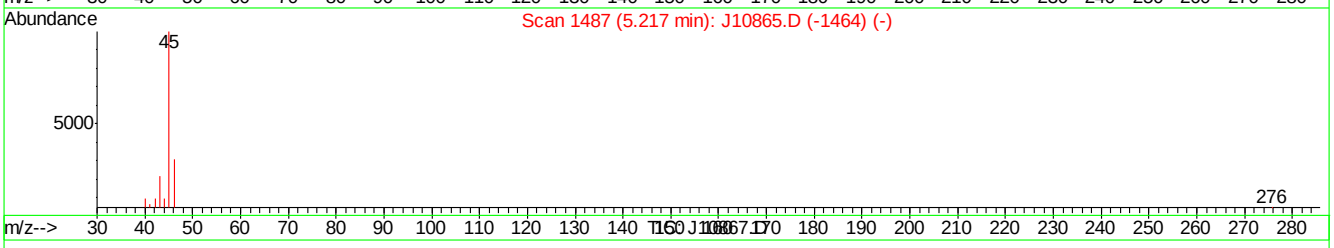
Data File : C:\MSDChem\1\data\J10867.D Vial: 2
Acq On : 5 Jul 2007 4:59 pm Operator: danat
Sample : ic562-2 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 17:26:21 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 16:35:54 2007
Response via : Multiple Level Calibration




(16) ETHANOL (m)

5.25min 1.63PPBV

response 4623

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 34.00 | 24.53 |
| 42.00 | 9.40 | 3.37 |
| 0.00 | 0.00 | 0.00 |

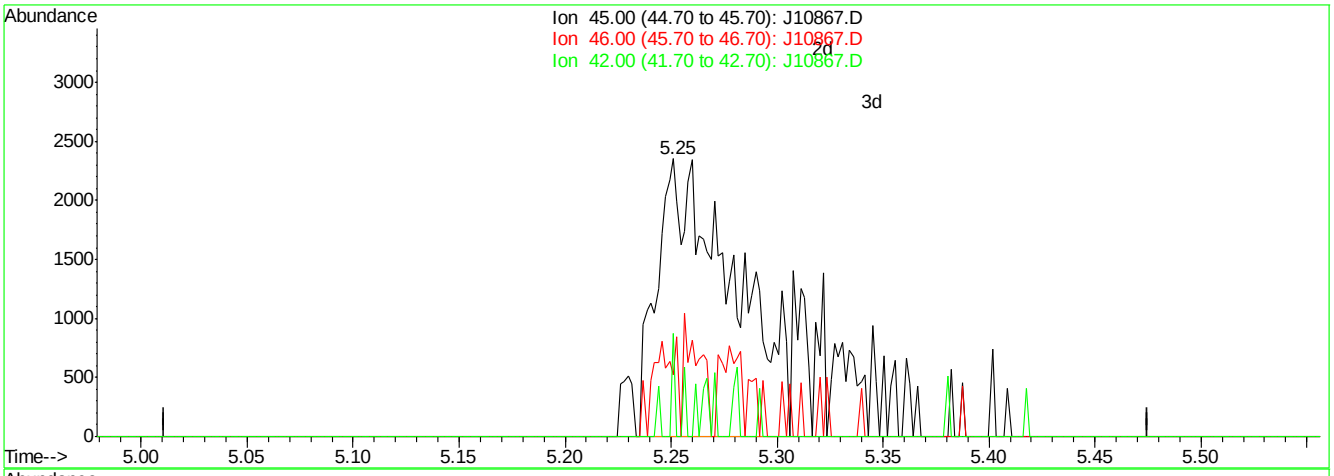
J10867.D J070507T.M Thu Jul 05 17:26:48 2007

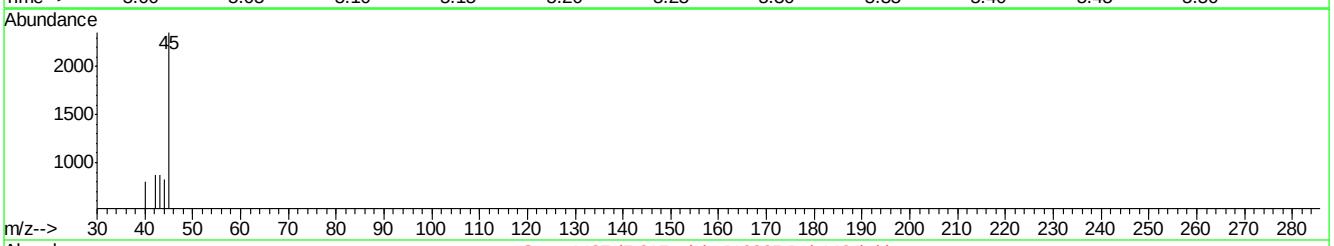
Quantitation Report (Qedit)

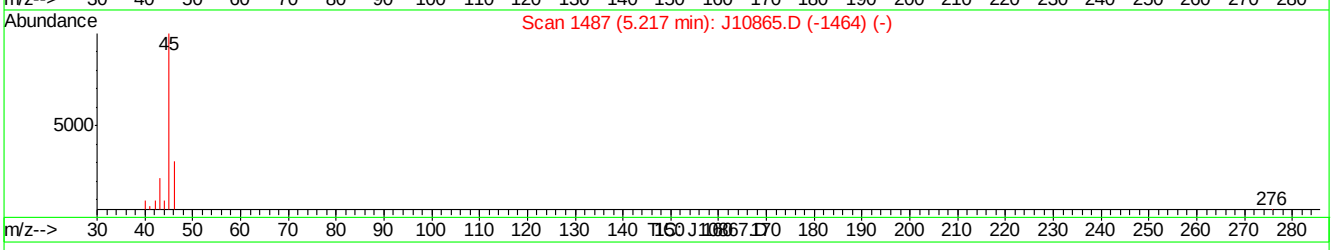
Data File : C:\MSDChem\1\data\J10867.D Vial: 2
Acq On : 5 Jul 2007 4:59 pm Operator: danat
Sample : ic562-2 (M210) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 17:26:21 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 16:35:54 2007
Response via : Multiple Level Calibration




(16) ETHANOL (m)

5.25min 1.81PPBV m

response 5804

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 34.00 | 19.54 |
| 42.00 | 9.40 | 2.69 |
| 0.00 | 0.00 | 0.00 |

J10867.D J070507T.M Thu Jul 05 17:26:54 2007

Manual Integrations APPROVED (compounds with "m" flag)
Doug Yargeau
07/11/07 09:45

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : J10868a.D
Acq On : 5 Jul 2007 5:56 pm
Operator : danat
Sample : cc562-10 (M080)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 05 18:24:49 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 17:30:53 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.60 | 128 | 347038 | 10.00 | PPBV | -0.01 |
| 35) 1,4-DIFLUOROBENZENE | 10.43 | 114 | 1501760 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.67 | 117 | 1335133 | 10.00 | PPBV | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 61) 4-BROMOFLUOROBENZENE | 16.30 | 95 | 446244 | 5.44 | PPBV | 0.00 |
| Spiked Amount 5.000 | Range 51 - 142 | | Recovery = 108.80% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) DICHLORODIFLUOROMETHANE | 4.06 | 85 | 1061110 | 9.42 | PPBV | 100 |
| 3) PROPYLENE | 3.99 | 41 | 183358 | 10.60 | PPBV | 96 |
| 4) FREON 114 | 4.32 | 85 | 975926 | 9.85 | PPBV | 99 |
| 5) CHLOROMETHANE | 4.23 | 50 | 255655 | 9.93 | PPBV | 94 |
| 6) VINYL CHLORIDE | 4.44 | 62 | 301471 | 10.50 | PPBV | 99 |
| 7) 1,3-BUTADIENE | 4.57 | 39 | 232443 | 11.26 | PPBV | 98 |
| 8) BROMOMETHANE | 4.84 | 94 | 332070 | 10.01 | PPBV | 99 |
| 9) CHLOROETHANE | 5.01 | 64 | 140388 | 10.56 | PPBV | 99 |
| 10) TRICHLOROFLUOROMETHANE | 5.77 | 101 | 1134544 | 9.90 | PPBV | 100 |
| 11) ISOPROPYL ALCOHOL | 5.99 | 45 | 376740m | 10.92 | PPBV | |
| 12) ACETONE | 5.64 | 43 | 394061 | 9.71 | PPBV | 99 |
| 13) PENTANE | 6.12 | 42 | 281678 | 10.41 | PPBV | 99 |
| 14) 1,1-DICHLOROETHYLENE | 6.40 | 96 | 307939 | 10.16 | PPBV | 100 |
| 15) CARBON DISULFIDE | 6.82 | 76 | 926519 | 9.44 | PPBV | 99 |
| 16) ETHANOL | 5.26 | 45 | 67215 | 10.80 | PPBV # | 65 |
| 17) BROMOETHENE | 5.36 | 106 | 320378 | 10.94 | PPBV | 99 |
| 18) METHYLENE CHLORIDE | 6.52 | 84 | 301838 | 9.92 | PPBV | 99 |
| 19) 3-CHLOROPROPENE | 6.63 | 39 | 273020 | 10.74 | PPBV | 98 |
| 20) FREON 113 | 6.76 | 151 | 667835 | 9.23 | PPBV | 99 |
| 21) TRANS-1,2-DICHLOROETHYLENE | 7.43 | 96 | 313361 | 10.47 | PPBV | 99 |
| 22) TERTIARY BUTYL ALCOHOL | 6.57 | 59 | 462173 | 11.77 | PPBV | 93 |
| 23) METHYL TERTIARY BUTYL ETHE | 7.71 | 73 | 685448 | 11.76 | PPBV | 99 |
| 24) TETRAHYDROFURAN | 9.16 | 42 | 218377 | 11.59 | PPBV | 98 |
| 25) HEXANE | 8.61 | 57 | 365581 | 9.63 | PPBV | 97 |
| 26) VINYL ACETATE | 7.78 | 43 | 440550 | 11.01 | PPBV | 97 |
| 27) 1,1-DICHLOROETHANE | 7.63 | 63 | 545669 | 10.33 | PPBV | 100 |
| 28) METHYL ETHYL KETONE | 8.07 | 43 | 425680 | 10.63 | PPBV | 94 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.44 | 96 | 301089 | 10.37 | PPBV | 99 |
| 30) ETHYL ACETATE | 8.67 | 43 | 462107 | 10.49 | PPBV | 100 |
| 31) CHLOROFORM | 8.72 | 83 | 772083 | 10.29 | PPBV | 99 |
| 32) 1,1,1-TRICHLOROETHANE | 9.66 | 97 | 843732 | 10.35 | PPBV | 99 |
| 33) CARBON TETRACHLORIDE | 10.24 | 117 | 1036248 | 10.31 | PPBV | 99 |
| 34) 1,2-DICHLOROETHANE | 9.43 | 62 | 456550 | 11.14 | PPBV | 99 |
| 36) BENZENE | 10.11 | 78 | 802906 | 11.34 | PPBV | 100 |
| 37) CYCLOHEXANE | 10.35 | 84 | 361468 | 10.80 | PPBV | 98 |
| 38) TRICHLOROETHYLENE | 11.10 | 95 | 428230 | 11.34 | PPBV | 99 |
| 39) 1,2-DICHLOROPROPANE | 10.89 | 63 | 271622 | 11.36 | PPBV | 99 |
| 40) BROMODICHLOROMETHANE | 11.08 | 83 | 736999 | 10.65 | PPBV | 98 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.10 | 57 | 1295156 | 9.40 | PPBV | 99 |
| 42) 1,4-DIOXANE | 11.17 | 88 | 136276 | 9.35 | PPBV | 92 |
| 43) HEPTANE | 11.34 | 43 | 409530 | 10.88 | PPBV | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : J10868a.D
Acq On : 5 Jul 2007 5:56 pm
Operator : danat
Sample : cc562-10 (M080)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 05 18:24:49 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 17:30:53 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.99 | 43 | 470043 | 10.33 | PPBV | 98 |
| 45) cis-1,3-DICHLOROPROPENE | 11.93 | 75 | 407474 | 10.95 | PPBV | 98 |
| 46) TOLUENE | 12.88 | 92 | 578281 | 11.03 | PPBV | 99 |
| 47) trans-1,3-DICHLOROPROPENE | 12.44 | 75 | 315716 | 9.17 | PPBV | 99 |
| 48) 1,1,2-TRICHLOROETHANE | 12.62 | 83 | 292867 | 11.81 | PPBV | 99 |
| 50) 2-HEXANONE | 13.17 | 43 | 357292 | 10.27 | PPBV | 98 |
| 51) TETRACHLOROETHYLENE | 14.01 | 164 | 490819 | 11.51 | PPBV | 99 |
| 52) DIBROMOCHLOROMETHANE | 13.33 | 129 | 721652 | 11.17 | PPBV | 100 |
| 53) 1,2-DIBROMOETHANE | 13.57 | 107 | 497929 | 11.22 | PPBV | 100 |
| 54) CHLOROBENZENE | 14.72 | 112 | 799062 | 10.99 | PPBV | 99 |
| 55) ETHYLBENZENE | 15.09 | 91 | 1274341 | 11.17 | PPBV | 100 |
| 56) m,p-XYLENE | 15.28 | 106 | 1066459 | 22.74 | PPBV | 91 |
| 57) o-XYLENE | 15.79 | 106 | 537195 | 11.55 | PPBV | 100 |
| 58) STYRENE | 15.68 | 104 | 641503 | 10.45 | PPBV | 99 |
| 59) NONANE | 15.97 | 43 | 589203 | 11.86 | PPBV | 99 |
| 60) BROMOFORM | 15.41 | 173 | 710773 | 11.64 | PPBV | 99 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.80 | 83 | 717790 | 11.56 | PPBV | 100 |
| 63) ISOPROPYLBENZENE | 16.43 | 105 | 1535173 | 11.66 | PPBV | 99 |
| 64) 2-CHLOROTOLUENE | 16.98 | 91 | 1065316 | 11.72 | PPBV | 99 |
| 65) 4-ETHYLTOLUENE | 17.17 | 105 | 1222135 | 10.70 | PPBV | 99 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.26 | 105 | 1242727 | 11.61 | PPBV | 100 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.72 | 105 | 1125219 | 11.80 | PPBV | 99 |
| 68) m-DICHLOROBENZENE | 17.91 | 146 | 760499 | 11.23 | PPBV | 99 |
| 69) BENZYL CHLORIDE | 17.89 | 91 | 525729 | 9.80 | PPBV | 100 |
| 70) p-DICHLOROBENZENE | 17.98 | 146 | 679517 | 10.63 | PPBV | 99 |
| 71) o-DICHLOROBENZENE | 18.37 | 146 | 702934 | 12.32 | PPBV | 100 |
| 72) HEXACHLOROBUTADIENE | 20.76 | 225 | 565416 | 15.84 | PPBV | 99 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.27 | 180 | 241387 | 11.45 | PPBV | 99 |

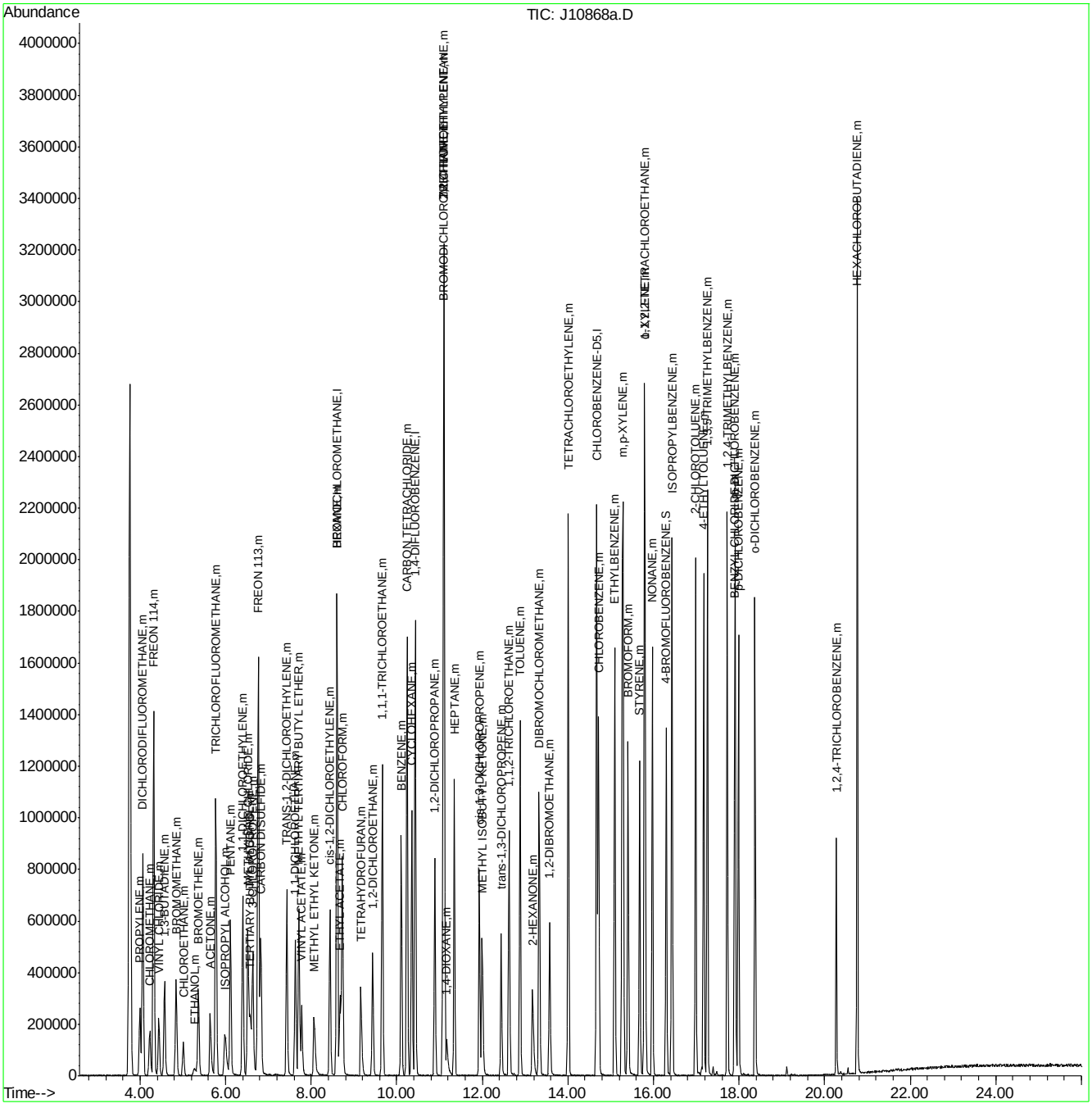
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : J10868a.D
Acq On : 5 Jul 2007 5:56 pm
Operator : danat
Sample : cc562-10 (M080)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 05 18:24:49 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 17:30:53 2007
Response via : Initial Calibration





Manual Integrations APPROVED (compounds with "m" flag)
Doug Yargeau
07/11/07 09:41

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10868.D
Acq On : 5 Jul 2007 5:56 pm
Operator : danat
Sample : icv562-10 (M080)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 05 18:24:49 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 17:30:53 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.60 | 128 | 347038 | 10.00 | PPBV | -0.01 |
| 35) 1,4-DIFLUOROBENZENE | 10.43 | 114 | 1501760 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.67 | 117 | 1335133 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 61) 4-BROMOFLUOROBENZENE | 16.30 | 95 | 446244 | 5.44 | PPBV | 0.00 |
| Spiked Amount 5.000 | Range 51 - 142 | | Recovery = 108.80% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) DICHLORODIFLUOROMETHANE | 4.06 | 85 | 1061110 | 9.42 | PPBV | 100 |
| 3) PROPYLENE | 3.99 | 41 | 183358 | 10.60 | PPBV | 96 |
| 4) FREON 114 | 4.32 | 85 | 975926 | 9.85 | PPBV | 99 |
| 5) CHLOROMETHANE | 4.23 | 50 | 255655 | 9.93 | PPBV | 94 |
| 6) VINYL CHLORIDE | 4.44 | 62 | 301471 | 10.50 | PPBV | 99 |
| 7) 1,3-BUTADIENE | 4.57 | 39 | 232443 | 11.26 | PPBV | 98 |
| 8) BROMOMETHANE | 4.84 | 94 | 332070 | 10.01 | PPBV | 99 |
| 9) CHLOROETHANE | 5.01 | 64 | 140388 | 10.56 | PPBV | 99 |
| 10) TRICHLOROFLUOROMETHANE | 5.77 | 101 | 1134544 | 9.90 | PPBV | 100 |
| 11) ISOPROPYL ALCOHOL | 5.99 | 45 | 376740m | 10.92 | PPBV | |
| 12) ACETONE | 5.64 | 43 | 394061 | 9.71 | PPBV | 99 |
| 13) PENTANE | 6.12 | 42 | 281678 | 10.41 | PPBV | 99 |
| 14) 1,1-DICHLOROETHYLENE | 6.40 | 96 | 307939 | 10.16 | PPBV | 100 |
| 15) CARBON DISULFIDE | 6.82 | 76 | 926519 | 9.44 | PPBV | 99 |
| 16) ETHANOL | 5.26 | 45 | 67215 | 10.80 | PPBV # | 65 |
| 17) BROMOETHENE | 5.36 | 106 | 320378 | 10.94 | PPBV | 99 |
| 18) METHYLENE CHLORIDE | 6.52 | 84 | 301838 | 9.92 | PPBV | 99 |
| 19) 3-CHLOROPROPENE | 6.63 | 39 | 273020 | 10.74 | PPBV | 98 |
| 20) FREON 113 | 6.76 | 151 | 667835 | 9.23 | PPBV | 99 |
| 21) TRANS-1,2-DICHLOROETHYLENE | 7.43 | 96 | 313361 | 10.47 | PPBV | 99 |
| 22) TERTIARY BUTYL ALCOHOL | 6.57 | 59 | 462173 | 11.77 | PPBV | 93 |
| 23) METHYL TERTIARY BUTYL ETHE | 7.71 | 73 | 685448 | 11.76 | PPBV | 99 |
| 24) TETRAHYDROFURAN | 9.16 | 42 | 218377 | 11.59 | PPBV | 98 |
| 25) HEXANE | 8.61 | 57 | 365581 | 9.63 | PPBV | 97 |
| 26) VINYL ACETATE | 7.78 | 43 | 440550 | 11.01 | PPBV | 97 |
| 27) 1,1-DICHLOROETHANE | 7.63 | 63 | 545669 | 10.33 | PPBV | 100 |
| 28) METHYL ETHYL KETONE | 8.07 | 43 | 425680 | 10.63 | PPBV | 94 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.44 | 96 | 301089 | 10.37 | PPBV | 99 |
| 30) ETHYL ACETATE | 8.67 | 43 | 462107 | 10.49 | PPBV | 100 |
| 31) CHLOROFORM | 8.72 | 83 | 772083 | 10.29 | PPBV | 99 |
| 32) 1,1,1-TRICHLOROETHANE | 9.66 | 97 | 843732 | 10.35 | PPBV | 99 |
| 33) CARBON TETRACHLORIDE | 10.24 | 117 | 1036248 | 10.31 | PPBV | 99 |
| 34) 1,2-DICHLOROETHANE | 9.43 | 62 | 456550 | 11.14 | PPBV | 99 |
| 36) BENZENE | 10.11 | 78 | 802906 | 11.34 | PPBV | 100 |
| 37) CYCLOHEXANE | 10.35 | 84 | 361468 | 10.80 | PPBV | 98 |
| 38) TRICHLOROETHYLENE | 11.10 | 95 | 428230 | 11.34 | PPBV | 99 |
| 39) 1,2-DICHLOROPROPANE | 10.89 | 63 | 271622 | 11.36 | PPBV | 99 |
| 40) BROMODICHLOROMETHANE | 11.08 | 83 | 736999 | 10.65 | PPBV | 98 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.10 | 57 | 1295156 | 9.40 | PPBV | 99 |
| 42) 1,4-DIOXANE | 11.17 | 88 | 136276 | 9.35 | PPBV | 92 |
| 43) HEPTANE | 11.34 | 43 | 409530 | 10.88 | PPBV | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10868.D
Acq On : 5 Jul 2007 5:56 pm
Operator : danat
Sample : icv562-10 (M080)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 05 18:24:49 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 17:30:53 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.99 | 43 | 470043 | 10.33 | PPBV | 98 |
| 45) cis-1,3-DICHLOROPROPENE | 11.93 | 75 | 407474 | 10.95 | PPBV | 98 |
| 46) TOLUENE | 12.88 | 92 | 578281 | 11.03 | PPBV | 99 |
| 47) trans-1,3-DICHLOROPROPENE | 12.44 | 75 | 315716 | 9.17 | PPBV | 99 |
| 48) 1,1,2-TRICHLOROETHANE | 12.62 | 83 | 292867 | 11.81 | PPBV | 99 |
| 50) 2-HEXANONE | 13.17 | 43 | 357292 | 10.27 | PPBV | 98 |
| 51) TETRACHLOROETHYLENE | 14.01 | 164 | 490819 | 11.51 | PPBV | 99 |
| 52) DIBROMOCHLOROMETHANE | 13.33 | 129 | 721652 | 11.17 | PPBV | 100 |
| 53) 1,2-DIBROMOETHANE | 13.57 | 107 | 497929 | 11.22 | PPBV | 100 |
| 54) CHLOROBENZENE | 14.72 | 112 | 799062 | 10.99 | PPBV | 99 |
| 55) ETHYLBENZENE | 15.09 | 91 | 1274341 | 11.17 | PPBV | 100 |
| 56) m,p-XYLENE | 15.28 | 106 | 1066459 | 22.74 | PPBV | 91 |
| 57) o-XYLENE | 15.79 | 106 | 537195 | 11.55 | PPBV | 100 |
| 58) STYRENE | 15.68 | 104 | 641503 | 10.45 | PPBV | 99 |
| 59) NONANE | 15.97 | 43 | 589203 | 11.86 | PPBV | 99 |
| 60) BROMOFORM | 15.41 | 173 | 710773 | 11.64 | PPBV | 99 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.80 | 83 | 717790 | 11.56 | PPBV | 100 |
| 63) ISOPROPYLBENZENE | 16.43 | 105 | 1535173 | 11.66 | PPBV | 99 |
| 64) 2-CHLOROTOLUENE | 16.98 | 91 | 1065316 | 11.72 | PPBV | 99 |
| 65) 4-ETHYLTOLUENE | 17.17 | 105 | 1222135 | 10.70 | PPBV | 99 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.26 | 105 | 1242727 | 11.61 | PPBV | 100 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.72 | 105 | 1125219 | 11.80 | PPBV | 99 |
| 68) m-DICHLOROBENZENE | 17.91 | 146 | 760499 | 11.23 | PPBV | 99 |
| 69) BENZYL CHLORIDE | 17.89 | 91 | 525729 | 9.80 | PPBV | 100 |
| 70) p-DICHLOROBENZENE | 17.98 | 146 | 679517 | 10.63 | PPBV | 99 |
| 71) o-DICHLOROBENZENE | 18.37 | 146 | 702934 | 12.32 | PPBV | 100 |
| 72) HEXACHLOROBUTADIENE | 20.76 | 225 | 565416 | 15.84 | PPBV | 99 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.27 | 180 | 241387 | 11.45 | PPBV | 99 |

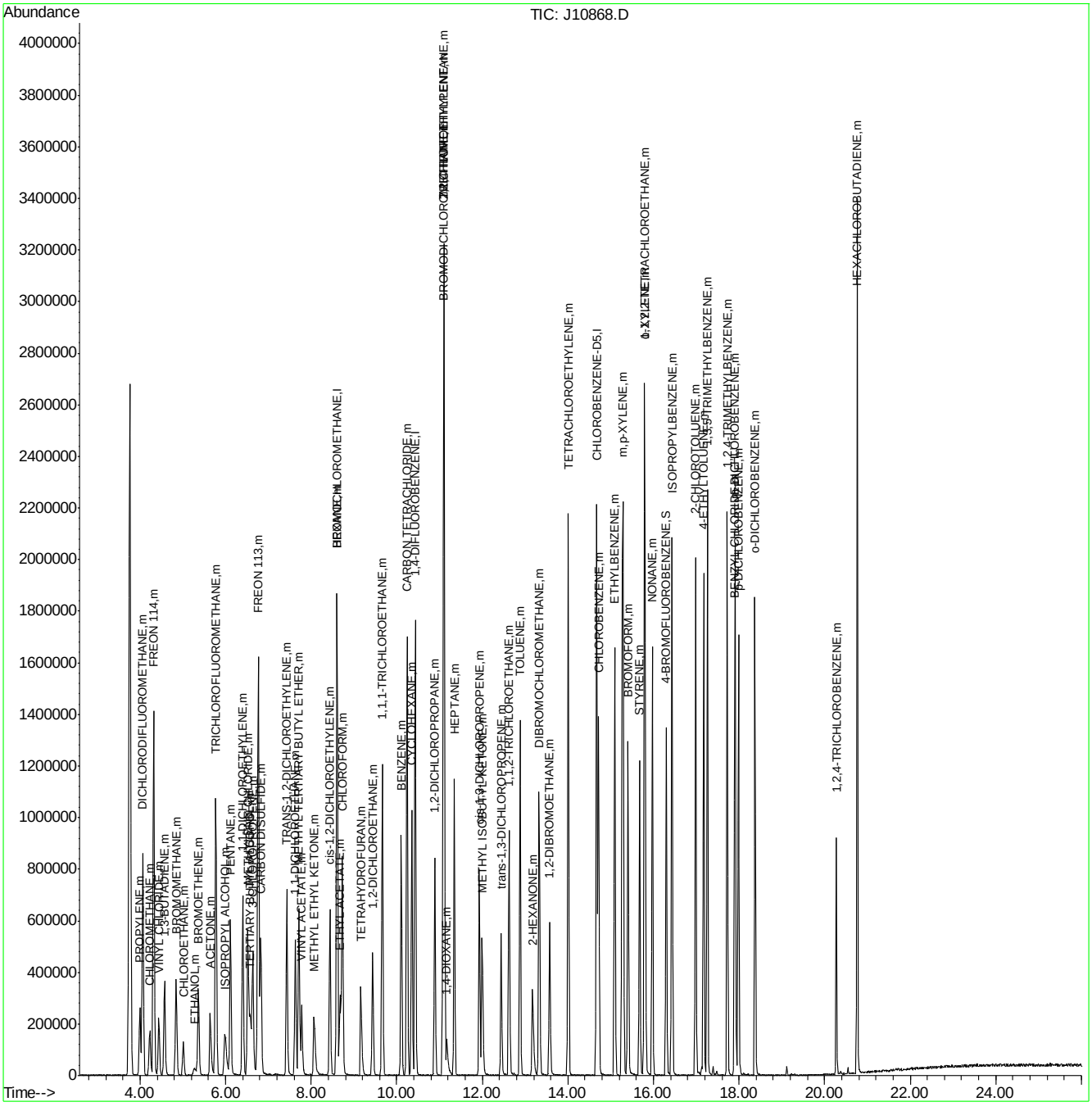
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\
Data File : J10868.D
Acq On : 5 Jul 2007 5:56 pm
Operator : danat
Sample : icv562-10 (M080)
Misc : MS13866, MSJ562,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 05 18:24:49 2007
Quant Method : C:\MSDCHEM\1\METHODS\J070507T.M
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Thu Jul 05 17:30:53 2007
Response via : Initial Calibration





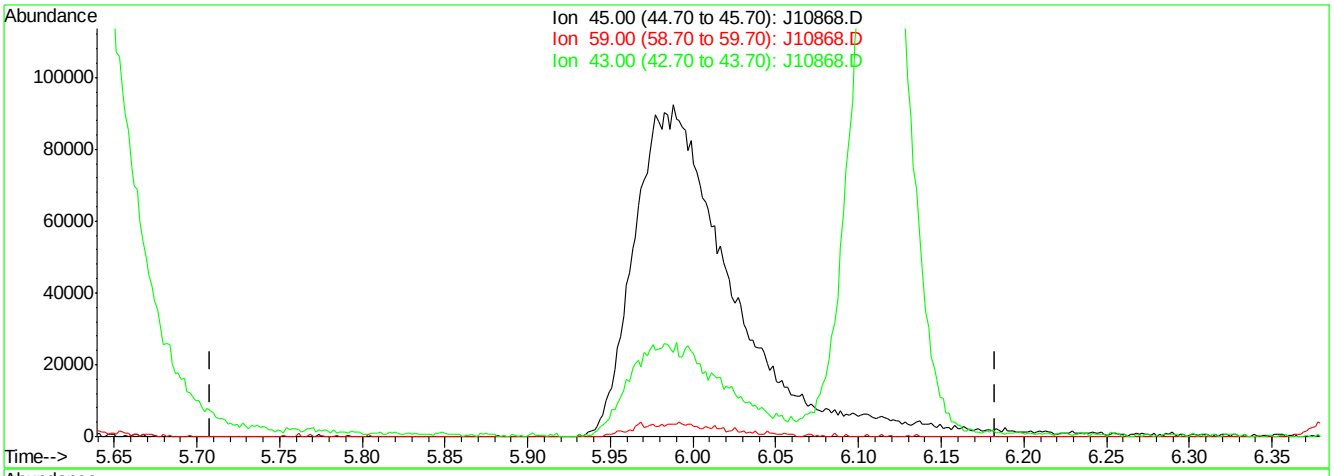
Quantitation Report (Qedit)

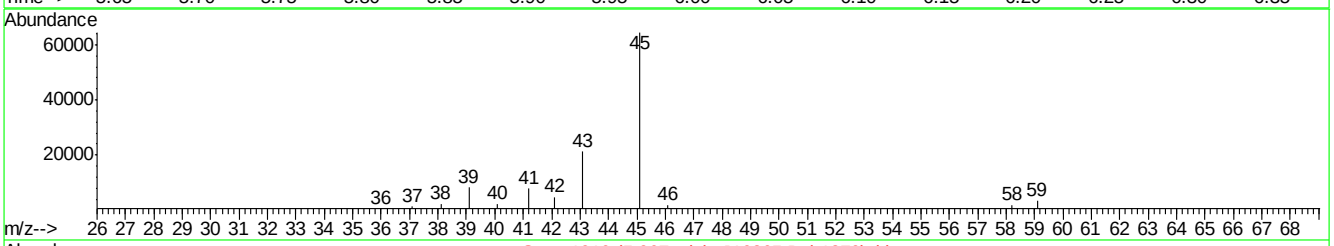
Data File : C:\MSDChem\1\data\J10868.D Vial: 3
Acq On : 5 Jul 2007 5:56 pm Operator: danat
Sample : icv562-10 (M080) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

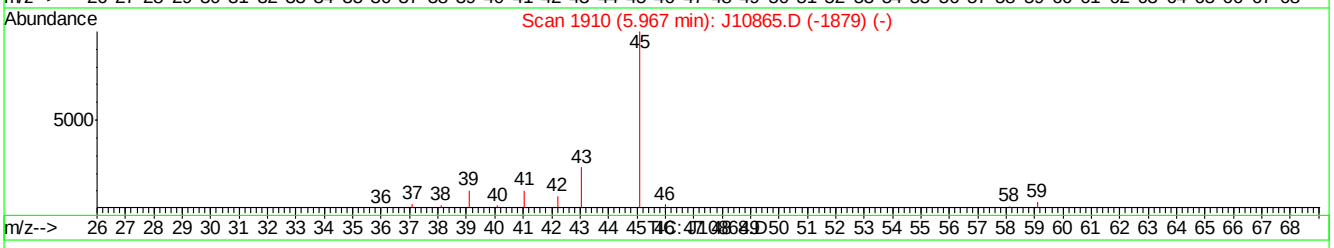
Quant Time: Jul 05 18:23:26 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 17:30:53 2007
Response via : Multiple Level Calibration






(11) ISOPROPYL ALCOHOL (m)

5.97min 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 0.00 |
| 59.00 | 3.60 | 0.00 |
| 43.00 | 24.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |

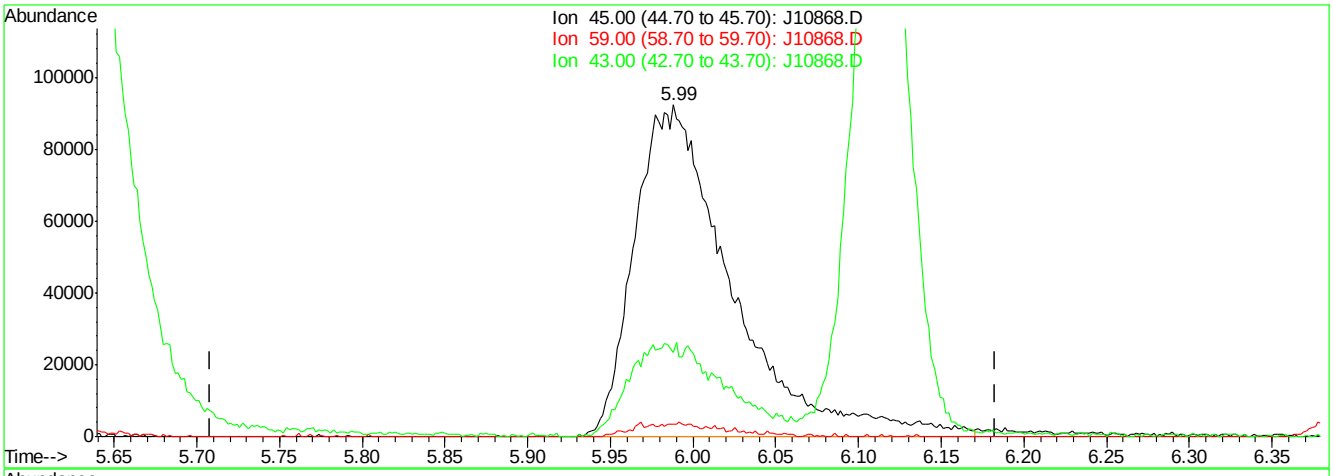
J10868.D J070507T.M Thu Jul 05 18:23:58 2007

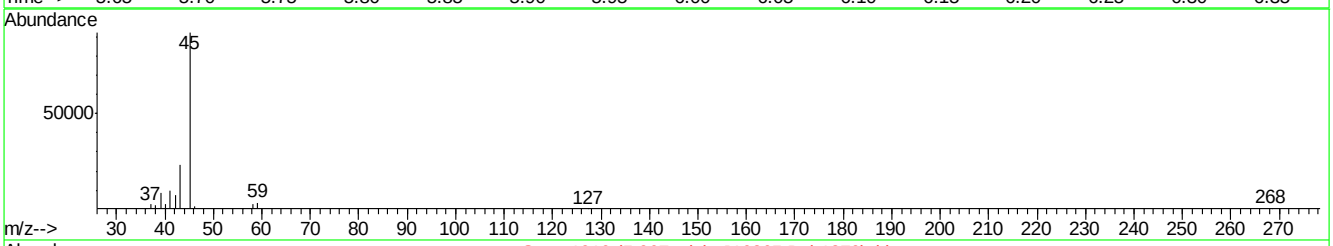
Quantitation Report (Qedit)

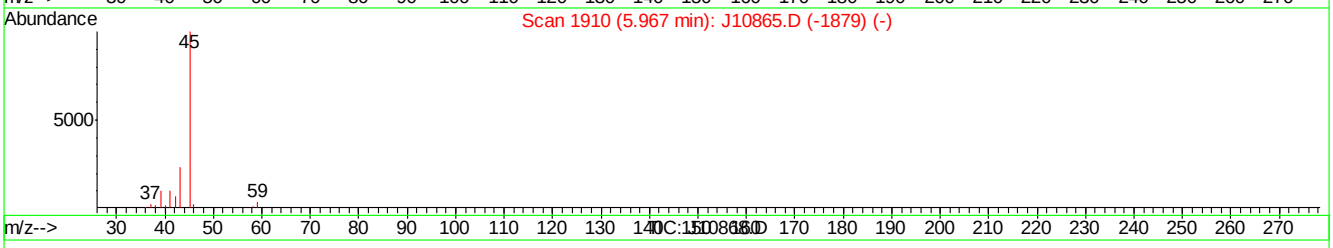
Data File : C:\MSDChem\1\data\J10868.D Vial: 3
Acq On : 5 Jul 2007 5:56 pm Operator: danat
Sample : icv562-10 (M080) Inst : MSJ
Misc : MS13866, MSJ562,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jul 05 18:23:26 2007 Results File: J070507T.RES

Method : C:\MSDCHEM\1\METHODS\J070507T.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Thu Jul 05 17:30:53 2007
Response via : Multiple Level Calibration




(11) ISOPROPYL ALCOHOL (m)

5.99min 10.92PPBV m

response 376740

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 59.00 | 3.60 | 3.62 |
| 43.00 | 24.20 | 25.44 |
| 0.00 | 0.00 | 0.00 |

J10868.D J070507T.M Thu Jul 05 18:24:05 2007

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3977.D
Acq On : 16 Jul 2007 4:53 pm
Operator : danat
Sample : ic214-40 (M211)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 08:12:50 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Mon Jul 16 15:07:12 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.633 | 128 | 209689 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.465 | 114 | 900241 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.707 | 117 | 823235 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 61) 4-BROMOFLUOROBENZENE | 16.327 | 95 | 331912 | 5.22 | PPBV | 0.00 |
| Spiked Amount 5.000 | Range 57 - 139 | | Recovery = 104.40% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) DICHLORODIFLUOROMETHANE | 4.035 | 85 | 2764917 | 25.14 | PPBV | 99 |
| 3) PROPYLENE | 3.967 | 41 | 463358 | 18.48 | PPBV | 93 |
| 4) FREON 114 | 4.299 | 85 | 2605725 | 26.43 | PPBV | 99 |
| 5) CHLOROMETHANE | 4.200 | 50 | 588876 | 23.88 | PPBV | 100 |
| 6) VINYL CHLORIDE | 4.424 | 62 | 709338 | 24.05 | PPBV | 98 |
| 7) 1,3-BUTADIENE | 4.559 | 39 | 593214 | 25.73 | PPBV | 97 |
| 8) BROMOMETHANE | 4.835 | 94 | 814543 | 25.07 | PPBV | 98 |
| 9) CHLOROETHANE | 5.009 | 64 | 321452 | 29.01 | PPBV | 95 |
| 10) TRICHLOROFLUOROMETHANE | 5.788 | 101 | 2819081 | 28.06 | PPBV | 99 |
| 11) ISOPROPYL ALCOHOL | 5.826 | 45 | 1072785 | 21.76 | PPBV | 95 |
| 12) ACETONE | 5.593 | 43 | 1144521 | 20.32 | PPBV | 95 |
| 13) PENTANE | 6.143 | 42 | 640928 | 24.30 | PPBV | 94 |
| 14) 1,1-DICHLOROETHYLENE | 6.429 | 96 | 827113 | 26.29 | PPBV | 97 |
| 15) CARBON DISULFIDE | 6.859 | 76 | 2162566 | 31.24 | PPBV | 97 |
| 16) ETHANOL | 5.100 | 45 | 187769 | 20.19 | PPBV | 99 |
| 17) BROMOETHENE | 5.368 | 106 | 829145 | 26.30 | PPBV | 99 |
| 18) METHYLENE CHLORIDE | 6.539 | 84 | 1001868 | 21.51 | PPBV | 96 |
| 19) 3-CHLOROPROPENE | 6.662 | 39 | 701260 | 34.18 | PPBV | 87 |
| 20) FREON 113 | 6.798 | 151 | 1899447 | 28.28 | PPBV | 96 |
| 21) TRANS-1,2-DICHLOROETHY... | 7.469 | 96 | 814099 | 29.58 | PPBV | 99 |
| 22) TERTIARY BUTYL ALCOHOL | 6.431 | 59 | 1412204 | 31.25 | PPBV | 98 |
| 23) METHYL TERTIARY BUTYL ... | 7.710 | 73 | 1913473 | 29.93 | PPBV | 96 |
| 24) TETRAHYDROFURAN | 9.137 | 42 | 605146 | 25.37 | PPBV | 95 |
| 25) HEXANE | 8.671 | 57 | 1125130 | 23.22 | PPBV | 96 |
| 26) VINYL ACETATE | 7.789 | 43 | 1400317 | 30.03 | PPBV | 97 |
| 27) 1,1-DICHLOROETHANE | 7.666 | 63 | 1444949 | 30.46 | PPBV | 99 |
| 28) METHYL ETHYL KETONE | 8.032 | 43 | 1210279 | 24.61 | PPBV | 96 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.474 | 96 | 800359 | 29.14 | PPBV | 96 |
| 30) ETHYL ACETATE | 8.664 | 43 | 2163136 | 25.03 | PPBV | 100 |
| 31) CHLOROFORM | 8.758 | 83 | 1982961 | 29.06 | PPBV | 99 |
| 32) 1,1,1-TRICHLOROETHANE | 9.709 | 97 | 2103880 | 31.51 | PPBV | 99 |
| 33) CARBON TETRACHLORIDE | 10.291 | 117 | 2359836 | 31.33 | PPBV | 99 |
| 34) 1,2-DICHLOROETHANE | 9.464 | 62 | 1225815 | 29.17 | PPBV | 100 |
| 36) BENZENE | 10.153 | 78 | 2174884 | 29.80 | PPBV | 99 |
| 37) CYCLOHEXANE | 10.413 | 84 | 848595 | 26.56 | PPBV | 95 |
| 38) TRICHLOROETHYLENE | 11.148 | 95 | 1206086 | 31.39 | PPBV | 97 |
| 39) 1,2-DICHLOROPROPANE | 10.926 | 63 | 730815 | 27.91 | PPBV | 94 |
| 40) BROMODICHLOROMETHANE | 11.111 | 83 | 2014509 | 35.19 | PPBV | 99 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.173 | 57 | 3305846 | 28.77 | PPBV # | 95 |
| 42) 1,4-DIOXANE | 11.134 | 88 | 414757 | 28.40 | PPBV | 90 |
| 43) HEPTANE | 11.409 | 43 | 1202132 | 27.07 | PPBV | 99 |



ACCUTEST Laboratories M66578

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3977.D
Acq On : 16 Jul 2007 4:53 pm
Operator : danat
Sample : ic214-40 (M211)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 08:12:50 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Mon Jul 16 15:07:12 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.981 | 43 | 1520935 | 27.65 PPBV | 99 |
| 45) cis-1,3-DICHLOROPROPENE | 11.965 | 75 | 1207500 | 33.05 PPBV | 94 |
| 46) TOLUENE | 12.927 | 92 | 1581036 | 31.89 PPBV | 99 |
| 47) trans-1,3-DICHLOROPROPENE | 12.465 | 75 | 1165405 | 34.87 PPBV | 95 |
| 48) 1,1,2-TRICHLOROETHANE | 12.648 | 83 | 800561 | 30.07 PPBV | 96 |
| 50) 2-HEXANONE | 13.150 | 43 | 1382686 | 26.36 PPBV | 99 |
| 51) TETRACHLOROETHYLENE | 14.059 | 164 | 1421801 | 35.41 PPBV | 93 |
| 52) DIBROMOCHLOROMETHANE | 13.354 | 129 | 2135418 | 39.37 PPBV | 100 |
| 53) 1,2-DIBROMOETHANE | 13.603 | 107 | 1571117 | 31.44 PPBV | 100 |
| 54) CHLOROBENZENE | 14.755 | 112 | 2221182 | 31.53 PPBV | 99 |
| 55) ETHYLBENZENE | 15.133 | 91 | 3644300 | 31.86 PPBV | 100 |
| 56) m,p-XYLENE | 15.328 | 106 | 2775968 | 64.26 PPBV | 100 |
| 57) o-XYLENE | 15.830 | 106 | 1407471 | 32.62 PPBV | 99 |
| 58) STYRENE | 15.708 | 104 | 2147858 | 35.36 PPBV | 98 |
| 59) NONANE | 16.027 | 43 | 1834075 | 28.58 PPBV | 99 |
| 60) BROMOFORM | 15.429 | 173 | 2258113 | 47.37 PPBV | 98 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.814 | 83 | 2099510 | 29.14 PPBV | 99 |
| 63) ISOPROPYLBENZENE | 16.473 | 105 | 4258033 | 33.31 PPBV | 99 |
| 64) 2-CHLOROTOLUENE | 17.023 | 91 | 3126389 | 32.55 PPBV | 98 |
| 65) 4-ETHYLTOLUENE | 17.211 | 105 | 4074248 | 35.37 PPBV | 100 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.296 | 105 | 3745031 | 33.78 PPBV | 99 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.761 | 105 | 3604402 | 34.94 PPBV | 100 |
| 68) m-DICHLOROBENZENE | 17.944 | 146 | 2539128 | 37.83 PPBV | 97 |
| 69) BENZYL CHLORIDE | 17.921 | 91 | 2414286 | 43.50 PPBV | 98 |
| 70) p-DICHLOROBENZENE | 18.018 | 146 | 2494039 | 36.55 PPBV | 98 |
| 71) o-DICHLOROBENZENE | 18.404 | 146 | 2309553 | 35.22 PPBV | 98 |
| 72) HEXACHLOROBUTADIENE | 20.798 | 225 | 1230652 | 27.16 PPBV | 99 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.306 | 180 | 925743 | 33.17 PPBV | 98 |

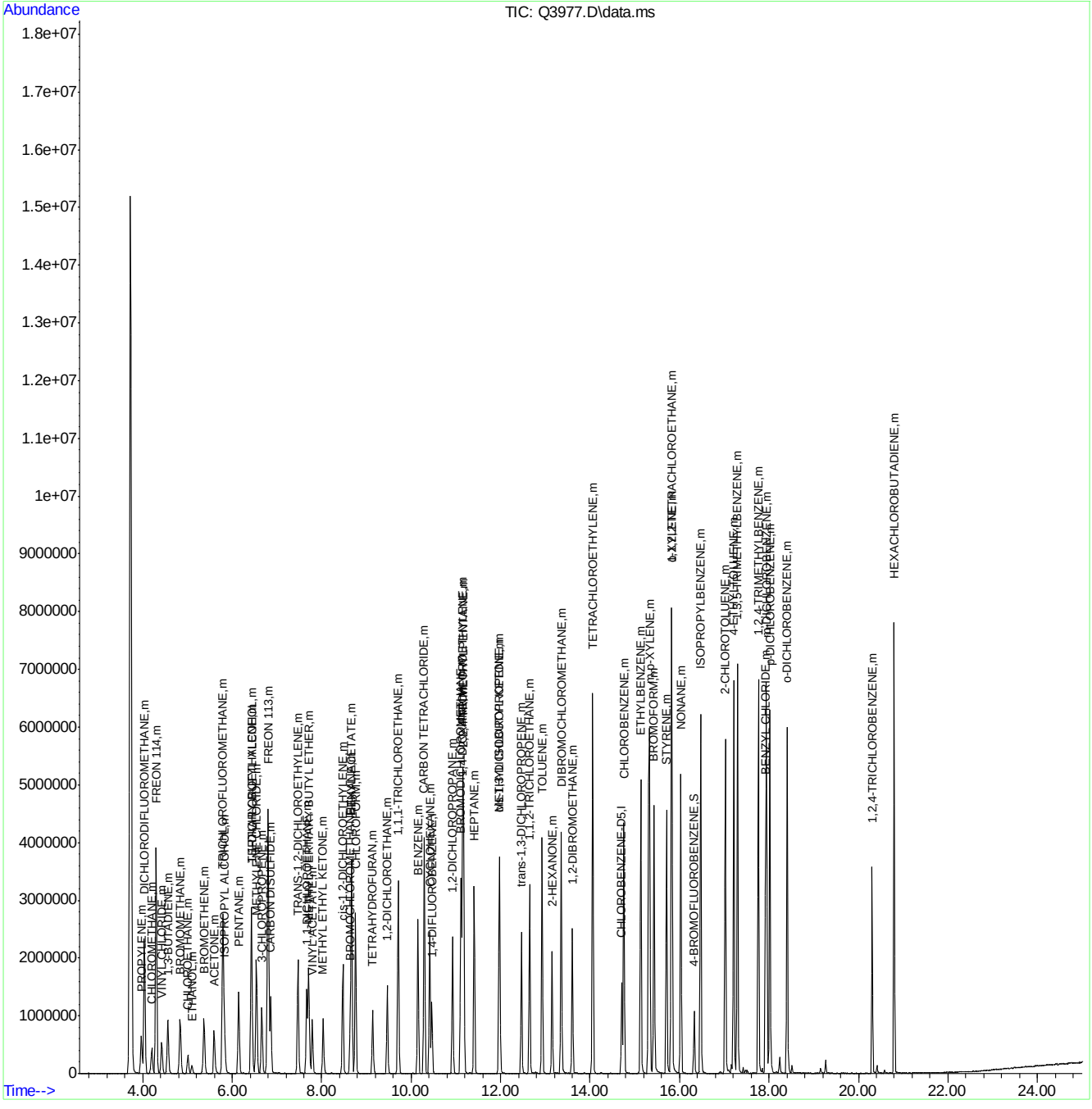
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3977.D
Acq On : 16 Jul 2007 4:53 pm
Operator : danat
Sample : ic214-40 (M211)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 08:12:50 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Mon Jul 16 15:07:12 2007
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3978.D
Acq On : 16 Jul 2007 5:36 pm
Operator : danat
Sample : ic214-20 (M211)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 08:14:20 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:13:05 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.633 | 128 | 221510 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.463 | 114 | 1017396 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.705 | 117 | 906135 | 10.00 | PPBV | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.325 | 95 | 350551 | 4.95 | PPBV | 0.00 |

Spiked Amount 5.000 Range 57 - 139 Recovery = 99.00%

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 2) DICHLORODIFLUOROMETHANE | 4.035 | 85 | 1415090 | 19.96 | PPBV | 99 |
| 3) PROPYLENE | 3.966 | 41 | 259744 | 21.15 | PPBV | 91 |
| 4) FREON 114 | 4.296 | 85 | 1351542 | 20.12 | PPBV | 99 |
| 5) CHLOROMETHANE | 4.196 | 50 | 315570 | 20.39 | PPBV | 98 |
| 6) VINYL CHLORIDE | 4.420 | 62 | 382075 | 20.60 | PPBV | 98 |
| 7) 1,3-BUTADIENE | 4.557 | 39 | 305711 | 20.06 | PPBV | 98 |
| 8) BROMOMETHANE | 4.834 | 94 | 435076 | 20.45 | PPBV | 100 |
| 9) CHLOROETHANE | 5.007 | 64 | 168444 | 20.48 | PPBV | 99 |
| 10) TRICHLOROFLUOROMETHANE | 5.787 | 101 | 1396921 | 19.71 | PPBV | 100 |
| 11) ISOPROPYL ALCOHOL | 5.820 | 45 | 556039 | 20.39 | PPBV | 96 |
| 12) ACETONE | 5.591 | 43 | 581901 | 20.24 | PPBV | 98 |
| 13) PENTANE | 6.142 | 42 | 325328 | 20.22 | PPBV | 99 |
| 14) 1,1-DICHLOROETHYLENE | 6.424 | 96 | 417221 | 20.01 | PPBV | 99 |
| 15) CARBON DISULFIDE | 6.857 | 76 | 1078342 | 20.07 | PPBV | 100 |
| 16) ETHANOL | 5.100 | 45 | 103227 | 21.35 | PPBV | 96 |
| 17) BROMOETHENE | 5.370 | 106 | 434977 | 20.48 | PPBV | 99 |
| 18) METHYLENE CHLORIDE | 6.541 | 84 | 497973 | 19.95 | PPBV | 99 |
| 19) 3-CHLOROPROPENE | 6.658 | 39 | 319110 | 19.38 | PPBV | 99 |
| 20) FREON 113 | 6.798 | 151 | 955564 | 19.95 | PPBV | 100 |
| 21) TRANS-1,2-DICHLOROETHY... | 7.466 | 96 | 404542 | 19.93 | PPBV | 100 |
| 22) TERTIARY BUTYL ALCOHOL | 6.426 | 59 | 714259 | 20.03 | PPBV | 99 |
| 23) METHYL TERTIARY BUTYL ... | 7.707 | 73 | 934883 | 19.80 | PPBV | 99 |
| 24) TETRAHYDROFURAN | 9.139 | 42 | 308804 | 20.59 | PPBV | 99 |
| 25) HEXANE | 8.667 | 57 | 577385 | 20.12 | PPBV | 100 |
| 26) VINYL ACETATE | 7.789 | 43 | 701213 | 20.77 | PPBV | 97 |
| 27) 1,1-DICHLOROETHANE | 7.661 | 63 | 677854 | 19.66 | PPBV | 100 |
| 28) METHYL ETHYL KETONE | 8.032 | 43 | 613944 | 20.31 | PPBV | 99 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.472 | 96 | 387992 | 20.26 | PPBV | 99 |
| 30) ETHYL ACETATE | 8.665 | 43 | 1101453 | 20.37 | PPBV | 100 |
| 31) CHLOROFORM | 8.754 | 83 | 946232 | 19.69 | PPBV | 100 |
| 32) 1,1,1-TRICHLOROETHANE | 9.709 | 97 | 973350 | 19.60 | PPBV | 100 |
| 33) CARBON TETRACHLORIDE | 10.293 | 117 | 1138392 | 19.69 | PPBV | 100 |
| 34) 1,2-DICHLOROETHANE | 9.460 | 62 | 571035 | 19.81 | PPBV | 100 |
| 36) BENZENE | 10.147 | 78 | 1029221 | 19.36 | PPBV | 100 |
| 37) CYCLOHEXANE | 10.413 | 84 | 423009 | 19.10 | PPBV | 95 |
| 38) TRICHLOROETHYLENE | 11.145 | 95 | 560188 | 18.86 | PPBV | 99 |
| 39) 1,2-DICHLOROPROPANE | 10.925 | 63 | 347524 | 19.24 | PPBV | 99 |
| 40) BROMODICHLOROMETHANE | 11.106 | 83 | 924349 | 18.94 | PPBV | 97 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.171 | 57 | 1548803 | 18.85 | PPBV | 100 |
| 42) 1,4-DIOXANE | 11.129 | 88 | 205821 | 19.76 | PPBV # | 87 |
| 43) HEPTANE | 11.407 | 43 | 573305 | 19.08 | PPBV | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3978.D
Acq On : 16 Jul 2007 5:36 pm
Operator : danat
Sample : ic214-20 (M211)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 08:14:20 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:13:05 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.979 | 43 | 750728 | 19.65 PPBV | 100 |
| 45) cis-1,3-DICHLOROPROPENE | 11.963 | 75 | 549645 | 18.94 PPBV | 99 |
| 46) TOLUENE | 12.925 | 92 | 738920 | 19.10 PPBV | 99 |
| 47) trans-1,3-DICHLOROPROPENE | 12.462 | 75 | 533590 | 19.23 PPBV | 99 |
| 48) 1,1,2-TRICHLOROETHANE | 12.644 | 83 | 374786 | 18.95 PPBV | 100 |
| 50) 2-HEXANONE | 13.145 | 43 | 654654 | 19.69 PPBV | 100 |
| 51) TETRACHLOROETHYLENE | 14.057 | 164 | 648314 | 18.98 PPBV | 99 |
| 52) DIBROMOCHLOROMETHANE | 13.352 | 129 | 955089 | 19.03 PPBV | 99 |
| 53) 1,2-DIBROMOETHANE | 13.601 | 107 | 726832 | 19.49 PPBV | 97 |
| 54) CHLOROBENZENE | 14.751 | 112 | 1029097 | 19.20 PPBV | 100 |
| 55) ETHYLBENZENE | 15.131 | 91 | 1694424 | 19.17 PPBV | 100 |
| 56) m,p-XYLENE | 15.324 | 106 | 1308622 | 38.89 PPBV | 97 |
| 57) o-XYLENE | 15.825 | 106 | 658491 | 19.30 PPBV | 99 |
| 58) STYRENE | 15.708 | 104 | 1003139 | 19.53 PPBV | 99 |
| 59) NONANE | 16.025 | 43 | 847096 | 19.14 PPBV | 100 |
| 60) BROMOFORM | 15.425 | 173 | 991927 | 19.09 PPBV | 100 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.812 | 83 | 984430 | 19.36 PPBV | 99 |
| 63) ISOPROPYLBENZENE | 16.469 | 105 | 1996951 | 19.26 PPBV | 99 |
| 64) 2-CHLOROTOLUENE | 17.019 | 91 | 1449660 | 19.19 PPBV | 99 |
| 65) 4-ETHYLTOLUENE | 17.209 | 105 | 1869312 | 18.98 PPBV | 99 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.294 | 105 | 1746289 | 19.09 PPBV | 99 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.759 | 105 | 1667884 | 19.22 PPBV | 100 |
| 68) m-DICHLOROBENZENE | 17.942 | 146 | 1128474 | 18.97 PPBV | 99 |
| 69) BENZYL CHLORIDE | 17.919 | 91 | 1033483 | 19.20 PPBV | 99 |
| 70) p-DICHLOROBENZENE | 18.015 | 146 | 1109710 | 18.83 PPBV | 99 |
| 71) o-DICHLOROBENZENE | 18.403 | 146 | 1035278 | 18.95 PPBV | 100 |
| 72) HEXACHLOROBUTADIENE | 20.796 | 225 | 479831 | 16.04 PPBV | 99 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.308 | 180 | 369063 | 17.20 PPBV | 98 |

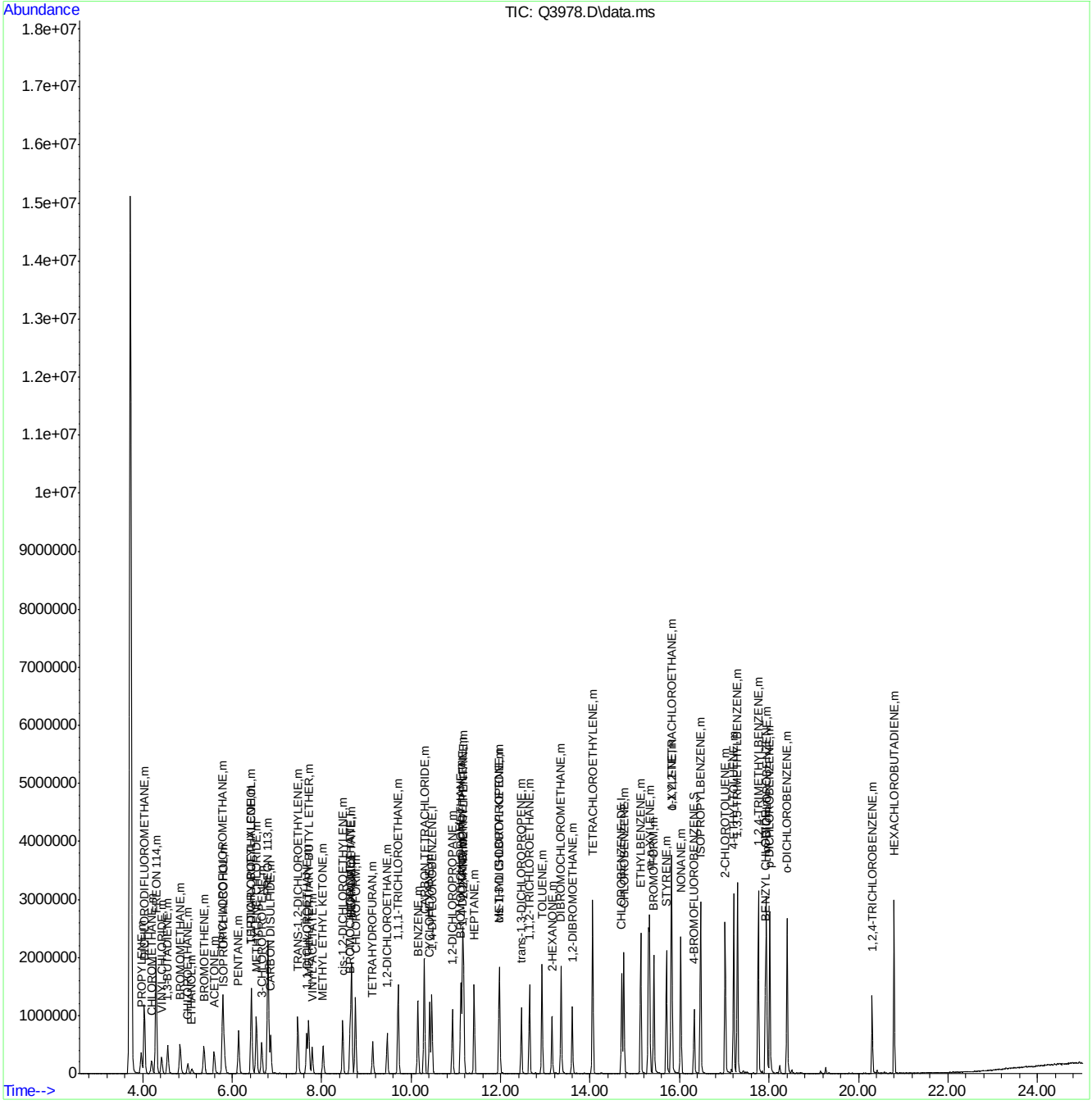
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3978.D
Acq On : 16 Jul 2007 5:36 pm
Operator : danat
Sample : ic214-20 (M211)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 08:14:20 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:13:05 2007
Response via : Initial Calibration










ACCUTEST Laboratories M66578

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3979.D
Acq On : 16 Jul 2007 6:18 pm
Operator : danat
Sample : icc214-10 (M211)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 08:10:22 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Mon Jul 16 15:07:12 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.633 | 128 | 220494 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.460 | 114 | 1001449 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.707 | 117 | 880366 | 10.00 | PPBV | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.323 | 95 | 333768 | 4.91 | PPBV | 0.00 |

Spiked Amount 5.000 Range 57 - 139 Recovery = 98.20%

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 2) DICHLORODIFLUOROMETHANE | 4.035 | 85 | 684837 | 5.92 | PPBV | 99 |
| 3) PROPYLENE | 3.969 | 41 | 122643 | 4.65 | PPBV | 95 |
| 4) FREON 114 | 4.294 | 85 | 652207 | 6.29 | PPBV | 97 |
| 5) CHLOROMETHANE | 4.198 | 50 | 153377 | 5.92 | PPBV | 98 |
| 6) VINYL CHLORIDE | 4.420 | 62 | 182843 | 5.89 | PPBV | 99 |
| 7) 1,3-BUTADIENE | 4.557 | 39 | 147444 | 6.08 | PPBV | 98 |
| 8) BROMOMETHANE | 4.832 | 94 | 209484 | 6.13 | PPBV | 98 |
| 9) CHLOROETHANE | 5.009 | 64 | 79274 | 6.80 | PPBV | 95 |
| 10) TRICHLOROFLUOROMETHANE | 5.792 | 101 | 669866 | 6.34 | PPBV | 99 |
| 11) ISOPROPYL ALCOHOL | 5.824 | 45 | 260910 | 5.03 | PPBV | 91 |
| 12) ACETONE | 5.597 | 43 | 271384 | 4.58 | PPBV | 96 |
| 13) PENTANE | 6.143 | 42 | 151747 | 5.47 | PPBV | 94 |
| 14) 1,1-DICHLOROETHYLENE | 6.424 | 96 | 197716 | 5.98 | PPBV | 100 |
| 15) CARBON DISULFIDE | 6.860 | 76 | 501376 | 6.89 | PPBV | 99 |
| 16) ETHANOL | 5.094 | 45 | 46893 | 4.80 | PPBV | 96 |
| 17) BROMOETHENE | 5.366 | 106 | 204863 | 6.18 | PPBV | 99 |
| 18) METHYLENE CHLORIDE | 6.543 | 84 | 233626 | 4.77 | PPBV | 97 |
| 19) 3-CHLOROPROPENE | 6.660 | 39 | 143435 | 6.65 | PPBV | 90 |
| 20) FREON 113 | 6.798 | 151 | 454376 | 6.43 | PPBV | 96 |
| 21) TRANS-1,2-DICHLOROETHY... | 7.471 | 96 | 190141 | 6.57 | PPBV | 99 |
| 22) TERTIARY BUTYL ALCOHOL | 6.433 | 59 | 338527 | 7.12 | PPBV | 98 |
| 23) METHYL TERTIARY BUTYL ... | 7.709 | 73 | 436907 | 6.50 | PPBV | 96 |
| 24) TETRAHYDROFURAN | 9.141 | 42 | 139518 | 5.56 | PPBV | 96 |
| 25) HEXANE | 8.669 | 57 | 275527 | 5.41 | PPBV | 96 |
| 26) VINYL ACETATE | 7.788 | 43 | 304116 | 6.20 | PPBV | 99 |
| 27) 1,1-DICHLOROETHANE | 7.664 | 63 | 306494 | 6.14 | PPBV | 99 |
| 28) METHYL ETHYL KETONE | 8.033 | 43 | 283771 | 5.49 | PPBV | 93 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.470 | 96 | 170796 | 5.91 | PPBV | 95 |
| 30) ETHYL ACETATE | 8.663 | 43 | 507901 | 5.59 | PPBV | 100 |
| 31) CHLOROFORM | 8.754 | 83 | 435311 | 6.07 | PPBV | 100 |
| 32) 1,1,1-TRICHLOROETHANE | 9.711 | 97 | 435829 | 6.21 | PPBV | 98 |
| 33) CARBON TETRACHLORIDE | 10.294 | 117 | 530865 | 6.70 | PPBV | 99 |
| 34) 1,2-DICHLOROETHANE | 9.464 | 62 | 251517 | 5.69 | PPBV | 100 |
| 36) BENZENE | 10.147 | 78 | 441877 | 5.44 | PPBV | 99 |
| 37) CYCLOHEXANE | 10.412 | 84 | 200023 | 5.63 | PPBV | 93 |
| 38) TRICHLOROETHYLENE | 11.146 | 95 | 249363 | 5.83 | PPBV | 97 |
| 39) 1,2-DICHLOROPROPANE | 10.925 | 63 | 152398 | 5.23 | PPBV | 94 |
| 40) BROMODICHLOROMETHANE | 11.109 | 83 | 400370 | 6.29 | PPBV | 98 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.168 | 57 | 698559 | 5.47 | PPBV # | 95 |
| 42) 1,4-DIOXANE | 11.136 | 88 | 89658 | 5.52 | PPBV | 86 |
| 43) HEPTANE | 11.407 | 43 | 257337 | 5.21 | PPBV | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3979.D
Acq On : 16 Jul 2007 6:18 pm
Operator : danat
Sample : icc214-10 (M211)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 08:10:22 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Mon Jul 16 15:07:12 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.977 | 43 | 329287 | 5.38 PPBV | 98 |
| 45) cis-1,3-DICHLOROPROPENE | 11.965 | 75 | 235451 | 5.79 PPBV | 93 |
| 46) TOLUENE | 12.923 | 92 | 321727 | 5.83 PPBV | 99 |
| 47) trans-1,3-DICHLOROPROPENE | 12.463 | 75 | 222144 | 5.97 PPBV | 95 |
| 48) 1,1,2-TRICHLOROETHANE | 12.641 | 83 | 166704 | 5.63 PPBV | 96 |
| 50) 2-HEXANONE | 13.147 | 43 | 276432 | 4.93 PPBV | 99 |
| 51) TETRACHLOROETHYLENE | 14.055 | 164 | 283522 | 6.60 PPBV | 93 |
| 52) DIBROMOCHLOROMETHANE | 13.349 | 129 | 404442 | 6.97 PPBV | 100 |
| 53) 1,2-DIBROMOETHANE | 13.599 | 107 | 304701 | 5.70 PPBV | 98 |
| 54) CHLOROBENZENE | 14.753 | 112 | 447537 | 5.94 PPBV | 99 |
| 55) ETHYLBENZENE | 15.131 | 91 | 743600 | 6.08 PPBV | 99 |
| 56) m,p-XYLENE | 15.326 | 106 | 565606 | 12.24 PPBV | 99 |
| 57) o-XYLENE | 15.825 | 106 | 286811 | 6.22 PPBV | 99 |
| 58) STYRENE | 15.704 | 104 | 423629 | 6.52 PPBV | 98 |
| 59) NONANE | 16.025 | 43 | 369576 | 5.38 PPBV | 99 |
| 60) BROMOFORM | 15.422 | 173 | 406035 | 7.96 PPBV | 98 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.814 | 83 | 426609 | 5.54 PPBV | 99 |
| 63) ISOPROPYLBENZENE | 16.469 | 105 | 875964 | 6.41 PPBV | 100 |
| 64) 2-CHLOROTOLUENE | 17.019 | 91 | 631878 | 6.15 PPBV | 99 |
| 65) 4-ETHYLTOLUENE | 17.209 | 105 | 824684 | 6.69 PPBV | 100 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.292 | 105 | 775965 | 6.55 PPBV | 100 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.757 | 105 | 722221 | 6.55 PPBV | 99 |
| 68) m-DICHLOROBENZENE | 17.940 | 146 | 476931 | 6.64 PPBV | 98 |
| 69) BENZYL CHLORIDE | 17.919 | 91 | 400424 | 6.75 PPBV | 99 |
| 70) p-DICHLOROBENZENE | 18.013 | 146 | 478607 | 6.56 PPBV | 97 |
| 71) o-DICHLOROBENZENE | 18.402 | 146 | 444325 | 6.34 PPBV | 98 |
| 72) HEXACHLOROBUTADIENE | 20.798 | 225 | 252179 | 5.20 PPBV | 99 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.306 | 180 | 169444 | 5.68 PPBV | 97 |

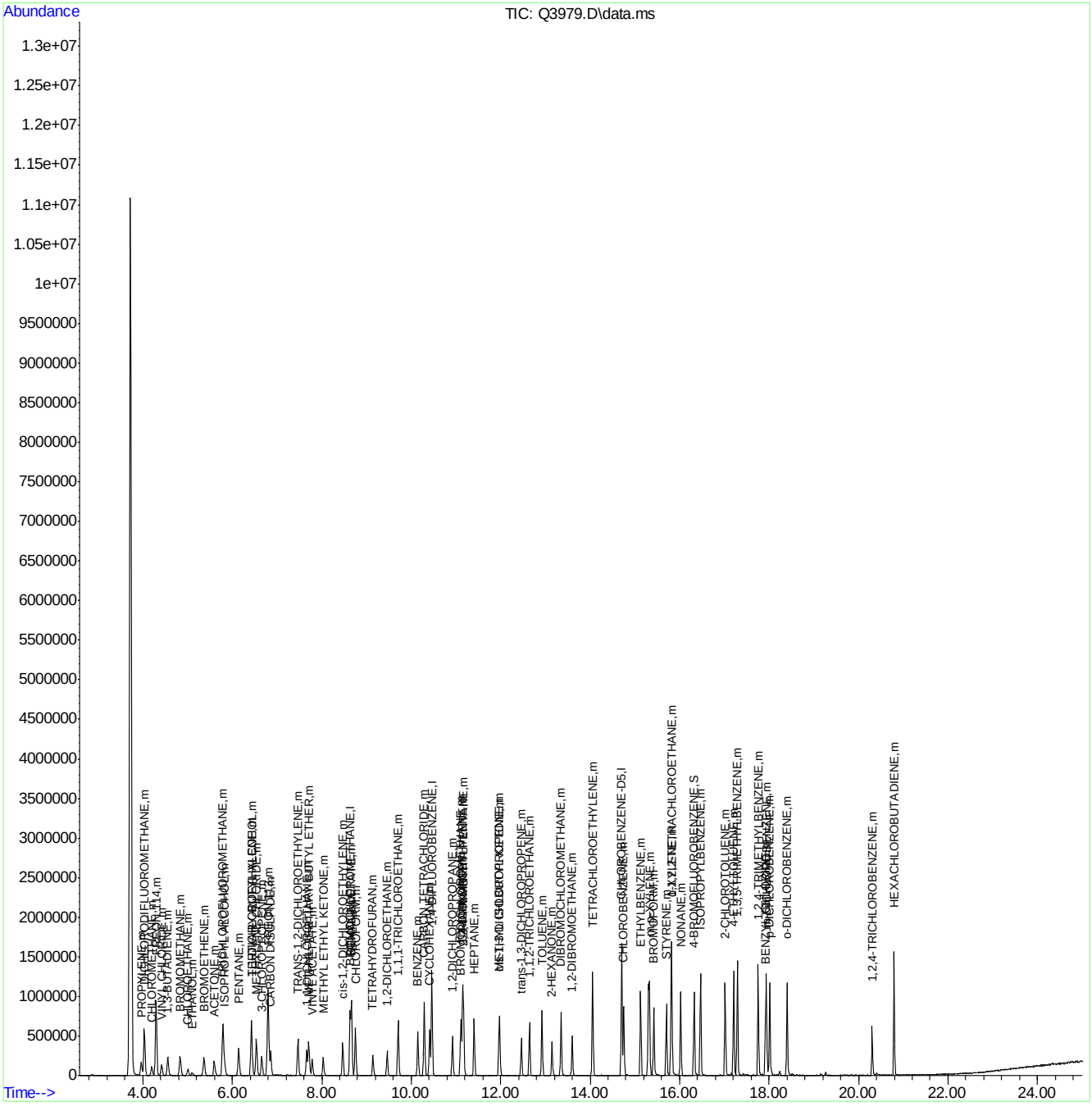
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3979.D
Acq On : 16 Jul 2007 6:18 pm
Operator : danat
Sample : icc214-10 (M211)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 08:10:22 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Mon Jul 16 15:07:12 2007
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3980.D
Acq On : 16 Jul 2007 7:01 pm
Operator : danat
Sample : ic214-5 (M211)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 08:16:28 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:14:33 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.632 | 128 | 205904 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.461 | 114 | 947064 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.705 | 117 | 825944 | 10.00 | PPBV | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.324 | 95 | 299530 | 4.65 | PPBV | 0.00 |

Spiked Amount 5.000 Range 57 - 139 Recovery = 93.00%

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 2) DICHLORODIFLUOROMETHANE | 4.037 | 85 | 343505 | 5.22 | PPBV | 100 |
| 3) PROPYLENE | 3.964 | 41 | 61635 | 5.30 | PPBV | 93 |
| 4) FREON 114 | 4.296 | 85 | 314869 | 5.03 | PPBV | 99 |
| 5) CHLOROMETHANE | 4.195 | 50 | 76735 | 5.30 | PPBV | 87 |
| 6) VINYL CHLORIDE | 4.422 | 62 | 87867 | 5.05 | PPBV | 96 |
| 7) 1,3-BUTADIENE | 4.557 | 39 | 69485 | 4.90 | PPBV | 99 |
| 8) BROMOMETHANE | 4.835 | 94 | 98181 | 4.93 | PPBV | 98 |
| 9) CHLOROETHANE | 5.011 | 64 | 35742 | 4.64 | PPBV | 99 |
| 10) TRICHLOROFLUOROMETHANE | 5.787 | 101 | 321040 | 4.90 | PPBV | 100 |
| 11) ISOPROPYL ALCOHOL | 5.828 | 45 | 117237 | 4.59 | PPBV | 99 |
| 12) ACETONE | 5.604 | 43 | 124462 | 4.64 | PPBV | 99 |
| 13) PENTANE | 6.143 | 42 | 71560 | 4.77 | PPBV | 99 |
| 14) 1,1-DICHLOROETHYLENE | 6.426 | 96 | 88811 | 4.58 | PPBV | 95 |
| 15) CARBON DISULFIDE | 6.859 | 76 | 235052 | 4.70 | PPBV | 96 |
| 16) ETHANOL | 5.098 | 45 | 21109 | 4.59 | PPBV | 81 |
| 17) BROMOETHENE | 5.366 | 106 | 96113 | 4.83 | PPBV | 100 |
| 18) METHYLENE CHLORIDE | 6.541 | 84 | 105900 | 4.57 | PPBV | 98 |
| 19) 3-CHLOROPROPENE | 6.663 | 39 | 60854 | 4.02 | PPBV | 99 |
| 20) FREON 113 | 6.797 | 151 | 211145 | 4.75 | PPBV | 99 |
| 21) TRANS-1,2-DICHLOROETHY... | 7.469 | 96 | 83754 | 4.44 | PPBV | 97 |
| 22) TERTIARY BUTYL ALCOHOL | 6.436 | 59 | 151527 | 4.57 | PPBV | 98 |
| 23) METHYL TERTIARY BUTYL ... | 7.711 | 73 | 193415 | 4.42 | PPBV | 98 |
| 24) TETRAHYDROFURAN | 9.145 | 42 | 60382 | 4.29 | PPBV | 100 |
| 25) HEXANE | 8.667 | 57 | 123008 | 4.60 | PPBV | 98 |
| 26) VINYL ACETATE | 7.790 | 43 | 134640 | 4.24 | PPBV | 99 |
| 27) 1,1-DICHLOROETHANE | 7.668 | 63 | 134750 | 4.23 | PPBV | 99 |
| 28) METHYL ETHYL KETONE | 8.037 | 43 | 124754 | 4.42 | PPBV | 97 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.468 | 96 | 73064 | 4.09 | PPBV | 98 |
| 30) ETHYL ACETATE | 8.664 | 43 | 224825 | 4.45 | PPBV | 100 |
| 31) CHLOROFORM | 8.754 | 83 | 190838 | 4.29 | PPBV | 98 |
| 32) 1,1,1-TRICHLOROETHANE | 9.707 | 97 | 187302 | 4.08 | PPBV | 100 |
| 33) CARBON TETRACHLORIDE | 10.295 | 117 | 232563 | 4.35 | PPBV | 100 |
| 34) 1,2-DICHLOROETHANE | 9.461 | 62 | 112746 | 4.22 | PPBV | 98 |
| 36) BENZENE | 10.147 | 78 | 190581 | 3.89 | PPBV | 99 |
| 37) CYCLOHEXANE | 10.410 | 84 | 88053 | 4.34 | PPBV | 100 |
| 38) TRICHLOROETHYLENE | 11.145 | 95 | 107659 | 3.97 | PPBV | 100 |
| 39) 1,2-DICHLOROPROPANE | 10.921 | 63 | 66643 | 4.01 | PPBV | 99 |
| 40) BROMODICHLOROMETHANE | 11.106 | 83 | 176485 | 3.96 | PPBV | 95 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.168 | 57 | 302789 | 4.04 | PPBV | 100 |
| 42) 1,4-DIOXANE | 11.141 | 88 | 38223 | 3.96 | PPBV # | 55 |
| 43) HEPTANE | 11.407 | 43 | 108447 | 3.94 | PPBV | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3980.D
Acq On : 16 Jul 2007 7:01 pm
Operator : danat
Sample : ic214-5 (M211)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 08:16:28 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:14:33 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.981 | 43 | 137692 | 3.89 PPBV | 99 |
| 45) cis-1,3-DICHLOROPROPENE | 11.963 | 75 | 100108 | 3.77 PPBV | 99 |
| 46) TOLUENE | 12.927 | 92 | 137452 | 3.88 PPBV | 100 |
| 47) trans-1,3-DICHLOROPROPENE | 12.463 | 75 | 93432 | 3.66 PPBV | 99 |
| 48) 1,1,2-TRICHLOROETHANE | 12.646 | 83 | 73208 | 4.05 PPBV | 99 |
| 50) 2-HEXANONE | 13.149 | 43 | 116486 | 3.86 PPBV | 97 |
| 51) TETRACHLOROETHYLENE | 14.057 | 164 | 122725 | 4.01 PPBV | 99 |
| 52) DIBROMOCHLOROMETHANE | 13.351 | 129 | 166726 | 3.70 PPBV | 99 |
| 53) 1,2-DIBROMOETHANE | 13.599 | 107 | 132216 | 3.92 PPBV | 97 |
| 54) CHLOROBENZENE | 14.751 | 112 | 194984 | 4.05 PPBV | 98 |
| 55) ETHYLBENZENE | 15.131 | 91 | 318008 | 4.00 PPBV | 100 |
| 56) m,p-XYLENE | 15.323 | 106 | 242151 | 7.97 PPBV | 99 |
| 57) o-XYLENE | 15.825 | 106 | 121195 | 3.94 PPBV | 98 |
| 58) STYRENE | 15.702 | 104 | 170488 | 3.67 PPBV | 99 |
| 59) NONANE | 16.022 | 43 | 154715 | 3.89 PPBV | 100 |
| 60) BROMOFORM | 15.426 | 173 | 157513 | 3.38 PPBV | 99 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.812 | 83 | 180416 | 3.93 PPBV | 100 |
| 63) ISOPROPYLBENZENE | 16.469 | 105 | 364704 | 3.91 PPBV | 99 |
| 64) 2-CHLOROTOLUENE | 17.019 | 91 | 261307 | 3.85 PPBV | 99 |
| 65) 4-ETHYLTOLUENE | 17.209 | 105 | 325376 | 3.69 PPBV | 99 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.293 | 105 | 320237 | 3.90 PPBV | 98 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.758 | 105 | 294793 | 3.78 PPBV | 100 |
| 68) m-DICHLOROBENZENE | 17.942 | 146 | 190127 | 3.57 PPBV | 98 |
| 69) BENZYL CHLORIDE | 17.917 | 91 | 143278 | 2.96 PPBV | 98 |
| 70) p-DICHLOROBENZENE | 18.015 | 146 | 198189 | 3.76 PPBV | 98 |
| 71) o-DICHLOROBENZENE | 18.402 | 146 | 183920 | 3.76 PPBV | 99 |
| 72) HEXACHLOROBUTADIENE | 20.794 | 225 | 110446 | 4.34 PPBV | 99 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.308 | 180 | 66830 | 3.58 PPBV | 97 |

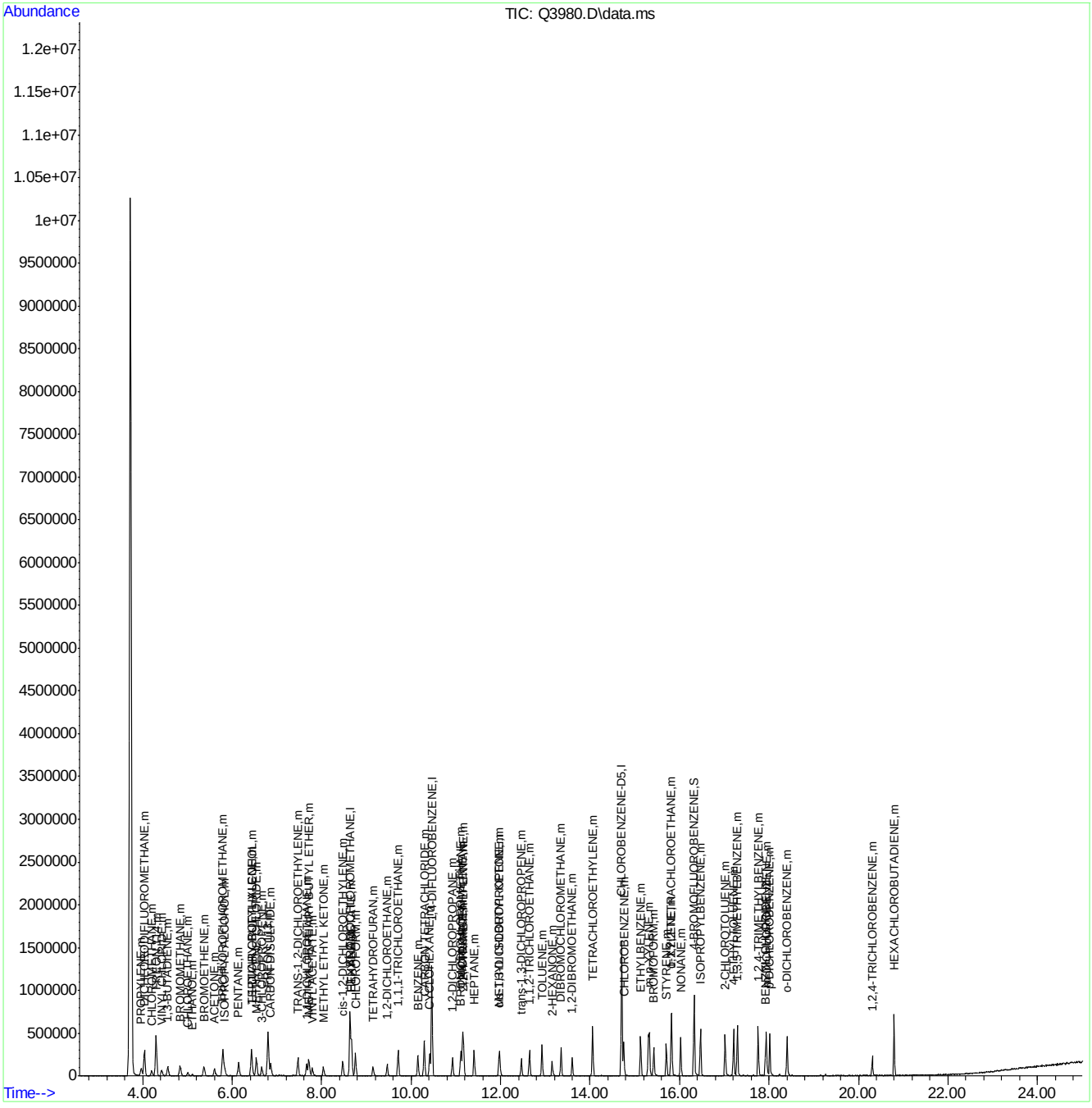
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3980.D
Acq On : 16 Jul 2007 7:01 pm
Operator : danat
Sample : ic214-5 (M211)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 08:16:28 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:14:33 2007
Response via : Initial Calibration








ACCUTEST Laboratories M66578

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3981.D
Acq On : 16 Jul 2007 7:44 pm
Operator : danat
Sample : ic214-2 (M211)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 08:16:52 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:16:40 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.632 | 128 | 202445 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.463 | 114 | 918040 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.705 | 117 | 788203 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 61) 4-BROMOFLUOROBENZENE | 16.324 | 95 | 279986 | 4.64 | PPBV | 0.00 |
| Spiked Amount 5.000 | Range 57 - 139 | | Recovery = 92.80% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) DICHLORODIFLUOROMETHANE | 4.037 | 85 | 135106 | 2.06 | PPBV | 98 |
| 3) PROPYLENE | 3.966 | 41 | 21867 | 1.88 | PPBV | 85 |
| 4) FREON 114 | 4.303 | 85 | 117212 | 1.90 | PPBV | 99 |
| 5) CHLOROMETHANE | 4.200 | 50 | 29469 | 2.04 | PPBV | 95 |
| 6) VINYL CHLORIDE | 4.424 | 62 | 33455 | 1.95 | PPBV | 98 |
| 7) 1,3-BUTADIENE | 4.560 | 39 | 26878 | 1.94 | PPBV | 97 |
| 8) BROMOMETHANE | 4.837 | 94 | 37618 | 1.93 | PPBV | 96 |
| 9) CHLOROETHANE | 5.008 | 64 | 12858 | 1.73 | PPBV # | 80 |
| 10) TRICHLOROFLUOROMETHANE | 5.790 | 101 | 122647 | 1.91 | PPBV | 99 |
| 11) ISOPROPYL ALCOHOL | 5.835 | 45 | 51199 | 2.08 | PPBV | 94 |
| 12) ACETONE | 5.609 | 43 | 56607 | 2.19 | PPBV | 99 |
| 13) PENTANE | 6.143 | 42 | 27393 | 1.88 | PPBV | 97 |
| 14) 1,1-DICHLOROETHYLENE | 6.422 | 96 | 36156 | 1.94 | PPBV | 98 |
| 15) CARBON DISULFIDE | 6.855 | 76 | 86669 | 1.79 | PPBV | 93 |
| 16) ETHANOL | 5.103 | 45 | 9528 | 2.15 | PPBV # | 60 |
| 17) BROMOETHENE | 5.366 | 106 | 36520 | 1.88 | PPBV | 98 |
| 18) METHYLENE CHLORIDE | 6.543 | 84 | 45947 | 2.06 | PPBV | 99 |
| 19) 3-CHLOROPROPENE | 6.655 | 39 | 25084 | 1.77 | PPBV | 92 |
| 20) FREON 113 | 6.802 | 151 | 84756 | 1.96 | PPBV | 99 |
| 21) TRANS-1,2-DICHLOROETHY... | 7.471 | 96 | 32193 | 1.79 | PPBV | 99 |
| 22) TERTIARY BUTYL ALCOHOL | 6.445 | 59 | 59741 | 1.87 | PPBV | 94 |
| 23) METHYL TERTIARY BUTYL ... | 7.718 | 73 | 80070 | 1.92 | PPBV | 96 |
| 24) TETRAHYDROFURAN | 9.153 | 42 | 23878 | 1.79 | PPBV | 99 |
| 25) HEXANE | 8.669 | 57 | 58475 | 2.27 | PPBV | 97 |
| 26) VINYL ACETATE | 7.794 | 43 | 56274 | 1.87 | PPBV | 88 |
| 27) 1,1-DICHLOROETHANE | 7.664 | 63 | 51599 | 1.71 | PPBV | 98 |
| 28) METHYL ETHYL KETONE | 8.039 | 43 | 48007 | 1.78 | PPBV | 96 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.467 | 96 | 27906 | 1.66 | PPBV | 99 |
| 30) ETHYL ACETATE | 8.671 | 43 | 96352 | 1.99 | PPBV | 99 |
| 31) CHLOROFORM | 8.747 | 83 | 73317 | 1.74 | PPBV | 99 |
| 32) 1,1,1-TRICHLOROETHANE | 9.713 | 97 | 71737 | 1.67 | PPBV | 99 |
| 33) CARBON TETRACHLORIDE | 10.295 | 117 | 86881 | 1.71 | PPBV | 99 |
| 34) 1,2-DICHLOROETHANE | 9.466 | 62 | 44708 | 1.77 | PPBV | 99 |
| 36) BENZENE | 10.147 | 78 | 73898 | 1.65 | PPBV | 99 |
| 37) CYCLOHEXANE | 10.419 | 84 | 34018 | 1.79 | PPBV | 98 |
| 38) TRICHLOROETHYLENE | 11.148 | 95 | 41891 | 1.68 | PPBV | 98 |
| 39) 1,2-DICHLOROPROPANE | 10.926 | 63 | 26803 | 1.75 | PPBV | 99 |
| 40) BROMODICHLOROMETHANE | 11.107 | 83 | 64689 | 1.58 | PPBV | 97 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.170 | 57 | 114231 | 1.65 | PPBV | 98 |
| 42) 1,4-DIOXANE | 11.143 | 88 | 13805 | 1.56 | PPBV # | 48 |
| 43) HEPTANE | 11.409 | 43 | 41873 | 1.66 | PPBV | 96 |



ACCUTEST Laboratories M66578

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3981.D
Acq On : 16 Jul 2007 7:44 pm
Operator : danat
Sample : ic214-2 (M211)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 08:16:52 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:16:40 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.986 | 43 | 54390 | 1.68 | PPBV | 98 |
| 45) cis-1,3-DICHLOROPROPENE | 11.961 | 75 | 36320 | 1.50 | PPBV | 94 |
| 46) TOLUENE | 12.923 | 92 | 52232 | 1.61 | PPBV | 96 |
| 47) trans-1,3-DICHLOROPROPENE | 12.465 | 75 | 34173 | 1.48 | PPBV | 97 |
| 48) 1,1,2-TRICHLOROETHANE | 12.646 | 83 | 29207 | 1.75 | PPBV | 99 |
| 50) 2-HEXANONE | 13.152 | 43 | 41483 | 1.53 | PPBV | 98 |
| 51) TETRACHLOROETHYLENE | 14.059 | 164 | 46206 | 1.66 | PPBV | 98 |
| 52) DIBROMOCHLOROMETHANE | 13.349 | 129 | 62068 | 1.55 | PPBV | 100 |
| 53) 1,2-DIBROMOETHANE | 13.597 | 107 | 50495 | 1.66 | PPBV | 98 |
| 54) CHLOROBENZENE | 14.753 | 112 | 74553 | 1.70 | PPBV | 99 |
| 55) ETHYLBENZENE | 15.129 | 91 | 121331 | 1.68 | PPBV | 100 |
| 56) m,p-XYLENE | 15.303 | 106 | 92276 | 3.35 | PPBV | 99 |
| 57) o-XYLENE | 15.827 | 106 | 47194 | 1.70 | PPBV | 98 |
| 58) STYRENE | 15.702 | 104 | 61380 | 1.48 | PPBV | 99 |
| 59) NONANE | 16.024 | 43 | 59653 | 1.66 | PPBV | 99 |
| 60) BROMOFORM | 15.422 | 173 | 56101 | 1.37 | PPBV | 98 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.812 | 83 | 67547 | 1.63 | PPBV | 98 |
| 63) ISOPROPYLBENZENE | 16.467 | 105 | 141125 | 1.68 | PPBV | 99 |
| 64) 2-CHLOROTOLUENE | 17.017 | 91 | 99183 | 1.62 | PPBV | 98 |
| 65) 4-ETHYLTOLUENE | 17.211 | 105 | 120772 | 1.53 | PPBV | 100 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.291 | 105 | 116359 | 1.57 | PPBV | 97 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.756 | 105 | 109161 | 1.56 | PPBV | 99 |
| 68) m-DICHLOROBENZENE | 17.939 | 146 | 72641 | 1.54 | PPBV | 99 |
| 69) BENZYL CHLORIDE | 17.917 | 91 | 46385 | 1.12 | PPBV | 98 |
| 70) p-DICHLOROBENZENE | 18.013 | 146 | 71778 | 1.52 | PPBV | 96 |
| 71) o-DICHLOROBENZENE | 18.400 | 146 | 67267 | 1.54 | PPBV | 98 |
| 72) HEXACHLOROBUTADIENE | 20.798 | 225 | 43134 | 1.84 | PPBV | 99 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.310 | 180 | 21627 | 1.31 | PPBV | 97 |

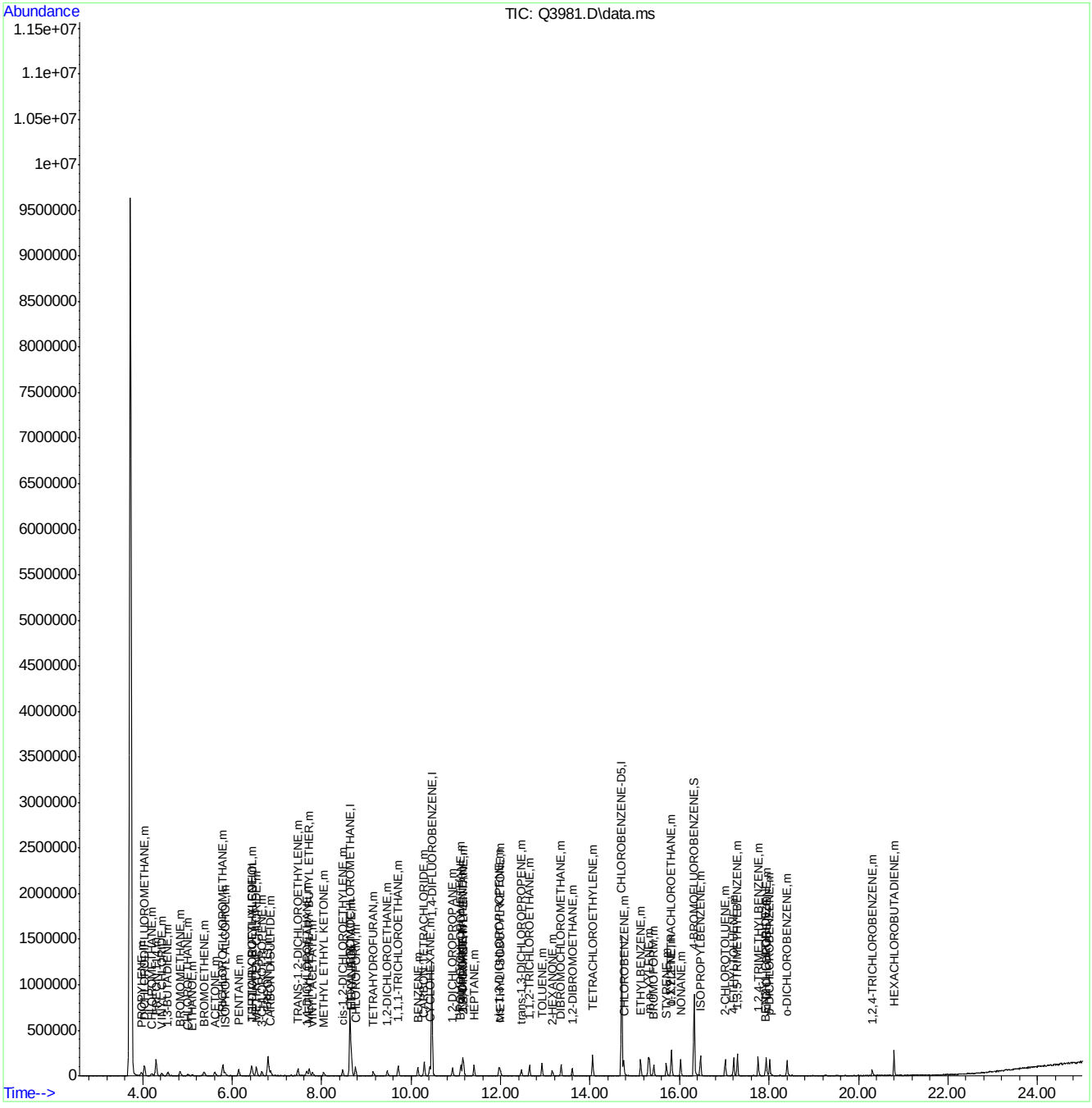
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3981.D
Acq On : 16 Jul 2007 7:44 pm
Operator : danat
Sample : ic214-2 (M211)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 08:16:52 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:16:40 2007
Response via : Initial Calibration





Manual Integrations APPROVED (compounds with "m" flag)
Philip Bassignani 07/18/07 19:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3982.D
Acq On : 16 Jul 2007 8:26 pm
Operator : danat
Sample : ic214-0.5 (M210)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 08:20:19 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:18:23 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.635 | 128 | 196436 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.463 | 114 | 898497 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.705 | 117 | 762074 | 10.00 | PPBV | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.323 | 95 | 260219 | 4.52 | PPBV | 0.00 |

Spiked Amount 5.000 Range 57 - 139 Recovery = 90.40%

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 2) DICHLORODIFLUOROMETHANE | 4.037 | 85 | 33383 | 0.52 | PPBV | 96 |
| 3) PROPYLENE | 3.969 | 41 | 5450m | 0.49 | PPBV | |
| 4) FREON 114 | 4.298 | 85 | 30786 | 0.52 | PPBV | 99 |
| 5) CHLOROMETHANE | 4.193 | 50 | 6815 | 0.48 | PPBV # | 42 |
| 6) VINYL CHLORIDE | 4.418 | 62 | 7979 | 0.48 | PPBV | 90 |
| 7) 1,3-BUTADIENE | 4.553 | 39 | 7326 | 0.55 | PPBV # | 23 |
| 8) BROMOMETHANE | 4.827 | 94 | 9674 | 0.51 | PPBV # | 57 |
| 9) CHLOROETHANE | 5.009 | 64 | 3980 | 0.57 | PPBV # | 61 |
| 10) TRICHLOROFLUOROMETHANE | 5.794 | 101 | 35548 | 0.58 | PPBV | 99 |
| 11) ISOPROPYL ALCOHOL | 5.845 | 45 | 19323 | 0.80 | PPBV | 93 |
| 12) ACETONE | 5.611 | 43 | 21472 | 0.84 | PPBV | 97 |
| 13) PENTANE | 6.140 | 42 | 7782m | 0.56 | PPBV | |
| 14) 1,1-DICHLOROETHYLENE | 6.429 | 96 | 9567 | 0.53 | PPBV | 94 |
| 15) CARBON DISULFIDE | 6.862 | 76 | 22470 | 0.49 | PPBV | 94 |
| 16) ETHANOL | 5.116 | 45 | 3143m | 0.72 | PPBV | |
| 17) BROMOETHENE | 5.370 | 106 | 10273 | 0.55 | PPBV # | 91 |
| 18) METHYLENE CHLORIDE | 6.534 | 84 | 19466 | 0.89 | PPBV | 99 |
| 19) 3-CHLOROPROPENE | 6.663 | 39 | 7752 | 0.58 | PPBV # | 79 |
| 20) FREON 113 | 6.804 | 151 | 24522 | 0.59 | PPBV | 98 |
| 21) TRANS-1,2-DICHLOROETHY... | 7.471 | 96 | 8761 | 0.51 | PPBV | 93 |
| 22) TERTIARY BUTYL ALCOHOL | 6.465 | 59 | 16229 | 0.53 | PPBV | 85 |
| 23) METHYL TERTIARY BUTYL ... | 7.727 | 73 | 20083 | 0.50 | PPBV | 93 |
| 24) TETRAHYDROFURAN | 9.169 | 42 | 6006 | 0.47 | PPBV # | 76 |
| 25) HEXANE | 8.669 | 57 | 20205 | 0.79 | PPBV | 97 |
| 26) VINYL ACETATE | 7.796 | 43 | 14182 | 0.49 | PPBV | 93 |
| 27) 1,1-DICHLOROETHANE | 7.666 | 63 | 15078 | 0.53 | PPBV | 99 |
| 28) METHYL ETHYL KETONE | 8.048 | 43 | 13964 | 0.55 | PPBV | 95 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.472 | 96 | 7412 | 0.47 | PPBV | 97 |
| 30) ETHYL ACETATE | 8.676 | 43 | 27945 | 0.60 | PPBV # | 95 |
| 31) CHLOROFORM | 8.752 | 83 | 20365 | 0.51 | PPBV | 98 |
| 32) 1,1,1-TRICHLOROETHANE | 9.714 | 97 | 20211 | 0.50 | PPBV | 98 |
| 33) CARBON TETRACHLORIDE | 10.291 | 117 | 23125 | 0.48 | PPBV | 98 |
| 34) 1,2-DICHLOROETHANE | 9.462 | 62 | 11552 | 0.48 | PPBV | 96 |
| 36) BENZENE | 10.151 | 78 | 19179 | 0.45 | PPBV | 99 |
| 37) CYCLOHEXANE | 10.415 | 84 | 8315 | 0.46 | PPBV | 100 |
| 38) TRICHLOROETHYLENE | 11.147 | 95 | 10350 | 0.44 | PPBV | 90 |
| 39) 1,2-DICHLOROPROPANE | 10.923 | 63 | 7272 | 0.50 | PPBV | 96 |
| 40) BROMODICHLOROMETHANE | 11.104 | 83 | 16086 | 0.42 | PPBV | 97 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.168 | 57 | 30682 | 0.47 | PPBV | 98 |
| 42) 1,4-DIOXANE | 11.161 | 88 | 4015 | 0.48 | PPBV # | 1 |
| 43) HEPTANE | 11.404 | 43 | 11193 | 0.47 | PPBV | 92 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3982.D
Acq On : 16 Jul 2007 8:26 pm
Operator : danat
Sample : ic214-0.5 (M210)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 08:20:19 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:18:23 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.993 | 43 | 13986 | 0.46 | PPBV | 96 |
| 45) cis-1,3-DICHLOROPROPENE | 11.966 | 75 | 9146 | 0.41 | PPBV | 93 |
| 46) TOLUENE | 12.918 | 92 | 13119 | 0.43 | PPBV | 100 |
| 47) trans-1,3-DICHLOROPROPENE | 12.462 | 75 | 7753 | 0.36 | PPBV | 94 |
| 48) 1,1,2-TRICHLOROETHANE | 12.643 | 83 | 7148 | 0.45 | PPBV | 98 |
| 50) 2-HEXANONE | 13.159 | 43 | 12565 | 0.50 | PPBV | 95 |
| 51) TETRACHLOROETHYLENE | 14.057 | 164 | 12458 | 0.48 | PPBV | 97 |
| 52) DIBROMOCHLOROMETHANE | 13.353 | 129 | 14127 | 0.38 | PPBV | 97 |
| 53) 1,2-DIBROMOETHANE | 13.597 | 107 | 12953 | 0.46 | PPBV # | 98 |
| 54) CHLOROBENZENE | 14.749 | 112 | 18637 | 0.45 | PPBV | 96 |
| 55) ETHYLBENZENE | 15.127 | 91 | 27066 | 0.40 | PPBV | 97 |
| 56) m,p-XYLENE | 15.323 | 106 | 20206m | 0.78 | PPBV | |
| 57) o-XYLENE | 15.821 | 106 | 10481 | 0.40 | PPBV | 95 |
| 58) STYRENE | 15.702 | 104 | 12720 | 0.34 | PPBV | 96 |
| 59) NONANE | 16.024 | 43 | 13031 | 0.39 | PPBV | 93 |
| 60) BROMOFORM | 15.420 | 173 | 12525 | 0.34 | PPBV | 99 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.809 | 83 | 18629 | 0.48 | PPBV | 96 |
| 63) ISOPROPYLBENZENE | 16.467 | 105 | 32602 | 0.41 | PPBV | 99 |
| 64) 2-CHLOROTOLUENE | 17.019 | 91 | 22818 | 0.40 | PPBV | 98 |
| 65) 4-ETHYLTOLUENE | 17.209 | 105 | 27226 | 0.38 | PPBV | 98 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.296 | 105 | 28706 | 0.42 | PPBV | 100 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.756 | 105 | 25520 | 0.39 | PPBV | 99 |
| 68) m-DICHLOROBENZENE | 17.942 | 146 | 19093 | 0.44 | PPBV | 94 |
| 69) BENZYL CHLORIDE | 17.917 | 91 | 11288 | 0.31 | PPBV | 93 |
| 70) p-DICHLOROBENZENE | 18.013 | 146 | 14458 | 0.33 | PPBV | 80 |
| 71) o-DICHLOROBENZENE | 18.404 | 146 | 19673 | 0.49 | PPBV | 99 |
| 72) HEXACHLOROBUTADIENE | 20.796 | 225 | 31622 | 1.42 | PPBV | 99 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.306 | 180 | 11854 | 0.80 | PPBV | 98 |

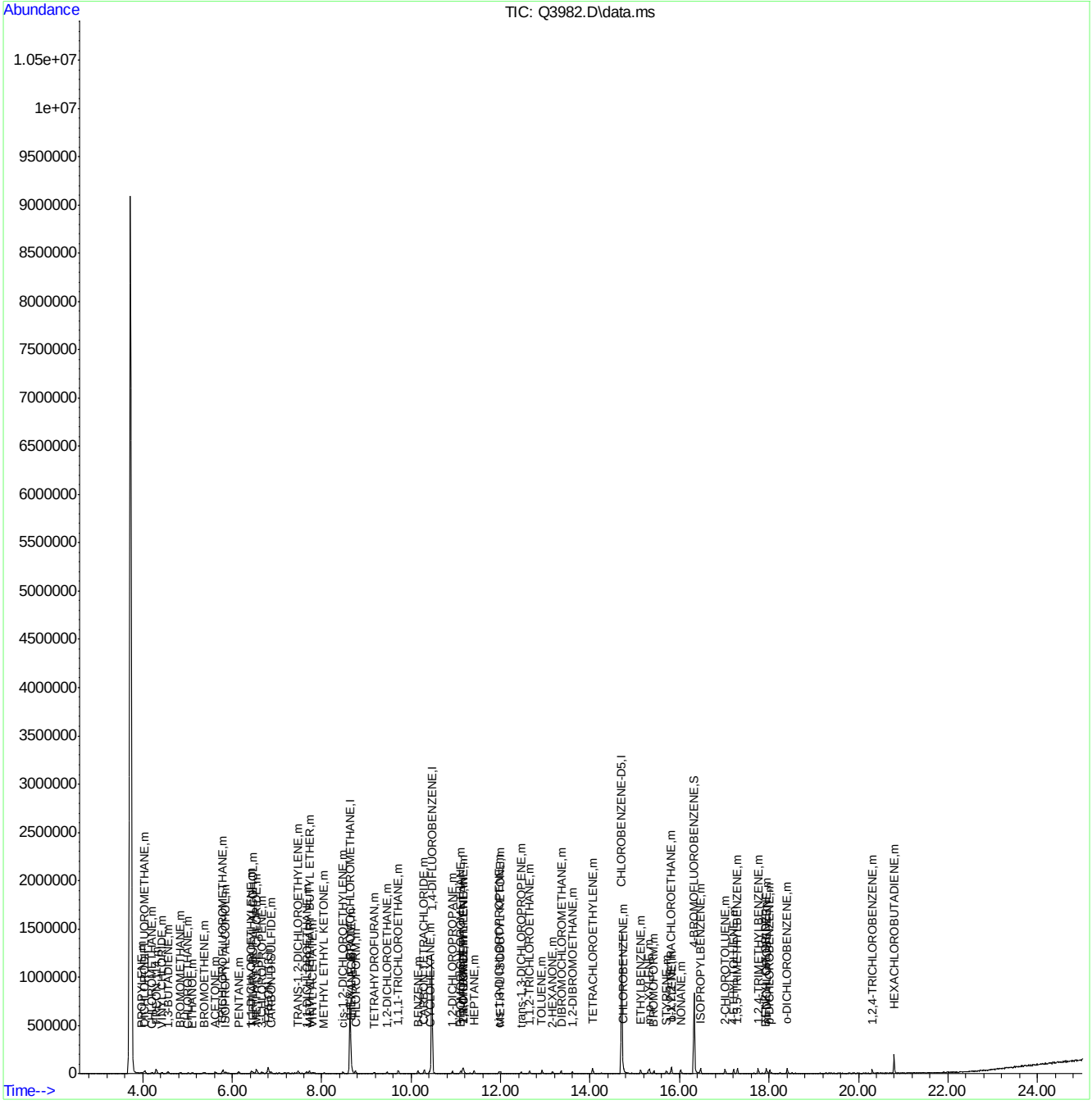
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3982.D
Acq On : 16 Jul 2007 8:26 pm
Operator : danat
Sample : ic214-0.5 (M210)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 08:20:19 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:18:23 2007
Response via : Initial Calibration







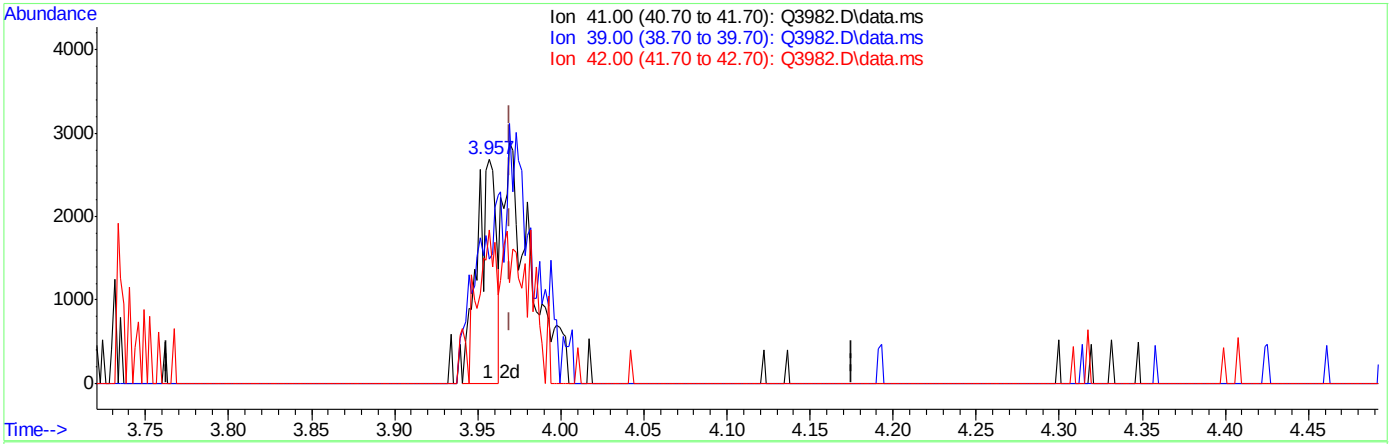

ACCUTEST Laboratories M66578

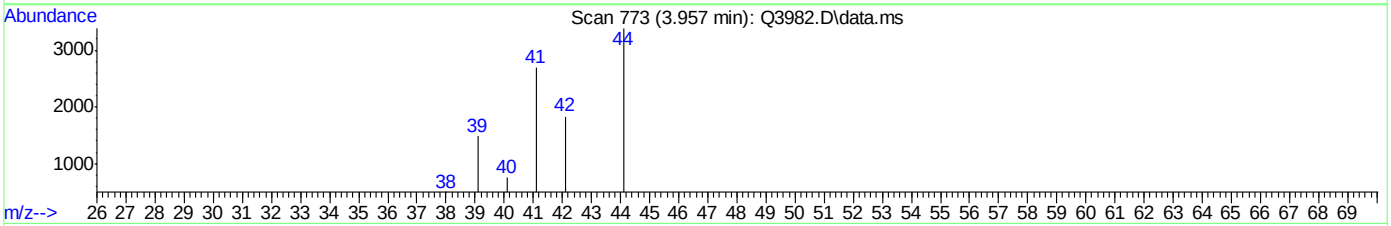
Quantitation Report (Qedit)

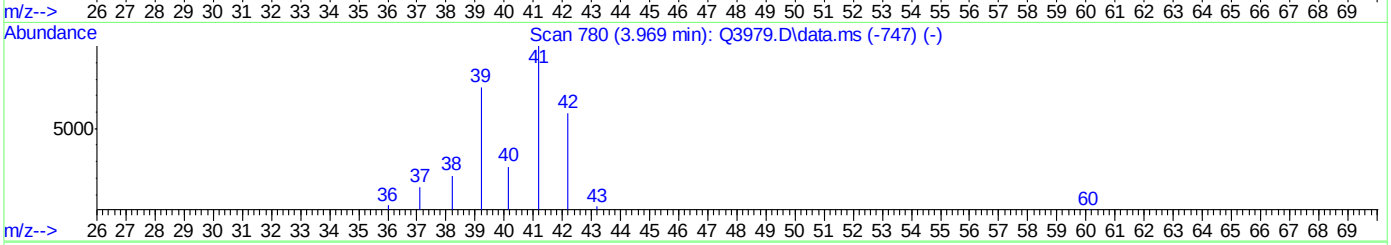
Data Path : C:\msdchem\1\DATA\
Data File : Q3982.D
Acq On : 16 Jul 2007 8:26 pm
Operator : danat
Sample : ic214-0.5 (M210)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 08:18:32 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:18:23 2007
Response via : Initial Calibration






TIC: Q3982.D\data.ms

(3) PROPYLENE (m)

3.957min (-0.012) 0.19PPBV

response 2110

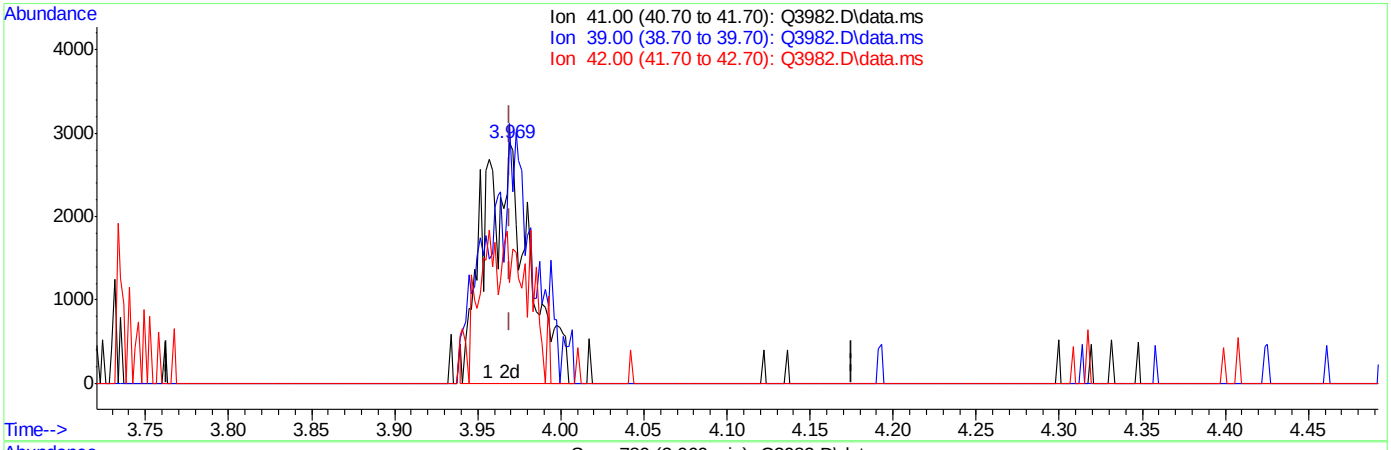
| Ion | Exp% | Act% |
|---|---|---|
| 41.00 | 100 | 100 |
| 39.00 | 75.10 | 55.29 |
| 42.00 | 59.30 | 68.24 |
| 0.00 | 0.00 | 0.00 |

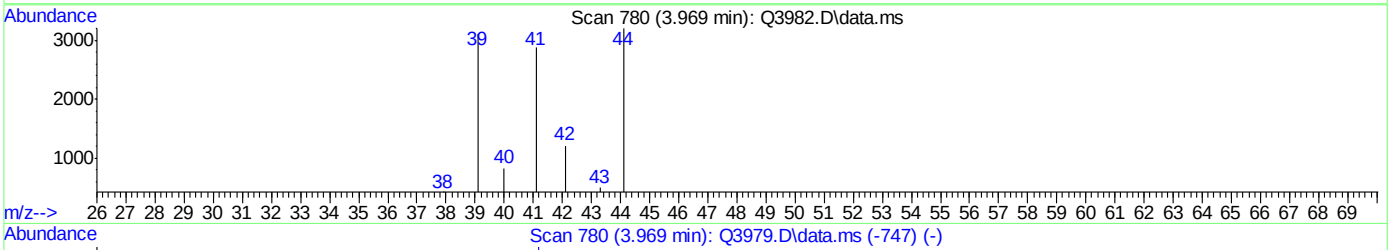
Quantitation Report (Qedit)

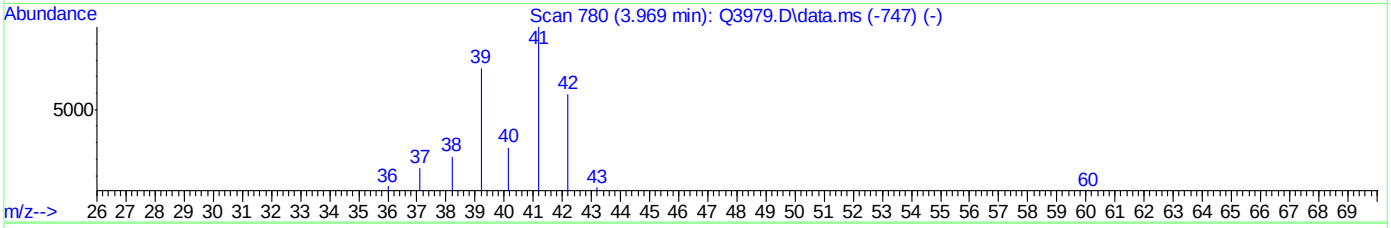
```
Data Path : C:\msdchem\1\DATA\
Data File : Q3982.D
Acq On    : 16 Jul 2007   8:26 pm
Operator  : danat
Sample    : ic214-0.5 (M210)
Misc      : MS13893, MSQ214,,,,,1
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Jul 17 08:18:32 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title  : TO15  by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:18:23 2007
Response via : Initial Calibration
```






TIC: Q3982.D\data.ms

(3) PROPYLENE (m)

3.969min (+0.000) 0.49PPBV m

response 5450

| Ion | Exp% | Act% |
|---|---|---|
| 41.00 | 100 | 100 |
| 39.00 | 75.10 | 108.01# |
| 42.00 | 59.30 | 41.83 |
| 0.00 | 0.00 | 0.00 |



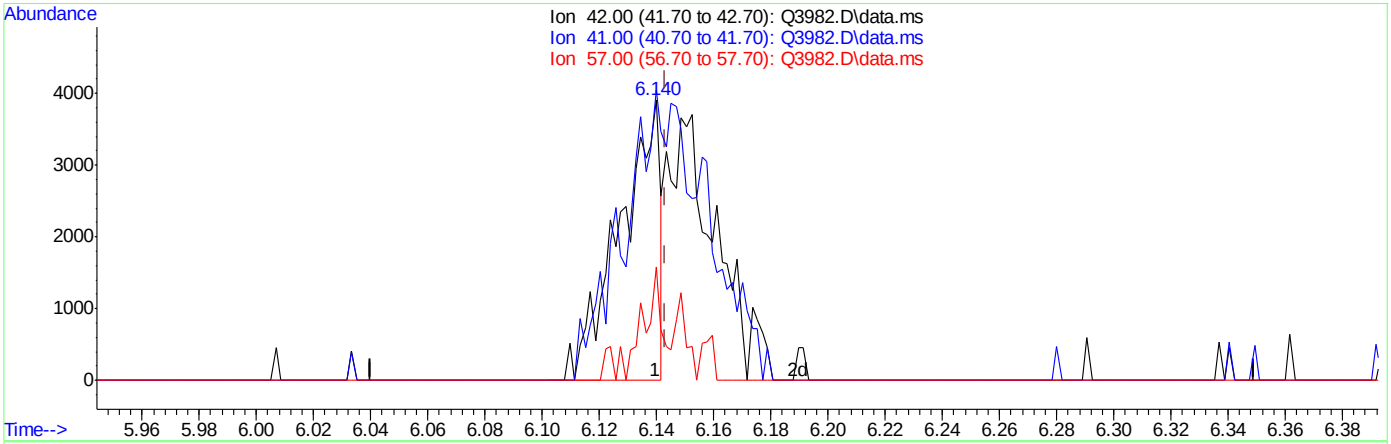
ACCUTEST Laboratories M66578

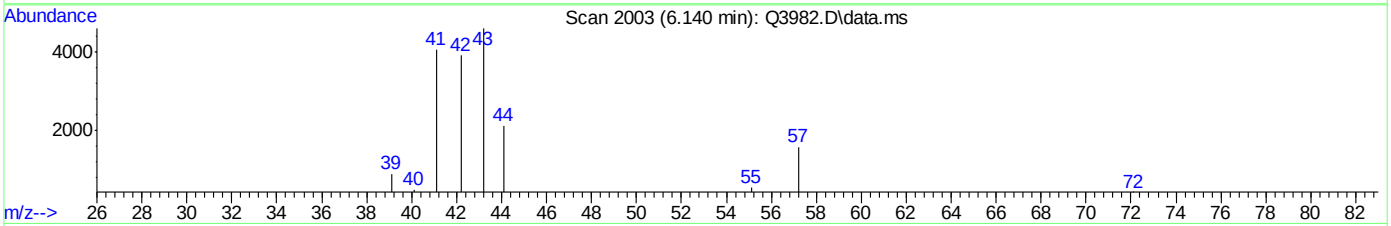
Quantitation Report (Qedit)

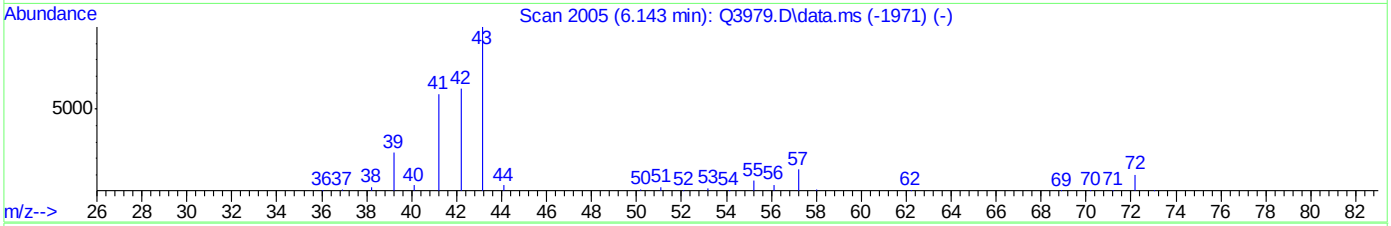
Data Path : C:\msdchem\1\DATA\
Data File : Q3982.D
Acq On : 16 Jul 2007 8:26 pm
Operator : danat
Sample : ic214-0.5 (M210)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 08:18:32 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:18:23 2007
Response via : Initial Calibration






TIC: Q3982.D\data.ms

(13) PENTANE (m)

6.140min (-0.003) 0.28PPBV

response 3846

| Ion | Exp% | Act% |
|---|---|---|
| 42.00 | 100 | 100 |
| 41.00 | 102.30 | 212.17# |
| 57.00 | 25.00 | 22.02 |
| 0.00 | 0.00 | 0.00 |



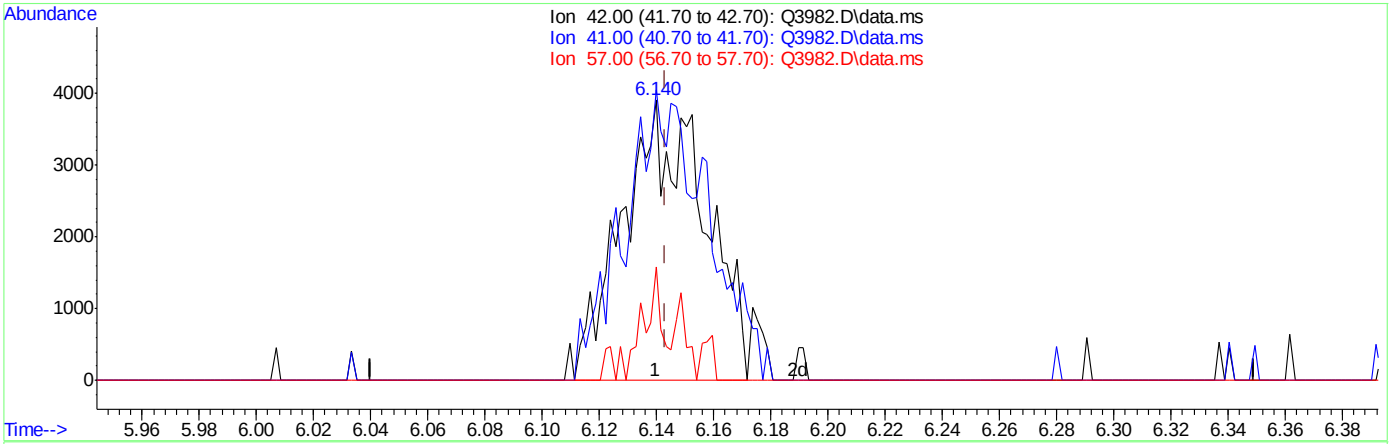
ACCUTEST Laboratories M66578

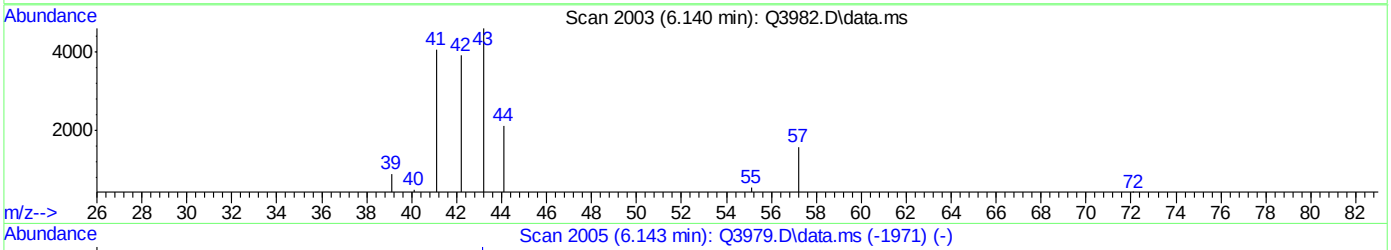
Quantitation Report (Qedit)

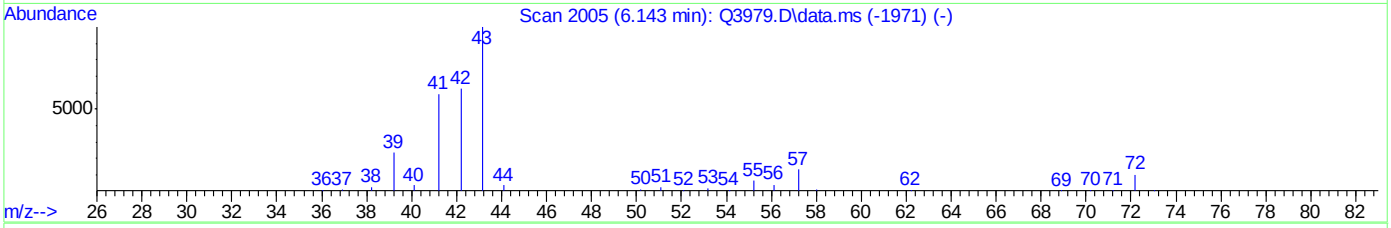
Data Path : C:\msdchem\1\DATA\
Data File : Q3982.D
Acq On : 16 Jul 2007 8:26 pm
Operator : danat
Sample : ic214-0.5 (M210)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 08:18:32 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:18:23 2007
Response via : Initial Calibration






TIC: Q3982.D\data.ms

(13) PENTANE (m)

6.140min (-0.003) 0.56PPBV m

response 7782

| Ion | Exp% | Act% |
|---|---|---|
| 42.00 | 100 | 100 |
| 41.00 | 102.30 | 104.86 |
| 57.00 | 25.00 | 10.88 |
| 0.00 | 0.00 | 0.00 |



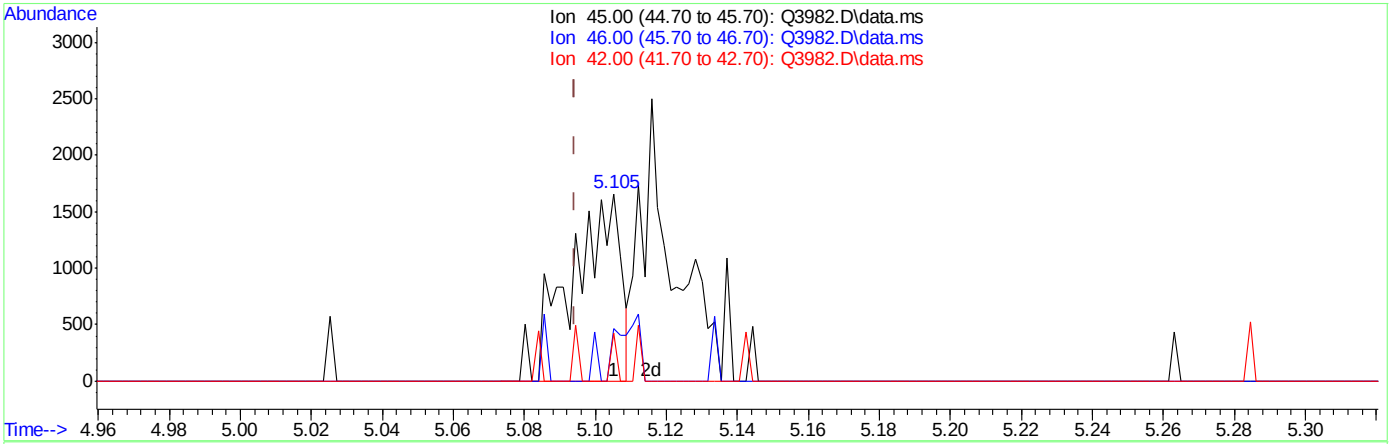
ACCUTEST Laboratories M66578

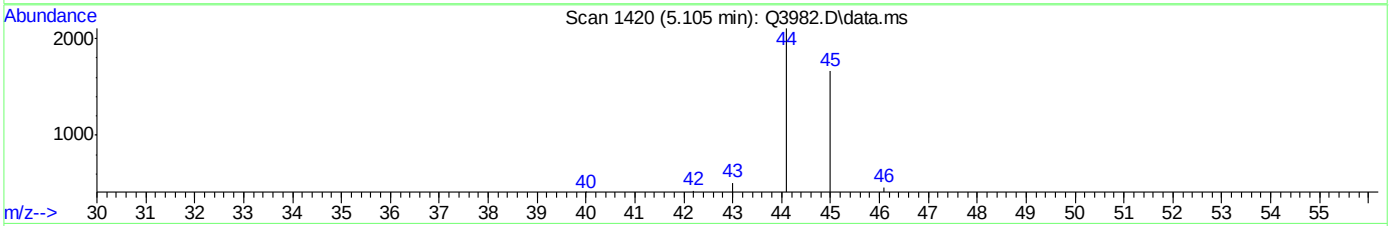
Quantitation Report (Qedit)

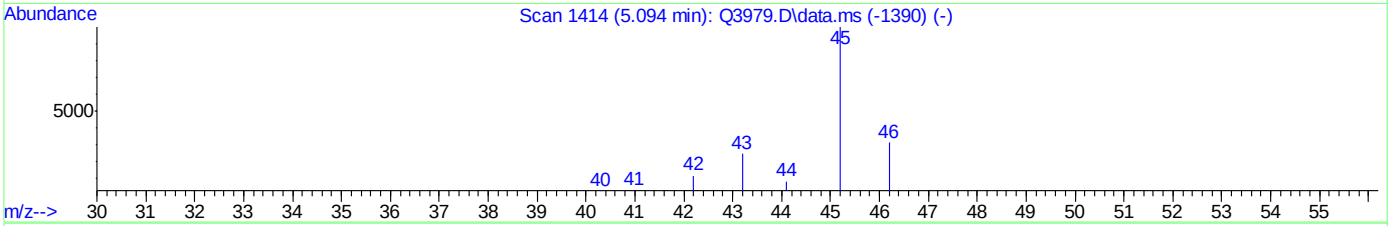
Data Path : C:\msdchem\1\DATA\
Data File : Q3982.D
Acq On : 16 Jul 2007 8:26 pm
Operator : danat
Sample : ic214-0.5 (M210)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 08:18:32 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:18:23 2007
Response via : Initial Calibration






TIC: Q3982.D\data.ms

(16) ETHANOL (m)

5.105min (+0.011) 0.37PPBV

response 1592

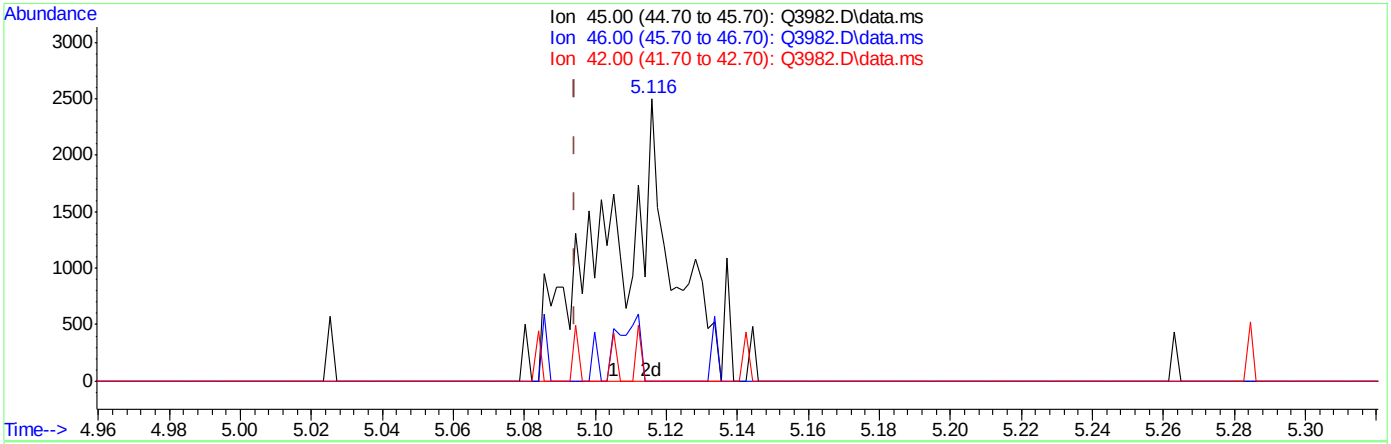
| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 33.80 | 0.00# |
| 42.00 | 5.90 | 2.89 |
| 0.00 | 0.00 | 0.00 |

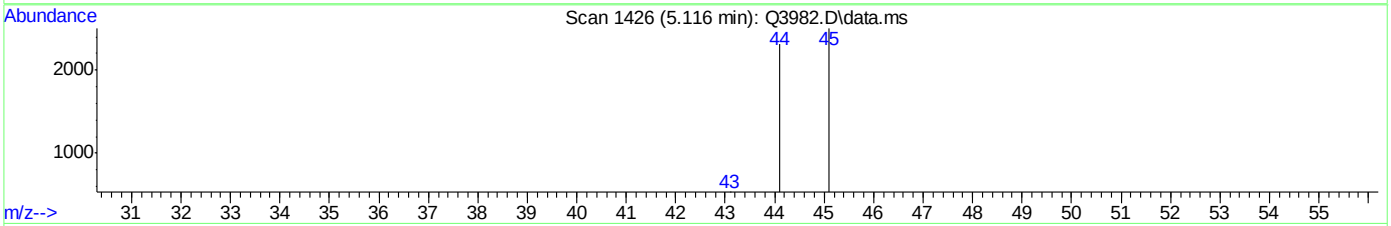
Quantitation Report (Qedit)

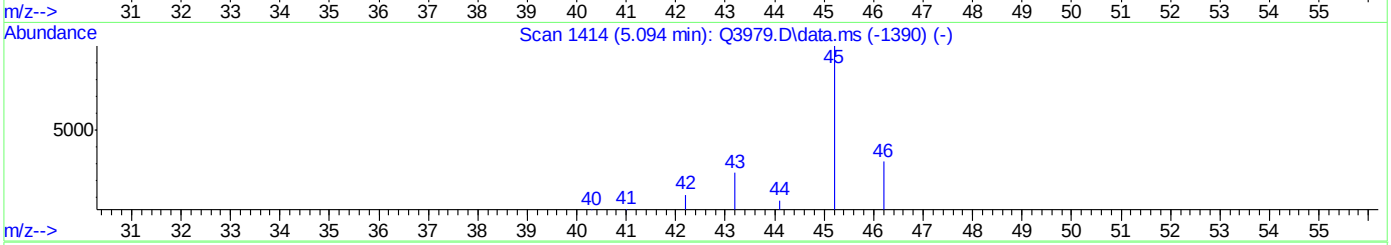
Data Path : C:\msdchem\1\DATA\
Data File : Q3982.D
Acq On : 16 Jul 2007 8:26 pm
Operator : danat
Sample : ic214-0.5 (M210)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 08:18:32 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:18:23 2007
Response via : Initial Calibration






TIC: Q3982.D\data.ms

(16) ETHANOL (m)

5.116min (+0.021) 0.72PPBV m

response 3143

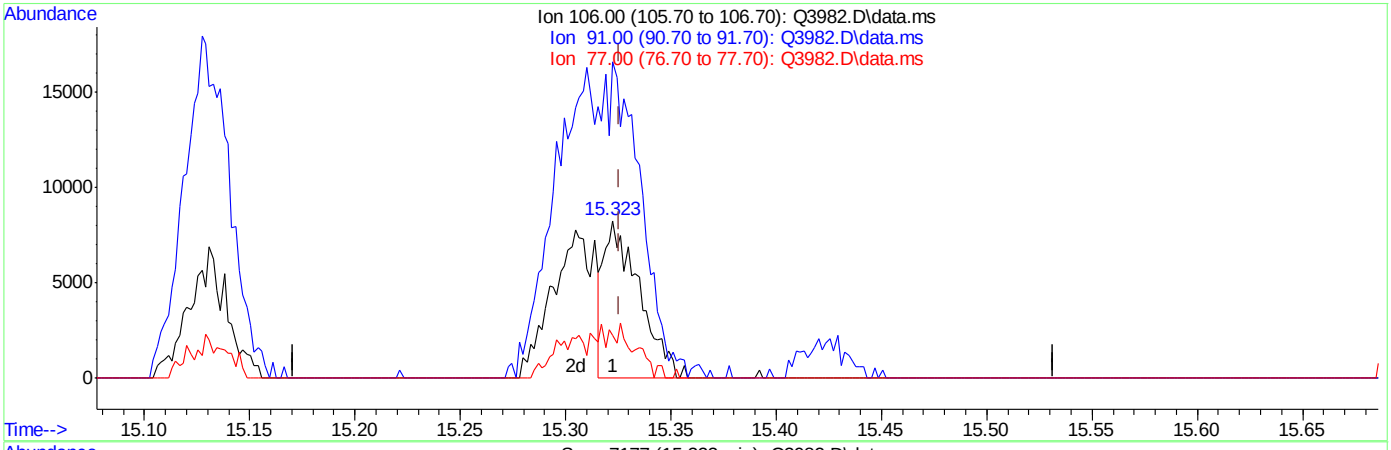
| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 33.80 | 0.00# |
| 42.00 | 5.90 | 1.46 |
| 0.00 | 0.00 | 0.00 |

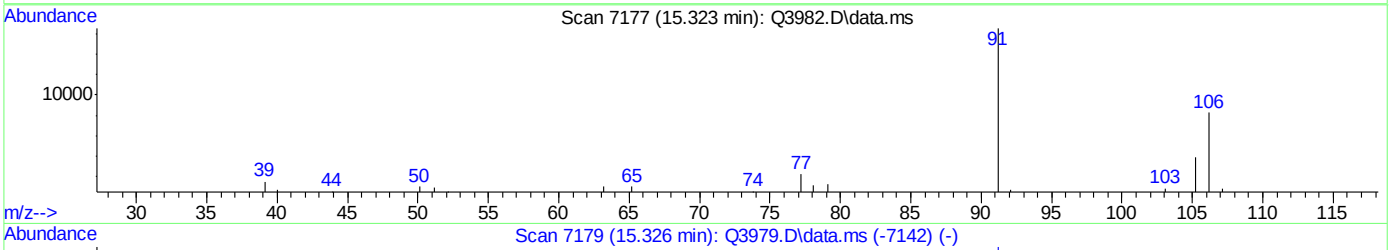
Quantitation Report (Qedit)

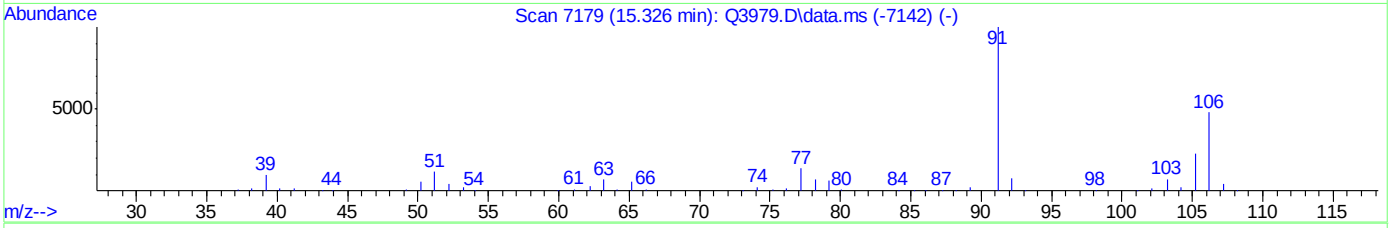
Data Path : C:\msdchem\1\DATA\
Data File : Q3982.D
Acq On : 16 Jul 2007 8:26 pm
Operator : danat
Sample : ic214-0.5 (M210)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 08:18:32 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:18:23 2007
Response via : Initial Calibration






TIC: Q3982.D\data.ms

(56) m,p-XYLENE (m)

15.323min (-0.003) 0.37PPBV

response 9643

| Ion | Exp% | Act% |
|---|---|---|
| 106.00 | 100 | 100 |
| 91.00 | 209.40 | 200.63 |
| 77.00 | 28.30 | 26.84 |
| 0.00 | 0.00 | 0.00 |



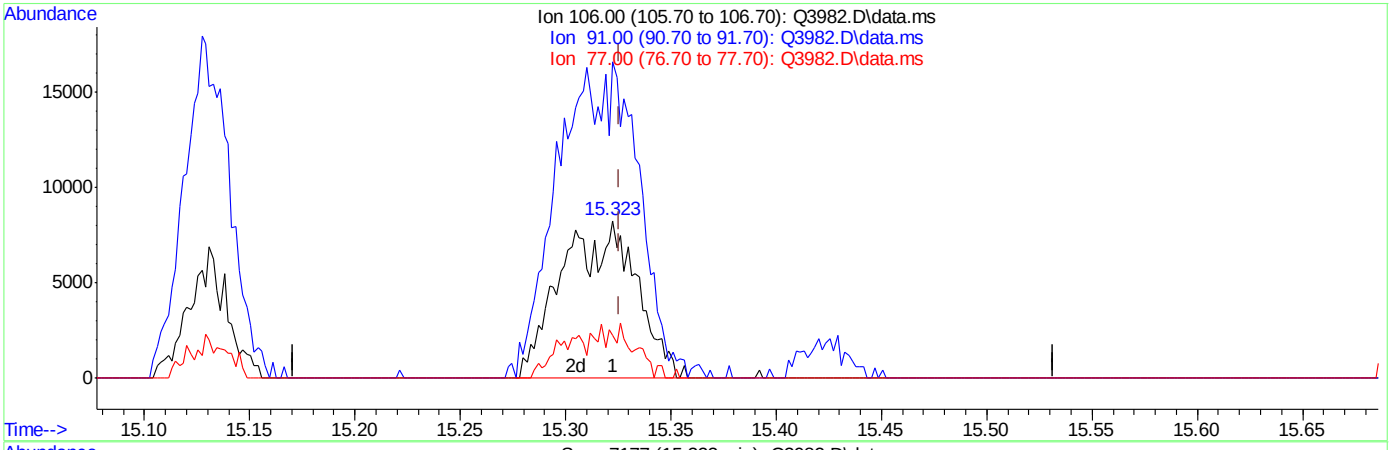
ACCUTEST Laboratories M66578

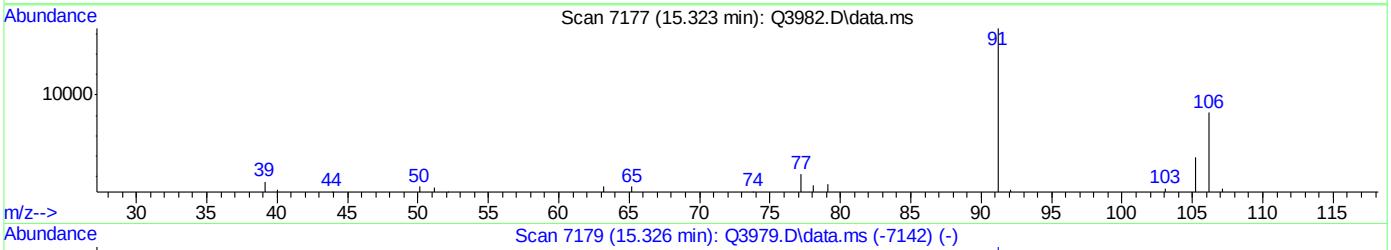
Quantitation Report (Qedit)

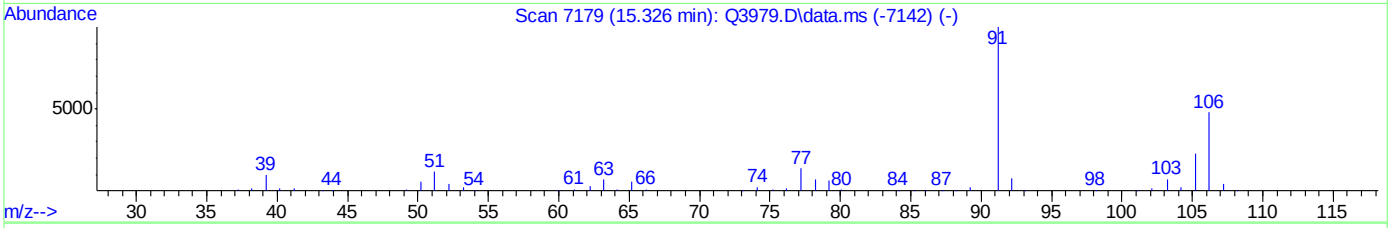
Data Path : C:\msdchem\1\DATA\
Data File : Q3982.D
Acq On : 16 Jul 2007 8:26 pm
Operator : danat
Sample : ic214-0.5 (M210)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 08:18:32 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:18:23 2007
Response via : Initial Calibration






TIC: Q3982.D\data.ms

(56) m,p-XYLENE (m)

15.323min (-0.003) 0.78PPBV m

response 20206

| Ion | Exp% | Act% |
|---|---|---|
| 106.00 | 100 | 100 |
| 91.00 | 209.40 | 200.63 |
| 77.00 | 28.30 | 26.84 |
| 0.00 | 0.00 | 0.00 |

Q3983.D

Manual Integrations APPROVED (compounds with "m" flag)

Philip Bassignani 07/18/07 19:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3983.D
Acq On : 16 Jul 2007 9:09 pm
Operator : danat
Sample : ic214-0.2 (M210)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 08:24:58 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:21:05 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.633 | 128 | 189375 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.463 | 114 | 853254 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.705 | 117 | 728923 | 10.00 | PPBV | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.325 | 95 | 249172 | 4.60 | PPBV | 0.00 |

Spiked Amount 5.000 Range 57 - 139 Recovery = 92.00%

| Target Compounds | | | | | | | Qvalue |
|---|---|---|---|---|---|---|---|
| 2) DICHLORODIFLUOROMETHANE | 4.040 | 85 | 15158 | 0.24 | PPBV | | 96 |
| 3) PROPYLENE | 3.959 | 41 | 1169 | 0.11 | PPBV | # | 73 |
| 4) FREON 114 | 4.292 | 85 | 14083 | 0.25 | PPBV | | 94 |
| 5) CHLOROMETHANE | 4.196 | 50 | 3033 | 0.22 | PPBV | | 82 |
| 6) VINYL CHLORIDE | 4.429 | 62 | 3554 | 0.22 | PPBV | # | 69 |
| 7) 1,3-BUTADIENE | 4.557 | 39 | 2711 | 0.21 | PPBV | # | 75 |
| 8) BROMOMETHANE | 4.830 | 94 | 3665 | 0.20 | PPBV | | 85 |
| 9) CHLOROETHANE | 5.006 | 64 | 645 | 0.09 | PPBV | # | 59 |
| 10) TRICHLOROFLUOROMETHANE | 5.792 | 101 | 14776 | 0.24 | PPBV | | 95 |
| 11) ISOPROPYL ALCOHOL | 5.843 | 45 | 10622 | 0.42 | PPBV | | 91 |
| 12) ACETONE | 5.618 | 43 | 12921 | 0.47 | PPBV | | 90 |
| 13) PENTANE | 6.149 | 42 | 2787 | 0.20 | PPBV | # | 73 |
| 14) 1,1-DICHLOROETHYLENE | 6.417 | 96 | 3686m | 0.21 | PPBV | | |
| 15) CARBON DISULFIDE | 6.862 | 76 | 9183 | 0.21 | PPBV | | 83 |
| 16) ETHANOL | 5.119 | 45 | 1154 | 0.26 | PPBV | | 81 |
| 17) BROMOETHENE | 5.371 | 106 | 3595 | 0.20 | PPBV | # | 92 |
| 18) METHYLENE CHLORIDE | 6.536 | 84 | 12336 | 0.52 | PPBV | | 99 |
| 19) 3-CHLOROPROPENE | 6.669 | 39 | 2636 | 0.20 | PPBV | # | 78 |
| 20) FREON 113 | 6.797 | 151 | 11718 | 0.28 | PPBV | | 99 |
| 21) TRANS-1,2-DICHLOROETHY... | 7.471 | 96 | 3825 | 0.23 | PPBV | # | 75 |
| 22) TERTIARY BUTYL ALCOHOL | 6.461 | 59 | 5983m | 0.20 | PPBV | | |
| 23) METHYL TERTIARY BUTYL ... | 7.725 | 73 | 8383 | 0.22 | PPBV | | 84 |
| 24) TETRAHYDROFURAN | 9.168 | 42 | 2015 | 0.17 | PPBV | # | 45 |
| 25) HEXANE | 8.662 | 57 | 10987 | 0.41 | PPBV | | 91 |
| 26) VINYL ACETATE | 7.792 | 43 | 6568 | 0.24 | PPBV | # | 17 |
| 27) 1,1-DICHLOROETHANE | 7.659 | 63 | 5973m | 0.22 | PPBV | | |
| 28) METHYL ETHYL KETONE | 8.042 | 43 | 5888 | 0.24 | PPBV | | 85 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.479 | 96 | 2919 | 0.19 | PPBV | # | 79 |
| 30) ETHYL ACETATE | 8.674 | 43 | 14102 | 0.30 | PPBV | # | 94 |
| 31) CHLOROFORM | 8.752 | 83 | 7944 | 0.21 | PPBV | | 94 |
| 32) 1,1,1-TRICHLOROETHANE | 9.720 | 97 | 8026 | 0.21 | PPBV | | 97 |
| 33) CARBON TETRACHLORIDE | 10.291 | 117 | 9029 | 0.20 | PPBV | | 100 |
| 34) 1,2-DICHLOROETHANE | 9.462 | 62 | 4293 | 0.19 | PPBV | | 97 |
| 36) BENZENE | 10.146 | 78 | 7594 | 0.19 | PPBV | | 93 |
| 37) CYCLOHEXANE | 10.419 | 84 | 3091 | 0.18 | PPBV | | 90 |
| 38) TRICHLOROETHYLENE | 11.143 | 95 | 4469 | 0.20 | PPBV | # | 38 |
| 39) 1,2-DICHLOROPROPANE | 10.925 | 63 | 2041 | 0.15 | PPBV | # | 76 |
| 40) BROMODICHLOROMETHANE | 11.111 | 83 | 6385 | 0.18 | PPBV | | 97 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.168 | 57 | 10369 | 0.17 | PPBV | | 72 |
| 42) 1,4-DIOXANE | 11.168 | 88 | 1460 | 0.19 | PPBV | # | 1 |
| 43) HEPTANE | 11.406 | 43 | 3925 | 0.17 | PPBV | | 89 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3983.D
Acq On : 16 Jul 2007 9:09 pm
Operator : danat
Sample : ic214-0.2 (M210)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 08:24:58 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:21:05 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.993 | 43 | 5126 | 0.18 | PPBV | 79 |
| 45) cis-1,3-DICHLOROPROPENE | 11.966 | 75 | 3767 | 0.18 | PPBV | 89 |
| 46) TOLUENE | 12.921 | 92 | 5790 | 0.20 | PPBV | 92 |
| 47) trans-1,3-DICHLOROPROPENE | 12.469 | 75 | 2850 | 0.15 | PPBV # | 38 |
| 48) 1,1,2-TRICHLOROETHANE | 12.644 | 83 | 2707 | 0.18 | PPBV | 96 |
| 50) 2-HEXANONE | 13.156 | 43 | 4158 | 0.17 | PPBV # | 84 |
| 51) TETRACHLOROETHYLENE | 14.062 | 164 | 4484 | 0.18 | PPBV | 92 |
| 52) DIBROMOCHLOROMETHANE | 13.349 | 129 | 5802 | 0.17 | PPBV # | 26 |
| 53) 1,2-DIBROMOETHANE | 13.603 | 107 | 5192 | 0.19 | PPBV # | 99 |
| 54) CHLOROBENZENE | 14.753 | 112 | 7577 | 0.20 | PPBV | 95 |
| 55) ETHYLBENZENE | 15.127 | 91 | 10377 | 0.17 | PPBV | 84 |
| 56) m,p-XYLENE | 15.323 | 106 | 7451m | 0.31 | PPBV | |
| 57) o-XYLENE | 15.816 | 106 | 3837 | 0.16 | PPBV | 95 |
| 58) STYRENE | 15.709 | 104 | 4746 | 0.14 | PPBV | 97 |
| 59) NONANE | 16.022 | 43 | 4824 | 0.16 | PPBV # | 90 |
| 60) BROMOFORM | 15.429 | 173 | 4552 | 0.14 | PPBV | 94 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.807 | 83 | 7277 | 0.20 | PPBV | 97 |
| 63) ISOPROPYLBENZENE | 16.464 | 105 | 12622 | 0.17 | PPBV | 95 |
| 64) 2-CHLOROTOLUENE | 17.016 | 91 | 9048 | 0.17 | PPBV | 75 |
| 65) 4-ETHYLTOLUENE | 17.207 | 105 | 10144m | 0.15 | PPBV | |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.293 | 105 | 10773 | 0.17 | PPBV | 89 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.759 | 105 | 8767 | 0.15 | PPBV | 95 |
| 68) m-DICHLOROBENZENE | 17.939 | 146 | 7327 | 0.18 | PPBV | 99 |
| 69) BENZYL CHLORIDE | 17.914 | 91 | 3234 | 0.10 | PPBV | 83 |
| 70) p-DICHLOROBENZENE | 18.020 | 146 | 7266 | 0.19 | PPBV | 94 |
| 71) o-DICHLOROBENZENE | 18.404 | 146 | 7410 | 0.19 | PPBV | 95 |
| 72) HEXACHLOROBUTADIENE | 20.796 | 225 | 12574 | 0.45 | PPBV | 95 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.311 | 180 | 4294 | 0.27 | PPBV | 88 |

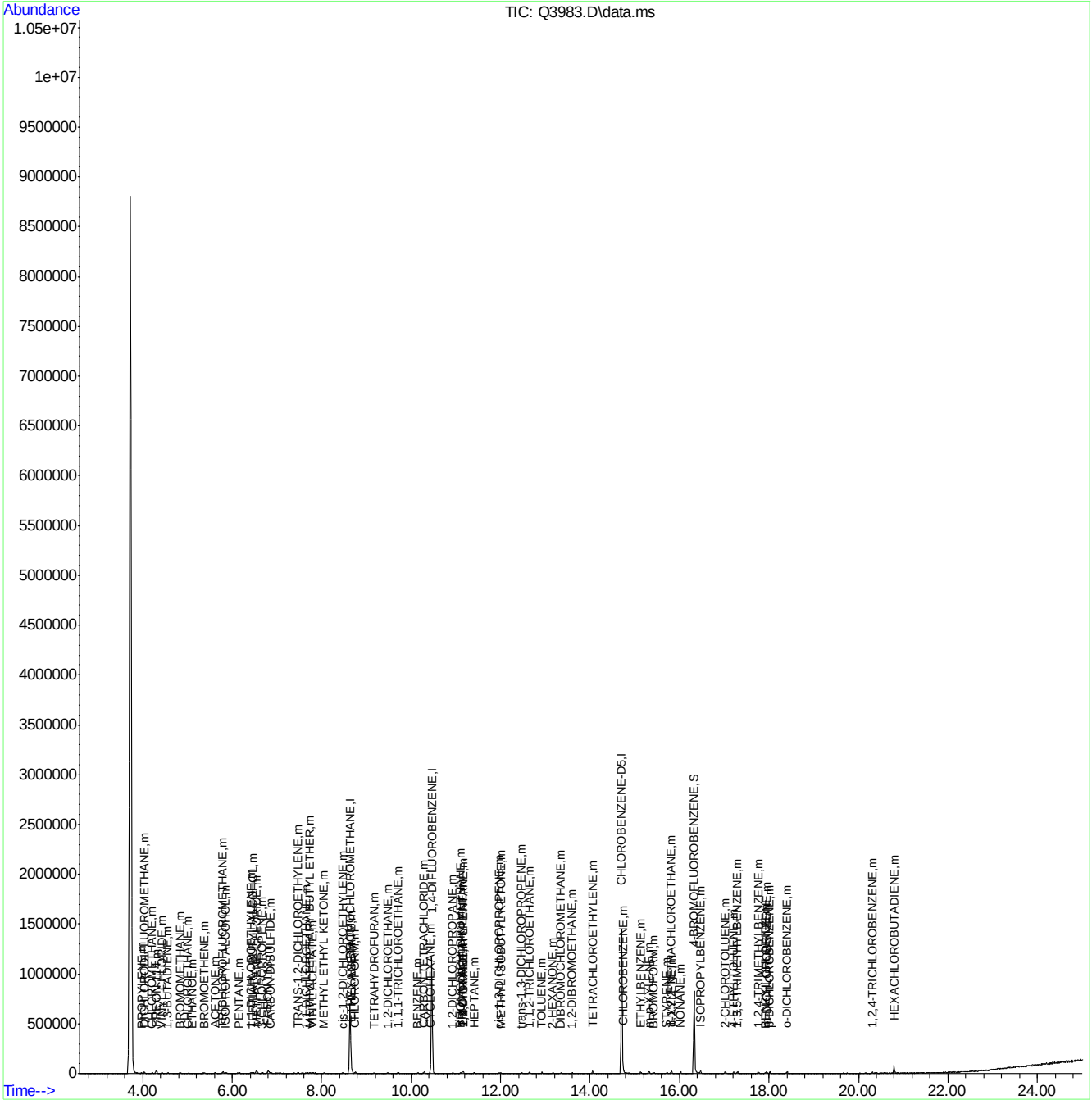
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3983.D
Acq On : 16 Jul 2007 9:09 pm
Operator : danat
Sample : ic214-0.2 (M210)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 08:24:58 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:21:05 2007
Response via : Initial Calibration







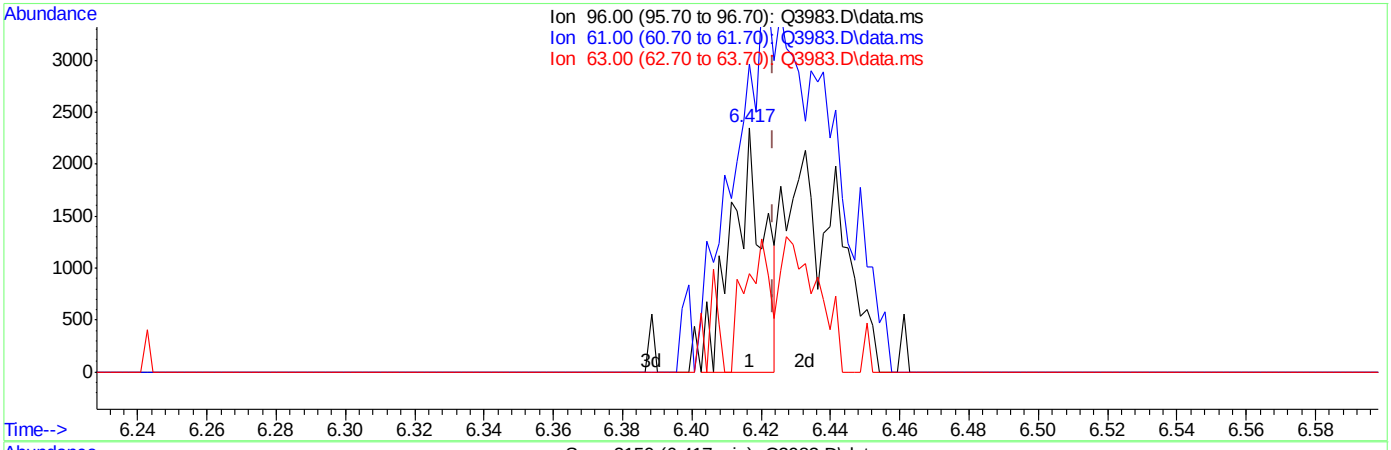

ACCUTEST Laboratories M66578

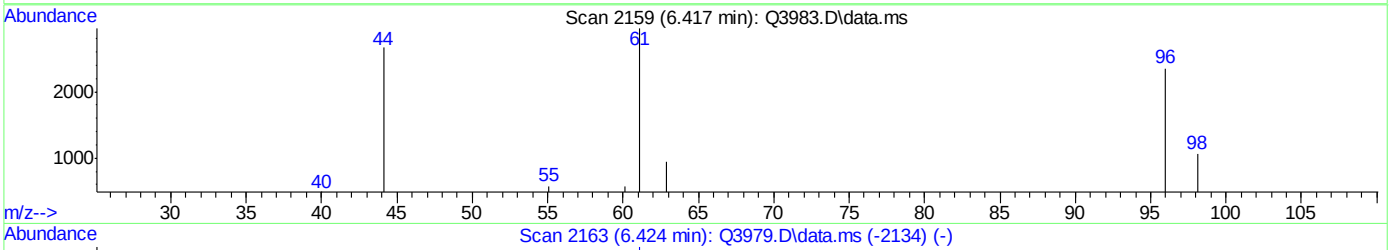
Quantitation Report (Qedit)

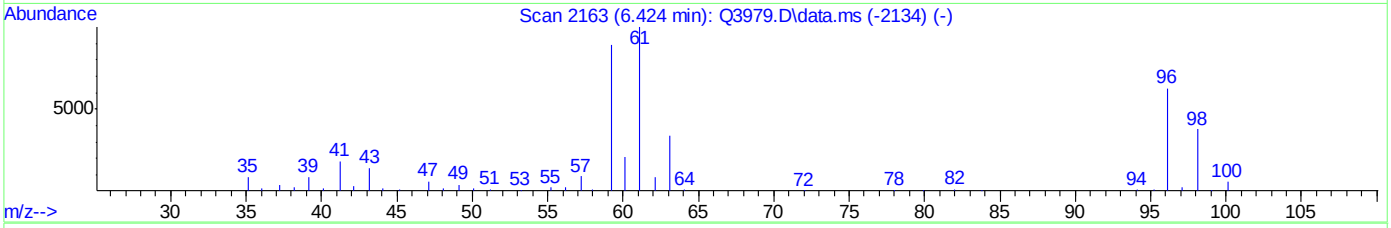
Data Path : C:\msdchem\1\DATA\
Data File : Q3983.D
Acq On : 16 Jul 2007 9:09 pm
Operator : danat
Sample : ic214-0.2 (M210)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 08:21:24 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:21:05 2007
Response via : Initial Calibration






TIC: Q3983.D\data.ms

(14) 1,1-DICHLOROETHYLENE (m)

6.417min (-0.007) 0.09PPBV

response 1536

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 168.60 | 458.46# |
| 63.00 | 54.00 | 42.64 |
| 0.00 | 0.00 | 0.00 |



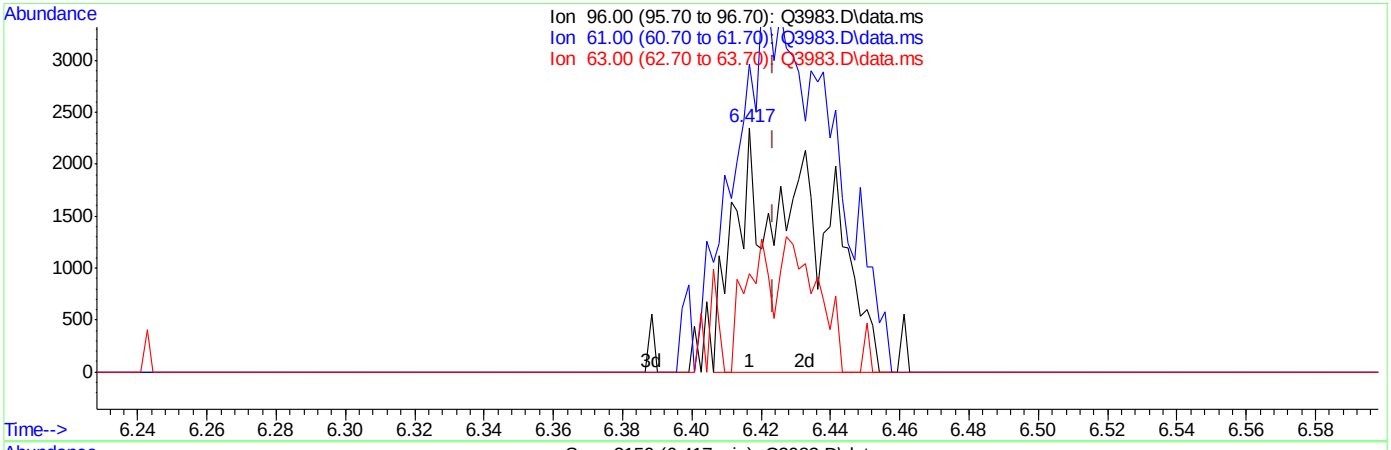
ACCUTEST Laboratories M66578

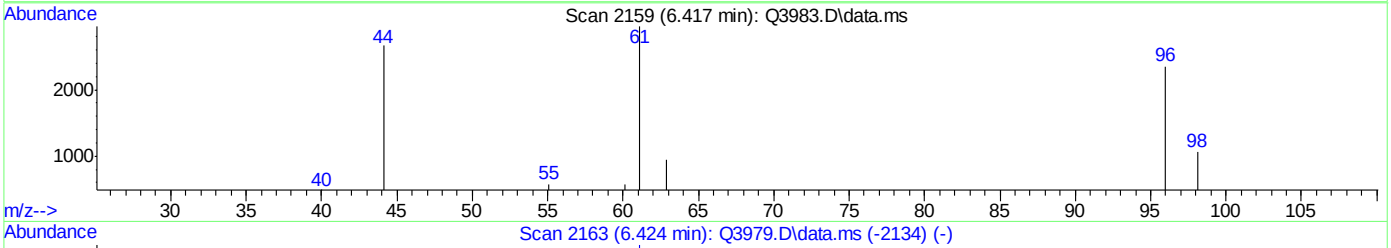
Quantitation Report (Qedit)

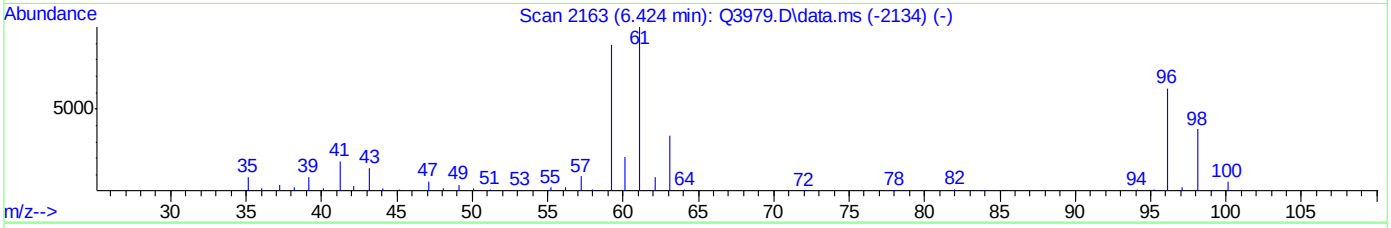
Data Path : C:\msdchem\1\DATA\
Data File : Q3983.D
Acq On : 16 Jul 2007 9:09 pm
Operator : danat
Sample : ic214-0.2 (M210)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 08:21:24 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:21:05 2007
Response via : Initial Calibration






TIC: Q3983.D\data.ms

(14) 1,1-DICHLOROETHYLENE (m)

6.417min (-0.007) 0.21PPBV m

response 3686

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 168.60 | 191.05# |
| 63.00 | 54.00 | 17.77# |
| 0.00 | 0.00 | 0.00 |



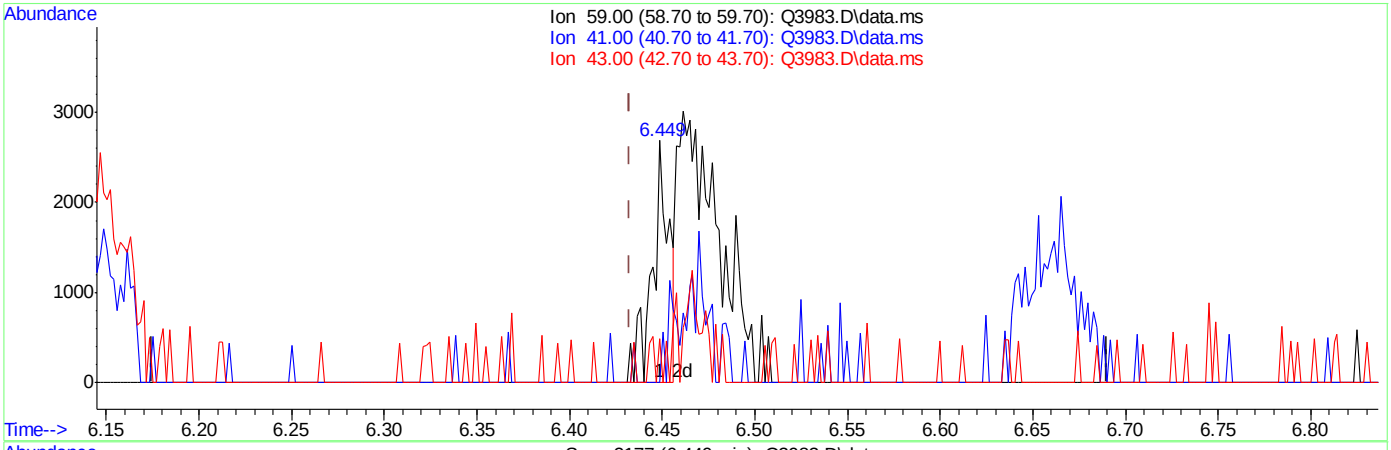
ACCUTEST Laboratories M66578

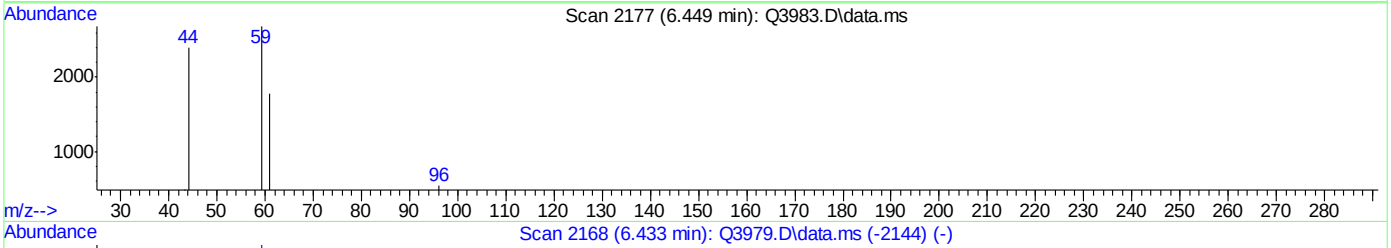
Quantitation Report (Qedit)

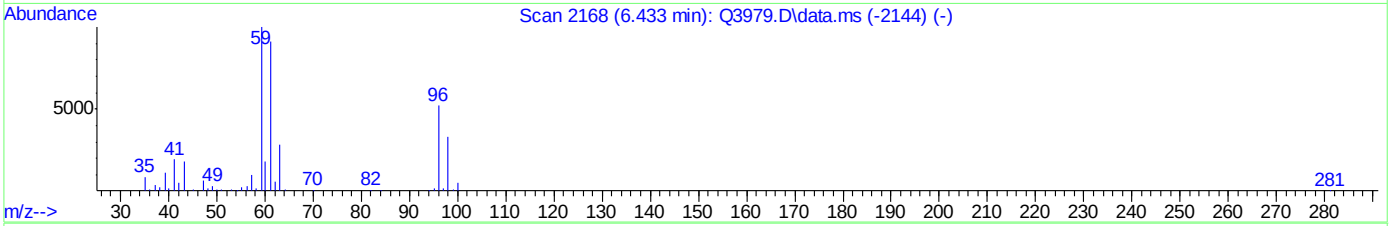
Data Path : C:\msdchem\1\DATA\
Data File : Q3983.D
Acq On : 16 Jul 2007 9:09 pm
Operator : danat
Sample : ic214-0.2 (M210)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 08:21:24 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:21:05 2007
Response via : Initial Calibration






TIC: Q3983.D\data.ms

(22) TERTIARY BUTYL ALCOHOL (m)

6.449min (+0.016) 0.06PPBV

response 1658

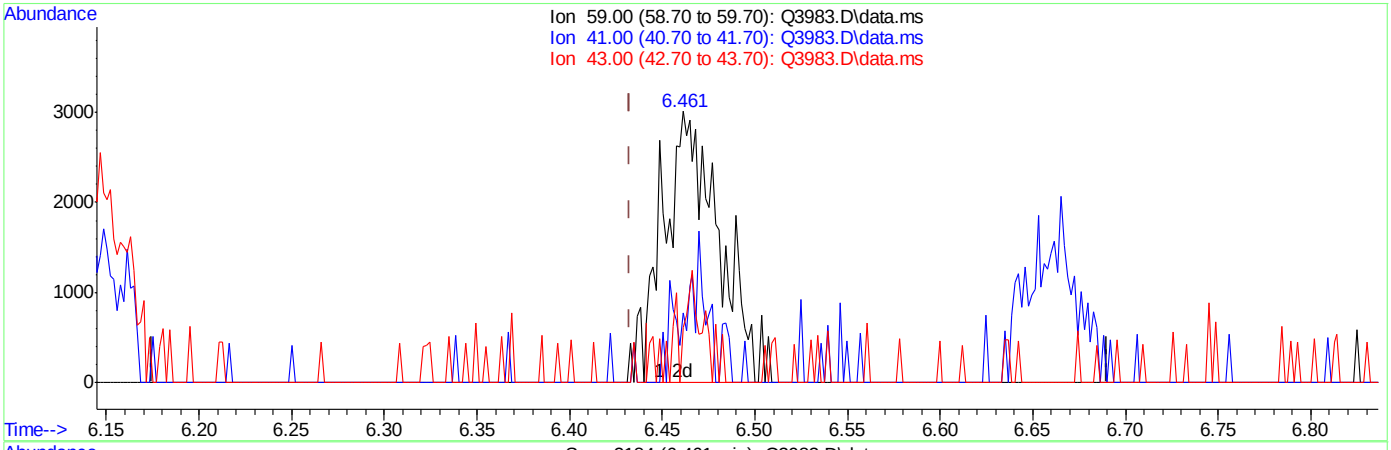
| Ion | Exp% | Act% |
|---|---|---|
| 59.00 | 100 | 100 |
| 41.00 | 20.70 | 0.00# |
| 43.00 | 17.30 | 2.90 |
| 0.00 | 0.00 | 0.00 |

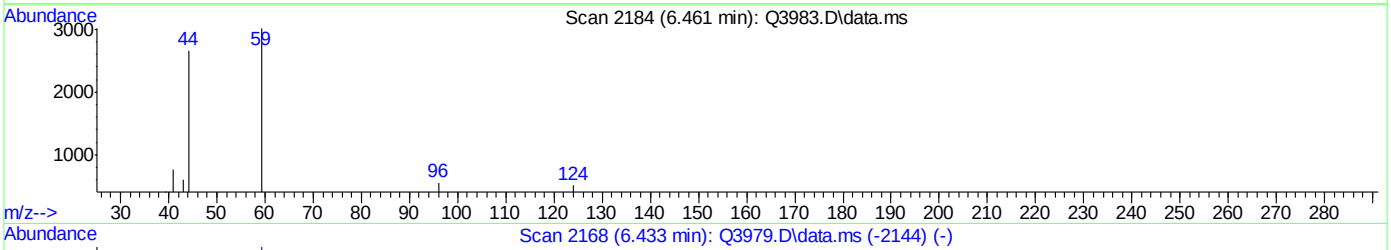
Quantitation Report (Qedit)

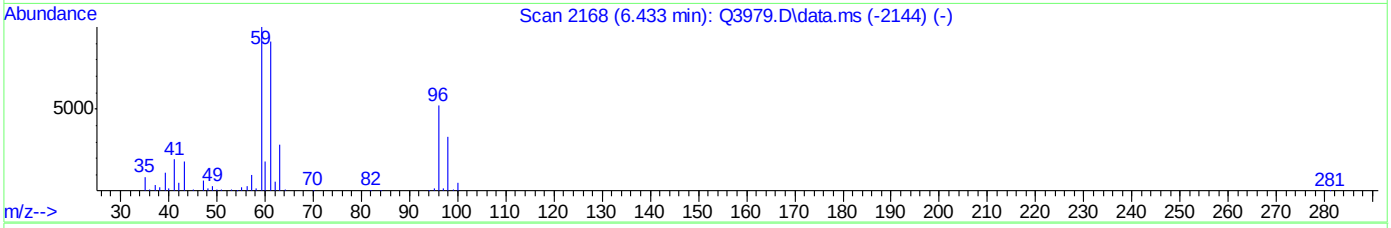
Data Path : C:\msdchem\1\DATA\
Data File : Q3983.D
Acq On : 16 Jul 2007 9:09 pm
Operator : danat
Sample : ic214-0.2 (M210)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 08:21:24 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:21:05 2007
Response via : Initial Calibration






TIC: Q3983.D\data.ms

(22) TERTIARY BUTYL ALCOHOL (m)

6.461min (+0.029) 0.20PPBV m

response 5983

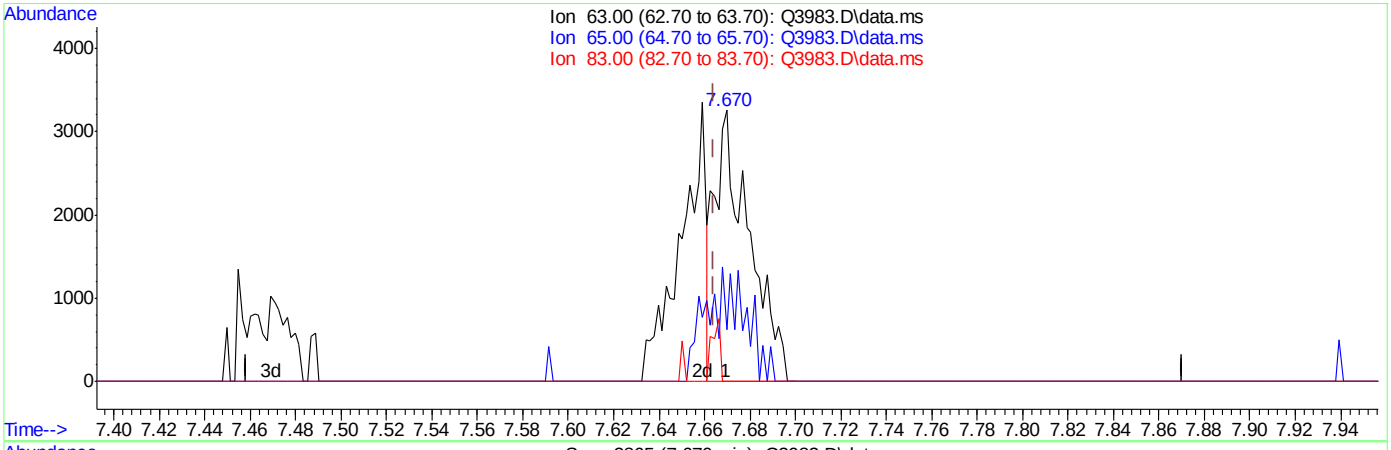
| Ion | Exp% | Act% |
|---|---|---|
| 59.00 | 100 | 100 |
| 41.00 | 20.70 | 0.00# |
| 43.00 | 17.30 | 0.80 |
| 0.00 | 0.00 | 0.00 |

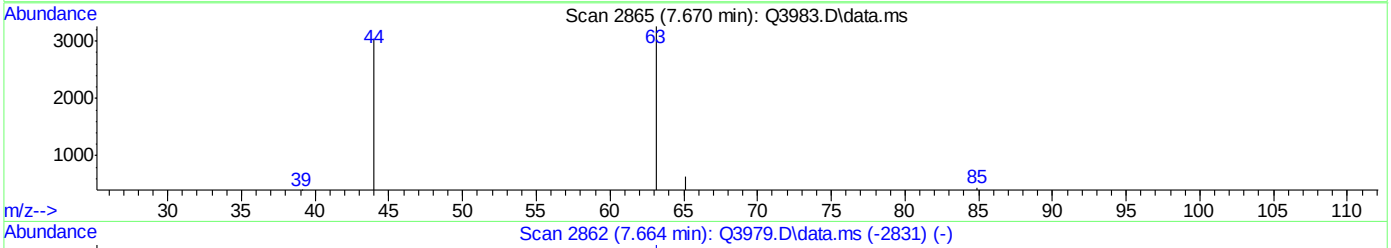
Quantitation Report (Qedit)

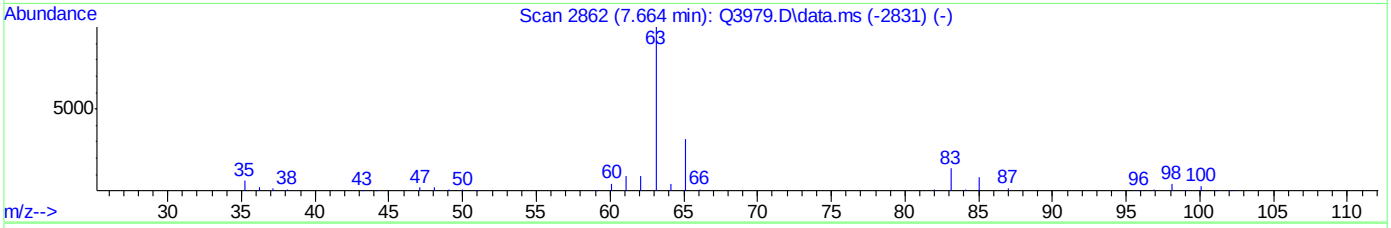
Data Path : C:\msdchem\1\DATA\
Data File : Q3983.D
Acq On : 16 Jul 2007 9:09 pm
Operator : danat
Sample : ic214-0.2 (M210)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 08:21:24 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:21:05 2007
Response via : Initial Calibration






TIC: Q3983.D\data.ms

(27) 1,1-DICHLOROETHANE (m)

7.670min (+0.005) 0.12PPBV

response 3451

| Ion | Exp% | Act% |
|---|---|---|
| 63.00 | 100 | 100 |
| 65.00 | 31.70 | 46.10 |
| 83.00 | 15.00 | 5.56 |
| 0.00 | 0.00 | 0.00 |



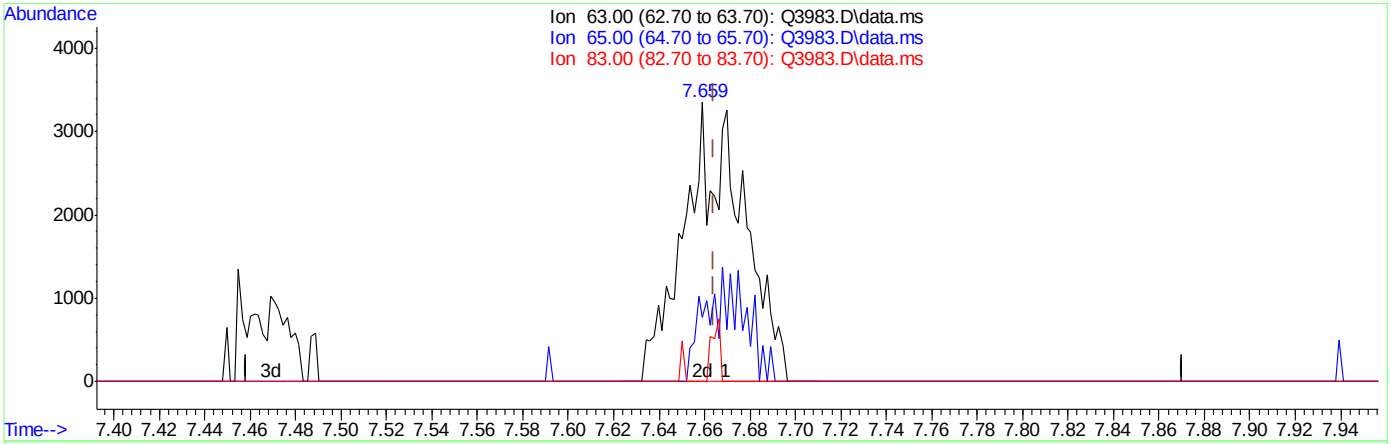
ACCUTEST Laboratories M66578

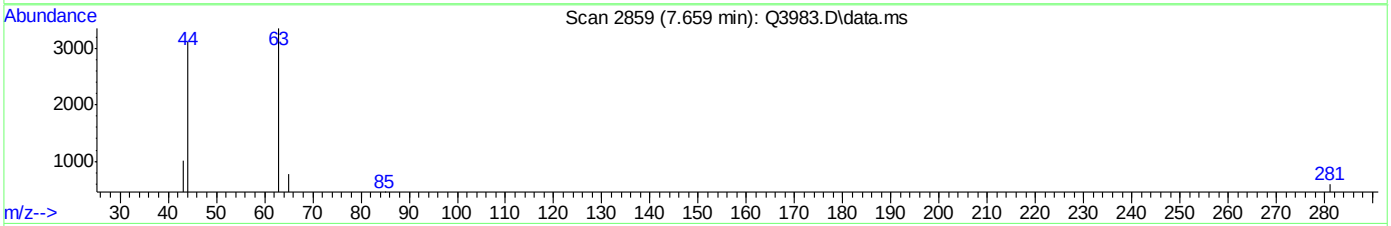
Quantitation Report (Qedit)

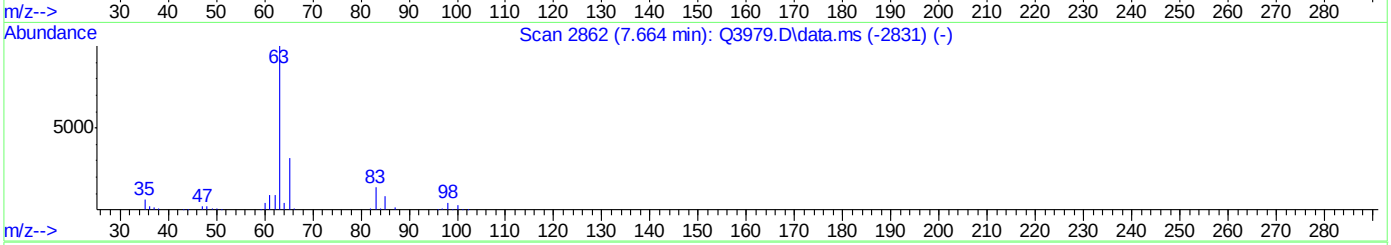
```
Data Path : C:\msdchem\1\DATA\
Data File : Q3983.D
Acq On    : 16 Jul 2007   9:09 pm
Operator  : danat
Sample    : ic214-0.2 (M210)
Misc      : MS13893, MSQ214,,,,,1
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Jul 17 08:21:24 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title  : TO15  by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:21:05 2007
Response via : Initial Calibration
```






TIC: Q3983.D\data.ms

(27) 1,1-DICHLOROETHANE (m)

7.659min (-0.005) 0.22PPBV m

response 5973

| Ion | Exp% | Act% |
|---|---|---|
| 63.00 | 100 | 100 |
| 65.00 | 31.70 | 26.64 |
| 83.00 | 15.00 | 3.21 |
| 0.00 | 0.00 | 0.00 |



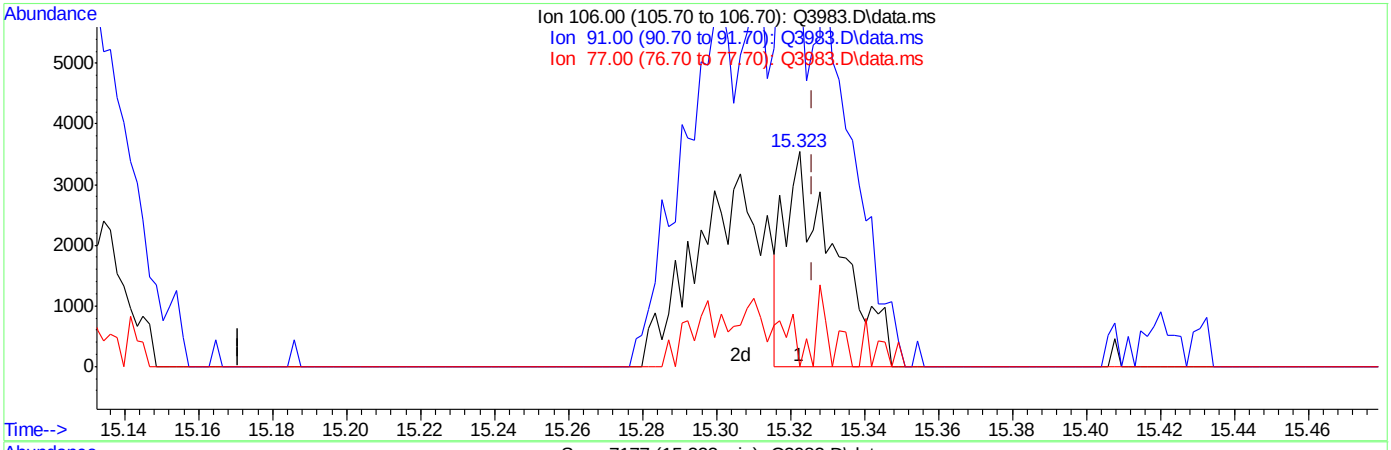
ACCUTEST Laboratories M66578

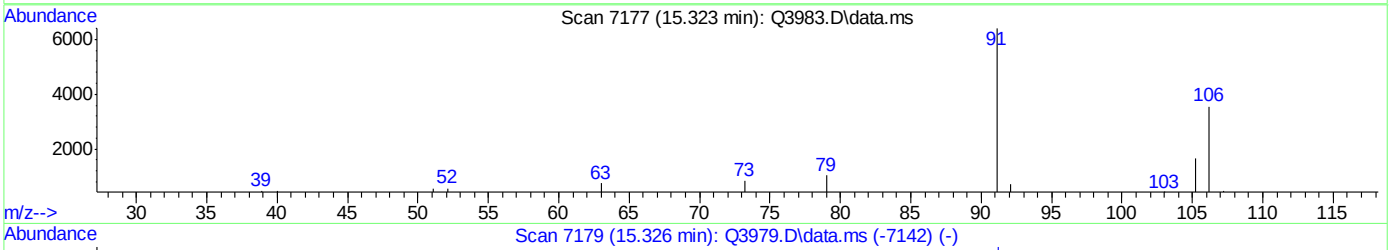
Quantitation Report (Qedit)

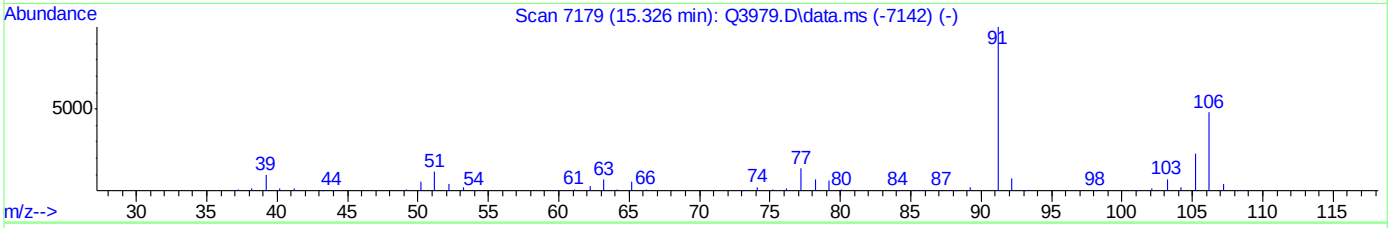
Data Path : C:\msdchem\1\DATA\
Data File : Q3983.D
Acq On : 16 Jul 2007 9:09 pm
Operator : danat
Sample : ic214-0.2 (M210)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 08:21:24 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:21:05 2007
Response via : Initial Calibration






TIC: Q3983.D\data.ms

(56) m,p-XYLENE (m)

15.323min (-0.003) 0.14PPBV

response 3422

| Ion | Exp% | Act% |
|---|---|---|
| 106.00 | 100 | 100 |
| 91.00 | 209.40 | 180.76 |
| 77.00 | 28.30 | 0.00# |
| 0.00 | 0.00 | 0.00 |



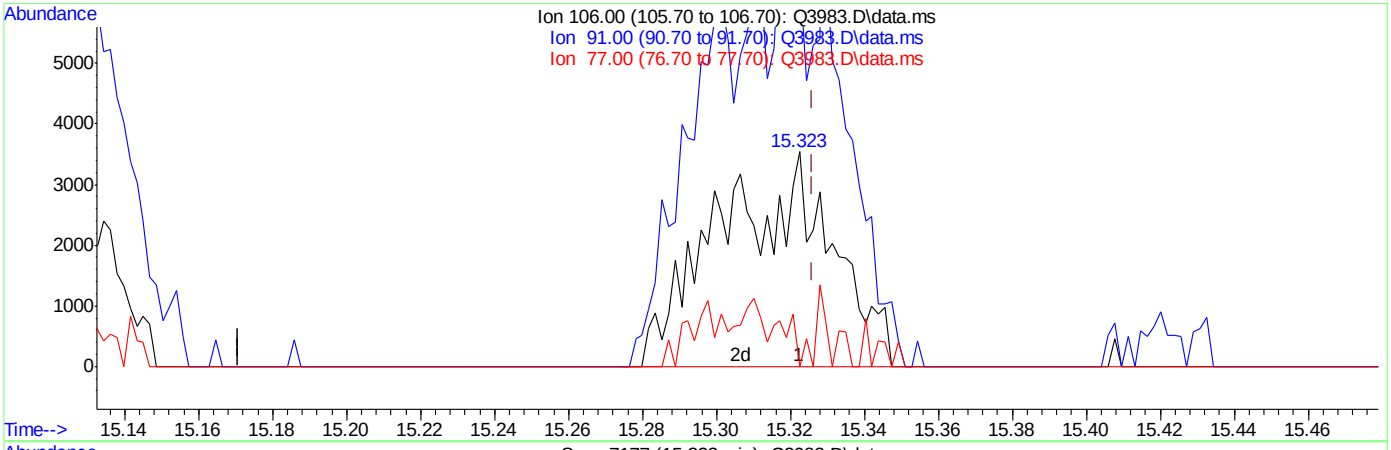
ACCUTEST Laboratories M66578

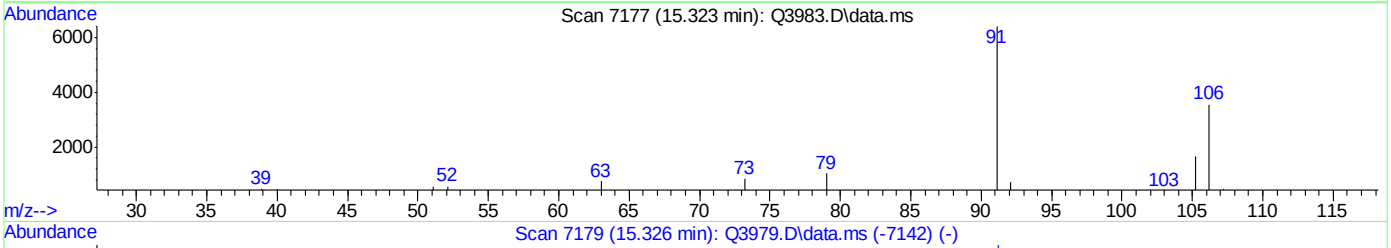
Quantitation Report (Qedit)

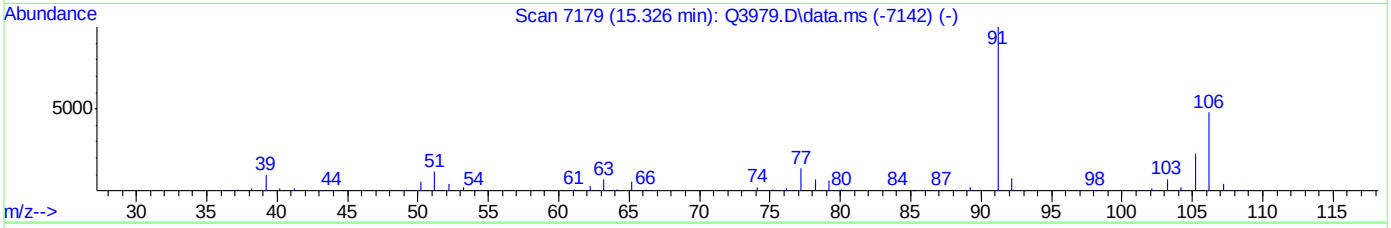
Data Path : C:\msdchem\1\DATA\
Data File : Q3983.D
Acq On : 16 Jul 2007 9:09 pm
Operator : danat
Sample : ic214-0.2 (M210)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 08:21:24 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:21:05 2007
Response via : Initial Calibration






TIC: Q3983.D\data.ms

(56) m,p-XYLENE (m)

15.323min (-0.003) 0.31PPBV m

response 7451

| Ion | Exp% | Act% |
|---|---|---|
| 106.00 | 100 | 100 |
| 91.00 | 209.40 | 180.76 |
| 77.00 | 28.30 | 0.00# |
| 0.00 | 0.00 | 0.00 |



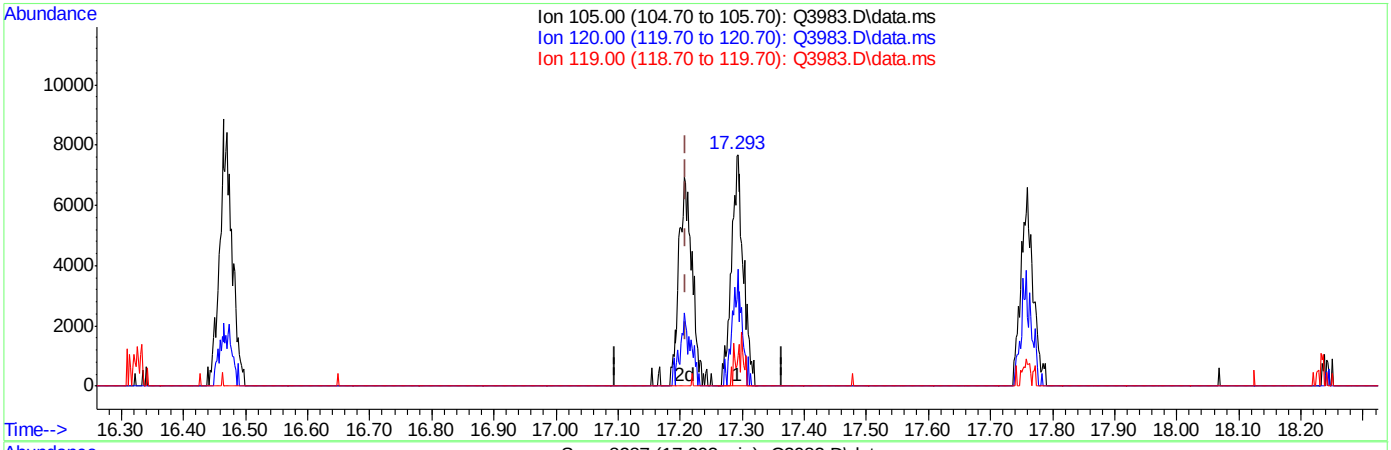
ACCUTEST Laboratories M66578

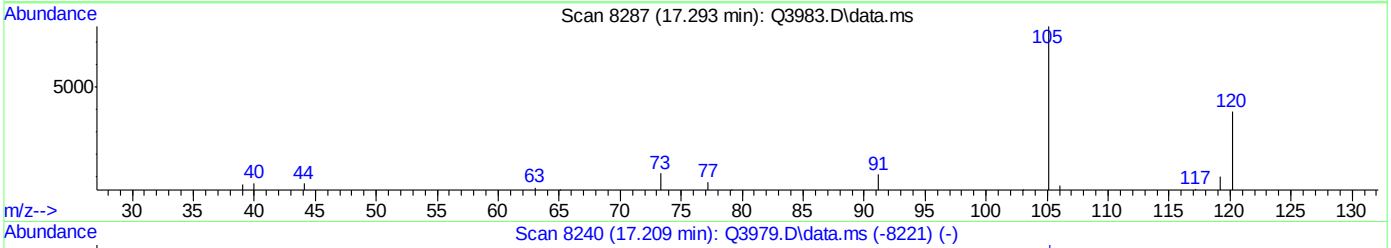
Quantitation Report (Qedit)

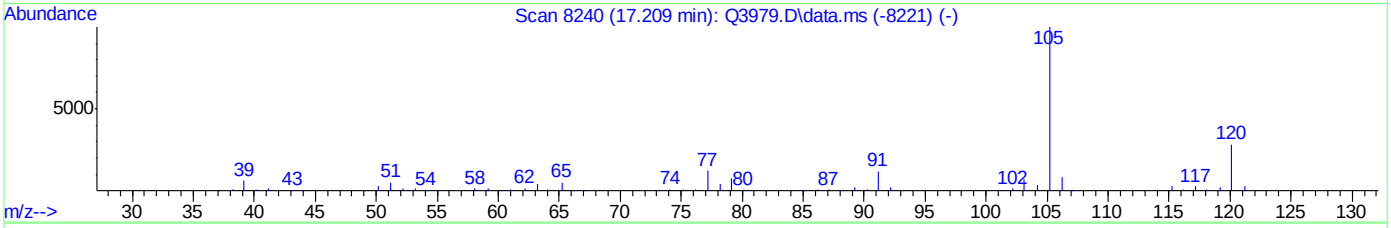
Data Path : C:\msdchem\1\DATA\
Data File : Q3983.D
Acq On : 16 Jul 2007 9:09 pm
Operator : danat
Sample : ic214-0.2 (M210)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 17 08:21:24 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:21:05 2007
Response via : Initial Calibration






TIC: Q3983.D\data.ms

(65) 4-ETHYLTOLUENE (m)

17.293min (+0.084) 0.16PPBV

response 10770

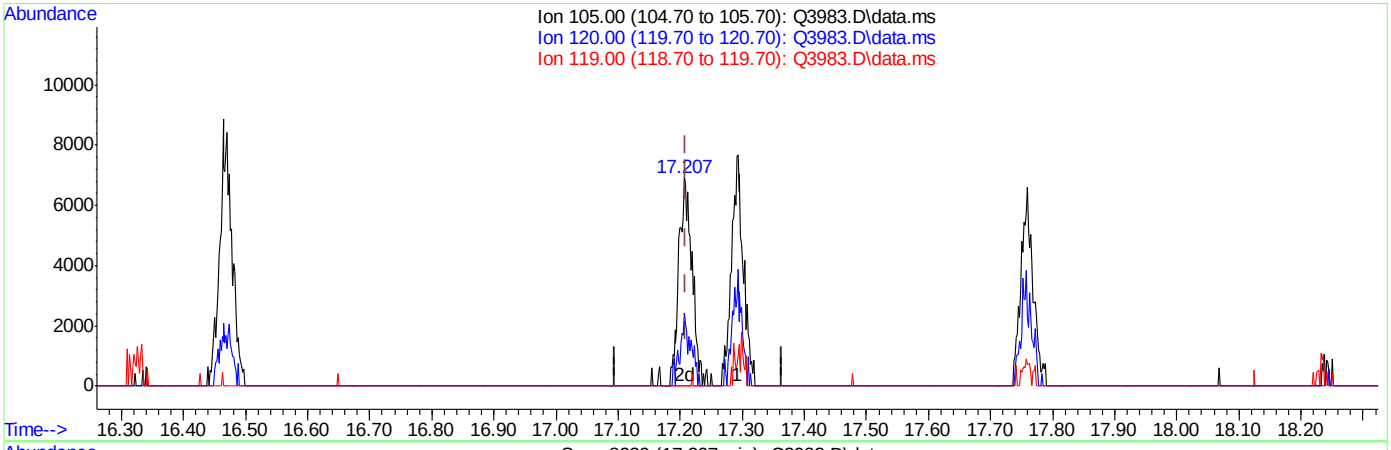
| Ion | Exp% | Act% |
|---|---|---|
| 105.00 | 100 | 100 |
| 120.00 | 27.80 | 40.06 |
| 119.00 | 2.20 | 9.79 |
| 0.00 | 0.00 | 0.00 |

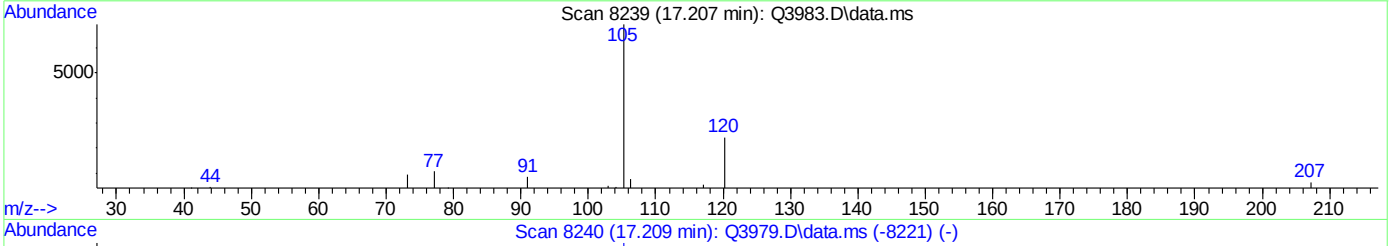
Quantitation Report (Qedit)

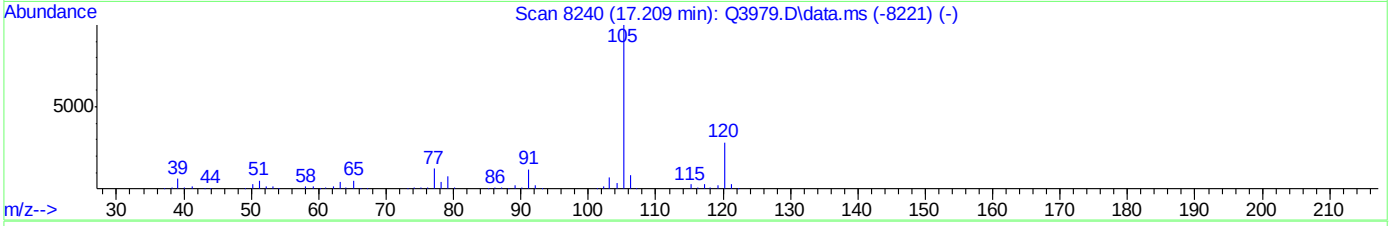
```
Data Path : C:\msdchem\1\DATA\
Data File : Q3983.D
Acq On    : 16 Jul 2007   9:09 pm
Operator  : danat
Sample    : ic214-0.2 (M210)
Misc      : MS13893, MSQ214,,,,,1
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Jul 17 08:21:24 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title  : TO15  by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:21:05 2007
Response via : Initial Calibration
```






TIC: Q3983.D\data.ms

(65) 4-ETHYLTOLUENE (m)

17.207min (-0.002) 0.15PPBV m

response 10144

| Ion | Exp% | Act% |
|---|---|---|
| 105.00 | 100 | 100 |
| 120.00 | 27.80 | 42.53 |
| 119.00 | 2.20 | 10.39 |
| 0.00 | 0.00 | 0.00 |



ACCUTEST Laboratories M66578

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3984a.D
Acq On : 17 Jul 2007 8:45 am
Operator : danat
Sample : cc214-10 (M209)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 14:06:31 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:27:00 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.633 | 128 | 198360 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.463 | 114 | 902151 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.707 | 117 | 781705 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 61) 4-BROMOFLUOROBENZENE | 16.325 | 95 | 309690 | 5.39 | PPBV | 0.00 |
| Spiked Amount 5.000 | Range 57 - 139 | | Recovery = 107.80% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) DICHLORODIFLUOROMETHANE | 4.037 | 85 | 726946 | 10.84 | PPBV | 99 |
| 3) PROPYLENE | 3.966 | 41 | 110064 | 10.51 | PPBV | 93 |
| 4) FREON 114 | 4.296 | 85 | 667194 | 10.74 | PPBV | 99 |
| 5) CHLOROMETHANE | 4.203 | 50 | 152498 | 10.60 | PPBV | 94 |
| 6) VINYL CHLORIDE | 4.420 | 62 | 179540 | 10.62 | PPBV | 98 |
| 7) 1,3-BUTADIENE | 4.560 | 39 | 147875 | 10.72 | PPBV | 96 |
| 8) BROMOMETHANE | 4.834 | 94 | 207354 | 10.86 | PPBV | 98 |
| 9) CHLOROETHANE | 5.009 | 64 | 76397 | 11.41 | PPBV | 99 |
| 10) TRICHLOROFLUOROMETHANE | 5.788 | 101 | 751175 | 11.42 | PPBV | 100 |
| 11) ISOPROPYL ALCOHOL | 5.826 | 45 | 241350 | 9.68 | PPBV | 93 |
| 12) ACETONE | 5.597 | 43 | 216102 | 8.20 | PPBV | 99 |
| 13) PENTANE | 6.143 | 42 | 165867 | 11.51 | PPBV | 99 |
| 14) 1,1-DICHLOROETHYLENE | 6.427 | 96 | 193333 | 10.45 | PPBV | 93 |
| 15) CARBON DISULFIDE | 6.859 | 76 | 540832 | 11.62 | PPBV | 98 |
| 16) ETHANOL | 5.094 | 45 | 39797 | 8.10 | PPBV | 95 |
| 17) BROMOETHENE | 5.370 | 106 | 204817 | 10.74 | PPBV | 99 |
| 18) METHYLENE CHLORIDE | 6.541 | 84 | 164926 | 7.27 | PPBV | 98 |
| 19) 3-CHLOROPROPENE | 6.660 | 39 | 154305 | 11.11 | PPBV | 94 |
| 20) FREON 113 | 6.800 | 151 | 415737 | 9.05 | PPBV | 99 |
| 21) TRANS-1,2-DICHLOROETHY... | 7.467 | 96 | 190404 | 10.74 | PPBV | 97 |
| 22) TERTIARY BUTYL ALCOHOL | 6.427 | 59 | 332679 | 10.66 | PPBV | 98 |
| 23) METHYL TERTIARY BUTYL ... | 7.710 | 73 | 392083 | 9.55 | PPBV | 99 |
| 24) TETRAHYDROFURAN | 9.144 | 42 | 111570 | 9.01 | PPBV | 99 |
| 25) HEXANE | 8.667 | 57 | 207399 | 7.94 | PPBV | 95 |
| 26) VINYL ACETATE | 7.789 | 43 | 284777 | 9.56 | PPBV | 97 |
| 27) 1,1-DICHLOROETHANE | 7.662 | 63 | 312636 | 10.67 | PPBV | 100 |
| 28) METHYL ETHYL KETONE | 8.030 | 43 | 244701 | 9.10 | PPBV | 93 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.470 | 96 | 160232 | 10.23 | PPBV | 99 |
| 30) ETHYL ACETATE | 8.663 | 43 | 404597 | 7.72 | PPBV | 100 |
| 31) CHLOROFORM | 8.750 | 83 | 414026 | 10.21 | PPBV | 99 |
| 32) 1,1,1-TRICHLOROETHANE | 9.711 | 97 | 432762 | 10.57 | PPBV | 99 |
| 33) CARBON TETRACHLORIDE | 10.293 | 117 | 537081 | 11.19 | PPBV | 99 |
| 34) 1,2-DICHLOROETHANE | 9.462 | 62 | 242510 | 10.19 | PPBV | 98 |
| 36) BENZENE | 10.151 | 78 | 381394 | 9.17 | PPBV | 100 |
| 37) CYCLOHEXANE | 10.417 | 84 | 177444 | 9.97 | PPBV | 98 |
| 38) TRICHLOROETHYLENE | 11.145 | 95 | 235474 | 10.11 | PPBV | 99 |
| 39) 1,2-DICHLOROPROPANE | 10.926 | 63 | 131144 | 9.30 | PPBV | 97 |
| 40) BROMODICHLOROMETHANE | 11.106 | 83 | 378433 | 10.23 | PPBV | 97 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.168 | 57 | 644899 | 10.15 | PPBV | 99 |
| 42) 1,4-DIOXANE | 11.134 | 88 | 77597 | 9.46 | PPBV | 92 |
| 43) HEPTANE | 11.406 | 43 | 230882 | 9.90 | PPBV | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3984a.D
Acq On : 17 Jul 2007 8:45 am
Operator : danat
Sample : cc214-10 (M209)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 14:06:31 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:27:00 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.979 | 43 | 283781 | 9.50 | PPBV | 97 |
| 45) cis-1,3-DICHLOROPROPENE | 11.961 | 75 | 217279 | 10.07 | PPBV | 96 |
| 46) TOLUENE | 12.923 | 92 | 266117 | 8.86 | PPBV | 100 |
| 47) trans-1,3-DICHLOROPROPENE | 12.463 | 75 | 174783 | 8.86 | PPBV | 97 |
| 48) 1,1,2-TRICHLOROETHANE | 12.643 | 83 | 142783 | 9.20 | PPBV | 99 |
| 50) 2-HEXANONE | 13.147 | 43 | 235124 | 9.34 | PPBV | 97 |
| 51) TETRACHLOROETHYLENE | 14.057 | 164 | 257364 | 9.86 | PPBV | 99 |
| 52) DIBROMOCHLOROMETHANE | 13.349 | 129 | 368242 | 10.30 | PPBV | 99 |
| 53) 1,2-DIBROMOETHANE | 13.599 | 107 | 267370 | 9.35 | PPBV | 99 |
| 54) CHLOROBENZENE | 14.753 | 112 | 384893 | 9.30 | PPBV | 100 |
| 55) ETHYLBENZENE | 15.129 | 91 | 619158 | 9.48 | PPBV | 99 |
| 56) m,p-XYLENE | 15.326 | 106 | 483299 | 19.58 | PPBV | 97 |
| 57) o-XYLENE | 15.825 | 106 | 244339 | 9.73 | PPBV | 98 |
| 58) STYRENE | 15.704 | 104 | 359962 | 10.24 | PPBV | 99 |
| 59) NONANE | 16.025 | 43 | 326579 | 10.19 | PPBV | 100 |
| 60) BROMOFORM | 15.424 | 173 | 356220 | 9.82 | PPBV | 100 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.810 | 83 | 380959 | 9.69 | PPBV | 98 |
| 63) ISOPROPYLBENZENE | 16.467 | 105 | 762304 | 9.91 | PPBV | 99 |
| 64) 2-CHLOROTOLUENE | 17.016 | 91 | 560897 | 10.15 | PPBV | 99 |
| 65) 4-ETHYLTOLUENE | 17.211 | 105 | 672129 | 9.76 | PPBV | 100 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.292 | 105 | 682672 | 10.21 | PPBV | 99 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.756 | 105 | 661253 | 10.74 | PPBV | 99 |
| 68) m-DICHLOROBENZENE | 17.942 | 146 | 439257 | 10.19 | PPBV | 100 |
| 69) BENZYL CHLORIDE | 17.917 | 91 | 370322 | 10.14 | PPBV | 100 |
| 70) p-DICHLOROBENZENE | 18.013 | 146 | 441700 | 10.61 | PPBV | 99 |
| 71) o-DICHLOROBENZENE | 18.402 | 146 | 402440 | 9.81 | PPBV | 99 |
| 72) HEXACHLOROBUTADIENE | 20.796 | 225 | 283891 | 14.09 | PPBV | 100 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.306 | 180 | 191567 | 13.19 | PPBV | 99 |

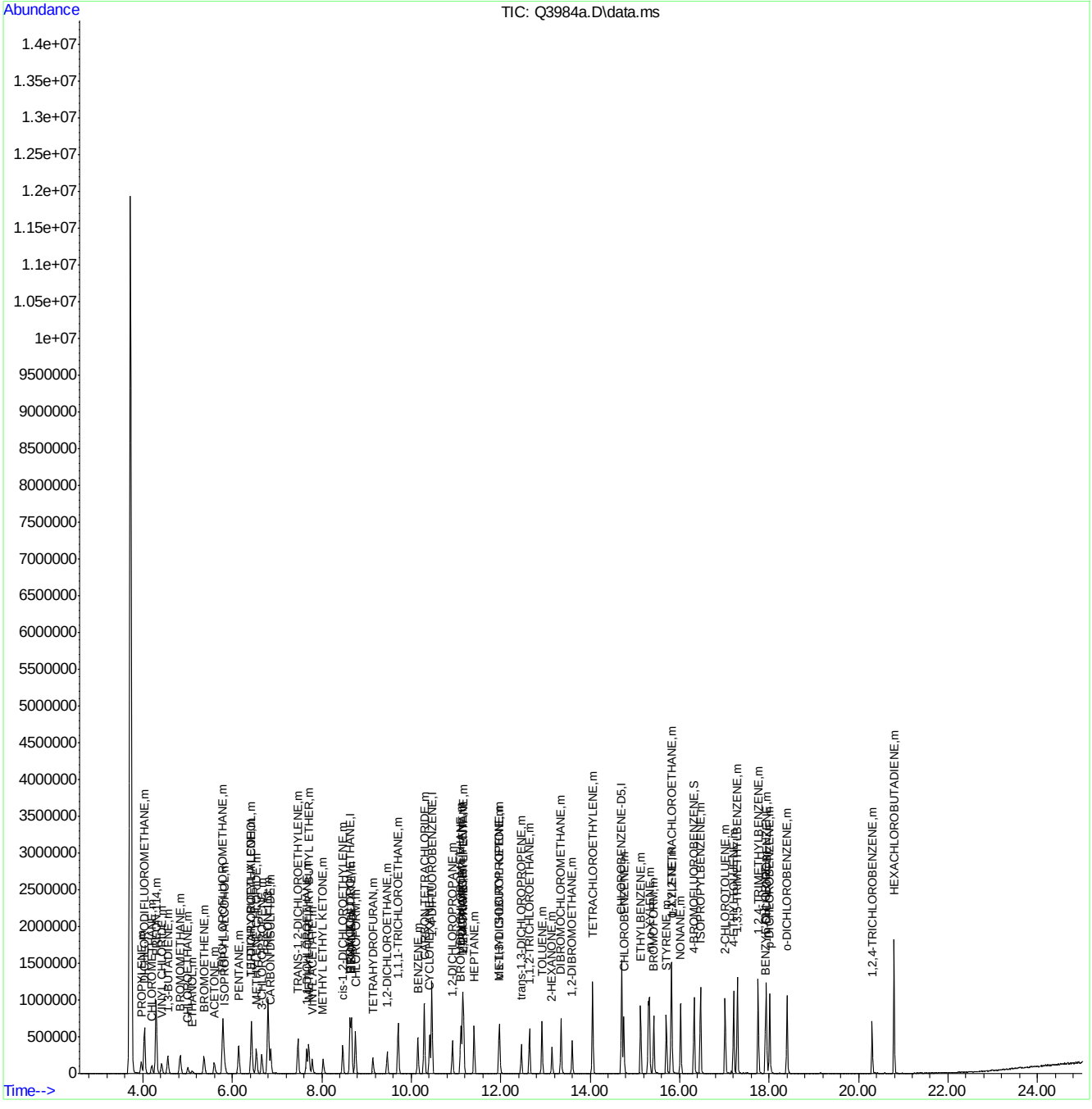
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3984a.D
Acq On : 17 Jul 2007 8:45 am
Operator : danat
Sample : cc214-10 (M209)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 14:06:31 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:27:00 2007
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3984.D
Acq On : 17 Jul 2007 8:45 am
Operator : danat
Sample : icv214-10 (M209)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 14:05:15 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:27:00 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.633 | 128 | 198360 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.463 | 114 | 902151 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.707 | 117 | 781705 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 61) 4-BROMOFLUOROBENZENE | 16.325 | 95 | 309690 | 5.39 | PPBV | 0.00 |
| Spiked Amount 5.000 | Range 57 - 139 | | Recovery = 107.80% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) DICHLORODIFLUOROMETHANE | 4.037 | 85 | 726946 | 10.84 | PPBV | 99 |
| 3) PROPYLENE | 3.966 | 41 | 110064 | 10.51 | PPBV | 93 |
| 4) FREON 114 | 4.296 | 85 | 667194 | 10.74 | PPBV | 99 |
| 5) CHLOROMETHANE | 4.203 | 50 | 152498 | 10.60 | PPBV | 94 |
| 6) VINYL CHLORIDE | 4.420 | 62 | 179540 | 10.62 | PPBV | 98 |
| 7) 1,3-BUTADIENE | 4.560 | 39 | 147875 | 10.72 | PPBV | 96 |
| 8) BROMOMETHANE | 4.834 | 94 | 207354 | 10.86 | PPBV | 98 |
| 9) CHLOROETHANE | 5.009 | 64 | 76397 | 11.41 | PPBV | 99 |
| 10) TRICHLOROFLUOROMETHANE | 5.788 | 101 | 751175 | 11.42 | PPBV | 100 |
| 11) ISOPROPYL ALCOHOL | 5.826 | 45 | 241350 | 9.68 | PPBV | 93 |
| 12) ACETONE | 5.597 | 43 | 216102 | 8.20 | PPBV | 99 |
| 13) PENTANE | 6.143 | 42 | 165867 | 11.51 | PPBV | 99 |
| 14) 1,1-DICHLOROETHYLENE | 6.427 | 96 | 193333 | 10.45 | PPBV | 93 |
| 15) CARBON DISULFIDE | 6.859 | 76 | 540832 | 11.62 | PPBV | 98 |
| 16) ETHANOL | 5.094 | 45 | 39797 | 8.10 | PPBV | 95 |
| 17) BROMOETHENE | 5.370 | 106 | 204817 | 10.74 | PPBV | 99 |
| 18) METHYLENE CHLORIDE | 6.541 | 84 | 164926 | 7.27 | PPBV | 98 |
| 19) 3-CHLOROPROPENE | 6.660 | 39 | 154305 | 11.11 | PPBV | 94 |
| 20) FREON 113 | 6.800 | 151 | 415737 | 9.05 | PPBV | 99 |
| 21) TRANS-1,2-DICHLOROETHY... | 7.467 | 96 | 190404 | 10.74 | PPBV | 97 |
| 22) TERTIARY BUTYL ALCOHOL | 6.427 | 59 | 332679 | 10.66 | PPBV | 98 |
| 23) METHYL TERTIARY BUTYL ... | 7.710 | 73 | 392083 | 9.55 | PPBV | 99 |
| 24) TETRAHYDROFURAN | 9.144 | 42 | 111570 | 9.01 | PPBV | 99 |
| 25) HEXANE | 8.667 | 57 | 207399 | 7.94 | PPBV | 95 |
| 26) VINYL ACETATE | 7.789 | 43 | 284777 | 9.56 | PPBV | 97 |
| 27) 1,1-DICHLOROETHANE | 7.662 | 63 | 312636 | 10.67 | PPBV | 100 |
| 28) METHYL ETHYL KETONE | 8.030 | 43 | 244701 | 9.10 | PPBV | 93 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.470 | 96 | 160232 | 10.23 | PPBV | 99 |
| 30) ETHYL ACETATE | 8.663 | 43 | 404597 | 7.72 | PPBV | 100 |
| 31) CHLOROFORM | 8.750 | 83 | 414026 | 10.21 | PPBV | 99 |
| 32) 1,1,1-TRICHLOROETHANE | 9.711 | 97 | 432762 | 10.57 | PPBV | 99 |
| 33) CARBON TETRACHLORIDE | 10.293 | 117 | 537081 | 11.19 | PPBV | 99 |
| 34) 1,2-DICHLOROETHANE | 9.462 | 62 | 242510 | 10.19 | PPBV | 98 |
| 36) BENZENE | 10.151 | 78 | 381394 | 9.17 | PPBV | 100 |
| 37) CYCLOHEXANE | 10.417 | 84 | 177444 | 9.97 | PPBV | 98 |
| 38) TRICHLOROETHYLENE | 11.145 | 95 | 235474 | 10.11 | PPBV | 99 |
| 39) 1,2-DICHLOROPROPANE | 10.926 | 63 | 131144 | 9.30 | PPBV | 97 |
| 40) BROMODICHLOROMETHANE | 11.106 | 83 | 378433 | 10.23 | PPBV | 97 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.168 | 57 | 644899 | 10.15 | PPBV | 99 |
| 42) 1,4-DIOXANE | 11.134 | 88 | 77597 | 9.46 | PPBV | 92 |
| 43) HEPTANE | 11.406 | 43 | 230882 | 9.90 | PPBV | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3984.D
Acq On : 17 Jul 2007 8:45 am
Operator : danat
Sample : icv214-10 (M209)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 14:05:15 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:27:00 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.979 | 43 | 283781 | 9.50 | PPBV | 97 |
| 45) cis-1,3-DICHLOROPROPENE | 11.961 | 75 | 217279 | 10.07 | PPBV | 96 |
| 46) TOLUENE | 12.923 | 92 | 266117 | 8.86 | PPBV | 100 |
| 47) trans-1,3-DICHLOROPROPENE | 12.463 | 75 | 174783 | 8.86 | PPBV | 97 |
| 48) 1,1,2-TRICHLOROETHANE | 12.643 | 83 | 142783 | 9.20 | PPBV | 99 |
| 50) 2-HEXANONE | 13.147 | 43 | 235124 | 9.34 | PPBV | 97 |
| 51) TETRACHLOROETHYLENE | 14.057 | 164 | 257364 | 9.86 | PPBV | 99 |
| 52) DIBROMOCHLOROMETHANE | 13.349 | 129 | 368242 | 10.30 | PPBV | 99 |
| 53) 1,2-DIBROMOETHANE | 13.599 | 107 | 267370 | 9.35 | PPBV | 99 |
| 54) CHLOROBENZENE | 14.753 | 112 | 384893 | 9.30 | PPBV | 100 |
| 55) ETHYLBENZENE | 15.129 | 91 | 619158 | 9.48 | PPBV | 99 |
| 56) m,p-XYLENE | 15.326 | 106 | 483299 | 19.58 | PPBV | 97 |
| 57) o-XYLENE | 15.825 | 106 | 244339 | 9.73 | PPBV | 98 |
| 58) STYRENE | 15.704 | 104 | 359962 | 10.24 | PPBV | 99 |
| 59) NONANE | 16.025 | 43 | 326579 | 10.19 | PPBV | 100 |
| 60) BROMOFORM | 15.424 | 173 | 356220 | 9.82 | PPBV | 100 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.810 | 83 | 380959 | 9.69 | PPBV | 98 |
| 63) ISOPROPYLBENZENE | 16.467 | 105 | 762304 | 9.91 | PPBV | 99 |
| 64) 2-CHLOROTOLUENE | 17.016 | 91 | 560897 | 10.15 | PPBV | 99 |
| 65) 4-ETHYLTOLUENE | 17.211 | 105 | 672129 | 9.76 | PPBV | 100 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.292 | 105 | 682672 | 10.21 | PPBV | 99 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.756 | 105 | 661253 | 10.74 | PPBV | 99 |
| 68) m-DICHLOROBENZENE | 17.942 | 146 | 439257 | 10.19 | PPBV | 100 |
| 69) BENZYL CHLORIDE | 17.917 | 91 | 370322 | 10.14 | PPBV | 100 |
| 70) p-DICHLOROBENZENE | 18.013 | 146 | 441700 | 10.61 | PPBV | 99 |
| 71) o-DICHLOROBENZENE | 18.402 | 146 | 402440 | 9.81 | PPBV | 99 |
| 72) HEXACHLOROBUTADIENE | 20.796 | 225 | 283891 | 14.09 | PPBV | 100 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.306 | 180 | 191567 | 13.19 | PPBV | 99 |

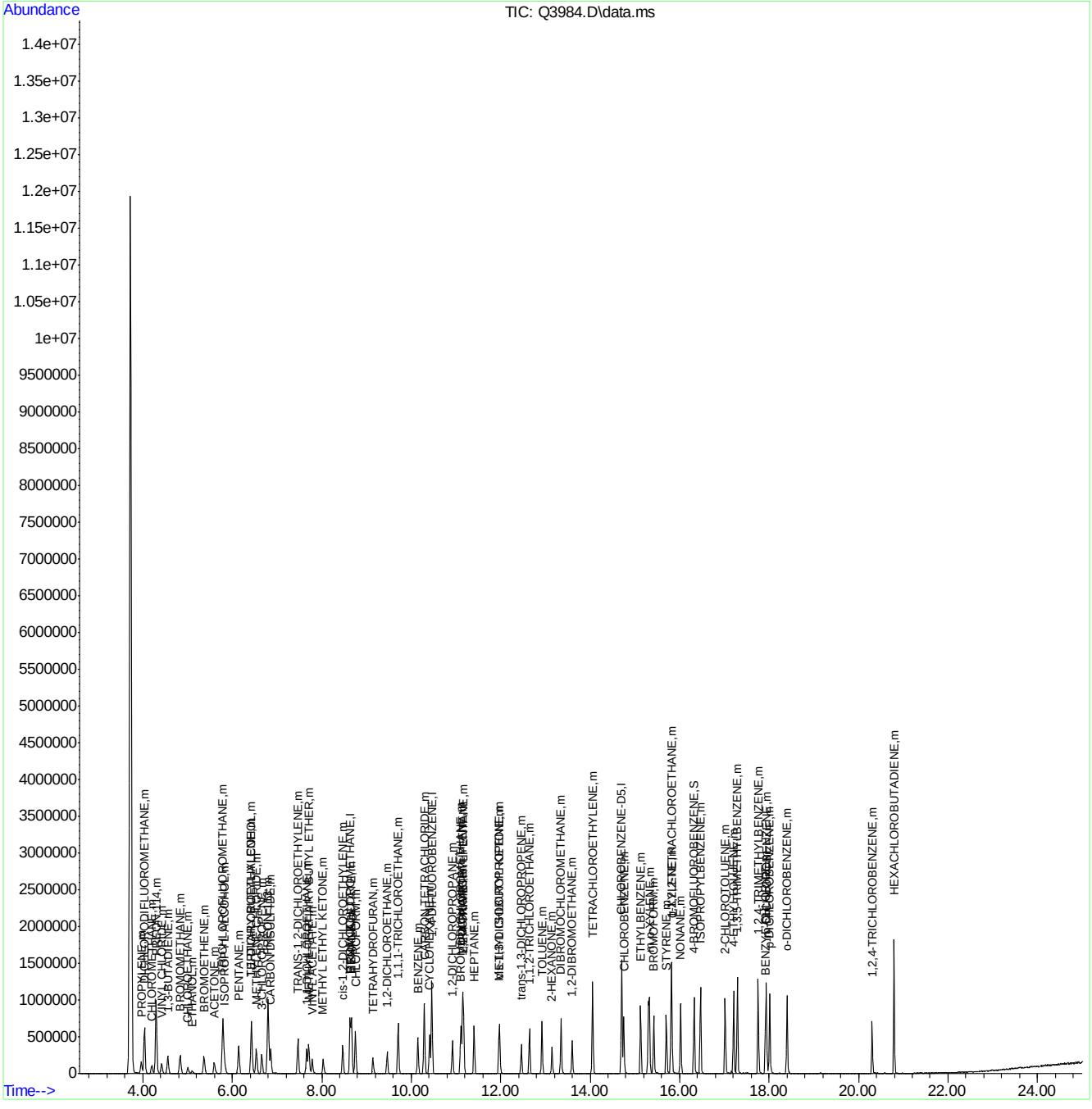
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q3984.D
Acq On : 17 Jul 2007 8:45 am
Operator : danat
Sample : icv214-10 (M209)
Misc : MS13893, MSQ214,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 14:05:15 2007
Quant Method : C:\msdchem\1\METHODS\Q071607T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Tue Jul 17 08:27:00 2007
Response via : Initial Calibration





Manual Integrations APPROVED (compounds with "m" flag)
Philip Bassignani
08/01/07 16:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4139.D
Acq On : 27 Jul 2007 12:17 pm
Operator : danat
Sample : ic220-40 (M168)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 12:43:29 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 11:38:44 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.633 | 128 | 302451 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.463 | 114 | 1431470 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.707 | 117 | 1253052 | 10.00 | PPBV | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.325 | 95 | 462961 | 4.97 | PPBV | 0.00 |

Spiked Amount 5.000 Range 57 - 139 Recovery = 99.40%

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 2) DICHLORODIFLUOROMETHANE | 4.033 | 85 | 5250748 | 41.36 | PPBV | 100 |
| 3) PROPYLENE | 3.962 | 41 | 847684 | 44.22 | PPBV | 97 |
| 4) FREON 114 | 4.296 | 85 | 4832234 | 45.68 | PPBV | 97 |
| 5) CHLOROMETHANE | 4.198 | 50 | 1122949 | 48.48 | PPBV | 100 |
| 6) VINYL CHLORIDE | 4.420 | 62 | 1308424 | 44.86 | PPBV | 99 |
| 7) 1,3-BUTADIENE | 4.557 | 39 | 1147971 | 50.32 | PPBV | 99 |
| 8) BROMOMETHANE | 4.833 | 94 | 1515190 | 45.19 | PPBV | 100 |
| 9) CHLOROETHANE | 5.002 | 64 | 593445 | 53.37 | PPBV | 97 |
| 10) TRICHLOROFLUOROMETHANE | 5.785 | 101 | 5388494 | 40.89 | PPBV | 100 |
| 11) ISOPROPYL ALCOHOL | 5.822 | 45 | 1783497 | 31.31 | PPBV | 96 |
| 12) ACETONE | 5.590 | 43 | 1846038 | 32.99 | PPBV | 97 |
| 13) PENTANE | 6.141 | 42 | 1248642 | 42.12 | PPBV | 97 |
| 14) 1,1-DICHLOROETHYLENE | 6.424 | 96 | 1550876 | 42.77 | PPBV | 95 |
| 15) CARBON DISULFIDE | 6.855 | 76 | 4414436 | 47.45 | PPBV | 98 |
| 16) ETHANOL | 5.094 | 45 | 303335 | 37.55 | PPBV | 99 |
| 17) BROMOETHENE | 5.366 | 106 | 1481414 | 47.47 | PPBV | 100 |
| 18) METHYLENE CHLORIDE | 6.535 | 84 | 1376822 | 21.07 | PPBV | 95 |
| 19) 3-CHLOROPROPENE | 6.656 | 39 | 1292727 | 50.70 | PPBV | 96 |
| 20) FREON 113 | 6.796 | 151 | 3225950 | 39.60 | PPBV | 95 |
| 21) TRANS-1,2-DICHLOROETHY... | 7.467 | 96 | 1334171 | 37.18 | PPBV | 96 |
| 22) TERTIARY BUTYL ALCOHOL | 6.429 | 59 | 1223026 | 19.36 | PPBV | 94 |
| 23) METHYL TERTIARY BUTYL ... | 7.703 | 73 | 2905924 | 33.34 | PPBV | 99 |
| 24) TETRAHYDROFURAN | 9.134 | 42 | 1033823 | 43.96 | PPBV | 99 |
| 25) HEXANE | 8.665 | 57 | 1801928 | 40.79 | PPBV | 95 |
| 26) VINYL ACETATE | 7.787 | 43 | 2272829 | 39.71 | PPBV | 98 |
| 27) 1,1-DICHLOROETHANE | 7.661 | 63 | 2537190 | 40.97 | PPBV | 100 |
| 28) METHYL ETHYL KETONE | 8.026 | 43 | 2133758 | 41.73 | PPBV | 99 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.470 | 96 | 1381736 | 48.49 | PPBV | 95 |
| 30) ETHYL ACETATE | 8.663 | 43 | 3775148 | 43.67 | PPBV | 99 |
| 31) CHLOROFORM | 8.754 | 83 | 3651832 | 46.31 | PPBV | 98 |
| 32) 1,1,1-TRICHLOROETHANE | 9.707 | 97 | 3879974 | 47.14 | PPBV | 99 |
| 33) CARBON TETRACHLORIDE | 10.291 | 117 | 4470553 | 47.98 | PPBV | 98 |
| 34) 1,2-DICHLOROETHANE | 9.464 | 62 | 2307177 | 45.64 | PPBV | 99 |
| 36) BENZENE | 10.147 | 78 | 3813066 | 47.57 | PPBV | 99 |
| 37) CYCLOHEXANE | 10.412 | 84 | 1594034 | 44.42 | PPBV | 99 |
| 38) TRICHLOROETHYLENE | 11.146 | 95 | 2285396 | 49.39 | PPBV | 99 |
| 39) 1,2-DICHLOROPROPANE | 10.921 | 63 | 1265378 | 45.10 | PPBV | 94 |
| 40) BROMODICHLOROMETHANE | 11.107 | 83 | 3757471 | 49.91 | PPBV | 98 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.171 | 57 | 6274673 | 49.92 | PPBV | 98 |
| 42) 1,4-DIOXANE | 11.130 | 88 | 704547 | 48.14 | PPBV | 93 |
| 43) HEPTANE | 11.407 | 43 | 2291923 | 50.00 | PPBV | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4139.D
Acq On : 27 Jul 2007 12:17 pm
Operator : danat
Sample : ic220-40 (M168)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 12:43:29 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 11:38:44 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.975 | 43 | 2758256 | 50.15 PPBV | 97 |
| 45) cis-1,3-DICHLOROPROPENE | 11.963 | 75 | 2117264 | 54.61 PPBV | 89 |
| 46) TOLUENE | 12.925 | 92 | 2638888 | 49.45 PPBV | 99 |
| 47) trans-1,3-DICHLOROPROPENE | 12.461 | 75 | 1999718m | 60.75 PPBV | |
| 48) 1,1,2-TRICHLOROETHANE | 12.646 | 83 | 1385875 | 49.77 PPBV | 100 |
| 50) 2-HEXANONE | 13.147 | 43 | 2392518 | 55.86 PPBV | 94 |
| 51) TETRACHLOROETHYLENE | 14.057 | 164 | 2342980 | 33.80 PPBV | 98 |
| 52) DIBROMOCHLOROMETHANE | 13.351 | 129 | 3553934 | 53.25 PPBV | 99 |
| 53) 1,2-DIBROMOETHANE | 13.601 | 107 | 2534180 | 50.91 PPBV | 100 |
| 54) CHLOROBENZENE | 14.753 | 112 | 3670662 | 50.60 PPBV | 99 |
| 55) ETHYLBENZENE | 15.131 | 91 | 5918031 | 50.75 PPBV | 100 |
| 56) m,p-XYLENE | 15.329 | 106 | 4394629 | 101.60 PPBV | 95 |
| 57) o-XYLENE | 15.826 | 106 | 2107269 | 48.83 PPBV | 99 |
| 58) STYRENE | 15.706 | 104 | 3102736 | 62.83 PPBV | 99 |
| 59) NONANE | 16.027 | 43 | 3131563 | 53.31 PPBV | 100 |
| 60) BROMOFORM | 15.425 | 173 | 3325657 | 56.68 PPBV | 99 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.816 | 83 | 3281597 | 51.24 PPBV | 98 |
| 63) ISOPROPYLBENZENE | 16.469 | 105 | 5923365 | 44.77 PPBV | 99 |
| 64) 2-CHLOROTOLUENE | 17.019 | 91 | 4434025 | 48.69 PPBV | 99 |
| 65) 4-ETHYLTOLUENE | 17.209 | 105 | 4283849 | 39.49 PPBV | 99 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.294 | 105 | 3826645 | 35.56 PPBV | 99 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.759 | 105 | 3692472 | 39.57 PPBV | 100 |
| 68) m-DICHLOROBENZENE | 17.942 | 146 | 2338559 | 45.59 PPBV | 98 |
| 69) BENZYL CHLORIDE | 17.921 | 91 | 2500991 | 76.23 PPBV | 98 |
| 70) p-DICHLOROBENZENE | 18.015 | 146 | 2294864 | 50.78 PPBV | 97 |
| 71) o-DICHLOROBENZENE | 18.402 | 146 | 2328336 | 46.23 PPBV | 98 |
| 72) HEXACHLOROBUTADIENE | 20.796 | 225 | 811841 | 17.62 PPBV | 100 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.302 | 180 | 694895 | 67.96 PPBV | 97 |

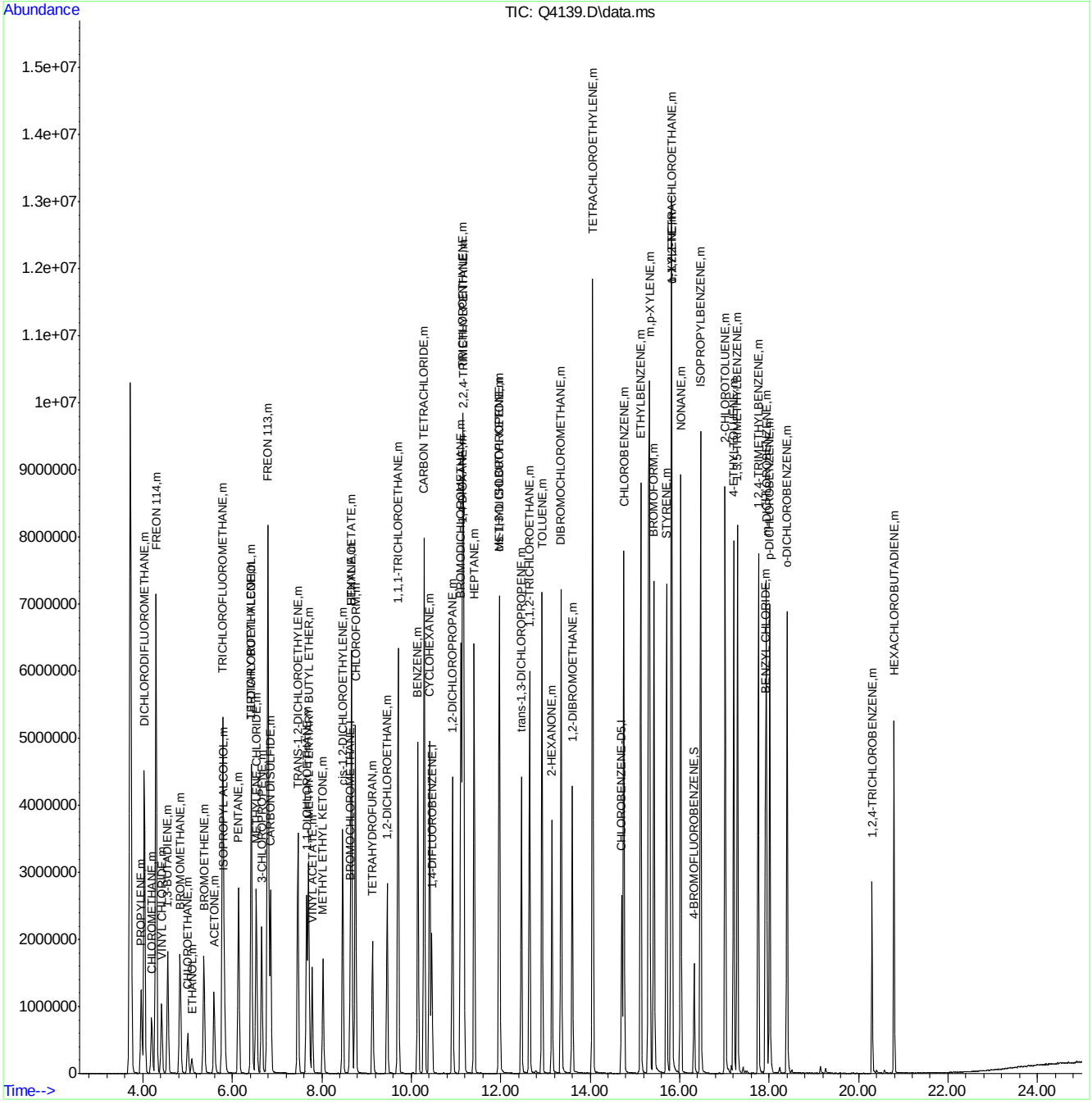
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4139.D
Acq On : 27 Jul 2007 12:17 pm
Operator : danat
Sample : ic220-40 (M168)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 12:43:29 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 11:38:44 2007
Response via : Initial Calibration









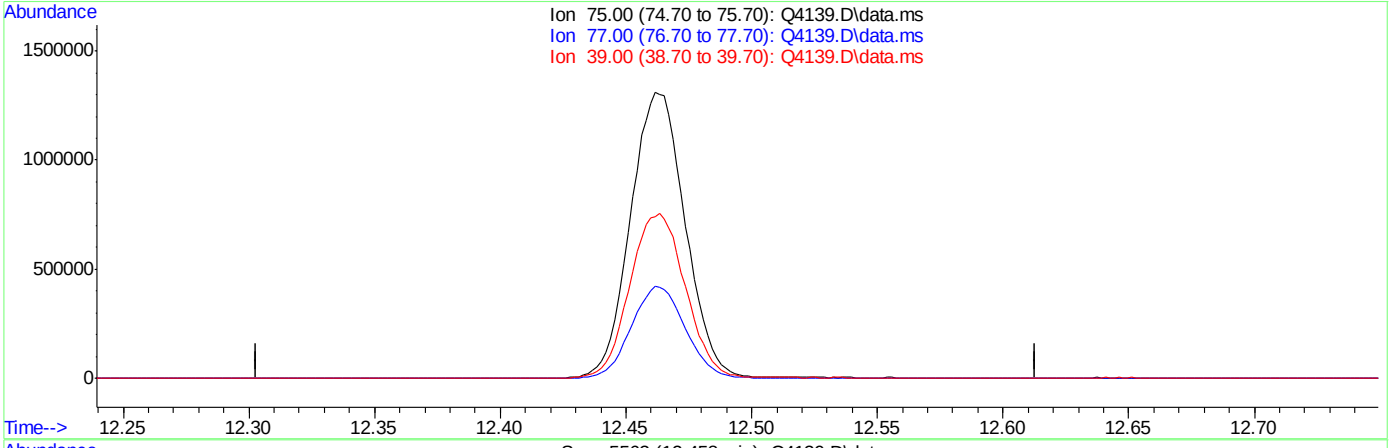

ACCUTEST Laboratories M66578

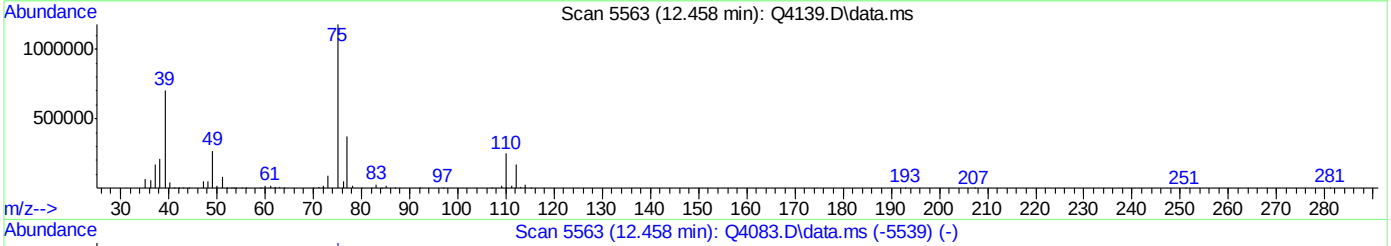
Quantitation Report (Qedit)

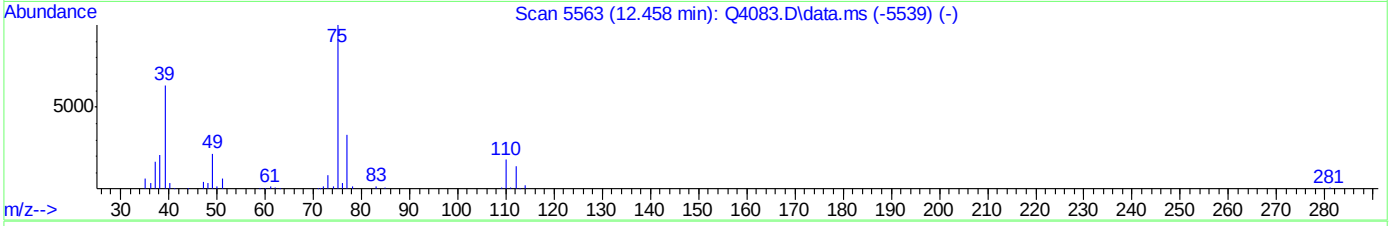
Data Path : C:\msdchem\1\DATA\
Data File : Q4139.D
Acq On : 27 Jul 2007 12:17 pm
Operator : danat
Sample : ic220-40 (M168)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 12:42:16 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 11:38:44 2007
Response via : Initial Calibration






TIC: Q4139.D\data.ms

(47) trans-1,3-DICHLOROPROPENE (m)

12.458min (-12.458) 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 75.00 | 100 | 0.00 |
| 77.00 | 30.90 | 0.00# |
| 39.00 | 62.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |



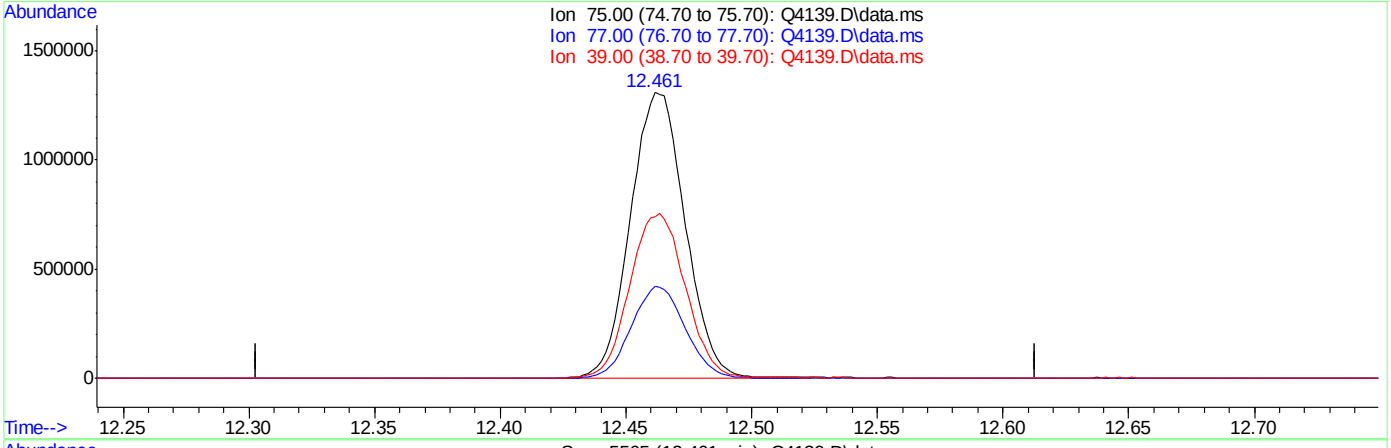
ACCUTEST Laboratories M66578

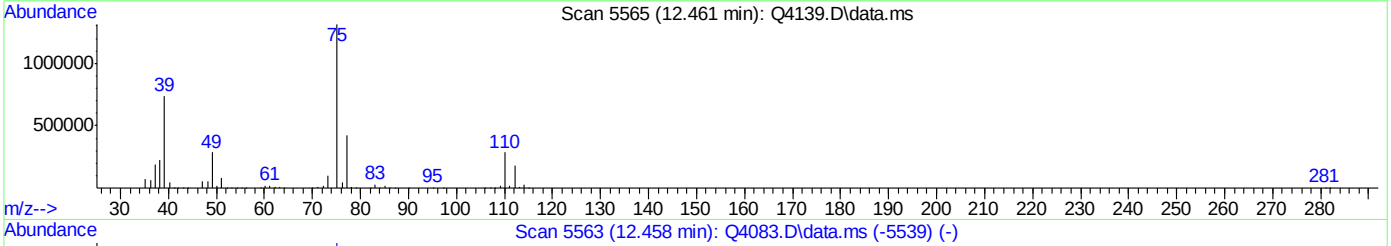
Quantitation Report (Qedit)

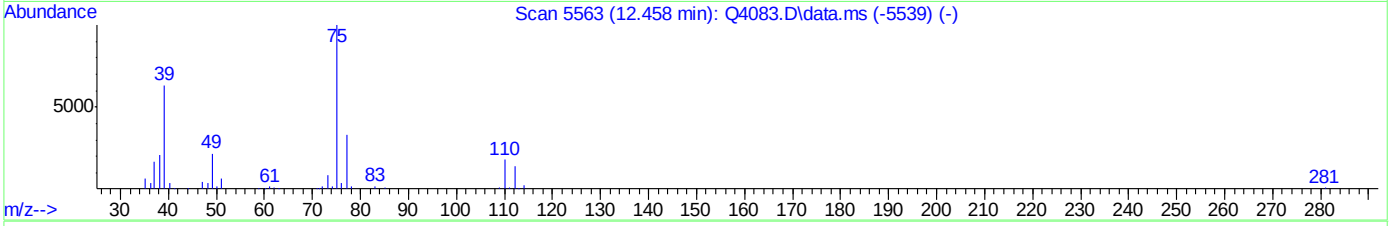
Data Path : C:\msdchem\1\DATA\
Data File : Q4139.D
Acq On : 27 Jul 2007 12:17 pm
Operator : danat
Sample : ic220-40 (M168)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 12:42:16 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 11:38:44 2007
Response via : Initial Calibration






TIC: Q4139.D\data.ms

(47) trans-1,3-DICHLOROPROPENE (m)

12.461min (+0.003) 60.75PPBV m

response 1999718

| Ion | Exp% | Act% |
|---|---|---|
| 75.00 | 100 | 100 |
| 77.00 | 30.90 | 0.00# |
| 39.00 | 62.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |



ACCUTEST Laboratories M66578

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4140.D
Acq On : 27 Jul 2007 1:01 pm
Operator : danat
Sample : ic220-20 (M168)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 13:30:07 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 11:38:44 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.632 | 128 | 240640 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.460 | 114 | 1165540 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.707 | 117 | 1050150 | 10.00 | PPBV | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.325 | 95 | 314740 | 4.03 | PPBV | 0.00 |

Spiked Amount 5.000 Range 57 - 139 Recovery = 80.60%

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 2) DICHLORODIFLUOROMETHANE | 4.033 | 85 | 2351991 | 23.29 | PPBV | 100 |
| 3) PROPYLENE | 3.966 | 41 | 388346 | 25.46 | PPBV | 94 |
| 4) FREON 114 | 4.296 | 85 | 2047574 | 24.33 | PPBV | 94 |
| 5) CHLOROMETHANE | 4.202 | 50 | 524051 | 28.43 | PPBV | 99 |
| 6) VINYL CHLORIDE | 4.422 | 62 | 586774 | 25.28 | PPBV | 99 |
| 7) 1,3-BUTADIENE | 4.557 | 39 | 504630 | 27.80 | PPBV | 98 |
| 8) BROMOMETHANE | 4.835 | 94 | 638876 | 23.95 | PPBV | 99 |
| 9) CHLOROETHANE | 5.000 | 64 | 252353 | 28.53 | PPBV | 98 |
| 10) TRICHLOROFLUOROMETHANE | 5.787 | 101 | 2495662 | 23.80 | PPBV | 100 |
| 11) ISOPROPYL ALCOHOL | 5.820 | 45 | 926173 | 20.44 | PPBV | 98 |
| 12) ACETONE | 5.591 | 43 | 927371 | 20.83 | PPBV | 98 |
| 13) PENTANE | 6.140 | 42 | 615353 | 26.09 | PPBV | 95 |
| 14) 1,1-DICHLOROETHYLENE | 6.422 | 96 | 728791 | 25.26 | PPBV | 100 |
| 15) CARBON DISULFIDE | 6.857 | 76 | 2126722 | 28.73 | PPBV | 98 |
| 16) ETHANOL | 5.096 | 45 | 139013 | 21.63 | PPBV | 99 |
| 17) BROMOETHENE | 5.368 | 106 | 617501 | 24.87 | PPBV | 100 |
| 18) METHYLENE CHLORIDE | 6.536 | 84 | 624361 | 12.01 | PPBV | 99 |
| 19) 3-CHLOROPROPENE | 6.658 | 39 | 605928 | 29.87 | PPBV | 95 |
| 20) FREON 113 | 6.796 | 151 | 1367393 | 21.10 | PPBV | 92 |
| 21) TRANS-1,2-DICHLOROETHY... | 7.467 | 96 | 678384 | 23.76 | PPBV | 96 |
| 22) TERTIARY BUTYL ALCOHOL | 6.424 | 59 | 1235220 | 24.58 | PPBV | 97 |
| 23) METHYL TERTIARY BUTYL ... | 7.707 | 73 | 1497084 | 21.59 | PPBV | 99 |
| 24) TETRAHYDROFURAN | 9.134 | 42 | 419439 | 22.42 | PPBV | 99 |
| 25) HEXANE | 8.667 | 57 | 709406 | 20.18 | PPBV | 99 |
| 26) VINYL ACETATE | 7.787 | 43 | 1105510 | 24.28 | PPBV | 97 |
| 27) 1,1-DICHLOROETHANE | 7.661 | 63 | 1301143 | 26.41 | PPBV | 100 |
| 28) METHYL ETHYL KETONE | 8.028 | 43 | 898820 | 22.09 | PPBV | 97 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.468 | 96 | 482004 | 21.26 | PPBV | 96 |
| 30) ETHYL ACETATE | 8.662 | 43 | 1545634 | 22.47 | PPBV | 100 |
| 31) CHLOROFORM | 8.754 | 83 | 1410337 | 22.48 | PPBV | 99 |
| 32) 1,1,1-TRICHLOROETHANE | 9.707 | 97 | 1499979 | 22.91 | PPBV | 99 |
| 33) CARBON TETRACHLORIDE | 10.291 | 117 | 1742511 | 23.51 | PPBV | 99 |
| 34) 1,2-DICHLOROETHANE | 9.462 | 62 | 932127 | 23.17 | PPBV | 100 |
| 36) BENZENE | 10.145 | 78 | 1365636 | 20.93 | PPBV | 100 |
| 37) CYCLOHEXANE | 10.413 | 84 | 579537 | 19.84 | PPBV | 93 |
| 38) TRICHLOROETHYLENE | 11.145 | 95 | 809456 | 21.48 | PPBV | 97 |
| 39) 1,2-DICHLOROPROPANE | 10.921 | 63 | 463181 | 20.27 | PPBV | 97 |
| 40) BROMODICHLOROMETHANE | 11.106 | 83 | 1426694 | 23.27 | PPBV | 99 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.166 | 57 | 2296779 | 22.44 | PPBV | 98 |
| 42) 1,4-DIOXANE | 11.132 | 88 | 262427 | 22.02 | PPBV | 95 |
| 43) HEPTANE | 11.407 | 43 | 841408 | 22.55 | PPBV | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4140.D
Acq On : 27 Jul 2007 1:01 pm
Operator : danat
Sample : ic220-20 (M168)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 13:30:07 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 11:38:44 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.975 | 43 | 1041849 | 23.26 | PPBV | 99 |
| 45) cis-1,3-DICHLOROPROPENE | 11.961 | 75 | 759366 | 24.05 | PPBV | 95 |
| 46) TOLUENE | 12.925 | 92 | 898885 | 20.69 | PPBV | 98 |
| 47) trans-1,3-DICHLOROPROPENE | 12.461 | 75 | 716162 | 26.72 | PPBV | 99 |
| 48) 1,1,2-TRICHLOROETHANE | 12.643 | 83 | 484652 | 21.38 | PPBV | 99 |
| 50) 2-HEXANONE | 13.145 | 43 | 885777 | 24.68 | PPBV | 98 |
| 51) TETRACHLOROETHYLENE | 14.057 | 164 | 787208 | 13.55 | PPBV | 97 |
| 52) DIBROMOCHLOROMETHANE | 13.349 | 129 | 1245997 | 22.28 | PPBV | 99 |
| 53) 1,2-DIBROMOETHANE | 13.599 | 107 | 875408 | 20.98 | PPBV | 99 |
| 54) CHLOROBENZENE | 14.751 | 112 | 1254772 | 20.64 | PPBV | 98 |
| 55) ETHYLBENZENE | 15.129 | 91 | 2047914 | 20.96 | PPBV | 99 |
| 56) m,p-XYLENE | 15.324 | 106 | 1548028 | 42.70 | PPBV | 92 |
| 57) o-XYLENE | 15.821 | 106 | 805864 | 22.28 | PPBV | 100 |
| 58) STYRENE | 15.704 | 104 | 1167887 | 28.22 | PPBV | 97 |
| 59) NONANE | 16.023 | 43 | 1104528 | 22.43 | PPBV | 99 |
| 60) BROMOFORM | 15.424 | 173 | 1125824 | 22.89 | PPBV | 99 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.812 | 83 | 1295448 | 24.14 | PPBV | 99 |
| 63) ISOPROPYLBENZENE | 16.465 | 105 | 1626908 | 14.67 | PPBV | 97 |
| 64) 2-CHLOROTOLUENE | 17.017 | 91 | 1258197 | 16.49 | PPBV | 95 |
| 65) 4-ETHYLTOLUENE | 17.207 | 105 | 1485880 | 16.34 | PPBV | 99 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.291 | 105 | 1387176 | 15.38 | PPBV | 98 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.757 | 105 | 1385267 | 17.71 | PPBV | 99 |
| 68) m-DICHLOROBENZENE | 17.938 | 146 | 842191 | 19.59 | PPBV | 97 |
| 69) BENZYL CHLORIDE | 17.915 | 91 | 929071 | 33.79 | PPBV | 96 |
| 70) p-DICHLOROBENZENE | 18.017 | 146 | 860842 | 22.73 | PPBV | 97 |
| 71) o-DICHLOROBENZENE | 18.402 | 146 | 840583 | 19.92 | PPBV | 97 |
| 72) HEXACHLOROBUTADIENE | 20.796 | 225 | 516637 | 13.38 | PPBV | 99 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.302 | 180 | 339359 | 39.60 | PPBV | 97 |

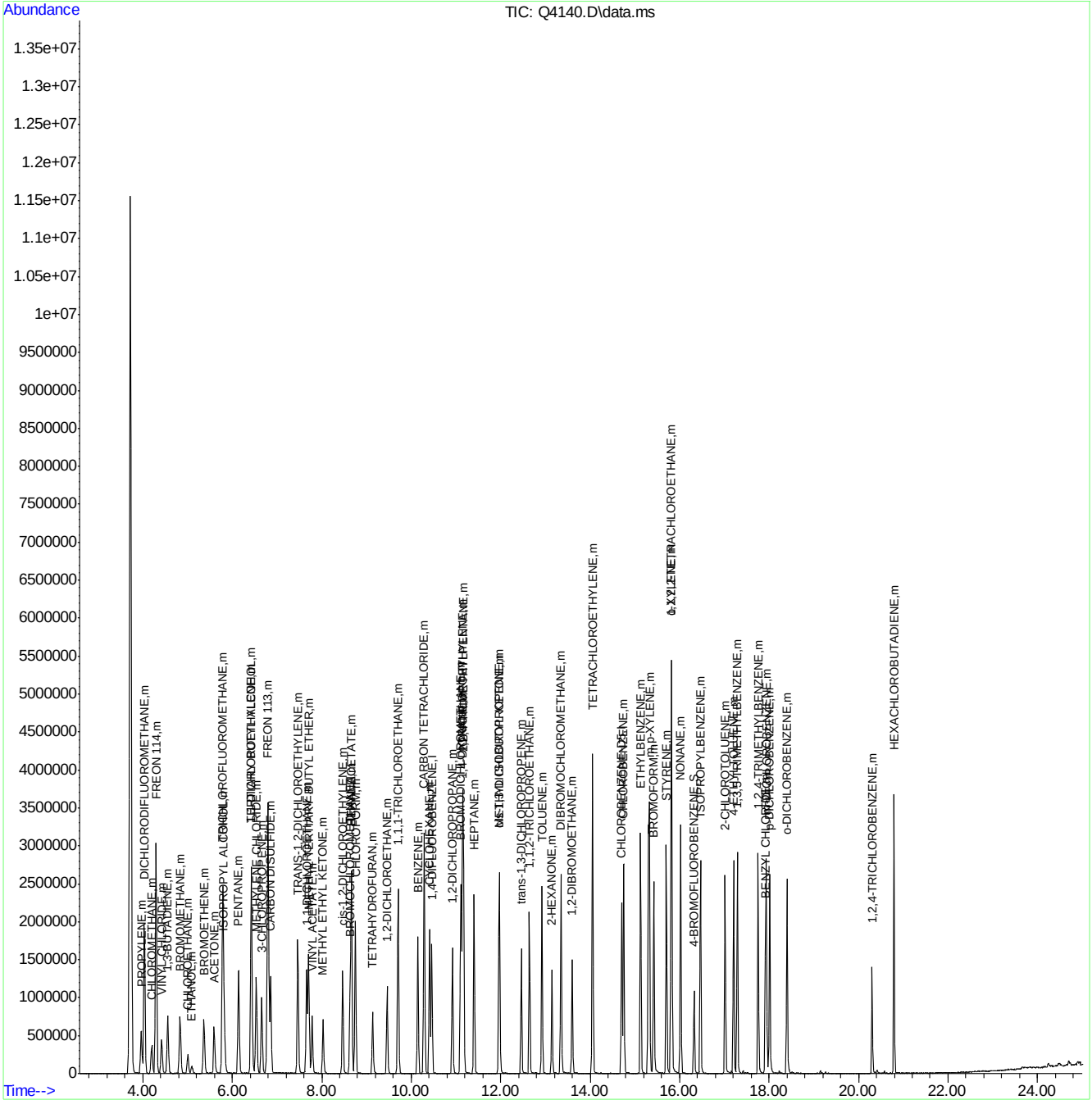
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4140.D
Acq On : 27 Jul 2007 1:01 pm
Operator : danat
Sample : ic220-20 (M168)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 13:30:07 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 11:38:44 2007
Response via : Initial Calibration








ACCUTEST Laboratories
M66578

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4141.D
Acq On : 27 Jul 2007 1:46 pm
Operator : danat
Sample : icc220-10 (M168)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 14:13:03 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 11:38:44 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.632 | 128 | 229115 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.461 | 114 | 1155723 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.705 | 117 | 1000843 | 10.00 | PPBV | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.322 | 95 | 436414 | 5.86 | PPBV | 0.00 |

Spiked Amount 5.000 Range 57 - 139 Recovery = 117.20%

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 2) DICHLORODIFLUOROMETHANE | 4.037 | 85 | 1252441 | 13.02 | PPBV | 99 |
| 3) PROPYLENE | 3.966 | 41 | 195222 | 13.44 | PPBV | 89 |
| 4) FREON 114 | 4.298 | 85 | 1172376 | 14.63 | PPBV | 93 |
| 5) CHLOROMETHANE | 4.200 | 50 | 284910 | 16.24 | PPBV | 97 |
| 6) VINYL CHLORIDE | 4.418 | 62 | 318395 | 14.41 | PPBV | 99 |
| 7) 1,3-BUTADIENE | 4.557 | 39 | 274704 | 15.90 | PPBV | 95 |
| 8) BROMOMETHANE | 4.835 | 94 | 335006 | 13.19 | PPBV | 99 |
| 9) CHLOROETHANE | 5.008 | 64 | 137145 | 16.28 | PPBV | 98 |
| 10) TRICHLOROFLUOROMETHANE | 5.790 | 101 | 1358821 | 13.61 | PPBV | 100 |
| 11) ISOPROPYL ALCOHOL | 5.824 | 45 | 487735 | 11.30 | PPBV | 98 |
| 12) ACETONE | 5.593 | 43 | 484543 | 11.43 | PPBV | 99 |
| 13) PENTANE | 6.140 | 42 | 328780 | 14.64 | PPBV | 99 |
| 14) 1,1-DICHLOROETHYLENE | 6.426 | 96 | 363409 | 13.23 | PPBV | 91 |
| 15) CARBON DISULFIDE | 6.855 | 76 | 1112286 | 15.78 | PPBV | 98 |
| 16) ETHANOL | 5.093 | 45 | 75954 | 12.41 | PPBV | 99 |
| 17) BROMOETHENE | 5.364 | 106 | 345170 | 14.60 | PPBV | 98 |
| 18) METHYLENE CHLORIDE | 6.539 | 84 | 314347 | 6.35 | PPBV | 94 |
| 19) 3-CHLOROPROPENE | 6.660 | 39 | 332033 | 17.19 | PPBV | 98 |
| 20) FREON 113 | 6.795 | 151 | 682478 | 11.06 | PPBV | 88 |
| 21) TRANS-1,2-DICHLOROETHY... | 7.466 | 96 | 352650 | 12.97 | PPBV | 93 |
| 22) TERTIARY BUTYL ALCOHOL | 6.426 | 59 | 646364 | 13.51 | PPBV | 95 |
| 23) METHYL TERTIARY BUTYL ... | 7.709 | 73 | 775785 | 11.75 | PPBV | 98 |
| 24) TETRAHYDROFURAN | 9.141 | 42 | 222073 | 12.47 | PPBV | 96 |
| 25) HEXANE | 8.669 | 57 | 361948 | 10.82 | PPBV | 97 |
| 26) VINYL ACETATE | 7.787 | 43 | 597396 | 13.78 | PPBV | 97 |
| 27) 1,1-DICHLOROETHANE | 7.663 | 63 | 660134 | 14.07 | PPBV | 99 |
| 28) METHYL ETHYL KETONE | 8.028 | 43 | 474753 | 12.26 | PPBV | 96 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.470 | 96 | 241190 | 11.17 | PPBV | 93 |
| 30) ETHYL ACETATE | 8.662 | 43 | 817672 | 12.49 | PPBV | 100 |
| 31) CHLOROFORM | 8.751 | 83 | 749877 | 12.55 | PPBV | 98 |
| 32) 1,1,1-TRICHLOROETHANE | 9.707 | 97 | 808595 | 12.97 | PPBV | 99 |
| 33) CARBON TETRACHLORIDE | 10.293 | 117 | 954115 | 13.52 | PPBV | 100 |
| 34) 1,2-DICHLOROETHANE | 9.462 | 62 | 498123 | 13.01 | PPBV | 100 |
| 36) BENZENE | 10.147 | 78 | 696407 | 10.76 | PPBV | 99 |
| 37) CYCLOHEXANE | 10.410 | 84 | 305791 | 10.56 | PPBV | 95 |
| 38) TRICHLOROETHYLENE | 11.147 | 95 | 431057 | 11.54 | PPBV | 96 |
| 39) 1,2-DICHLOROPROPANE | 10.919 | 63 | 243712 | 10.76 | PPBV | 97 |
| 40) BROMODICHLOROMETHANE | 11.106 | 83 | 755531 | 12.43 | PPBV | 97 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.168 | 57 | 1221753 | 12.04 | PPBV | 98 |
| 42) 1,4-DIOXANE | 11.132 | 88 | 134313 | 11.37 | PPBV | 95 |
| 43) HEPTANE | 11.404 | 43 | 446532 | 12.07 | PPBV | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4141.D
Acq On : 27 Jul 2007 1:46 pm
Operator : danat
Sample : icc220-10 (M168)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 14:13:03 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 11:38:44 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.975 | 43 | 542536 | 12.22 | PPBV | 100 |
| 45) cis-1,3-DICHLOROPROPENE | 11.961 | 75 | 384386 | 12.28 | PPBV | 97 |
| 46) TOLUENE | 12.921 | 92 | 464956 | 10.79 | PPBV | 98 |
| 47) trans-1,3-DICHLOROPROPENE | 12.462 | 75 | 373310 | 14.05 | PPBV | 99 |
| 48) 1,1,2-TRICHLOROETHANE | 12.643 | 83 | 257285 | 11.44 | PPBV | 99 |
| 50) 2-HEXANONE | 13.143 | 43 | 438892 | 12.83 | PPBV | 98 |
| 51) TETRACHLOROETHYLENE | 14.057 | 164 | 397775 | 7.18 | PPBV | 96 |
| 52) DIBROMOCHLOROMETHANE | 13.349 | 129 | 634739 | 11.91 | PPBV | 99 |
| 53) 1,2-DIBROMOETHANE | 13.599 | 107 | 456264 | 11.48 | PPBV | 100 |
| 54) CHLOROBENZENE | 14.749 | 112 | 638349 | 11.02 | PPBV | 97 |
| 55) ETHYLBENZENE | 15.129 | 91 | 1041247 | 11.18 | PPBV | 100 |
| 56) m,p-XYLENE | 15.323 | 106 | 783978 | 22.69 | PPBV | 94 |
| 57) o-XYLENE | 15.821 | 106 | 389166 | 11.29 | PPBV | 98 |
| 58) STYRENE | 15.704 | 104 | 540555 | 13.70 | PPBV | 98 |
| 59) NONANE | 16.024 | 43 | 569000 | 12.13 | PPBV | 97 |
| 60) BROMOFORM | 15.420 | 173 | 554620 | 11.83 | PPBV | 99 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.809 | 83 | 602944 | 11.79 | PPBV | 98 |
| 63) ISOPROPYLBENZENE | 16.466 | 105 | 1084510 | 10.26 | PPBV | 99 |
| 64) 2-CHLOROTOLUENE | 17.016 | 91 | 627685 | 8.63 | PPBV | 93 |
| 65) 4-ETHYLTOLUENE | 17.207 | 105 | 751912 | 8.68 | PPBV | 98 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.289 | 105 | 742285 | 8.64 | PPBV | 96 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.756 | 105 | 650842 | 8.73 | PPBV | 98 |
| 68) m-DICHLOROBENZENE | 17.939 | 146 | 389908 | 9.52 | PPBV | 96 |
| 69) BENZYL CHLORIDE | 17.916 | 91 | 427253 | 16.30 | PPBV | 96 |
| 70) p-DICHLOROBENZENE | 18.013 | 146 | 392810 | 10.88 | PPBV | 96 |
| 71) o-DICHLOROBENZENE | 18.398 | 146 | 376620 | 9.36 | PPBV | 97 |
| 72) HEXACHLOROBUTADIENE | 20.796 | 225 | 218671 | 5.94 | PPBV | 99 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.304 | 180 | 127276 | 15.59 | PPBV | 97 |

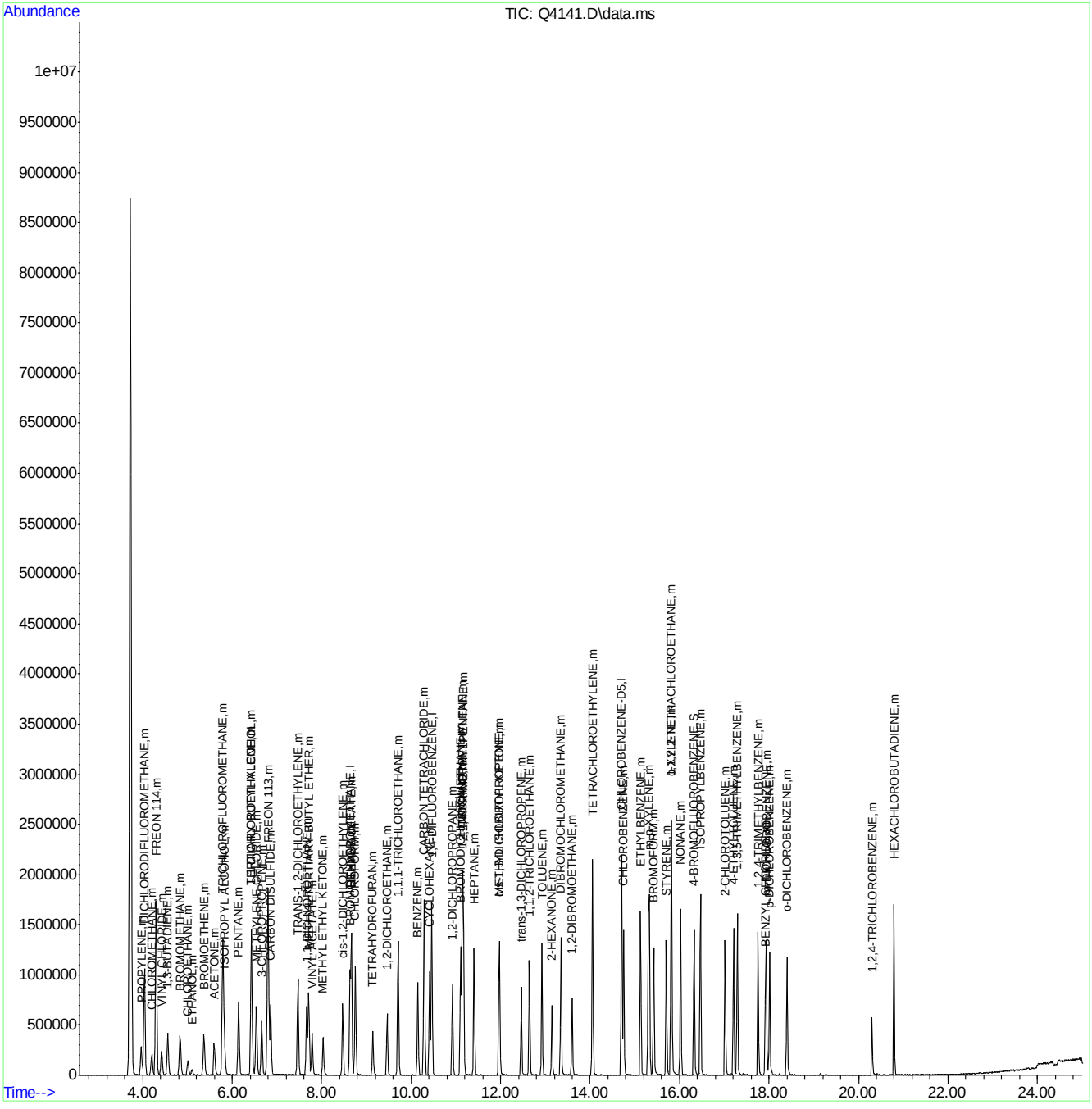
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4141.D
Acq On : 27 Jul 2007 1:46 pm
Operator : danat
Sample : icc220-10 (M168)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 14:13:03 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 11:38:44 2007
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4142.D
Acq On : 27 Jul 2007 2:32 pm
Operator : danat
Sample : ic220-5 (M168)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 14:58:09 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 14:15:38 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.632 | 128 | 268570 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.458 | 114 | 1199829 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.703 | 117 | 1031389 | 10.00 | PPBV | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.323 | 95 | 378914 | 5.26 | PPBV | 0.00 |

Spiked Amount 5.000 Range 57 - 139 Recovery = 105.20%

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 2) DICHLORODIFLUOROMETHANE | 4.033 | 85 | 528055 | 3.75 | PPBV | 100 |
| 3) PROPYLENE | 3.966 | 41 | 81333 | 4.53 | PPBV | 91 |
| 4) FREON 114 | 4.296 | 85 | 524311 | 4.17 | PPBV | 97 |
| 5) CHLOROMETHANE | 4.198 | 50 | 129450 | 4.32 | PPBV | 90 |
| 6) VINYL CHLORIDE | 4.424 | 62 | 147894 | 4.63 | PPBV | 98 |
| 7) 1,3-BUTADIENE | 4.559 | 39 | 129237 | 4.90 | PPBV | 97 |
| 8) BROMOMETHANE | 4.837 | 94 | 170127 | 4.55 | PPBV | 99 |
| 9) CHLOROETHANE | 5.004 | 64 | 67510 | 5.11 | PPBV | 96 |
| 10) TRICHLOROFLUOROMETHANE | 5.790 | 101 | 648543 | 4.48 | PPBV | 100 |
| 11) ISOPROPYL ALCOHOL | 5.826 | 45 | 250620 | 4.88 | PPBV | 99 |
| 12) ACETONE | 5.600 | 43 | 245451 | 3.94 | PPBV | 97 |
| 13) PENTANE | 6.142 | 42 | 154781 | 4.64 | PPBV | 98 |
| 14) 1,1-DICHLOROETHYLENE | 6.429 | 96 | 184738 | 5.01 | PPBV | 91 |
| 15) CARBON DISULFIDE | 6.857 | 76 | 535196 | 4.68 | PPBV | 97 |
| 16) ETHANOL | 5.096 | 45 | 40757 | 4.68 | PPBV | 98 |
| 17) BROMOETHENE | 5.364 | 106 | 172060 | 5.06 | PPBV | 99 |
| 18) METHYLENE CHLORIDE | 6.536 | 84 | 161780 | 2.16 | PPBV | 91 |
| 19) 3-CHLOROPROPENE | 6.658 | 39 | 134488 | 4.62 | PPBV | 97 |
| 20) FREON 113 | 6.797 | 151 | 379437 | 3.52 | PPBV | 95 |
| 21) TRANS-1,2-DICHLOROETHY... | 7.466 | 96 | 178174 | 5.05 | PPBV | 93 |
| 22) TERTIARY BUTYL ALCOHOL | 6.429 | 59 | 323365 | 6.56 | PPBV | 98 |
| 23) METHYL TERTIARY BUTYL ... | 7.711 | 73 | 332103 | 5.04 | PPBV | 99 |
| 24) TETRAHYDROFURAN | 9.145 | 42 | 106971 | 6.27 | PPBV | 100 |
| 25) HEXANE | 8.665 | 57 | 193047 | 5.46 | PPBV | 96 |
| 26) VINYL ACETATE | 7.789 | 43 | 227780 | 4.59 | PPBV | 96 |
| 27) 1,1-DICHLOROETHANE | 7.661 | 63 | 276042 | 4.33 | PPBV | 100 |
| 28) METHYL ETHYL KETONE | 8.034 | 43 | 241894 | 5.87 | PPBV | 95 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.472 | 96 | 122529 | 5.43 | PPBV | 91 |
| 30) ETHYL ACETATE | 8.664 | 43 | 425271 | 5.56 | PPBV | 100 |
| 31) CHLOROFORM | 8.752 | 83 | 373512 | 4.71 | PPBV | 98 |
| 32) 1,1,1-TRICHLOROETHANE | 9.707 | 97 | 379275 | 4.67 | PPBV | 99 |
| 33) CARBON TETRACHLORIDE | 10.289 | 117 | 472994 | 4.75 | PPBV | 100 |
| 34) 1,2-DICHLOROETHANE | 9.462 | 62 | 228897 | 4.87 | PPBV | 99 |
| 36) BENZENE | 10.146 | 78 | 326506 | 5.58 | PPBV | 100 |
| 37) CYCLOHEXANE | 10.413 | 84 | 159015 | 6.79 | PPBV | 98 |
| 38) TRICHLOROETHYLENE | 11.143 | 95 | 210680 | 5.76 | PPBV | 98 |
| 39) 1,2-DICHLOROPROPANE | 10.919 | 63 | 116205 | 5.41 | PPBV | 100 |
| 40) BROMODICHLOROMETHANE | 11.102 | 83 | 335526 | 4.85 | PPBV | 97 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.168 | 57 | 587579 | 6.22 | PPBV | 100 |
| 42) 1,4-DIOXANE | 11.138 | 88 | 65056 | 5.58 | PPBV # | 72 |
| 43) HEPTANE | 11.404 | 43 | 205079 | 6.06 | PPBV | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4142.D
Acq On : 27 Jul 2007 2:32 pm
Operator : danat
Sample : ic220-5 (M168)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 14:58:09 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 14:15:38 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.977 | 43 | 275018 | 6.85 | PPBV | 99 |
| 45) cis-1,3-DICHLOROPROPENE | 11.961 | 75 | 171475 | 5.64 | PPBV | 100 |
| 46) TOLUENE | 12.923 | 92 | 210268 | 5.83 | PPBV | 96 |
| 47) trans-1,3-DICHLOROPROPENE | 12.460 | 75 | 157442 | 5.52 | PPBV | 100 |
| 48) 1,1,2-TRICHLOROETHANE | 12.643 | 83 | 132655 | 5.66 | PPBV | 99 |
| 50) 2-HEXANONE | 13.147 | 43 | 215154 | 6.68 | PPBV | 99 |
| 51) TETRACHLOROETHYLENE | 14.055 | 164 | 192461 | 4.88 | PPBV | 98 |
| 52) DIBROMOCHLOROMETHANE | 13.349 | 129 | 301620 | 5.14 | PPBV | 100 |
| 53) 1,2-DIBROMOETHANE | 13.596 | 107 | 220139 | 5.68 | PPBV | 99 |
| 54) CHLOROBENZENE | 14.749 | 112 | 331410 | 5.46 | PPBV | 98 |
| 55) ETHYLBENZENE | 15.127 | 91 | 487565 | 6.28 | PPBV | 100 |
| 56) m,p-XYLENE | 15.326 | 106 | 391969 | 13.57 | PPBV | 92 |
| 57) o-XYLENE | 15.819 | 106 | 188650 | 6.65 | PPBV | 98 |
| 58) STYRENE | 15.704 | 104 | 236381 | 5.96 | PPBV | 100 |
| 59) NONANE | 16.020 | 43 | 279628 | 6.77 | PPBV | 100 |
| 60) BROMOFORM | 15.418 | 173 | 273064 | 5.37 | PPBV | 99 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.811 | 83 | 311587 | 5.60 | PPBV | 99 |
| 63) ISOPROPYLBENZENE | 16.465 | 105 | 550056 | 7.07 | PPBV | 99 |
| 64) 2-CHLOROTOLUENE | 17.016 | 91 | 386030 | 7.39 | PPBV | 95 |
| 65) 4-ETHYLTOLUENE | 17.206 | 105 | 465389 | 8.39 | PPBV | 99 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.289 | 105 | 457400 | 8.60 | PPBV | 98 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.754 | 105 | 398509 | 8.18 | PPBV | 99 |
| 68) m-DICHLOROBENZENE | 17.937 | 146 | 275916 | 8.03 | PPBV | 97 |
| 69) BENZYL CHLORIDE | 17.915 | 91 | 237009 | 7.05 | PPBV | 98 |
| 70) p-DICHLOROBENZENE | 18.015 | 146 | 265616 | 7.81 | PPBV | 98 |
| 71) o-DICHLOROBENZENE | 18.402 | 146 | 230150 | 7.15 | PPBV | 99 |
| 72) HEXACHLOROBUTADIENE | 20.796 | 225 | 140344 | 4.75 | PPBV | 98 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.306 | 180 | 62680 | 4.85 | PPBV | 100 |

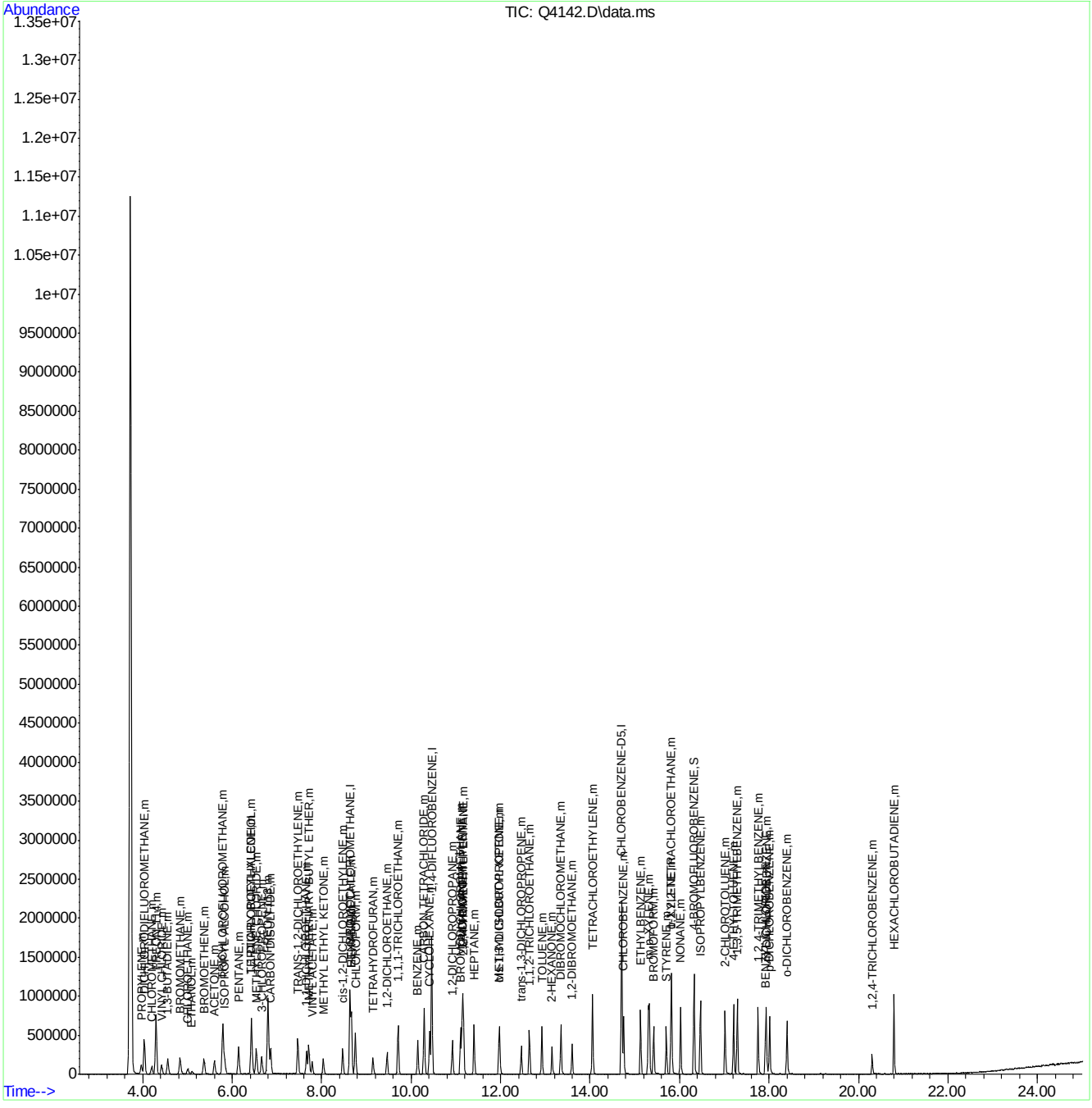
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4142.D
Acq On : 27 Jul 2007 2:32 pm
Operator : danat
Sample : ic220-5 (M168)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 14:58:09 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 14:15:38 2007
Response via : Initial Calibration








ACCUTEST Laboratories M66578

Manual Integrations APPROVED (compounds with "m" flag)
Philip Bassignani 08/01/07 16:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4143.D
Acq On : 27 Jul 2007 3:20 pm
Operator : danat
Sample : ic220-2 (M168)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 15:51:10 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 14:59:39 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.624 | 128 | 299070 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.454 | 114 | 1416510 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.699 | 117 | 1186242m | 10.00 | PPBV | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.322 | 95 | 438877 | 5.25 | PPBV | 0.00 |

Spiked Amount 5.000 Range 57 - 139 Recovery = 105.00%

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 2) DICHLORODIFLUOROMETHANE | 4.033 | 85 | 463588 | 3.09 | PPBV | 99 |
| 3) PROPYLENE | 3.967 | 41 | 68252 | 3.47 | PPBV | 93 |
| 4) FREON 114 | 4.292 | 85 | 356182 | 2.62 | PPBV | 97 |
| 5) CHLOROMETHANE | 4.196 | 50 | 93934 | 2.88 | PPBV | 91 |
| 6) VINYL CHLORIDE | 4.420 | 62 | 106506 | 3.03 | PPBV | 99 |
| 7) 1,3-BUTADIENE | 4.558 | 39 | 72299 | 2.47 | PPBV | 97 |
| 8) BROMOMETHANE | 4.828 | 94 | 116229 | 2.83 | PPBV | 98 |
| 9) CHLOROETHANE | 5.002 | 64 | 35021 | 2.37 | PPBV | 98 |
| 10) TRICHLOROFLUOROMETHANE | 5.785 | 101 | 438336 | 2.77 | PPBV | 100 |
| 11) ISOPROPYL ALCOHOL | 5.822 | 45 | 139922 | 2.46 | PPBV | 92 |
| 12) ACETONE | 5.593 | 43 | 146542 | 2.19 | PPBV | 99 |
| 13) PENTANE | 6.140 | 42 | 101827 | 2.77 | PPBV | 97 |
| 14) 1,1-DICHLOROETHYLENE | 6.418 | 96 | 121033 | 2.95 | PPBV | 91 |
| 15) CARBON DISULFIDE | 6.851 | 76 | 366484 | 2.91 | PPBV | 96 |
| 16) ETHANOL | 5.096 | 45 | 24912 | 2.60 | PPBV # | 89 |
| 17) BROMOETHENE | 5.366 | 106 | 111067 | 2.93 | PPBV | 100 |
| 18) METHYLENE CHLORIDE | 6.535 | 84 | 105783 | 1.40 | PPBV | 94 |
| 19) 3-CHLOROPROPENE | 6.656 | 39 | 81901 | 2.56 | PPBV | 97 |
| 20) FREON 113 | 6.791 | 151 | 237288 | 2.08 | PPBV | 95 |
| 21) TRANS-1,2-DICHLOROETHY... | 7.465 | 96 | 89742 | 2.28 | PPBV | 99 |
| 22) TERTIARY BUTYL ALCOHOL | 6.429 | 59 | 171829 | 2.98 | PPBV | 96 |
| 23) METHYL TERTIARY BUTYL ... | 7.709 | 73 | 167134 | 2.27 | PPBV | 98 |
| 24) TETRAHYDROFURAN | 9.141 | 42 | 53945 | 2.72 | PPBV | 98 |
| 25) HEXANE | 8.662 | 57 | 113461 | 2.84 | PPBV | 98 |
| 26) VINYL ACETATE | 7.783 | 43 | 119887 | 2.20 | PPBV | 93 |
| 27) 1,1-DICHLOROETHANE | 7.657 | 63 | 169737 | 2.45 | PPBV | 100 |
| 28) METHYL ETHYL KETONE | 8.030 | 43 | 124255 | 2.63 | PPBV | 98 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.459 | 96 | 74496 | 2.92 | PPBV | 90 |
| 30) ETHYL ACETATE | 8.660 | 43 | 241102 | 2.78 | PPBV | 100 |
| 31) CHLOROFORM | 8.747 | 83 | 234304 | 2.68 | PPBV | 99 |
| 32) 1,1,1-TRICHLOROETHANE | 9.700 | 97 | 244347 | 2.73 | PPBV | 99 |
| 33) CARBON TETRACHLORIDE | 10.287 | 117 | 294911 | 2.68 | PPBV | 99 |
| 34) 1,2-DICHLOROETHANE | 9.455 | 62 | 145132 | 2.79 | PPBV | 98 |
| 36) BENZENE | 10.144 | 78 | 209736 | 2.98 | PPBV | 99 |
| 37) CYCLOHEXANE | 10.408 | 84 | 98570 | 3.37 | PPBV | 92 |
| 38) TRICHLOROETHYLENE | 11.143 | 95 | 129696 | 2.93 | PPBV | 98 |
| 39) 1,2-DICHLOROPROPANE | 10.917 | 63 | 72566 | 2.82 | PPBV | 98 |
| 40) BROMODICHLOROMETHANE | 11.098 | 83 | 207769 | 2.56 | PPBV | 98 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.162 | 57 | 344689 | 2.97 | PPBV | 99 |
| 42) 1,4-DIOXANE | 11.137 | 88 | 34351 | 2.44 | PPBV # | 48 |
| 43) HEPTANE | 11.402 | 43 | 113940 | 2.75 | PPBV | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4143.D
Acq On : 27 Jul 2007 3:20 pm
Operator : danat
Sample : ic220-2 (M168)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 15:51:10 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 14:59:39 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.975 | 43 | 144738 | 2.88 | PPBV | 99 |
| 45) cis-1,3-DICHLOROPROPENE | 11.956 | 75 | 98929 | 2.70 | PPBV | 98 |
| 46) TOLUENE | 12.921 | 92 | 119726 | 2.74 | PPBV | 95 |
| 47) trans-1,3-DICHLOROPROPENE | 12.460 | 75 | 89064 | 2.60 | PPBV | 98 |
| 48) 1,1,2-TRICHLOROETHANE | 12.641 | 83 | 80481 | 2.85 | PPBV | 100 |
| 50) 2-HEXANONE | 13.147 | 43 | 104026 | 2.66 | PPBV | 96 |
| 51) TETRACHLOROETHYLENE | 14.053 | 164 | 115664 | 2.56 | PPBV | 97 |
| 52) DIBROMOCHLOROMETHANE | 13.345 | 129 | 182433 | 2.69 | PPBV | 100 |
| 53) 1,2-DIBROMOETHANE | 13.597 | 107 | 134195 | 2.95 | PPBV | 99 |
| 54) CHLOROBENZENE | 14.747 | 112 | 203590 | 2.87 | PPBV | 99 |
| 55) ETHYLBENZENE | 15.125 | 91 | 257534 | 2.76 | PPBV | 99 |
| 56) m,p-XYLENE | 15.324 | 106 | 215680 | 6.13 | PPBV | 94 |
| 57) o-XYLENE | 15.821 | 106 | 108619 | 3.16 | PPBV | 98 |
| 58) STYRENE | 15.704 | 104 | 114285 | 2.43 | PPBV | 98 |
| 59) NONANE | 16.023 | 43 | 151323 | 3.01 | PPBV | 99 |
| 60) BROMOFORM | 15.418 | 173 | 159796 | 2.70 | PPBV | 99 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.809 | 83 | 183880 | 2.82 | PPBV | 100 |
| 63) ISOPROPYLBENZENE | 16.465 | 105 | 307807 | 3.22 | PPBV | 100 |
| 64) 2-CHLOROTOLUENE | 17.016 | 91 | 208385 | 3.21 | PPBV | 95 |
| 65) 4-ETHYLTOLUENE | 17.207 | 105 | 244715 | 3.45 | PPBV | 99 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.292 | 105 | 255344 | 3.73 | PPBV | 96 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.756 | 105 | 203170 | 3.28 | PPBV | 98 |
| 68) m-DICHLOROBENZENE | 17.938 | 146 | 163980 | 3.77 | PPBV | 97 |
| 69) BENZYL CHLORIDE | 17.917 | 91 | 126320 | 3.06 | PPBV | 97 |
| 70) p-DICHLOROBENZENE | 18.009 | 146 | 159700 | 3.73 | PPBV | 98 |
| 71) o-DICHLOROBENZENE | 18.403 | 146 | 133321 | 3.36 | PPBV | 98 |
| 72) HEXACHLOROBUTADIENE | 20.796 | 225 | 82501 | 2.45 | PPBV | 99 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.308 | 180 | 35073 | 2.38 | PPBV | 92 |

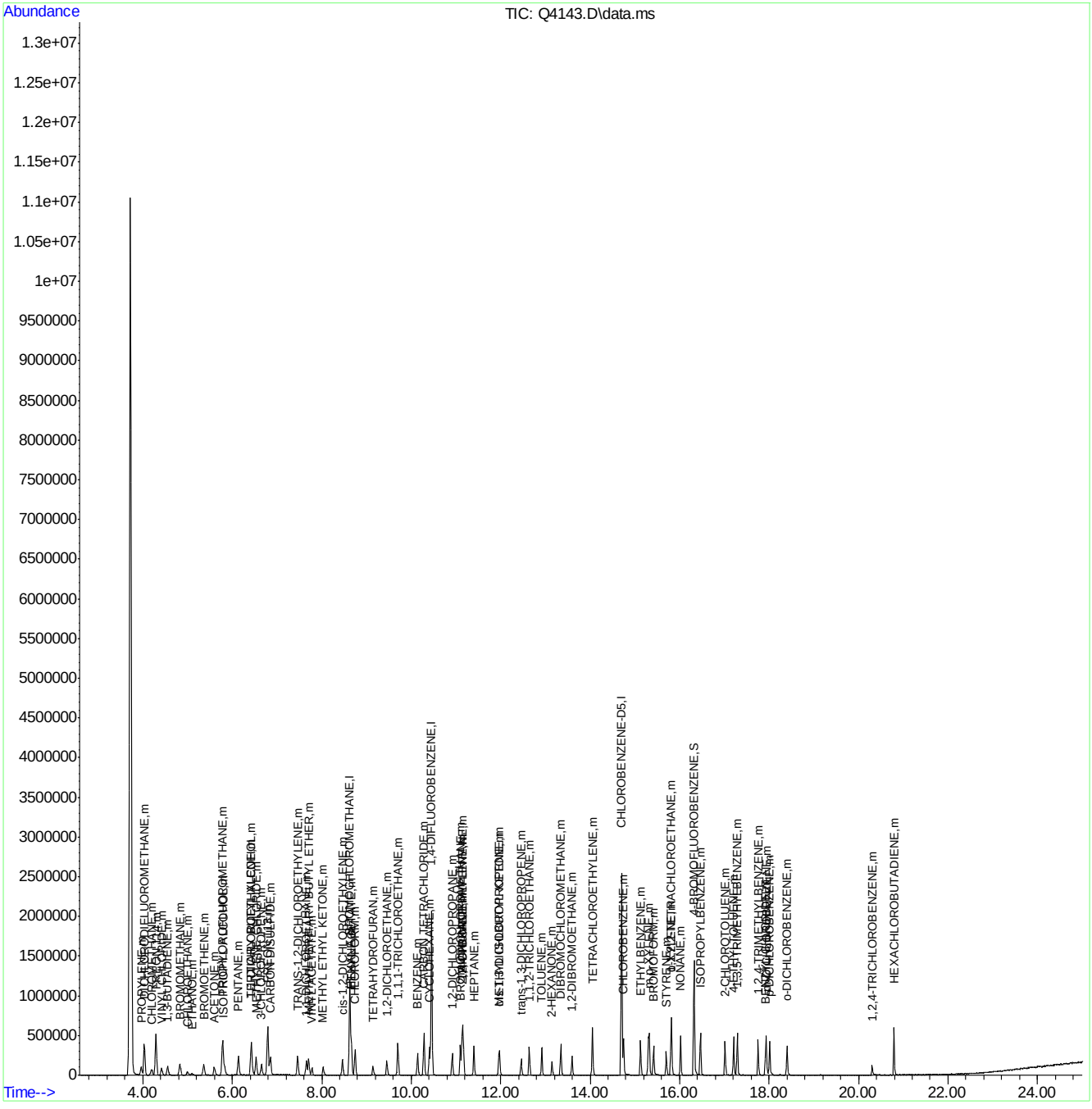
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4143.D
Acq On : 27 Jul 2007 3:20 pm
Operator : danat
Sample : ic220-2 (M168)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 15:51:10 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 14:59:39 2007
Response via : Initial Calibration



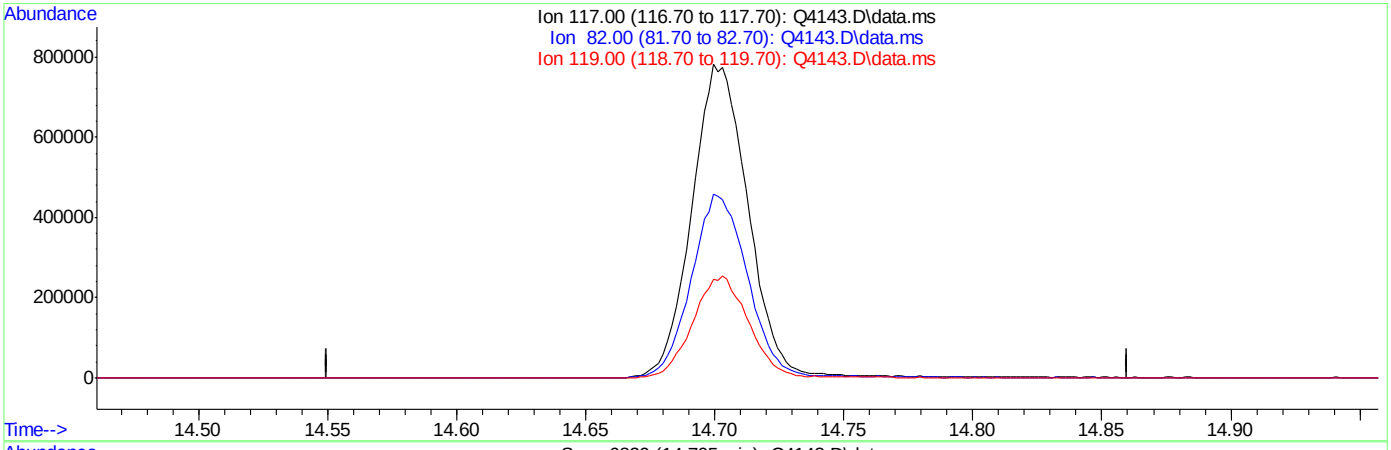


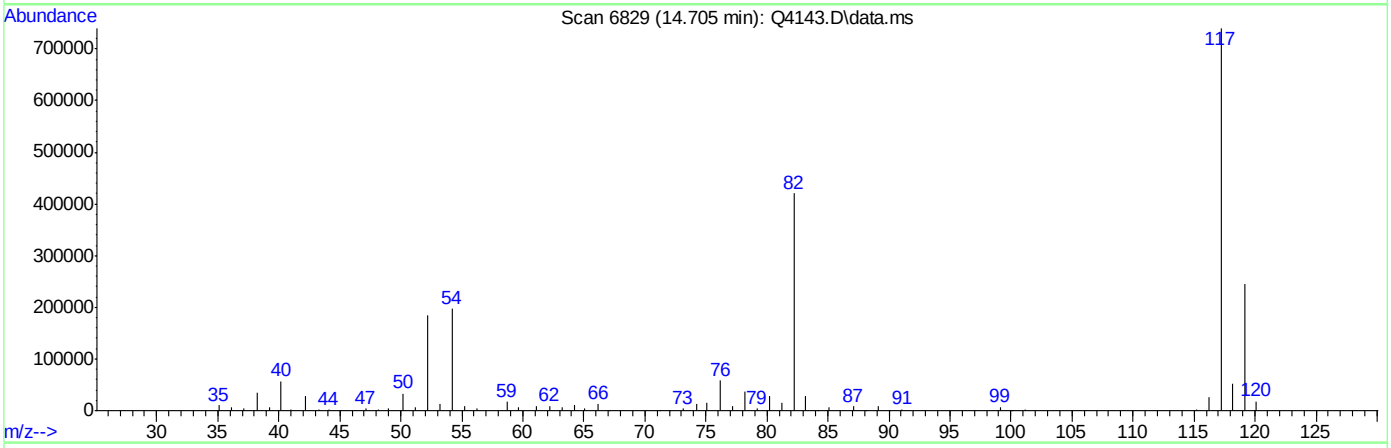
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : Q4143.D
Acq On : 27 Jul 2007 3:20 pm
Operator : danat
Sample : ic220-2 (M168)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 15:47:13 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 14:59:39 2007
Response via : Initial Calibration






TIC: Q4143.D\data.ms

(49) CHLOROBENZENE-D5 (I)

14.705min (-14.705) 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 117.00 | 100 | 0.00 |
| 82.00 | 59.40 | 0.00# |
| 119.00 | 32.30 | 0.00# |
| 0.00 | 0.00 | 0.00 |



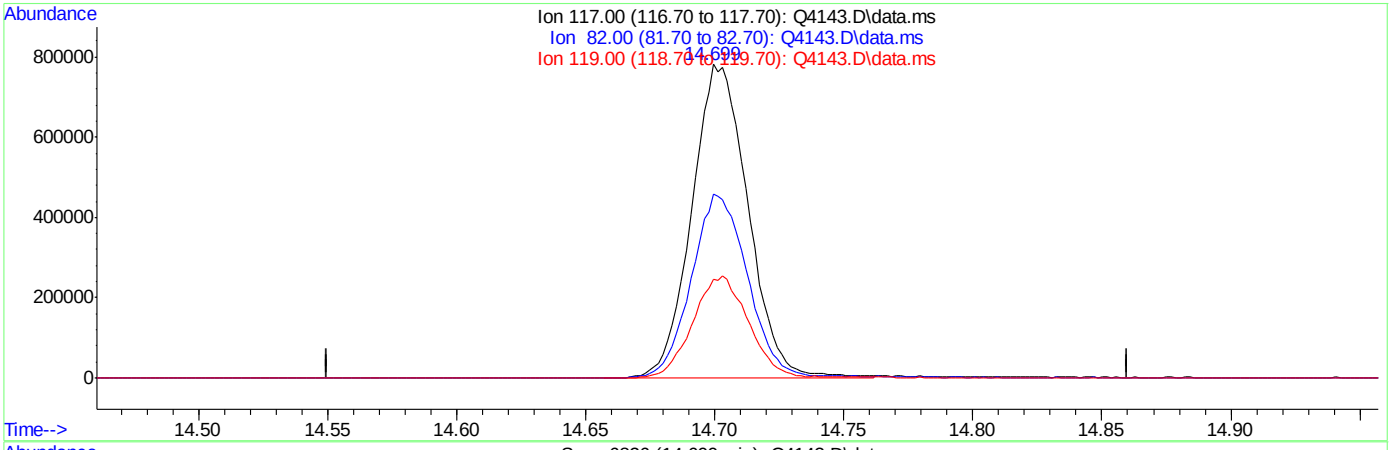
ACCUTEST Laboratories M66578

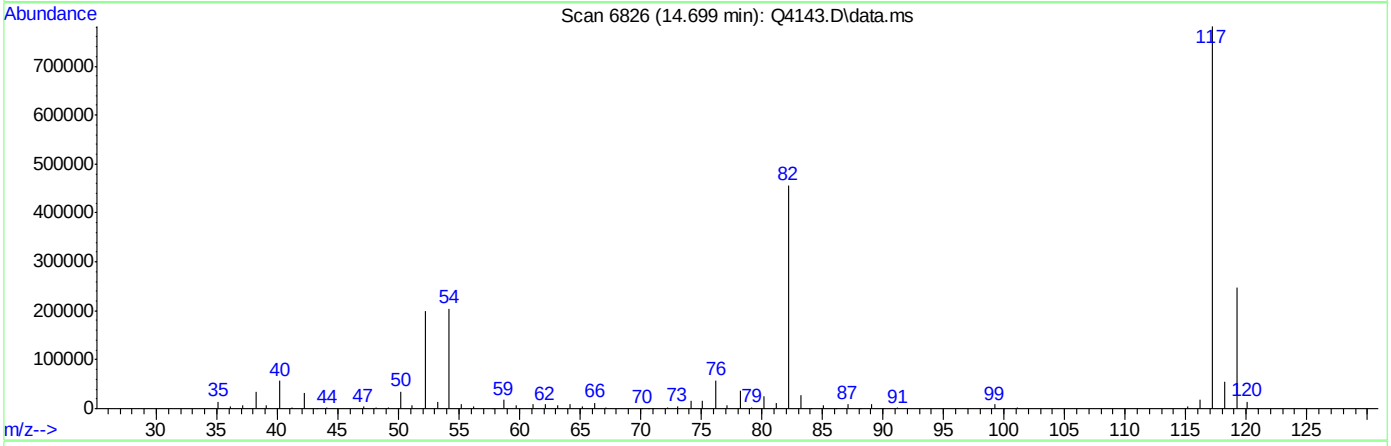
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : Q4143.D
Acq On : 27 Jul 2007 3:20 pm
Operator : danat
Sample : ic220-2 (M168)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 15:47:13 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 14:59:39 2007
Response via : Initial Calibration






(49) CHLOROBENZENE-D5 (I)

14.699min (-0.005) 10.00PPBV m

response 1186242

| Ion | Exp% | Act% |
|---|---|---|
| 117.00 | 100 | 100 |
| 82.00 | 59.40 | 0.00# |
| 119.00 | 32.30 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Philip Bassignani
08/01/07 16:20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4144.D
Acq On : 27 Jul 2007 4:07 pm
Operator : danat
Sample : ic220-0.5 (M028)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 09:10:32 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 15:51:48 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.624 | 128 | 265746 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.456 | 114 | 1126318 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.701 | 117 | 953834 | 10.00 | PPBV | 0.00 |

| System Monitoring Compounds | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.323 | 95 | 316425 | 4.68 | PPBV | 0.00 |
| Spiked Amount 5.000 | Range 57 - 139 | | Recovery = 93.60% | | | |

| Target Compounds | | | | | | | Qvalue |
|---|---|---|---|---|---|---|---|
| 2) DICHLORODIFLUOROMETHANE | 4.031 | 85 | 81609 | 0.57 | PPBV | | 99 |
| 3) PROPYLENE | 3.959 | 41 | 11081 | 0.57 | PPBV | # | 78 |
| 4) FREON 114 | 4.296 | 85 | 67041 | 0.53 | PPBV | | 98 |
| 5) CHLOROMETHANE | 4.198 | 50 | 15429 | 0.50 | PPBV | | 85 |
| 6) VINYL CHLORIDE | 4.416 | 62 | 17680 | 0.53 | PPBV | | 73 |
| 7) 1,3-BUTADIENE | 4.555 | 39 | 14518 | 0.54 | PPBV | | 96 |
| 8) BROMOMETHANE | 4.830 | 94 | 19855 | 0.51 | PPBV | | 97 |
| 9) CHLOROETHANE | 4.999 | 64 | 8419m | 0.63 | PPBV | | |
| 10) TRICHLOROFLUOROMETHANE | 5.787 | 101 | 77565 | 0.52 | PPBV | | 98 |
| 11) ISOPROPYL ALCOHOL | 5.831 | 45 | 30443 | 0.58 | PPBV | | 74 |
| 12) ACETONE | 5.604 | 43 | 39841 | 0.66 | PPBV | | 99 |
| 13) PENTANE | 6.133 | 42 | 18253 | 0.53 | PPBV | | 96 |
| 14) 1,1-DICHLOROETHYLENE | 6.418 | 96 | 20437 | 0.52 | PPBV | # | 89 |
| 15) CARBON DISULFIDE | 6.850 | 76 | 62285 | 0.52 | PPBV | | 96 |
| 16) ETHANOL | 5.100 | 45 | 6144 | 0.69 | PPBV | | 70 |
| 17) BROMOETHENE | 5.361 | 106 | 18876 | 0.53 | PPBV | | 99 |
| 18) METHYLENE CHLORIDE | 6.532 | 84 | 63101 | 0.98 | PPBV | | 91 |
| 19) 3-CHLOROPROPENE | 6.647 | 39 | 14985 | 0.51 | PPBV | # | 12 |
| 20) FREON 113 | 6.793 | 151 | 63868 | 0.63 | PPBV | | 96 |
| 21) TRANS-1,2-DICHLOROETHY... | 7.467 | 96 | 19060 | 0.53 | PPBV | | 94 |
| 22) TERTIARY BUTYL ALCOHOL | 6.445 | 59 | 26028 | 0.47 | PPBV | | 90 |
| 23) METHYL TERTIARY BUTYL ... | 7.712 | 73 | 31427 | 0.47 | PPBV | | 86 |
| 24) TETRAHYDROFURAN | 9.153 | 42 | 6175 | 0.33 | PPBV | | 91 |
| 25) HEXANE | 8.663 | 57 | 18717 | 0.50 | PPBV | | 91 |
| 26) VINYL ACETATE | 7.781 | 43 | 22718 | 0.46 | PPBV | | 87 |
| 27) 1,1-DICHLOROETHANE | 7.661 | 63 | 33921 | 0.53 | PPBV | | 100 |
| 28) METHYL ETHYL KETONE | 8.041 | 43 | 20766 | 0.47 | PPBV | | 92 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.468 | 96 | 11629 | 0.48 | PPBV | | 89 |
| 30) ETHYL ACETATE | 8.663 | 43 | 36091 | 0.44 | PPBV | # | 97 |
| 31) CHLOROFORM | 8.747 | 83 | 42735 | 0.52 | PPBV | | 96 |
| 32) 1,1,1-TRICHLOROETHANE | 9.698 | 97 | 62471 | 0.75 | PPBV | | 99 |
| 33) CARBON TETRACHLORIDE | 10.286 | 117 | 49415 | 0.48 | PPBV | | 98 |
| 34) 1,2-DICHLOROETHANE | 9.459 | 62 | 23724 | 0.49 | PPBV | | 98 |
| 36) BENZENE | 10.140 | 78 | 27897 | 0.47 | PPBV | | 97 |
| 37) CYCLOHEXANE | 10.412 | 84 | 9293 | 0.36 | PPBV | | 99 |
| 38) TRICHLOROETHYLENE | 11.141 | 95 | 22016 | 0.59 | PPBV | | 98 |
| 39) 1,2-DICHLOROPROPANE | 10.916 | 63 | 9799 | 0.45 | PPBV | | 99 |
| 40) BROMODICHLOROMETHANE | 11.097 | 83 | 34353 | 0.51 | PPBV | | 97 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.162 | 57 | 36423 | 0.37 | PPBV | | 93 |
| 42) 1,4-DIOXANE | 11.146 | 88 | 3150 | 0.27 | PPBV | # | 1 |
| 43) HEPTANE | 11.397 | 43 | 10723 | 0.31 | PPBV | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4144.D
Acq On : 27 Jul 2007 4:07 pm
Operator : danat
Sample : ic220-0.5 (M028)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 09:10:32 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 15:51:48 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.988 | 43 | 11074 | 0.26 | PPBV | 86 |
| 45) cis-1,3-DICHLOROPROPENE | 11.957 | 75 | 10147 | 0.33 | PPBV | 86 |
| 46) TOLUENE | 12.916 | 92 | 10428 | 0.28 | PPBV | 89 |
| 47) trans-1,3-DICHLOROPROPENE | 12.461 | 75 | 8402 | 0.30 | PPBV | 96 |
| 48) 1,1,2-TRICHLOROETHANE | 12.637 | 83 | 11734 | 0.49 | PPBV | 96 |
| 50) 2-HEXANONE | 13.148 | 43 | 6691 | 0.20 | PPBV # | 87 |
| 51) TETRACHLOROETHYLENE | 14.053 | 164 | 309381 | 8.19 | PPBV | 98 |
| 52) DIBROMOCHLOROMETHANE | 13.345 | 129 | 24007 | 0.42 | PPBV | 97 |
| 53) 1,2-DIBROMOETHANE | 13.594 | 107 | 15467 | 0.40 | PPBV # | 96 |
| 54) CHLOROBENZENE | 14.744 | 112 | 23819 | 0.39 | PPBV | 98 |
| 55) ETHYLBENZENE | 15.131 | 91 | 16857 | 0.21 | PPBV | 97 |
| 56) m,p-XYLENE | 15.317 | 106 | 11904m | 0.39 | PPBV | |
| 57) o-XYLENE | 15.818 | 106 | 5776 | 0.19 | PPBV | 98 |
| 58) STYRENE | 15.704 | 104 | 6060 | 0.16 | PPBV | 97 |
| 59) NONANE | 16.020 | 43 | 6823 | 0.16 | PPBV # | 98 |
| 60) BROMOFORM | 15.418 | 173 | 18318 | 0.37 | PPBV | 98 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.807 | 83 | 21073 | 0.38 | PPBV | 98 |
| 63) ISOPROPYLBENZENE | 16.465 | 105 | 19878 | 0.24 | PPBV | 99 |
| 64) 2-CHLOROTOLUENE | 17.021 | 91 | 12842 | 0.23 | PPBV | 95 |
| 65) 4-ETHYLTOLUENE | 17.204 | 105 | 10556 | 0.17 | PPBV | 98 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.289 | 105 | 10845 | 0.18 | PPBV | 94 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.756 | 105 | 8011 | 0.15 | PPBV # | 44 |
| 68) m-DICHLOROBENZENE | 17.942 | 146 | 11229 | 0.29 | PPBV | 94 |
| 69) BENZYL CHLORIDE | 17.914 | 91 | 7033 | 0.20 | PPBV | 92 |
| 70) p-DICHLOROBENZENE | 18.013 | 146 | 10691 | 0.28 | PPBV | 87 |
| 71) o-DICHLOROBENZENE | 18.400 | 146 | 9359 | 0.27 | PPBV | 98 |
| 72) HEXACHLOROBUTADIENE | 20.794 | 225 | 16100 | 0.58 | PPBV | 98 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.310 | 180 | 2916 | 0.24 | PPBV | 92 |

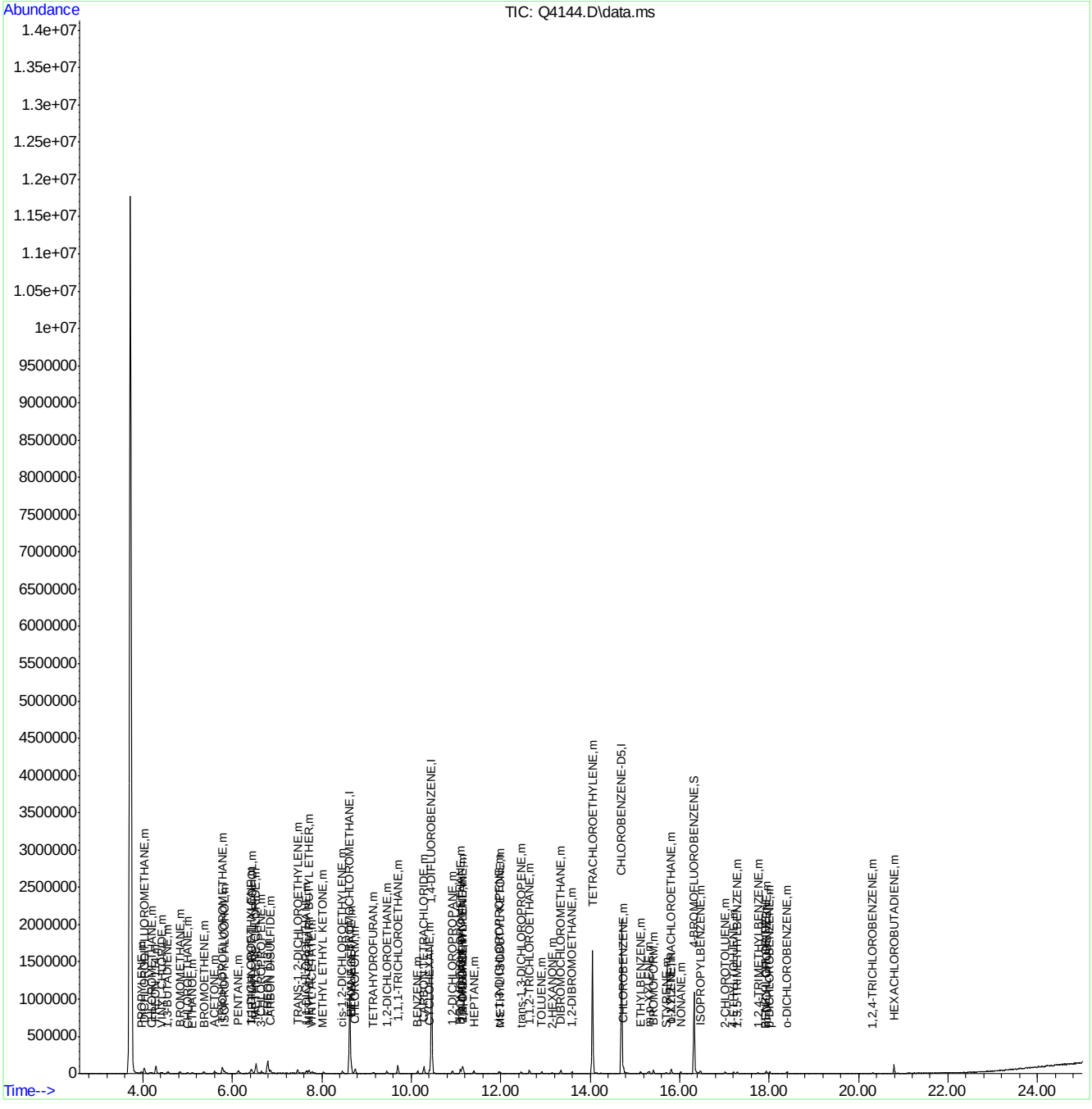
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4144.D
Acq On : 27 Jul 2007 4:07 pm
Operator : danat
Sample : ic220-0.5 (M028)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 09:10:32 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 15:51:48 2007
Response via : Initial Calibration







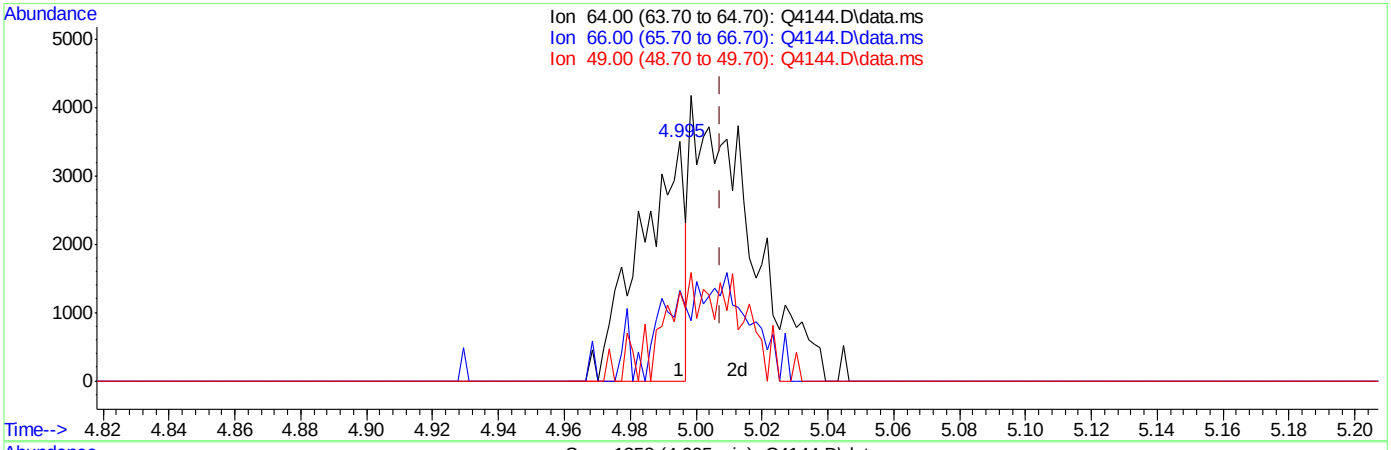

ACCUTEST Laboratories M66578

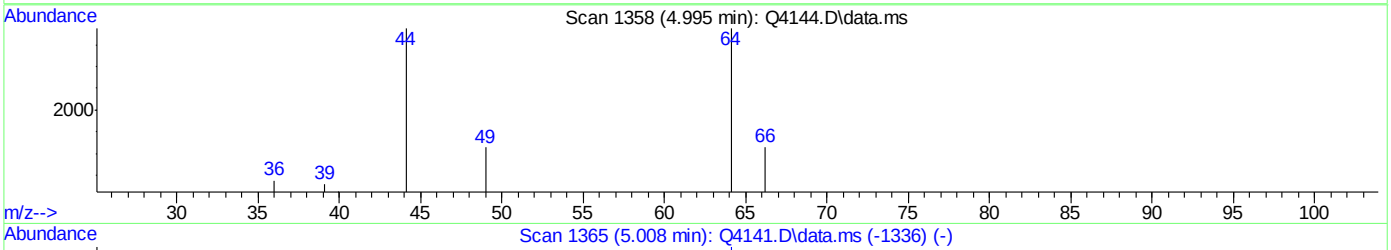
Quantitation Report (Qedit)

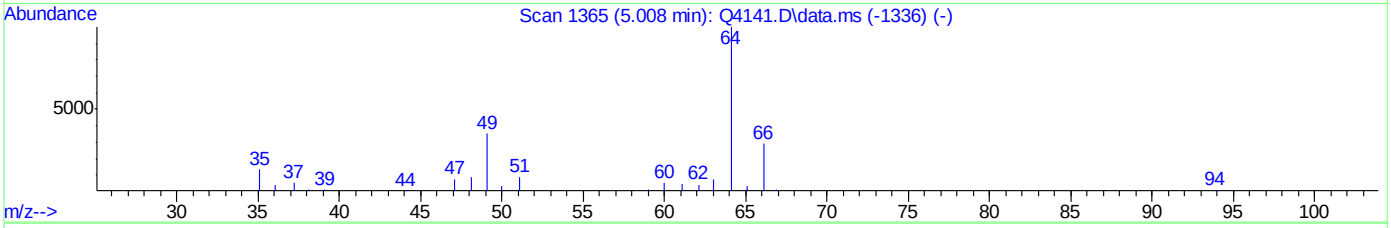
Data Path : C:\msdchem\1\DATA\
Data File : Q4144.D
Acq On : 27 Jul 2007 4:07 pm
Operator : danat
Sample : ic220-0.5 (M028)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 09:08:25 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 15:51:48 2007
Response via : Initial Calibration






TIC: Q4144.D\data.ms

(9) CHLOROETHANE (m)

4.995min (-0.013) 0.24PPBV

response 3298

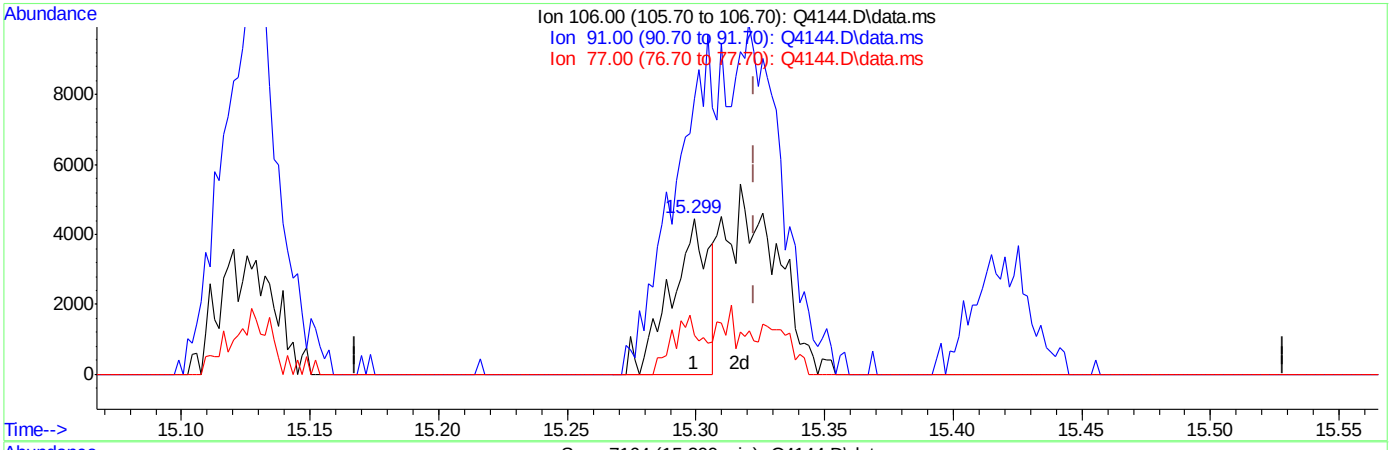
| Ion | Exp% | Act% |
|---|---|---|
| 64.00 | 100 | 100 |
| 66.00 | 32.70 | 0.00# |
| 49.00 | 38.00 | 67.04# |
| 0.00 | 0.00 | 0.00 |

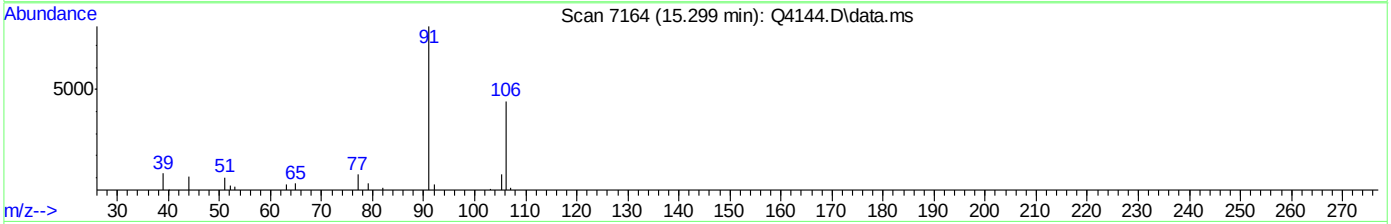
Quantitation Report (Qedit)

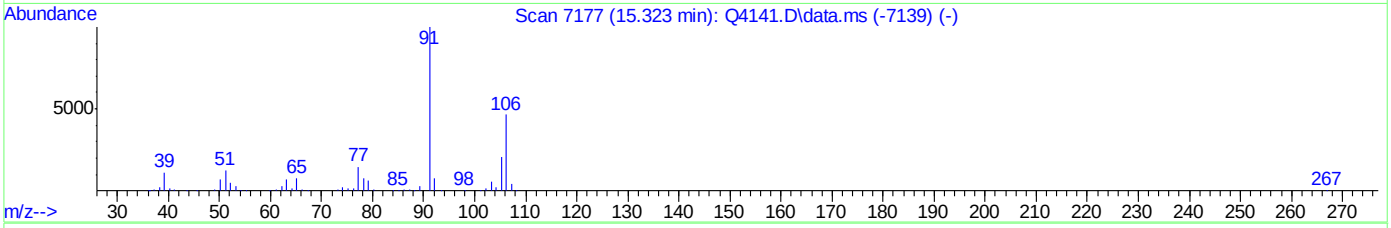
Data Path : C:\msdchem\1\DATA\
Data File : Q4144.D
Acq On : 27 Jul 2007 4:07 pm
Operator : danat
Sample : ic220-0.5 (M028)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 09:08:25 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 15:51:48 2007
Response via : Initial Calibration






TIC: Q4144.D\data.ms

(56) m,p-XYLENE (m)

15.299min (-0.023) 0.15PPBV

response 4567

| Ion | Exp% | Act% |
|---|---|---|
| 106.00 | 100 | 100 |
| 91.00 | 216.10 | 176.23 |
| 77.00 | 31.60 | 25.30 |
| 0.00 | 0.00 | 0.00 |



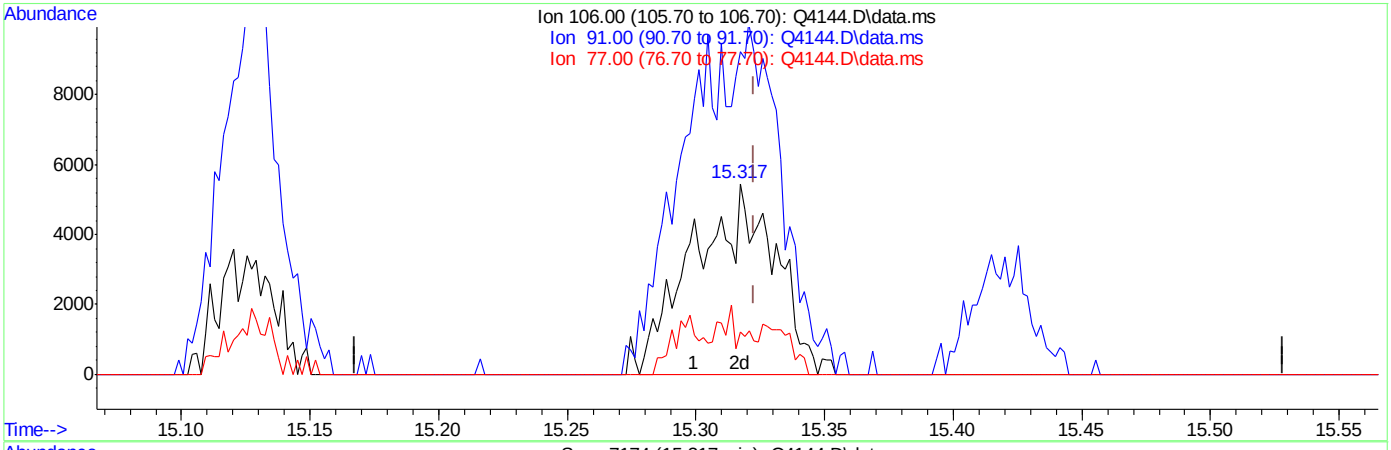
ACCUTEST Laboratories M66578

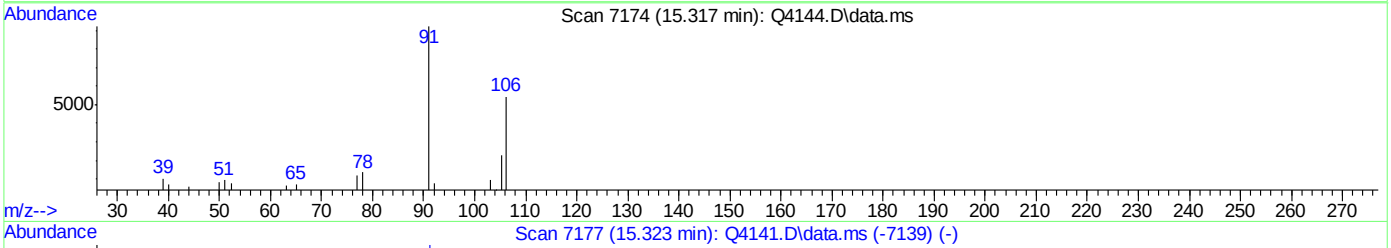
Quantitation Report (Qedit)

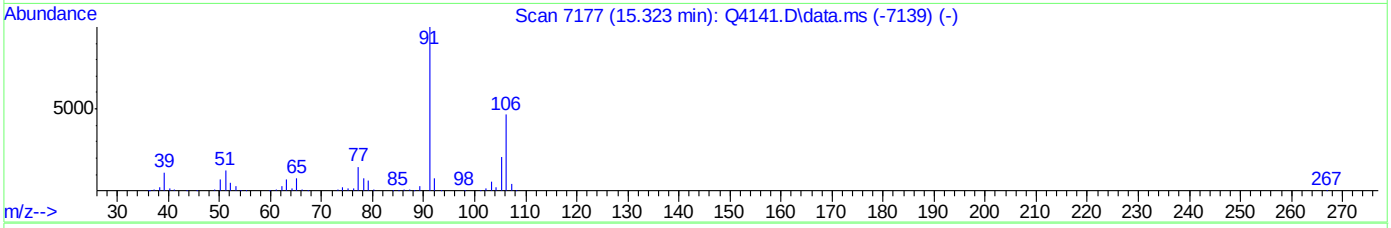
```
Data Path : C:\msdchem\1\DATA\
Data File : Q4144.D
Acq On    : 27 Jul 2007   4:07 pm
Operator  : danat
Sample    : ic220-0.5 (M028)
Misc      : MS13975, MSQ220,,,,,1
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Jul 30 09:08:25 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title  : TO15  by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 15:51:48 2007
Response via : Initial Calibration
```






TIC: Q4144.D\data.ms

(56) m,p-XYLENE (m)

15.317min (-0.005) 0.39PPBV m

response 11904

| Ion | Exp% | Act% |
|---|---|---|
| 106.00 | 100 | 100 |
| 91.00 | 216.10 | 169.28# |
| 77.00 | 31.60 | 22.26# |
| 0.00 | 0.00 | 0.00 |



ACCUTEST Laboratories M66578

Q4145.D

Manual Integrations APPROVED (compounds with "m" flag)

Philip Bassignani 08/01/07 16:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4145.D
Acq On : 27 Jul 2007 4:55 pm
Operator : danat
Sample : ic220-0.2 (M028)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 09:14:34 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 15:51:48 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.630 | 128 | 222886 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.460 | 114 | 911910 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.705 | 117 | 769086 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 61) 4-BROMOFLUOROBENZENE | 16.323 | 95 | 226413 | 4.15 | PPBV | 0.00 |
| Spiked Amount 5.000 | Range 57 - 139 | | Recovery = 83.00% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) DICHLORODIFLUOROMETHANE | 4.037 | 85 | 26404 | 0.22 | PPBV | 100 |
| 3) PROPYLENE | 3.957 | 41 | 2227 | 0.14 | PPBV # | 79 |
| 4) FREON 114 | 4.296 | 85 | 23320 | 0.22 | PPBV | 99 |
| 5) CHLOROMETHANE | 4.191 | 50 | 4650m | 0.18 | PPBV | |
| 6) VINYL CHLORIDE | 4.420 | 62 | 5470 | 0.19 | PPBV # | 86 |
| 7) 1,3-BUTADIENE | 4.562 | 39 | 4370m | 0.19 | PPBV | |
| 8) BROMOMETHANE | 4.825 | 94 | 6938 | 0.21 | PPBV | 91 |
| 9) CHLOROETHANE | 5.007 | 64 | 1929 | 0.17 | PPBV # | 42 |
| 10) TRICHLOROFLUOROMETHANE | 5.783 | 101 | 28501 | 0.23 | PPBV | 99 |
| 11) ISOPROPYL ALCOHOL | 5.847 | 45 | 15853 | 0.36 | PPBV | 66 |
| 12) ACETONE | 5.616 | 43 | 20557 | 0.41 | PPBV | 96 |
| 13) PENTANE | 6.138 | 42 | 6249 | 0.22 | PPBV | 92 |
| 14) 1,1-DICHLOROETHYLENE | 6.420 | 96 | 7391 | 0.23 | PPBV # | 88 |
| 15) CARBON DISULFIDE | 6.851 | 76 | 23530 | 0.24 | PPBV | 92 |
| 16) ETHANOL | 5.100 | 45 | 1956 | 0.26 | PPBV | 75 |
| 17) BROMOETHENE | 5.371 | 106 | 6163m | 0.20 | PPBV | |
| 18) METHYLENE CHLORIDE | 6.541 | 84 | 26150 | 0.49 | PPBV | 90 |
| 19) 3-CHLOROPROPENE | 6.653 | 39 | 5240 | 0.21 | PPBV # | 70 |
| 20) FREON 113 | 6.800 | 151 | 25562 | 0.30 | PPBV | 94 |
| 21) TRANS-1,2-DICHLOROETHY... | 7.464 | 96 | 6690 | 0.22 | PPBV | 98 |
| 22) TERTIARY BUTYL ALCOHOL | 6.464 | 59 | 9812 | 0.21 | PPBV | 76 |
| 23) METHYL TERTIARY BUTYL ... | 7.728 | 73 | 11239m | 0.20 | PPBV | |
| 24) TETRAHYDROFURAN | 9.160 | 42 | 1637m | 0.11 | PPBV | |
| 25) HEXANE | 8.663 | 57 | 6388 | 0.20 | PPBV | 87 |
| 26) VINYL ACETATE | 7.790 | 43 | 8653 | 0.21 | PPBV # | 77 |
| 27) 1,1-DICHLOROETHANE | 7.673 | 63 | 12239 | 0.23 | PPBV | 97 |
| 28) METHYL ETHYL KETONE | 8.049 | 43 | 7074 | 0.19 | PPBV | 76 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.466 | 96 | 3550 | 0.18 | PPBV # | 79 |
| 30) ETHYL ACETATE | 8.669 | 43 | 12501 | 0.18 | PPBV # | 95 |
| 31) CHLOROFORM | 8.750 | 83 | 16043 | 0.23 | PPBV | 96 |
| 32) 1,1,1-TRICHLOROETHANE | 9.702 | 97 | 15981 | 0.23 | PPBV | 98 |
| 33) CARBON TETRACHLORIDE | 10.293 | 117 | 19082 | 0.22 | PPBV | 98 |
| 34) 1,2-DICHLOROETHANE | 9.460 | 62 | 8032 | 0.20 | PPBV | 97 |
| 36) BENZENE | 10.149 | 78 | 8401 | 0.17 | PPBV | 93 |
| 37) CYCLOHEXANE | 10.412 | 84 | 2727 | 0.13 | PPBV | 84 |
| 38) TRICHLOROETHYLENE | 11.143 | 95 | 5388 | 0.18 | PPBV | 97 |
| 39) 1,2-DICHLOROPROPANE | 10.919 | 63 | 3728 | 0.21 | PPBV # | 67 |
| 40) BROMODICHLOROMETHANE | 11.107 | 83 | 12423 | 0.23 | PPBV | 96 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.162 | 57 | 9377 | 0.12 | PPBV | 89 |
| 43) HEPTANE | 11.398 | 43 | 2722 | 0.10 | PPBV | 91 |
| 44) METHYL ISOBUTYL KETONE | 11.989 | 43 | 2979 | 0.09 | PPBV # | 81 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4145.D
Acq On : 27 Jul 2007 4:55 pm
Operator : danat
Sample : ic220-0.2 (M028)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 09:14:34 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 15:51:48 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 45) cis-1,3-DICHLOROPROPENE | 11.959 | 75 | 3257 | 0.13 PPBV # | 67 |
| 46) TOLUENE | 12.923 | 92 | 3036 | 0.10 PPBV # | 74 |
| 47) trans-1,3-DICHLOROPROPENE | 12.463 | 75 | 2492 | 0.11 PPBV # | 83 |
| 48) 1,1,2-TRICHLOROETHANE | 12.646 | 83 | 3893 | 0.20 PPBV | 89 |
| 51) TETRACHLOROETHYLENE | 14.053 | 164 | 6006 | 0.20 PPBV | 95 |
| 52) DIBROMOCHLOROMETHANE | 13.352 | 129 | 9137 | 0.20 PPBV | 95 |
| 53) 1,2-DIBROMOETHANE | 13.603 | 107 | 5337 | 0.17 PPBV # | 96 |
| 54) CHLOROBENZENE | 14.746 | 112 | 8252 | 0.17 PPBV | 95 |
| 55) ETHYLBENZENE | 15.131 | 91 | 5620 | 0.09 PPBV | 85 |
| 56) m,p-XYLENE | 15.317 | 106 | 2862 | 0.12 PPBV # | 66 |
| 57) o-XYLENE | 15.823 | 106 | 1519 | 0.06 PPBV # | 91 |
| 58) STYRENE | 15.708 | 104 | 1949 | 0.06 PPBV # | 55 |
| 59) NONANE | 16.016 | 43 | 1606 | 0.05 PPBV # | 68 |
| 60) BROMOFORM | 15.424 | 173 | 6935 | 0.17 PPBV | 93 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.810 | 83 | 7013 | 0.16 PPBV | 94 |
| 63) ISOPROPYLBENZENE | 16.471 | 105 | 6132 | 0.09 PPBV | 79 |
| 64) 2-CHLOROTOLUENE | 17.023 | 91 | 3556 | 0.08 PPBV | 77 |
| 65) 4-ETHYLTOLUENE | 17.289 | 105 | 2944 | 0.06 PPBV | 98 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.289 | 105 | 2944 | 0.06 PPBV | 73 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.752 | 105 | 2026 | 0.05 PPBV | 80 |
| 68) m-DICHLOROBENZENE | 17.945 | 146 | 2631 | 0.08 PPBV | 91 |
| 70) p-DICHLOROBENZENE | 18.013 | 146 | 2622 | 0.08 PPBV # | 71 |
| 71) o-DICHLOROBENZENE | 18.402 | 146 | 2515 | 0.09 PPBV # | 85 |
| 72) HEXACHLOROBUTADIENE | 20.794 | 225 | 5973 | 0.26 PPBV | 98 |

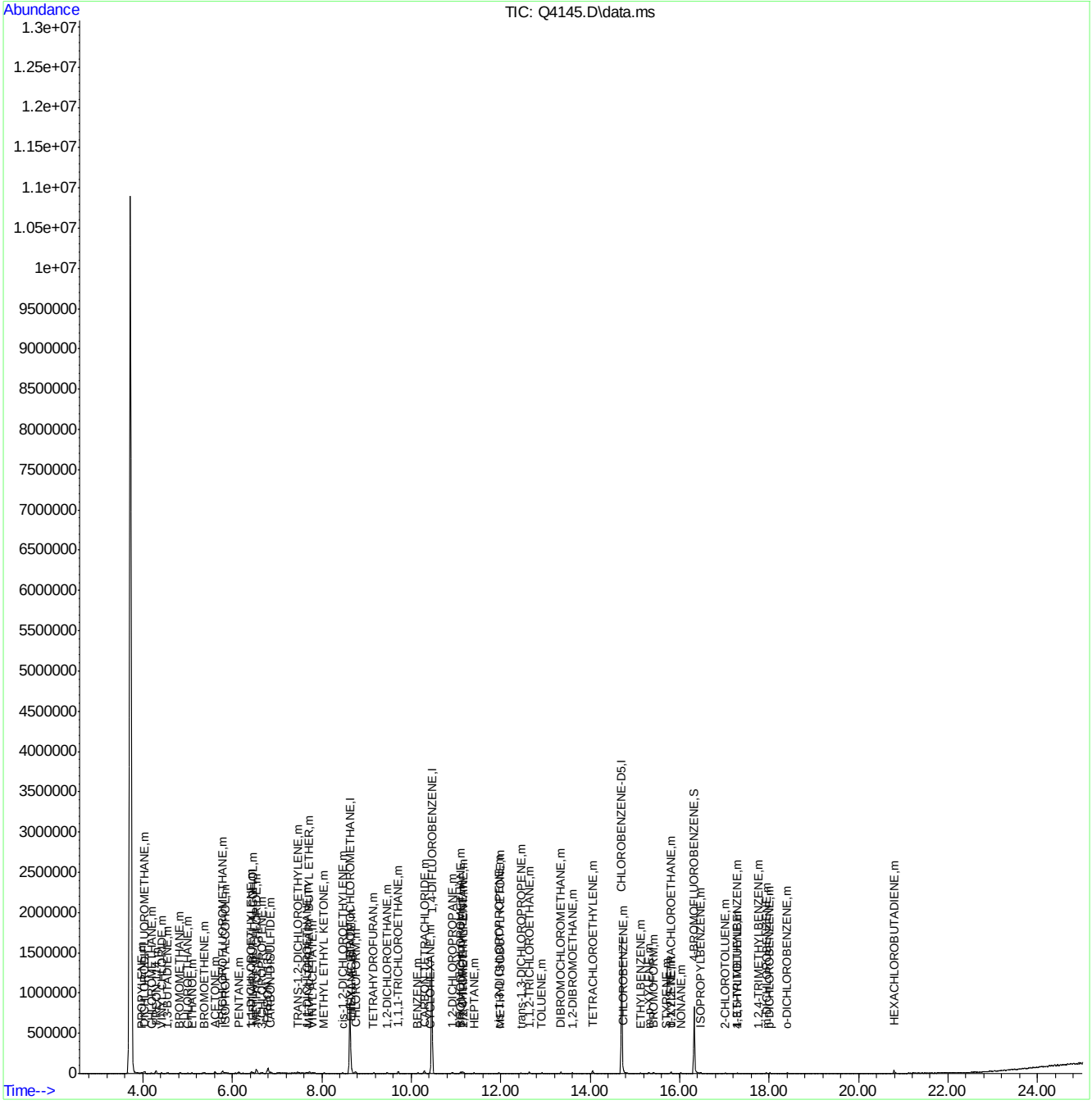
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4145.D
Acq On : 27 Jul 2007 4:55 pm
Operator : danat
Sample : ic220-0.2 (M028)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 09:14:34 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 15:51:48 2007
Response via : Initial Calibration



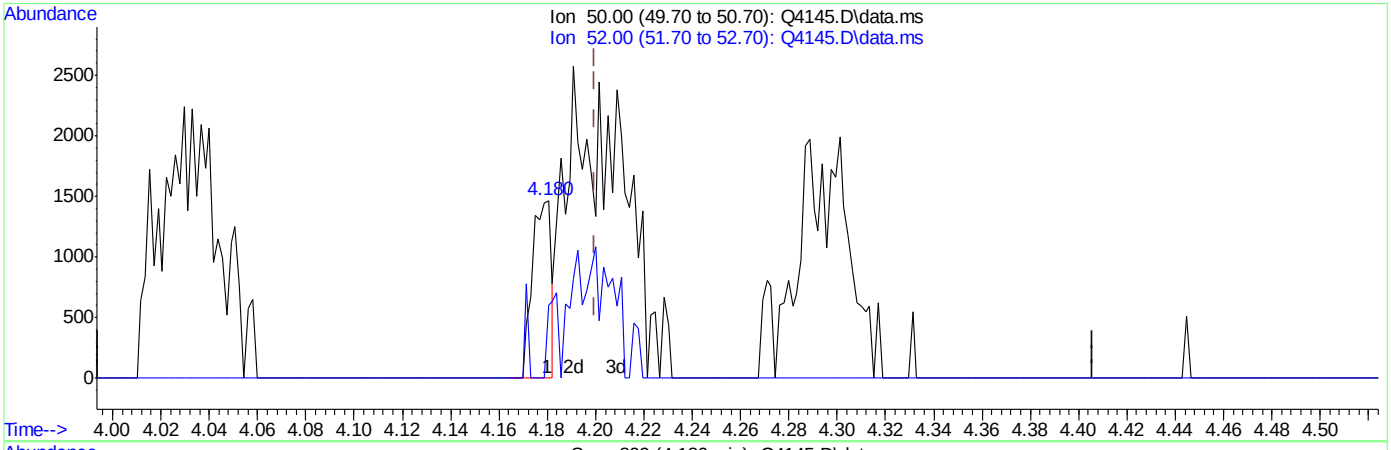


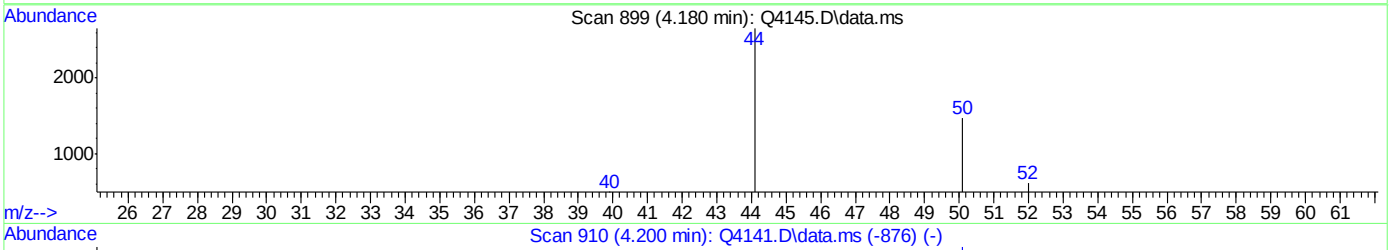
Quantitation Report (Qedit)

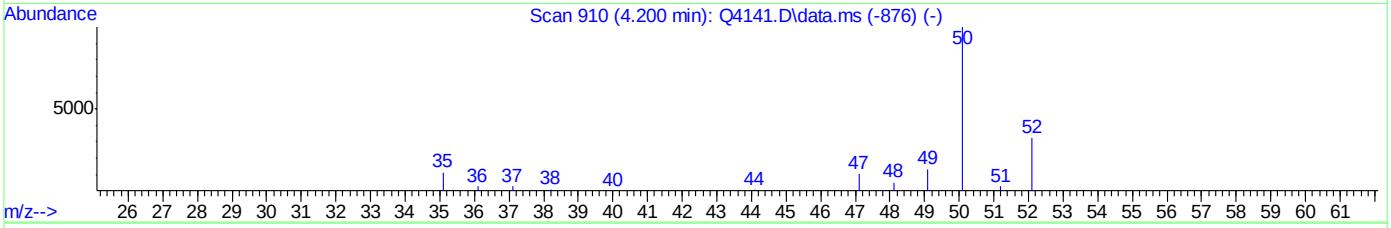
Data Path : C:\msdchem\1\DATA\
Data File : Q4145.D
Acq On : 27 Jul 2007 4:55 pm
Operator : danat
Sample : ic220-0.2 (M028)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 09:10:43 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 15:51:48 2007
Response via : Initial Calibration






TIC: Q4145.D\data.ms

(5) CHLOROMETHANE (m)

4.180min (-0.020) 0.03PPBV

response 794

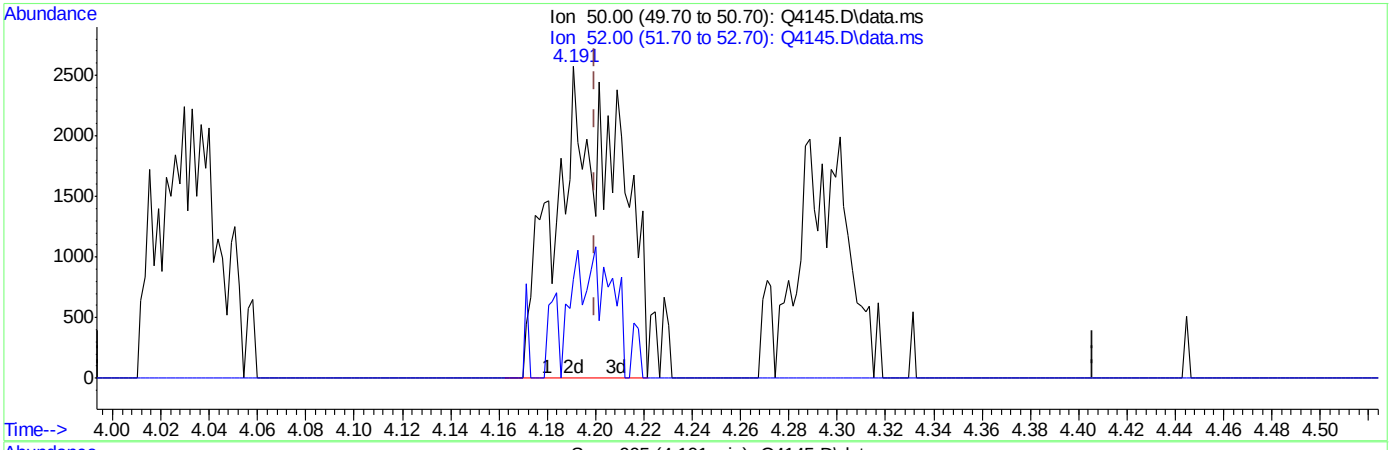
| Ion | Exp% | Act% |
|---|---|---|
| 50.00 | 100 | 100 |
| 52.00 | 32.00 | 26.90 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

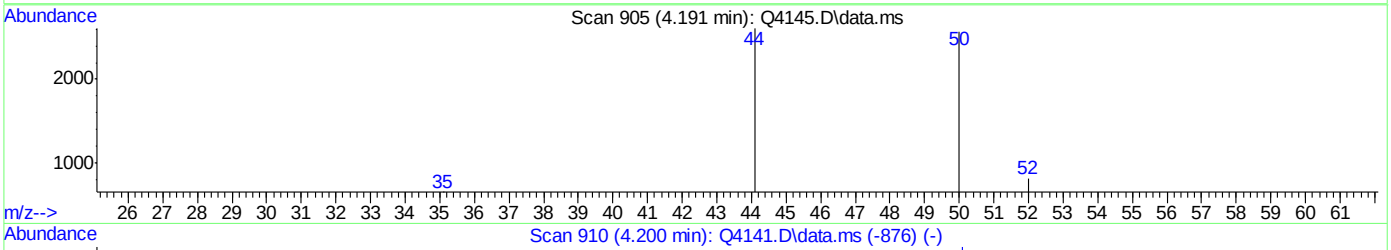
Quantitation Report (Qedit)

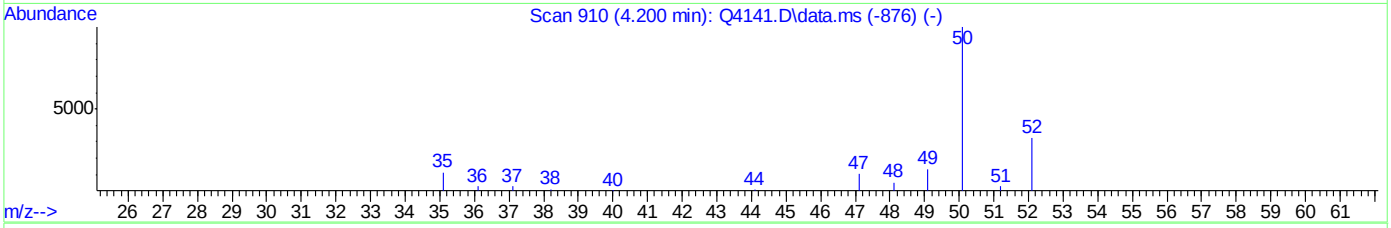
Data Path : C:\msdchem\1\DATA\
Data File : Q4145.D
Acq On : 27 Jul 2007 4:55 pm
Operator : danat
Sample : ic220-0.2 (M028)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 09:10:43 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 15:51:48 2007
Response via : Initial Calibration






TIC: Q4145.D\data.ms

(5) CHLOROMETHANE (m)

4.191min (-0.009) 0.18PPBV m

response 4650

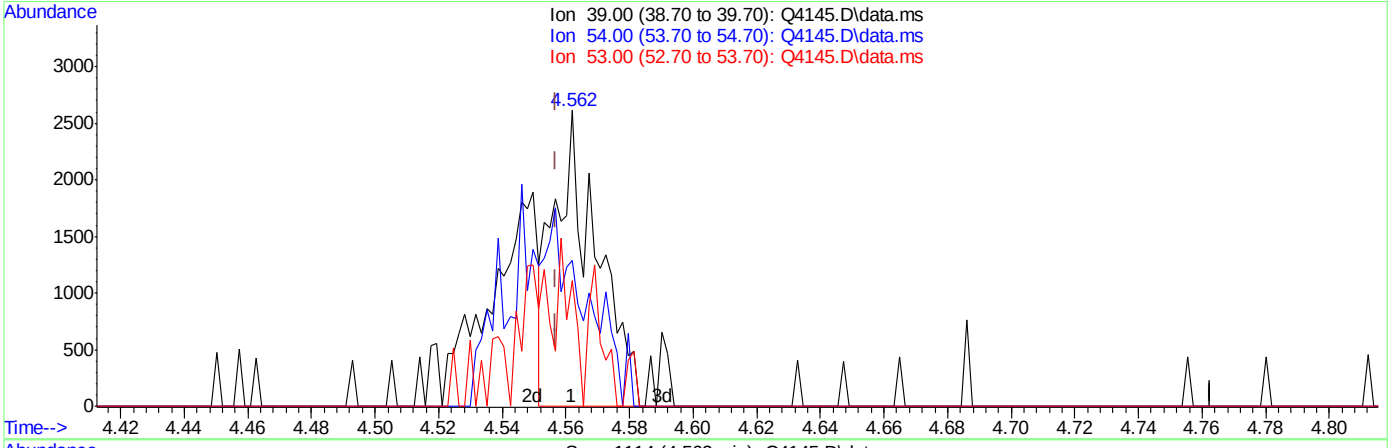
| Ion | Exp% | Act% |
|---|---|---|
| 50.00 | 100 | 100 |
| 52.00 | 32.00 | 31.64 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

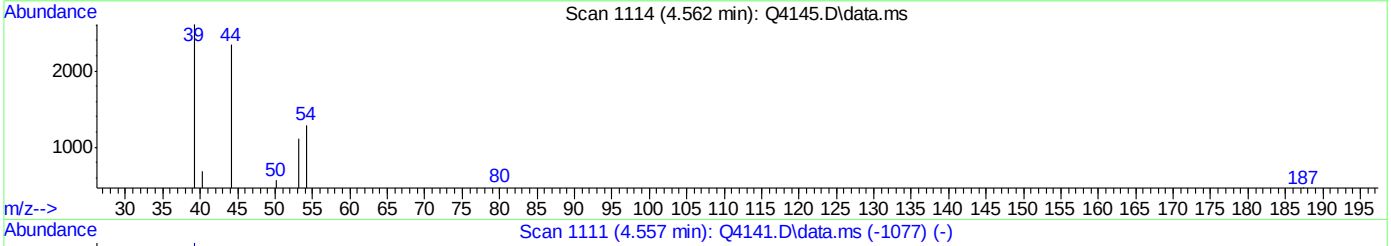
Quantitation Report (Qedit)

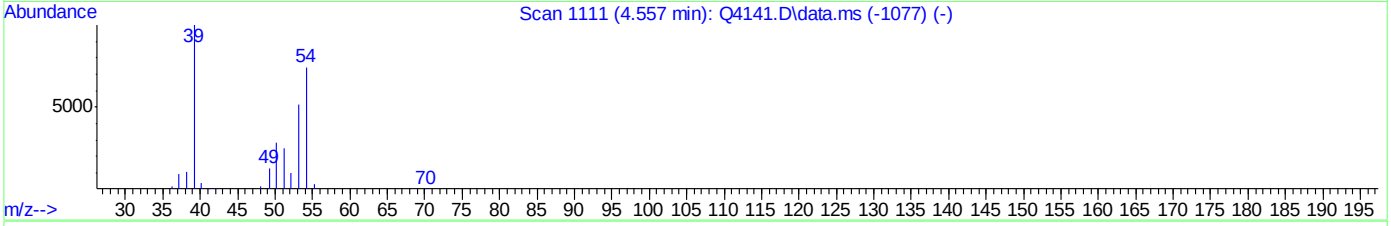
Data Path : C:\msdchem\1\DATA\
Data File : Q4145.D
Acq On : 27 Jul 2007 4:55 pm
Operator : danat
Sample : ic220-0.2 (M028)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 09:10:43 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 15:51:48 2007
Response via : Initial Calibration






TIC: Q4145.D\data.ms

(7) 1,3-BUTADIENE (m)

4.562min (+0.005) 0.11PPBV

response 2458

| Ion | Exp% | Act% |
|---|---|---|
| 39.00 | 100 | 100 |
| 54.00 | 76.50 | 0.00# |
| 53.00 | 52.30 | 0.00# |
| 0.00 | 0.00 | 0.00 |



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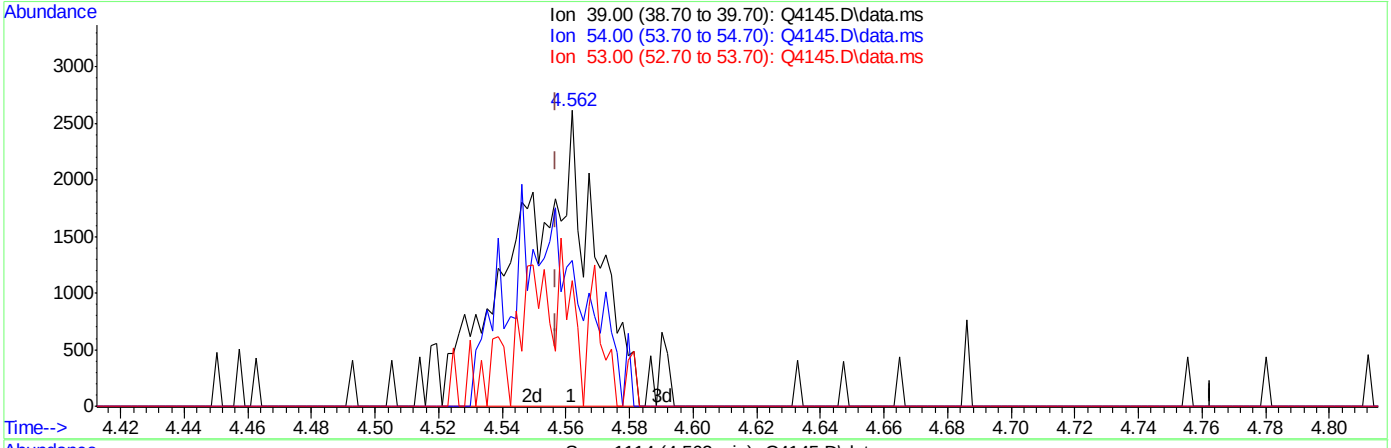
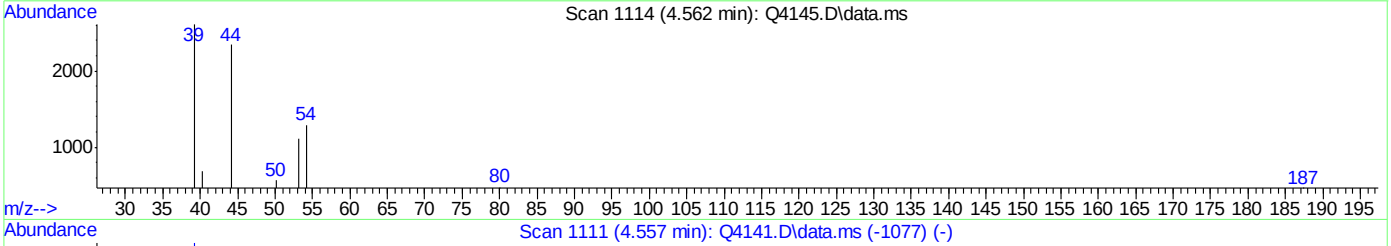
Quantitation Report (Qedit)

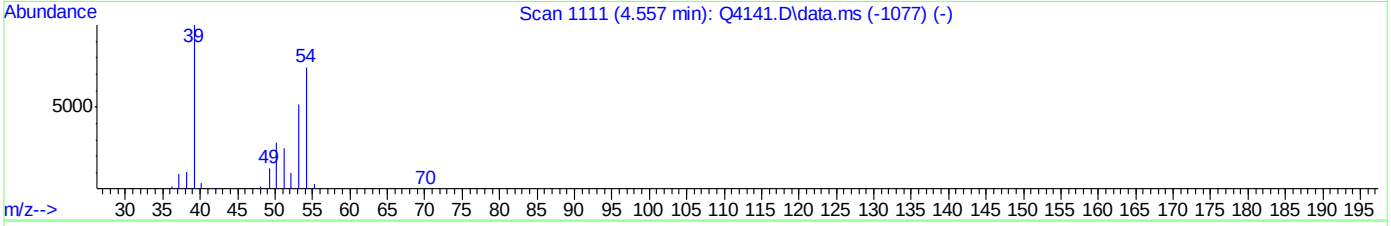
Data Path : C:\msdchem\1\DATA\
Data File : Q4145.D
Acq On : 27 Jul 2007 4:55 pm
Operator : danat
Sample : ic220-0.2 (M028)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 09:10:43 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 15:51:48 2007
Response via : Initial Calibration






TIC: Q4145.D\data.ms

(7) 1,3-BUTADIENE (m)

4.562min (+0.005) 0.19PPBV m

response 4370

| Ion | Exp% | Act% |
|---|---|---|
| 39.00 | 100 | 100 |
| 54.00 | 76.50 | 0.00# |
| 53.00 | 52.30 | 0.00# |
| 0.00 | 0.00 | 0.00 |



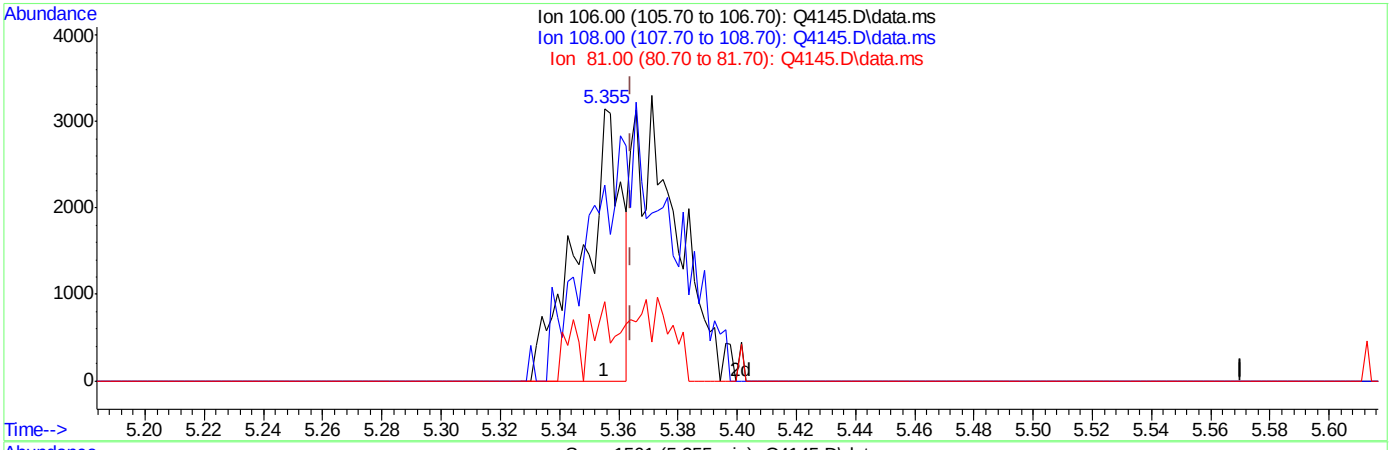
ACCUTEST Laboratories M66578

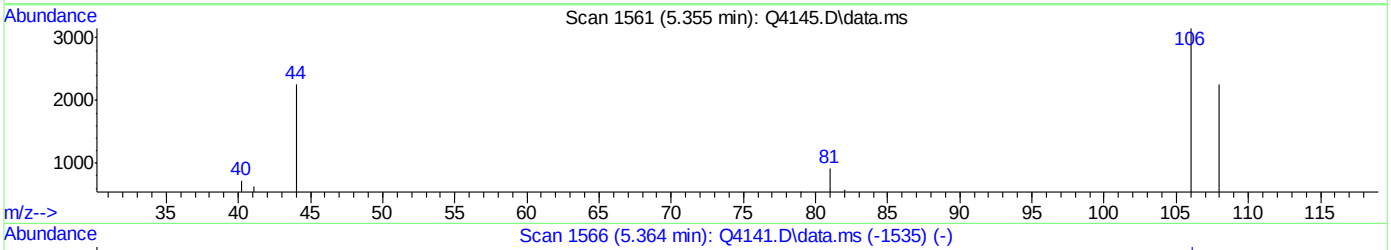
Quantitation Report (Qedit)

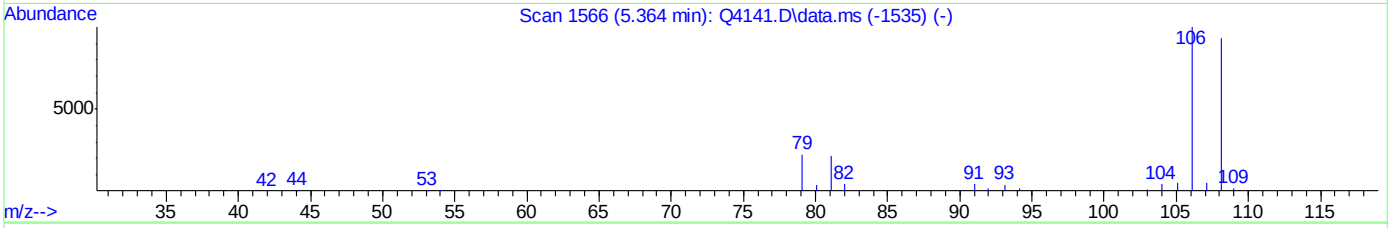
Data Path : C:\msdchem\1\DATA\
Data File : Q4145.D
Acq On : 27 Jul 2007 4:55 pm
Operator : danat
Sample : ic220-0.2 (M028)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 09:10:43 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 15:51:48 2007
Response via : Initial Calibration






TIC: Q4145.D\data.ms

(17) BROMOETHENE (m)

5.355min (-0.009) 0.10PPBV

response 2923

| Ion | Exp% | Act% |
|---|---|---|
| 106.00 | 100 | 100 |
| 108.00 | 95.00 | 0.00# |
| 81.00 | 22.30 | 18.06 |
| 0.00 | 0.00 | 0.00 |



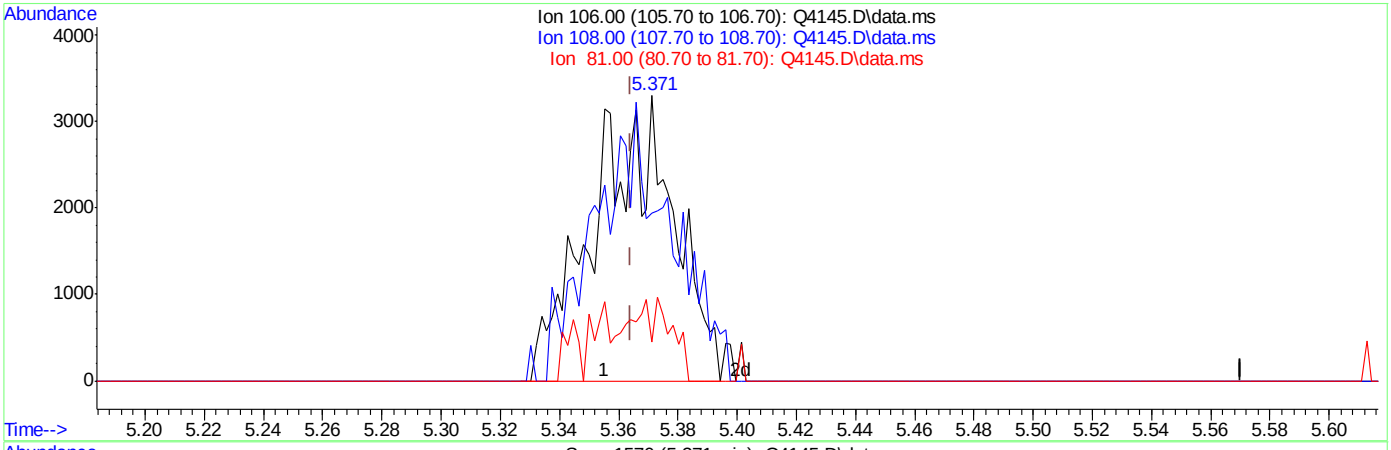
ACCUTEST Laboratories M66578

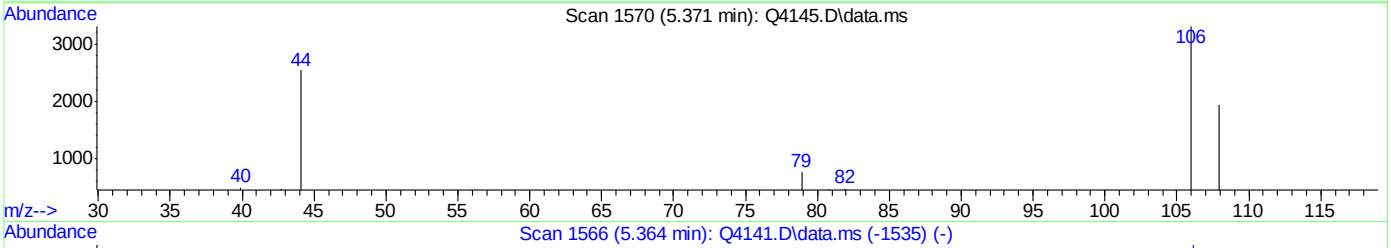
Quantitation Report (Qedit)

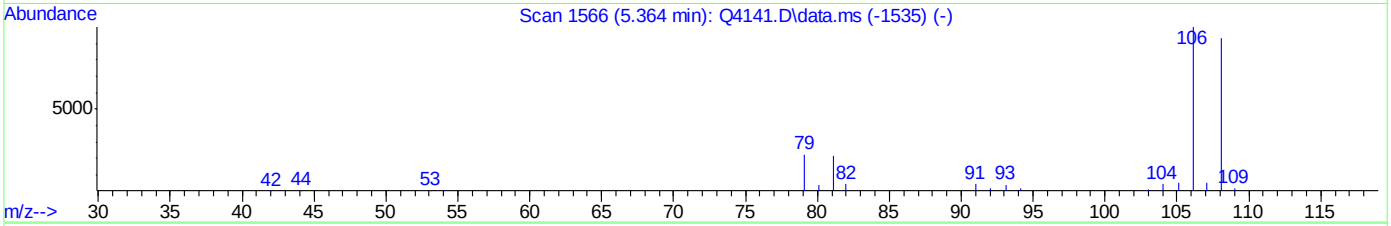
Data Path : C:\msdchem\1\DATA\
Data File : Q4145.D
Acq On : 27 Jul 2007 4:55 pm
Operator : danat
Sample : ic220-0.2 (M028)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 09:10:43 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 15:51:48 2007
Response via : Initial Calibration






TIC: Q4145.D\data.ms

(17) BROMOETHENE (m)

5.371min (+0.007) 0.20PPBV m

response 6163

| Ion | Exp% | Act% |
|---|---|---|
| 106.00 | 100 | 100 |
| 108.00 | 95.00 | 0.00# |
| 81.00 | 22.30 | 8.57# |
| 0.00 | 0.00 | 0.00 |



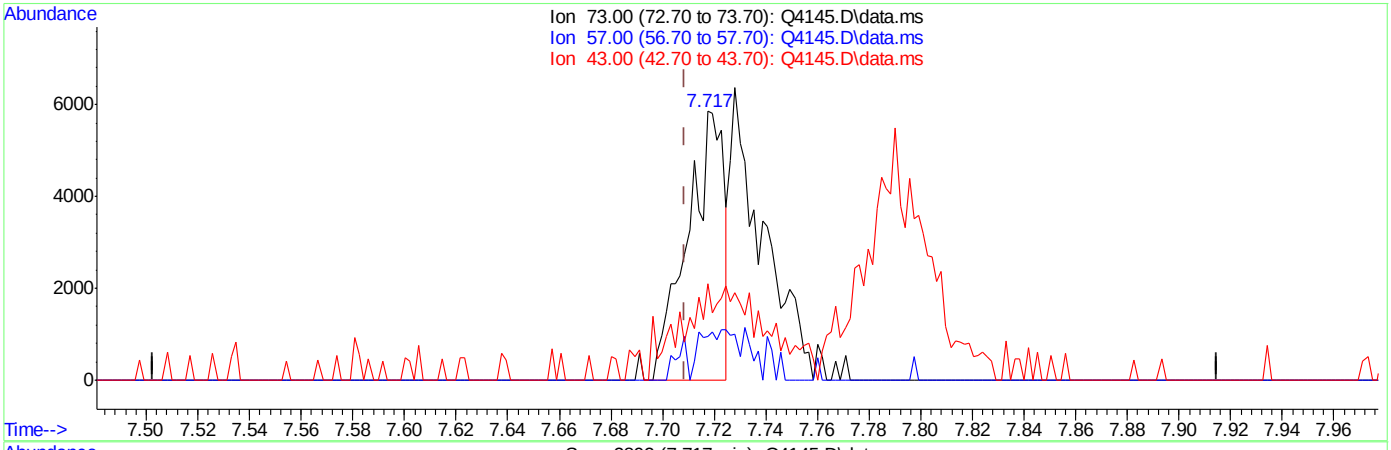
ACCUTEST Laboratories M66578

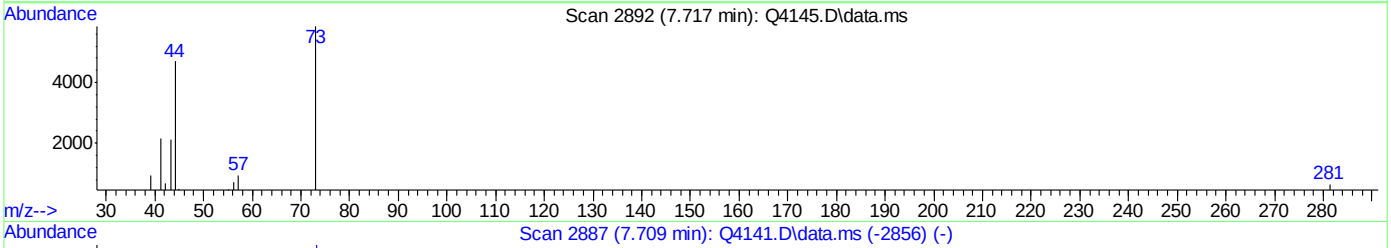
Quantitation Report (Qedit)

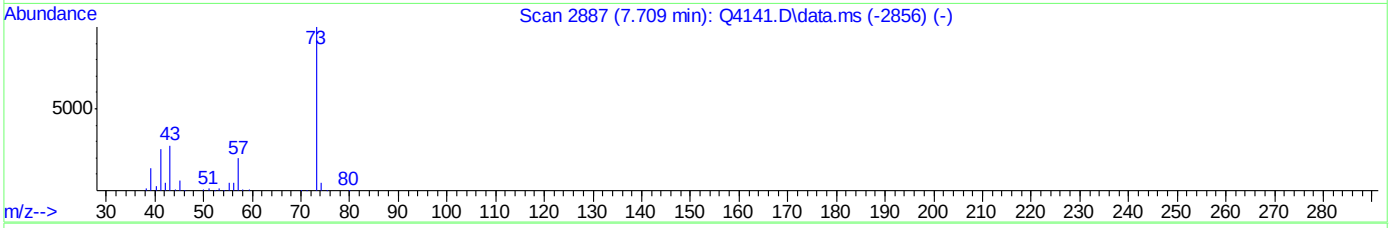
Data Path : C:\msdchem\1\DATA\
Data File : Q4145.D
Acq On : 27 Jul 2007 4:55 pm
Operator : danat
Sample : ic220-0.2 (M028)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 09:10:43 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 15:51:48 2007
Response via : Initial Calibration






TIC: Q4145.D\data.ms

(23) METHYL TERTIARY BUTYL ETHER (m)

7.717min (+0.009) 0.10PPBV

response 5700

| Ion | Exp% | Act% |
|---|---|---|
| 73.00 | 100 | 100 |
| 57.00 | 19.50 | 14.40 |
| 43.00 | 27.10 | 83.88# |
| 0.00 | 0.00 | 0.00 |



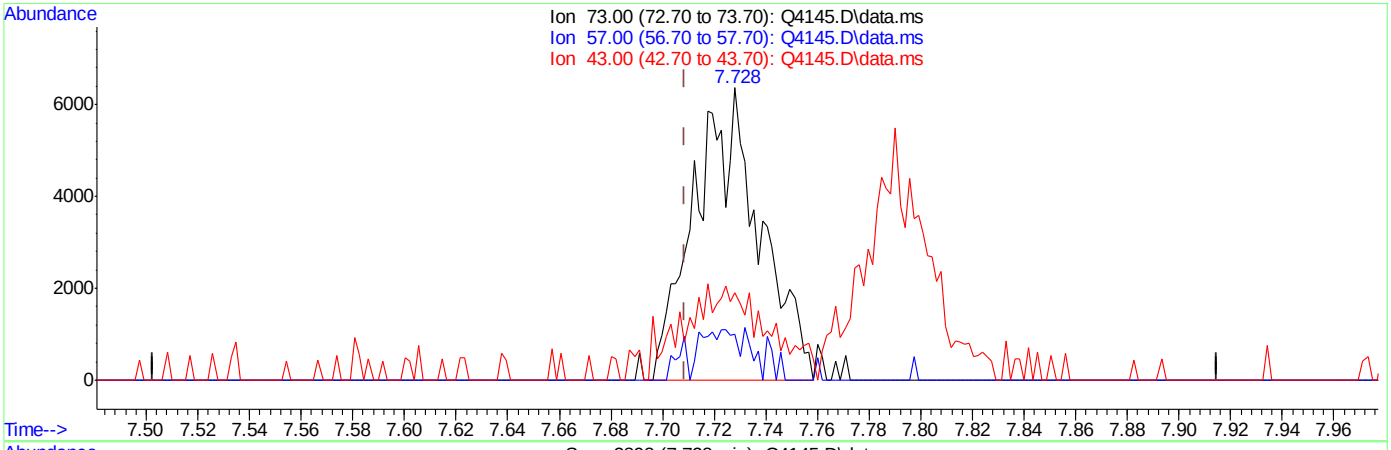
ACCUTEST Laboratories M66578

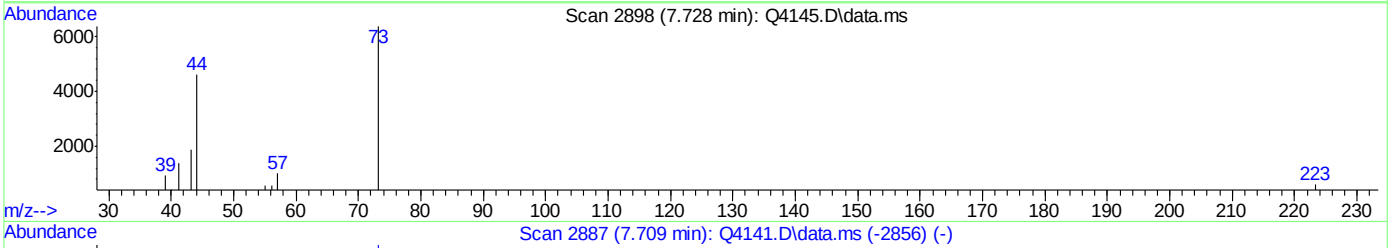
Quantitation Report (Qedit)

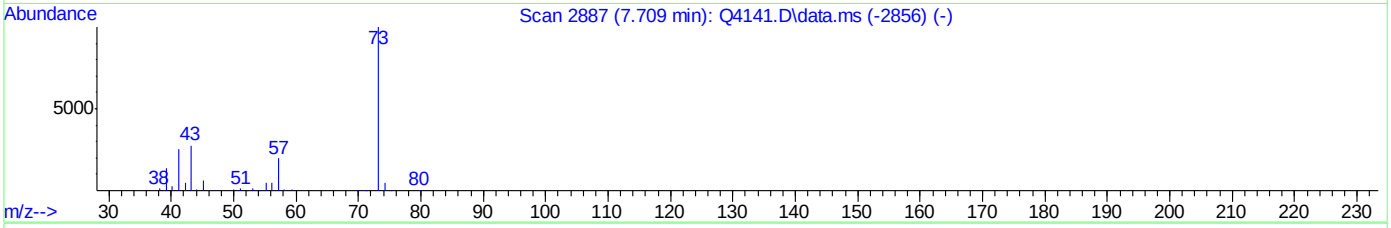
Data Path : C:\msdchem\1\DATA\
Data File : Q4145.D
Acq On : 27 Jul 2007 4:55 pm
Operator : danat
Sample : ic220-0.2 (M028)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 09:10:43 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 15:51:48 2007
Response via : Initial Calibration






TIC: Q4145.D\data.ms

(23) METHYL TERTIARY BUTYL ETHER (m)

7.728min (+0.019) 0.20PPBV m

response 11239

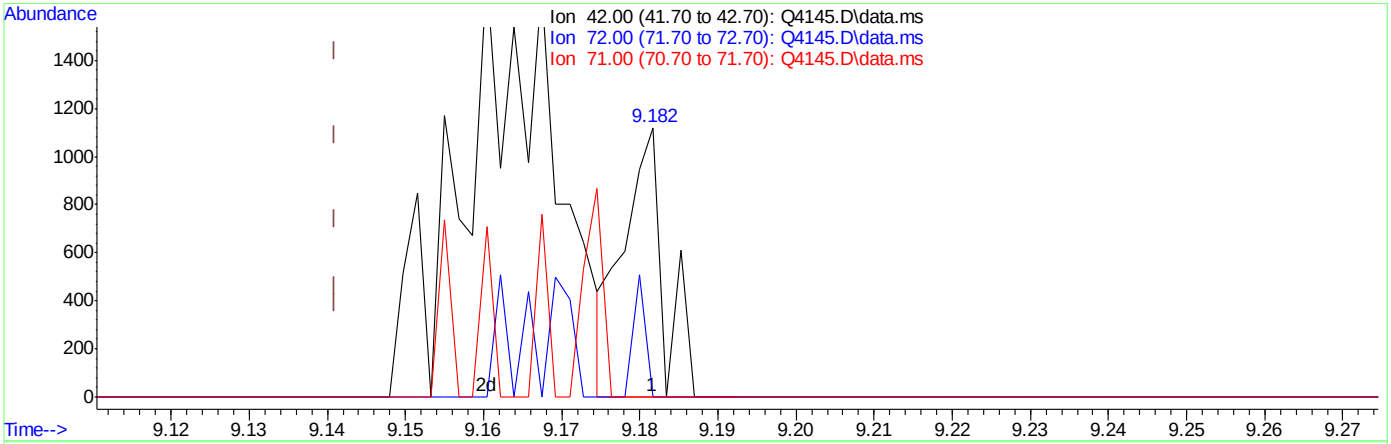
| Ion | Exp% | Act% |
|---|---|---|
| 73.00 | 100 | 100 |
| 57.00 | 19.50 | 7.30 |
| 43.00 | 27.10 | 42.54 |
| 0.00 | 0.00 | 0.00 |

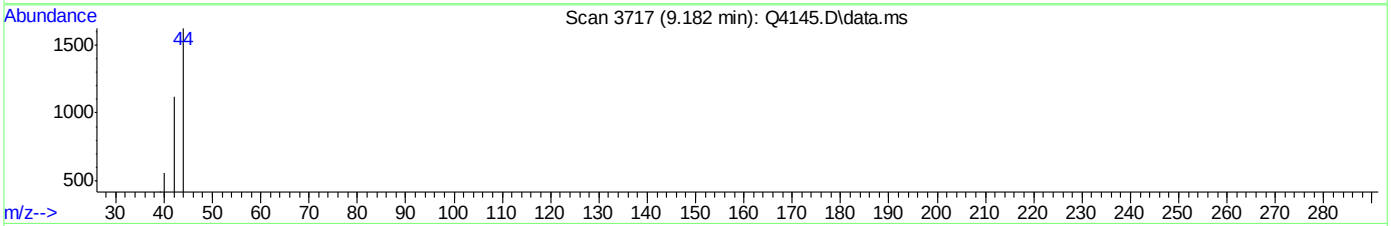
Quantitation Report (Qedit)

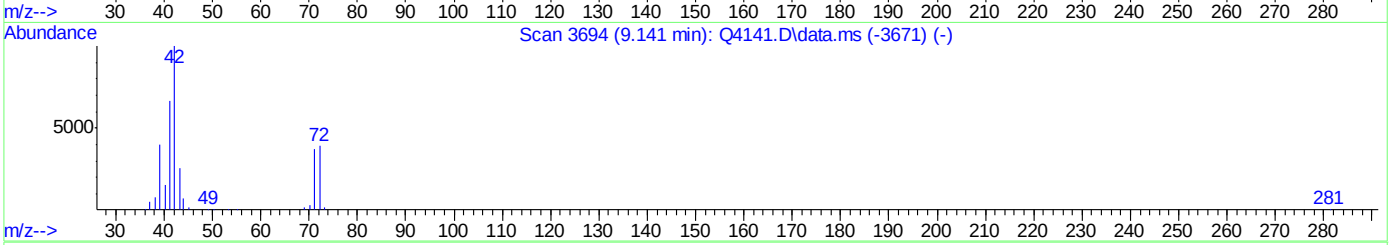
Data Path : C:\msdchem\1\DATA\
Data File : Q4145.D
Acq On : 27 Jul 2007 4:55 pm
Operator : danat
Sample : ic220-0.2 (M028)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 09:10:43 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 15:51:48 2007
Response via : Initial Calibration






TIC: Q4145.D\data.ms

(24) TETRAHYDROFURAN (m)

9.182min (+0.041) 0.03PPBV

response 406

| Ion | Exp% | Act% |
|---|---|---|
| 42.00 | 100 | 100 |
| 72.00 | 37.30 | 35.22 |
| 71.00 | 38.20 | 19.95 |
| 0.00 | 0.00 | 0.00 |



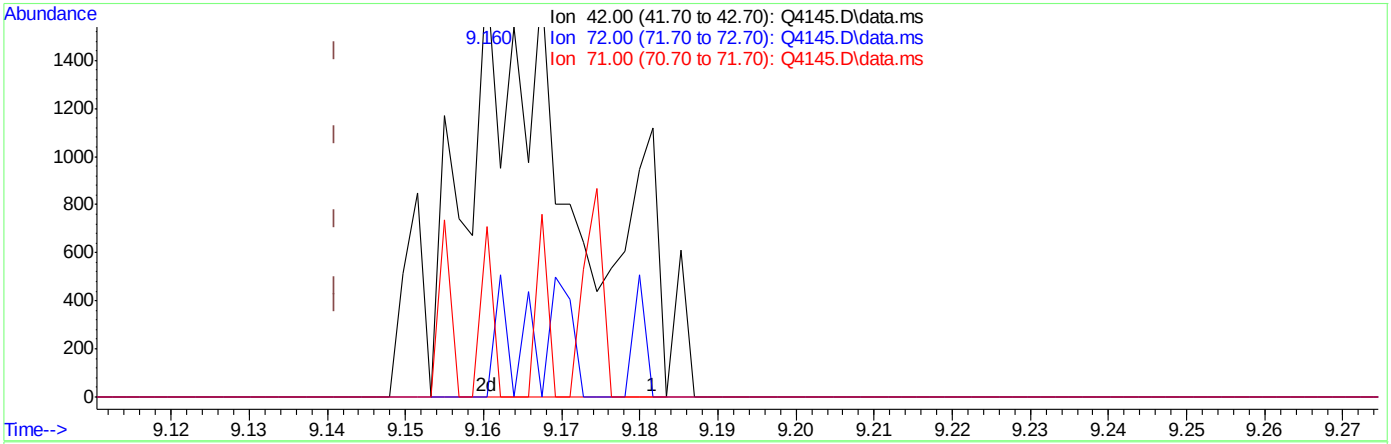
ACCUTEST Laboratories M66578

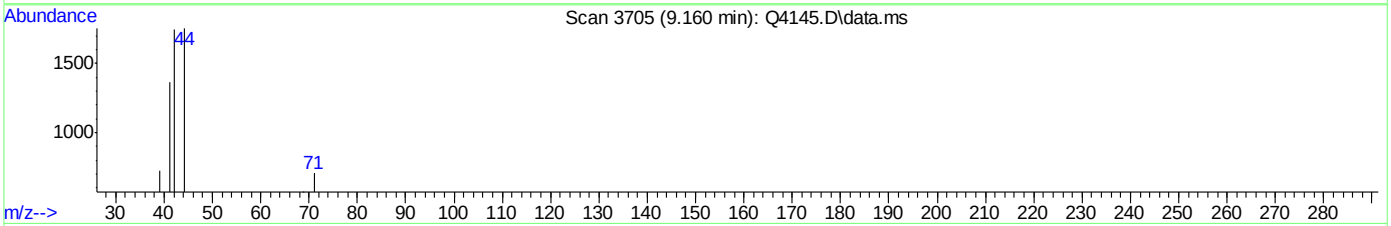
Quantitation Report (Qedit)

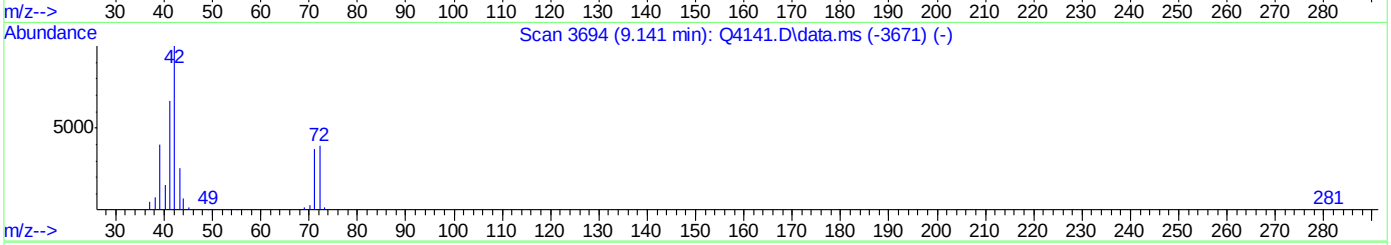
Data Path : C:\msdchem\1\DATA\
Data File : Q4145.D
Acq On : 27 Jul 2007 4:55 pm
Operator : danat
Sample : ic220-0.2 (M028)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 09:10:43 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Fri Jul 27 15:51:48 2007
Response via : Initial Calibration






TIC: Q4145.D\data.ms

(24) TETRAHYDROFURAN (m)

9.160min (+0.019) 0.11PPBV m

response 1637

| Ion | Exp% | Act% |
|---|---|---|
| 42.00 | 100 | 100 |
| 72.00 | 37.30 | 8.74# |
| 71.00 | 38.20 | 4.95# |
| 0.00 | 0.00 | 0.00 |



ACCUTEST Laboratories M66578

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4148A.D
Acq On : 30 Jul 2007 11:46 am
Operator : danat
Sample : ICV220-10 (M069)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 12:01:39 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.630 | 128 | 224276 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.461 | 114 | 985735 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.701 | 117 | 859322 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 61) 4-BROMOFLUOROBENZENE | 16.325 | 95 | 333706 | 5.47 | PPBV | 0.00 |
| Spiked Amount 5.000 | Range 57 - 139 | | Recovery = 109.40% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) DICHLORODIFLUOROMETHANE | 4.037 | 85 | 1330470 | 10.97 | PPBV | 99 |
| 3) PROPYLENE | 3.966 | 41 | 207133 | 12.37 | PPBV | 92 |
| 4) FREON 114 | 4.298 | 85 | 1044148 | 9.80 | PPBV | 96 |
| 5) CHLOROMETHANE | 4.198 | 50 | 263074 | 10.12 | PPBV | 97 |
| 6) VINYL CHLORIDE | 4.418 | 62 | 299682 | 10.59 | PPBV | 99 |
| 7) 1,3-BUTADIENE | 4.558 | 39 | 215037 | 9.48 | PPBV | 93 |
| 8) BROMOMETHANE | 4.834 | 94 | 336451 | 10.32 | PPBV | 100 |
| 9) CHLOROETHANE | 5.000 | 64 | 116199 | 10.23 | PPBV | 96 |
| 10) TRICHLOROFLUOROMETHANE | 5.788 | 101 | 1203914 | 9.61 | PPBV | 100 |
| 11) ISOPROPYL ALCOHOL | 5.826 | 45 | 400894 | 9.09 | PPBV | 92 |
| 12) ACETONE | 5.593 | 43 | 373403 | 7.35 | PPBV | 97 |
| 13) PENTANE | 6.143 | 42 | 267918 | 9.22 | PPBV | 98 |
| 14) 1,1-DICHLOROETHYLENE | 6.426 | 96 | 317209 | 9.65 | PPBV # | 87 |
| 15) CARBON DISULFIDE | 6.853 | 76 | 996265 | 9.90 | PPBV | 96 |
| 16) ETHANOL | 5.098 | 45 | 64543 | 8.60 | PPBV | 98 |
| 17) BROMOETHENE | 5.366 | 106 | 312731 | 10.31 | PPBV | 99 |
| 18) METHYLENE CHLORIDE | 6.539 | 84 | 269093 | 9.36 | PPBV | 89 |
| 19) 3-CHLOROPROPENE | 6.654 | 39 | 241155 | 9.66 | PPBV | 97 |
| 20) FREON 113 | 6.798 | 151 | 624801 | 9.78 | PPBV | 96 |
| 21) TRANS-1,2-DICHLOROETHY... | 7.462 | 96 | 313135 | 10.40 | PPBV | 92 |
| 22) TERTIARY BUTYL ALCOHOL | 6.427 | 59 | 532671 | 9.11 | PPBV | 99 |
| 23) METHYL TERTIARY BUTYL ... | 7.710 | 73 | 589973 | 10.50 | PPBV | 97 |
| 24) TETRAHYDROFURAN | 9.139 | 42 | 183156 | 9.42 | PPBV | 94 |
| 25) HEXANE | 8.665 | 57 | 343379 | 10.81 | PPBV | 95 |
| 26) VINYL ACETATE | 7.783 | 43 | 379312 | 9.15 | PPBV | 94 |
| 27) 1,1-DICHLOROETHANE | 7.659 | 63 | 520364 | 9.69 | PPBV | 99 |
| 28) METHYL ETHYL KETONE | 8.030 | 43 | 412536 | 11.14 | PPBV | 96 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.467 | 96 | 246315 | 11.18 | PPBV # | 88 |
| 30) ETHYL ACETATE | 8.662 | 43 | 705684 | 10.27 | PPBV | 100 |
| 31) CHLOROFORM | 8.751 | 83 | 720766 | 10.48 | PPBV | 98 |
| 32) 1,1,1-TRICHLOROETHANE | 9.705 | 97 | 739473 | 10.48 | PPBV | 98 |
| 33) CARBON TETRACHLORIDE | 10.289 | 117 | 923304 | 10.67 | PPBV | 99 |
| 34) 1,2-DICHLOROETHANE | 9.462 | 62 | 417872 | 10.13 | PPBV | 99 |
| 36) BENZENE | 10.145 | 78 | 635790 | 11.26 | PPBV | 98 |
| 37) CYCLOHEXANE | 10.410 | 84 | 313704 | 11.85 | PPBV | 95 |
| 38) TRICHLOROETHYLENE | 11.143 | 95 | 422447 | 12.85 | PPBV | 98 |
| 39) 1,2-DICHLOROPROPANE | 10.923 | 63 | 225505 | 11.91 | PPBV | 99 |
| 40) BROMODICHLOROMETHANE | 11.104 | 83 | 644091 | 10.95 | PPBV | 97 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.164 | 57 | 1161836 | 11.93 | PPBV | 100 |
| 42) 1,4-DIOXANE | 11.130 | 88 | 121374 | 10.54 | PPBV | 96 |
| 43) HEPTANE | 11.404 | 43 | 392461 | 11.09 | PPBV | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4148A.D
Acq On : 30 Jul 2007 11:46 am
Operator : danat
Sample : ICV220-10 (M069)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 12:01:39 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.977 | 43 | 482239 | 10.92 | PPBV | 98 |
| 45) cis-1,3-DICHLOROPROPENE | 11.961 | 75 | 356345 | 11.45 | PPBV | 92 |
| 46) TOLUENE | 12.921 | 92 | 426276 | 11.58 | PPBV | 97 |
| 47) trans-1,3-DICHLOROPROPENE | 12.462 | 75 | 272049 | 9.33 | PPBV | 95 |
| 48) 1,1,2-TRICHLOROETHANE | 12.643 | 83 | 253718 | 12.16 | PPBV | 99 |
| 50) 2-HEXANONE | 13.145 | 43 | 376842 | 10.60 | PPBV | 97 |
| 51) TETRACHLOROETHYLENE | 14.057 | 164 | 387753 | 11.39 | PPBV | 99 |
| 52) DIBROMOCHLOROMETHANE | 13.347 | 129 | 589748 | 11.45 | PPBV | 99 |
| 53) 1,2-DIBROMOETHANE | 13.597 | 107 | 427964 | 12.15 | PPBV | 98 |
| 54) CHLOROBENZENE | 14.747 | 112 | 630735 | 11.57 | PPBV | 98 |
| 55) ETHYLBENZENE | 15.127 | 91 | 978697 | 11.92 | PPBV | 100 |
| 56) m,p-XYLENE | 15.324 | 106 | 771039 | 24.57 | PPBV | 99 |
| 57) o-XYLENE | 15.821 | 106 | 378886 | 11.68 | PPBV | 99 |
| 58) STYRENE | 15.702 | 104 | 494774 | 10.92 | PPBV | 99 |
| 59) NONANE | 16.023 | 43 | 547697 | 12.17 | PPBV | 97 |
| 60) BROMOFORM | 15.420 | 173 | 538766 | 11.96 | PPBV | 98 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.809 | 83 | 635958 | 12.71 | PPBV | 98 |
| 63) ISOPROPYLBENZENE | 16.465 | 105 | 1108771 | 13.40 | PPBV | 100 |
| 64) 2-CHLOROTOLUENE | 17.016 | 91 | 808671 | 15.60 | PPBV | 95 |
| 65) 4-ETHYLTOLUENE | 17.204 | 105 | 899399 | 12.93 | PPBV | 99 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.291 | 105 | 926350 | 14.44 | PPBV | 96 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.756 | 105 | 806838 | 13.23 | PPBV | 99 |
| 68) m-DICHLOROBENZENE | 17.935 | 146 | 505812 | 13.12 | PPBV | 98 |
| 69) BENZYL CHLORIDE | 17.914 | 91 | 457251 | 12.35 | PPBV | 98 |
| 70) p-DICHLOROBENZENE | 18.011 | 146 | 470421 | 12.31 | PPBV | 98 |
| 71) o-DICHLOROBENZENE | 18.400 | 146 | 434602 | 11.59 | PPBV | 100 |
| 72) HEXACHLOROBUTADIENE | 20.792 | 225 | 235837 | 10.50 | PPBV | 99 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.302 | 180 | 95861 | 8.69 | PPBV | 98 |

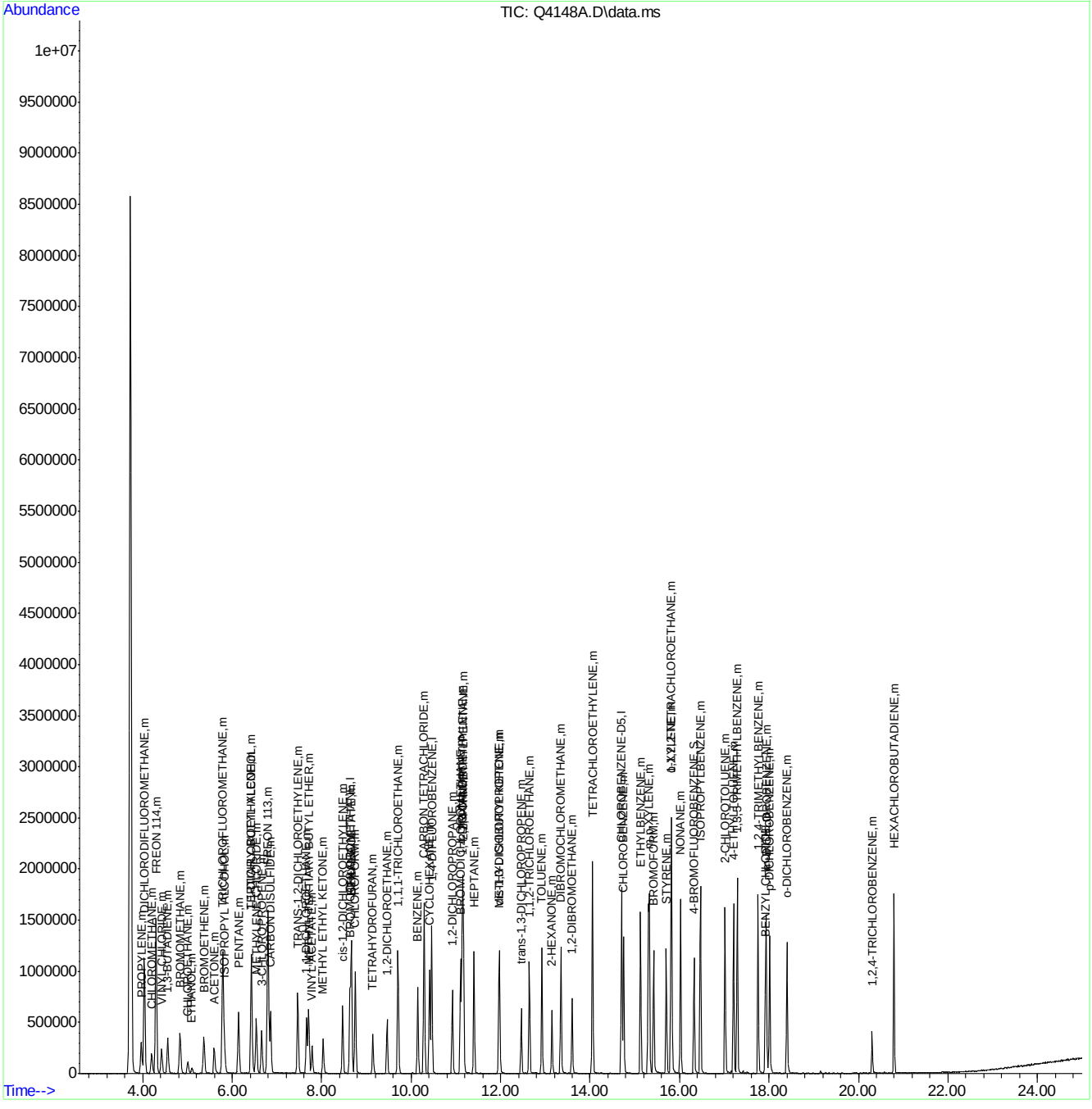
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4148A.D
Acq On : 30 Jul 2007 11:46 am
Operator : danat
Sample : ICV220-10 (M069)
Misc : MS13975, MSQ220,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 12:01:39 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration





Manual Integrations APPROVED (compounds with "m" flag)
Philip Bassignani
08/03/07 15:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4163.D
Acq On : 1 Aug 2007 11:54 am
Operator : danat
Sample : CC220-10 (M069)
Misc : MS14034, MSQ221,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 12:27:09 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) BROMOCHLOROMETHANE | 8.633 | 128 | 297723 | 10.00 | PPBV | 0.00 |
| 35) 1,4-DIFLUOROBENZENE | 10.458 | 114 | 1450955 | 10.00 | PPBV | 0.00 |
| 49) CHLOROBENZENE-D5 | 14.703 | 117 | 1234001 | 10.00 | PPBV | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---|---|---|---|---|---|---|
| 61) 4-BROMOFLUOROBENZENE | 16.323 | 95 | 491922 | 5.62 | PPBV | 0.00 |

Spiked Amount 5.000 Range 57 - 139 Recovery = 112.40%

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 2) DICHLORODIFLUOROMETHANE | 4.035 | 85 | 1689092 | 10.49 | PPBV | 99 |
| 3) PROPYLENE | 3.964 | 41 | 223277 | 9.93 | PPBV | 87 |
| 4) FREON 114 | 4.296 | 85 | 1542245 | 10.90 | PPBV | 97 |
| 5) CHLOROMETHANE | 4.195 | 50 | 361883 | 10.48 | PPBV | 99 |
| 6) VINYL CHLORIDE | 4.420 | 62 | 389933 | 10.38 | PPBV | 100 |
| 7) 1,3-BUTADIENE | 4.557 | 39 | 310463 | 10.31 | PPBV | 95 |
| 8) BROMOMETHANE | 4.834 | 94 | 469610 | 10.85 | PPBV | 100 |
| 9) CHLOROETHANE | 5.006 | 64 | 170164 | 11.28 | PPBV | 97 |
| 10) TRICHLOROFLUOROMETHANE | 5.785 | 101 | 1697495 | 10.20 | PPBV | 100 |
| 11) ISOPROPYL ALCOHOL | 5.820 | 45 | 440207 | 7.52 | PPBV | 85 |
| 12) ACETONE | 5.593 | 43 | 475303m | 7.04 | PPBV | |
| 13) PENTANE | 6.140 | 42 | 383484 | 9.94 | PPBV | 96 |
| 14) 1,1-DICHLOROETHYLENE | 6.426 | 96 | 416613 | 9.54 | PPBV | 88 |
| 15) CARBON DISULFIDE | 6.857 | 76 | 1302421 | 9.75 | PPBV | 96 |
| 16) ETHANOL | 5.095 | 45 | 74260 | 7.46 | PPBV | 96 |
| 17) BROMOETHENE | 5.368 | 106 | 402979 | 10.01 | PPBV | 99 |
| 18) METHYLENE CHLORIDE | 6.537 | 84 | 359143 | 9.42 | PPBV | 91 |
| 19) 3-CHLOROPROPENE | 6.660 | 39 | 306481 | 9.25 | PPBV | 97 |
| 20) FREON 113 | 6.795 | 151 | 853862 | 10.09 | PPBV | 96 |
| 21) TRANS-1,2-DICHLOROETHY... | 7.466 | 96 | 389627 | 9.75 | PPBV | 91 |
| 22) TERTIARY BUTYL ALCOHOL | 6.426 | 59 | 595734 | 7.67 | PPBV | 91 |
| 23) METHYL TERTIARY BUTYL ... | 7.709 | 73 | 683697 | 9.17 | PPBV | 99 |
| 24) TETRAHYDROFURAN | 9.137 | 42 | 228430 | 8.85 | PPBV | 97 |
| 25) HEXANE | 8.665 | 57 | 451411 | 10.70 | PPBV | 97 |
| 26) VINYL ACETATE | 7.783 | 43 | 418875 | 7.61 | PPBV | 90 |
| 27) 1,1-DICHLOROETHANE | 7.661 | 63 | 708797 | 9.94 | PPBV | 99 |
| 28) METHYL ETHYL KETONE | 8.028 | 43 | 485120 | 9.87 | PPBV | 97 |
| 29) cis-1,2-DICHLOROETHYLENE | 8.468 | 96 | 277818 | 9.56 | PPBV | 90 |
| 30) ETHYL ACETATE | 8.664 | 43 | 933043 | 10.23 | PPBV | 100 |
| 31) CHLOROFORM | 8.751 | 83 | 953739 | 10.44 | PPBV | 98 |
| 32) 1,1,1-TRICHLOROETHANE | 9.707 | 97 | 975988 | 10.42 | PPBV | 99 |
| 33) CARBON TETRACHLORIDE | 10.289 | 117 | 1225899 | 10.68 | PPBV | 99 |
| 34) 1,2-DICHLOROETHANE | 9.460 | 62 | 537617 | 9.81 | PPBV | 99 |
| 36) BENZENE | 10.146 | 78 | 830292 | 10.05 | PPBV | 98 |
| 37) CYCLOHEXANE | 10.413 | 84 | 406007 | 10.45 | PPBV | 97 |
| 38) TRICHLOROETHYLENE | 11.141 | 95 | 560646 | 11.59 | PPBV | 99 |
| 39) 1,2-DICHLOROPROPANE | 10.921 | 63 | 306410 | 11.00 | PPBV | 98 |
| 40) BROMODICHLOROMETHANE | 11.104 | 83 | 864916 | 9.99 | PPBV | 98 |
| 41) 2,2,4-TRIMETHYLPENTANE | 11.164 | 57 | 1596967 | 11.16 | PPBV | 98 |
| 42) 1,4-DIOXANE | 11.131 | 88 | 148546 | 8.85 | PPBV | 92 |
| 43) HEPTANE | 11.404 | 43 | 539119 | 10.37 | PPBV | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4163.D
Acq On : 1 Aug 2007 11:54 am
Operator : danat
Sample : CC220-10 (M069)
Misc : MS14034, MSQ221,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 12:27:09 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) METHYL ISOBUTYL KETONE | 11.975 | 43 | 634015 | 9.78 | PPBV | 99 |
| 45) cis-1,3-DICHLOROPROPENE | 11.961 | 75 | 431648 | 9.53 | PPBV | 95 |
| 46) TOLUENE | 12.923 | 92 | 554207 | 10.33 | PPBV | 96 |
| 47) trans-1,3-DICHLOROPROPENE | 12.462 | 75 | 257458 | 6.13 | PPBV | 97 |
| 48) 1,1,2-TRICHLOROETHANE | 12.643 | 83 | 336992 | 10.97 | PPBV | 99 |
| 50) 2-HEXANONE | 13.143 | 43 | 447489 | 8.84 | PPBV | 99 |
| 51) TETRACHLOROETHYLENE | 14.054 | 164 | 481201 | 9.84 | PPBV | 99 |
| 52) DIBROMOCHLOROMETHANE | 13.347 | 129 | 767727 | 10.38 | PPBV | 99 |
| 53) 1,2-DIBROMOETHANE | 13.599 | 107 | 504930 | 9.98 | PPBV | 100 |
| 54) CHLOROBENZENE | 14.747 | 112 | 774074 | 9.89 | PPBV | 99 |
| 55) ETHYLBENZENE | 15.129 | 91 | 1264736 | 10.82 | PPBV | 100 |
| 56) m,p-XYLENE | 15.324 | 106 | 986794 | 22.06 | PPBV | 96 |
| 57) o-XYLENE | 15.821 | 106 | 492334 | 10.61 | PPBV | 98 |
| 58) STYRENE | 15.704 | 104 | 495398 | 7.82 | PPBV | 99 |
| 59) NONANE | 16.022 | 43 | 772030 | 11.96 | PPBV | 98 |
| 60) BROMOFORM | 15.422 | 173 | 671644 | 10.39 | PPBV | 99 |
| 62) 1,1,2,2-TETRACHLOROETHANE | 15.809 | 83 | 846120 | 11.78 | PPBV | 99 |
| 63) ISOPROPYLBENZENE | 16.465 | 105 | 1426079 | 11.34 | PPBV | 99 |
| 64) 2-CHLOROTOLUENE | 17.016 | 91 | 985437 | 13.66 | PPBV | 95 |
| 65) 4-ETHYLTOLUENE | 17.206 | 105 | 1077574 | 10.85 | PPBV | 99 |
| 66) 1,3,5-TRIMETHYLBENZENE | 17.291 | 105 | 1162087 | 12.61 | PPBV | 97 |
| 67) 1,2,4-TRIMETHYLBENZENE | 17.756 | 105 | 959590 | 11.02 | PPBV | 98 |
| 68) m-DICHLOROBENZENE | 17.937 | 146 | 476496 | 8.66 | PPBV | 98 |
| 69) BENZYL CHLORIDE | 17.914 | 91 | 377342 | 7.25 | PPBV | 99 |
| 70) p-DICHLOROBENZENE | 18.011 | 146 | 376394 | 6.91 | PPBV | 99 |
| 71) o-DICHLOROBENZENE | 18.400 | 146 | 442214 | 8.37 | PPBV | 100 |
| 72) HEXACHLOROBUTADIENE | 20.796 | 225 | 276040 | 8.33 | PPBV | 99 |
| 73) 1,2,4-TRICHLOROBENZENE | 20.304 | 180 | 43972m | 2.78 | PPBV | |

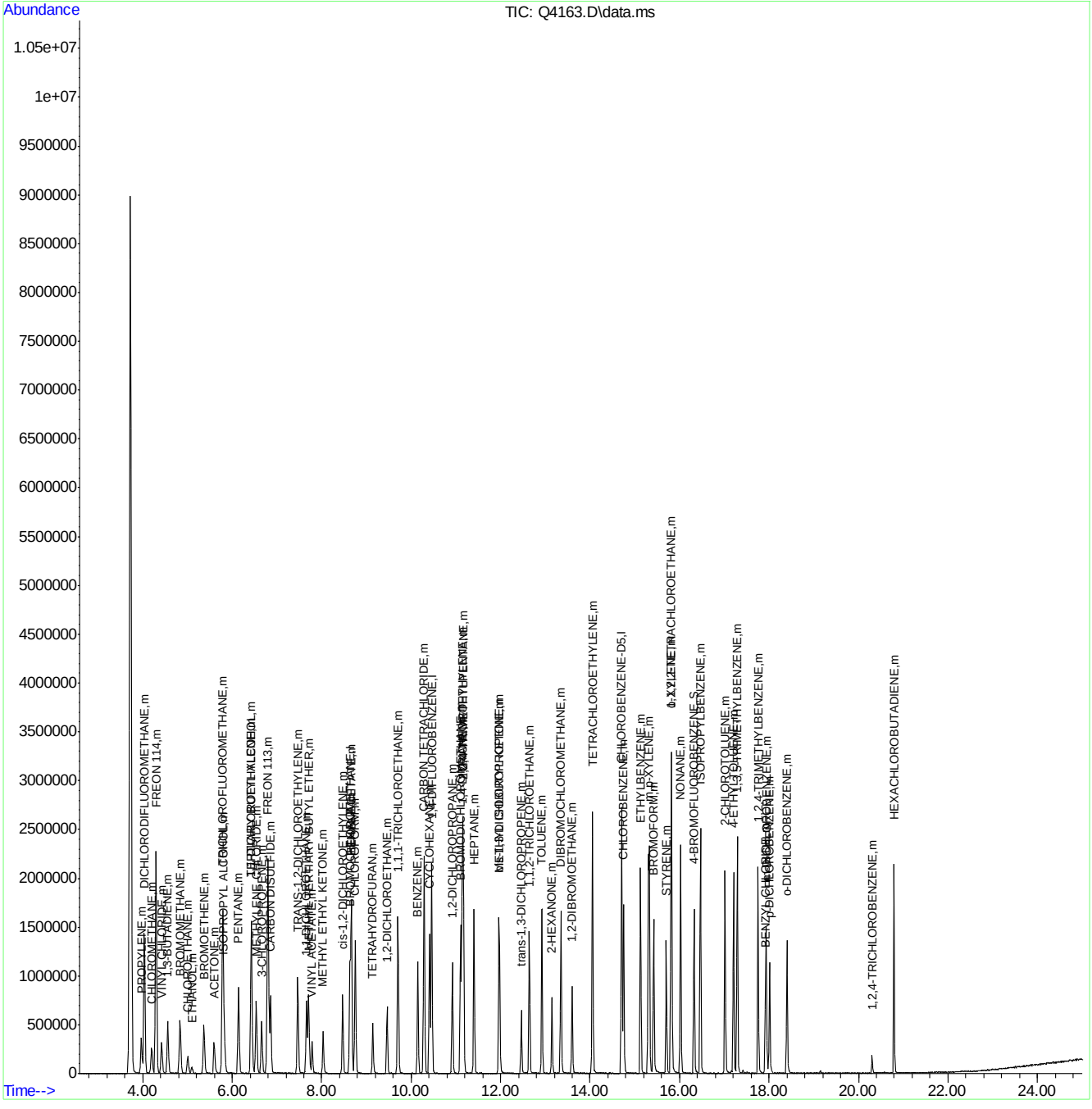
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : Q4163.D
Acq On : 1 Aug 2007 11:54 am
Operator : danat
Sample : CC220-10 (M069)
Misc : MS14034, MSQ221,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 12:27:09 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration



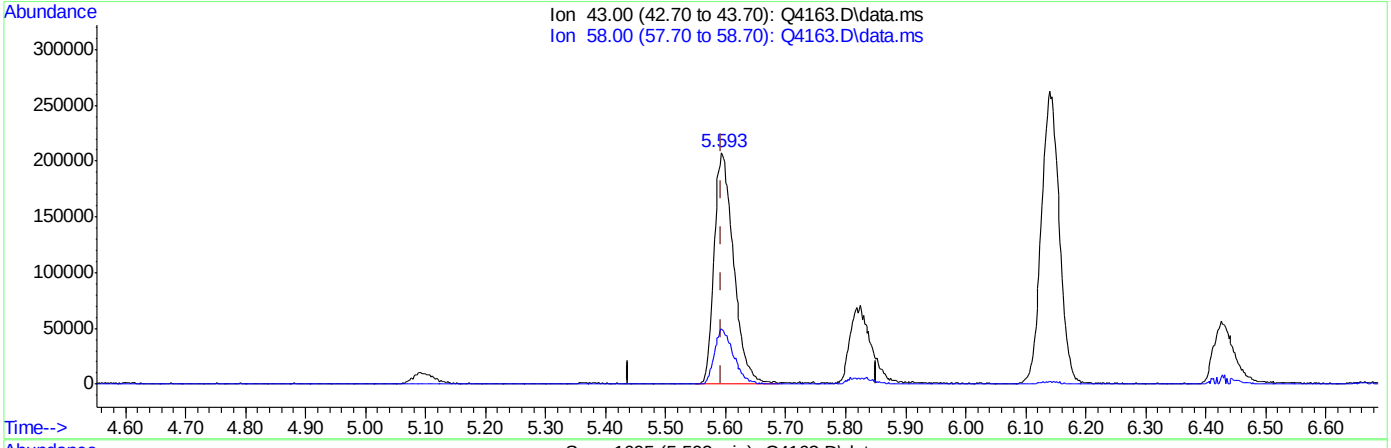


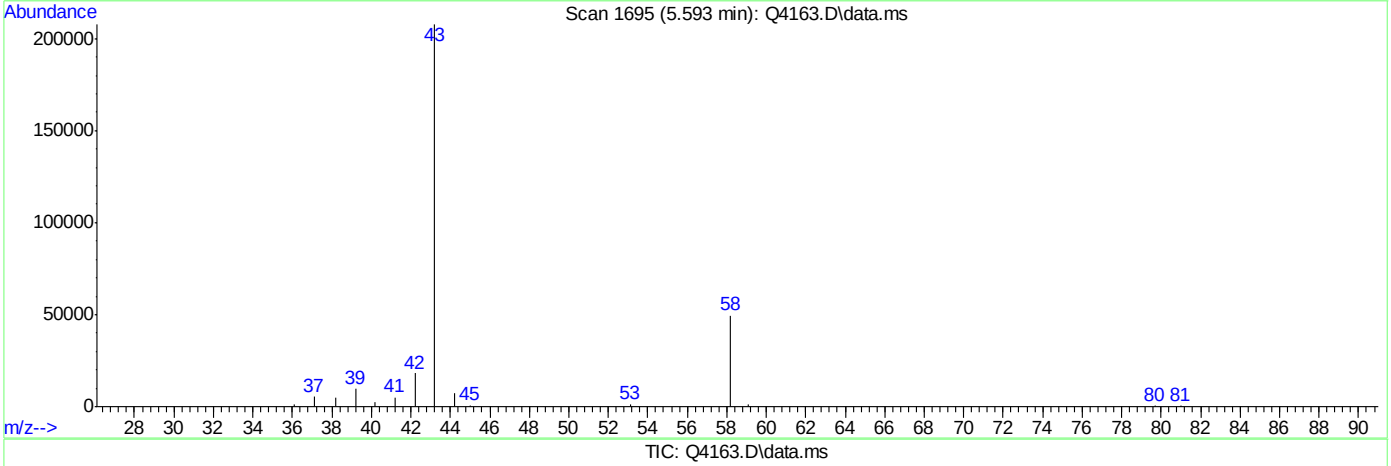
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : Q4163.D
Acq On : 1 Aug 2007 11:54 am
Operator : danat
Sample : CC220-10 (M069)
Misc : MS14034, MSQ221,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 12:26:44 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration






TIC: Q4163.D\data.ms

(12) ACETONE (m)

5.593min (-0.000) 6.99PPBV

response 471535

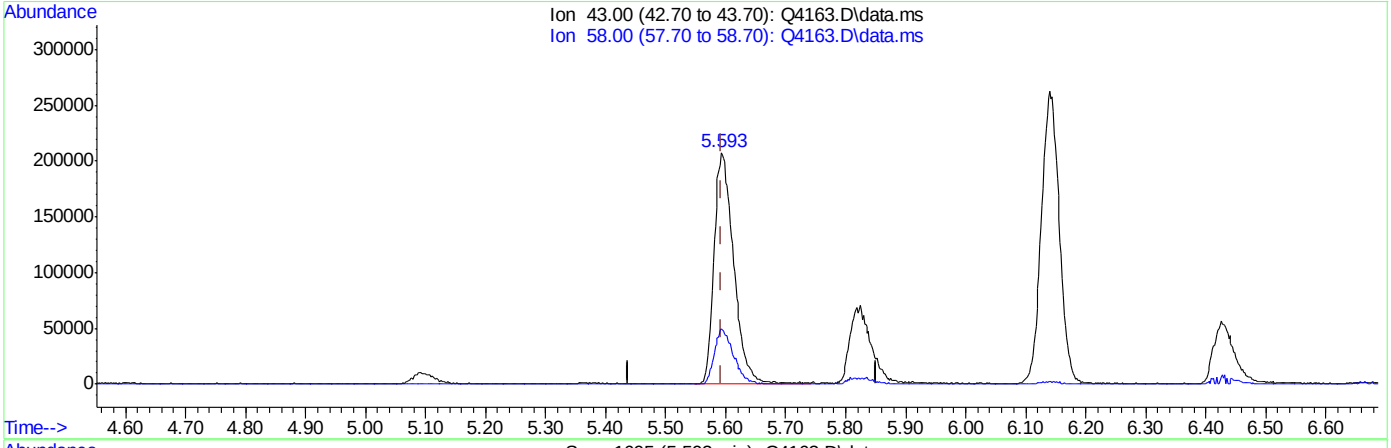
| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 58.00 | 21.90 | 23.40 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

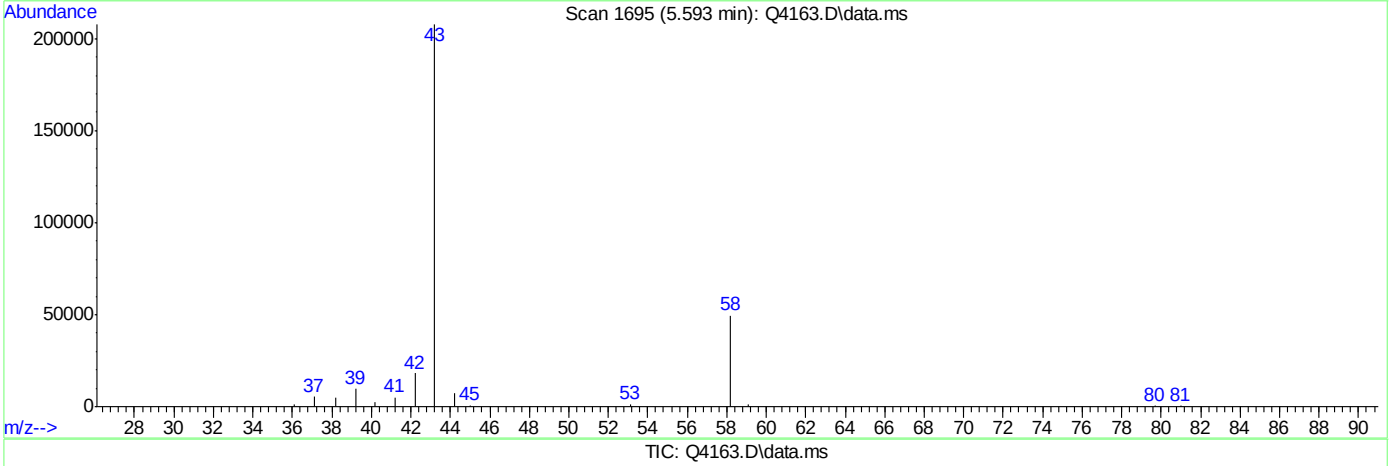
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : Q4163.D
Acq On : 1 Aug 2007 11:54 am
Operator : danat
Sample : CC220-10 (M069)
Misc : MS14034, MSQ221,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 12:26:44 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration






TIC: Q4163.D\data.ms

(12) ACETONE (m)

5.593min (-0.000) 7.04PPBV m

response 475303

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 58.00 | 21.90 | 23.22 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



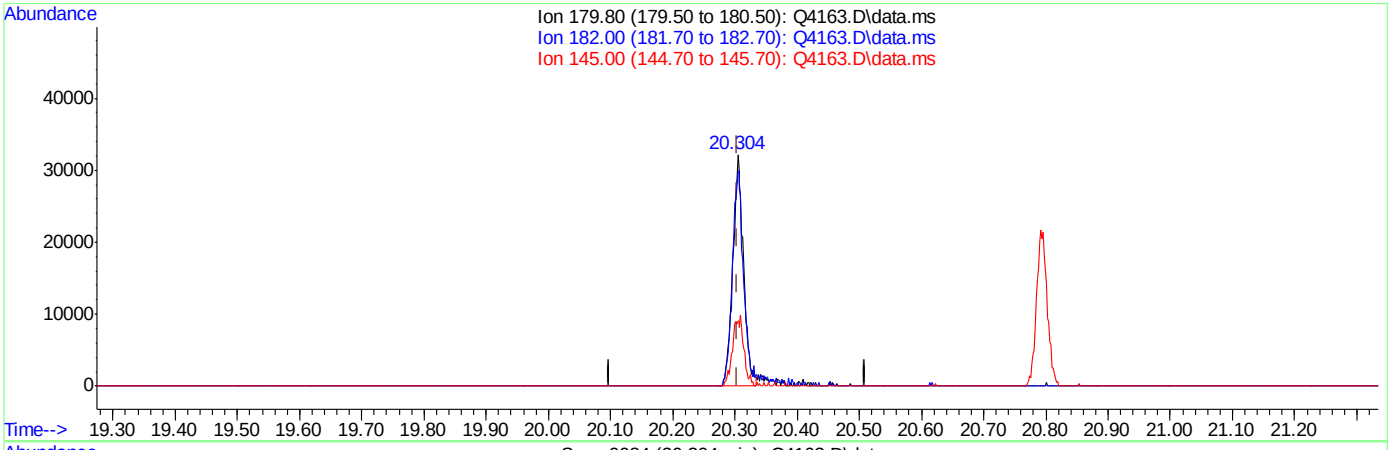
ACCUTEST Laboratories M66578

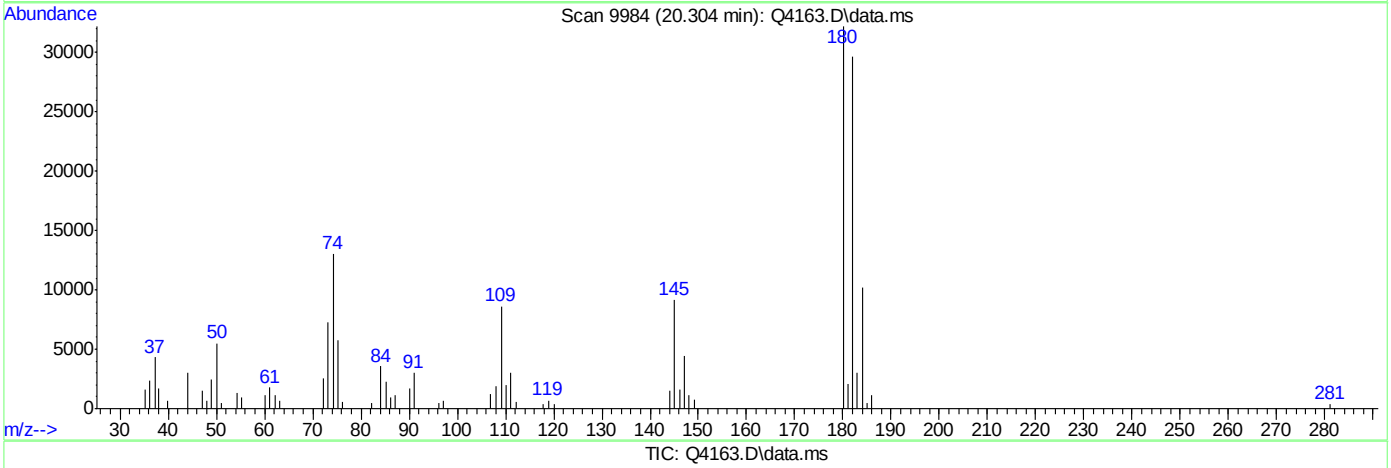
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : Q4163.D
Acq On : 1 Aug 2007 11:54 am
Operator : danat
Sample : CC220-10 (M069)
Misc : MS14034, MSQ221,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 12:26:44 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration






TIC: Q4163.D\data.ms

(73) 1,2,4-TRICHLOROBENZENE (m)

20.304min (-0.000) 2.58PPBV

response 40796

| Ion | Exp% | Act% |
|---|---|---|
| 179.80 | 100 | 100 |
| 182.00 | 95.70 | 100.91 |
| 145.00 | 30.20 | 31.72 |
| 0.00 | 0.00 | 0.00 |



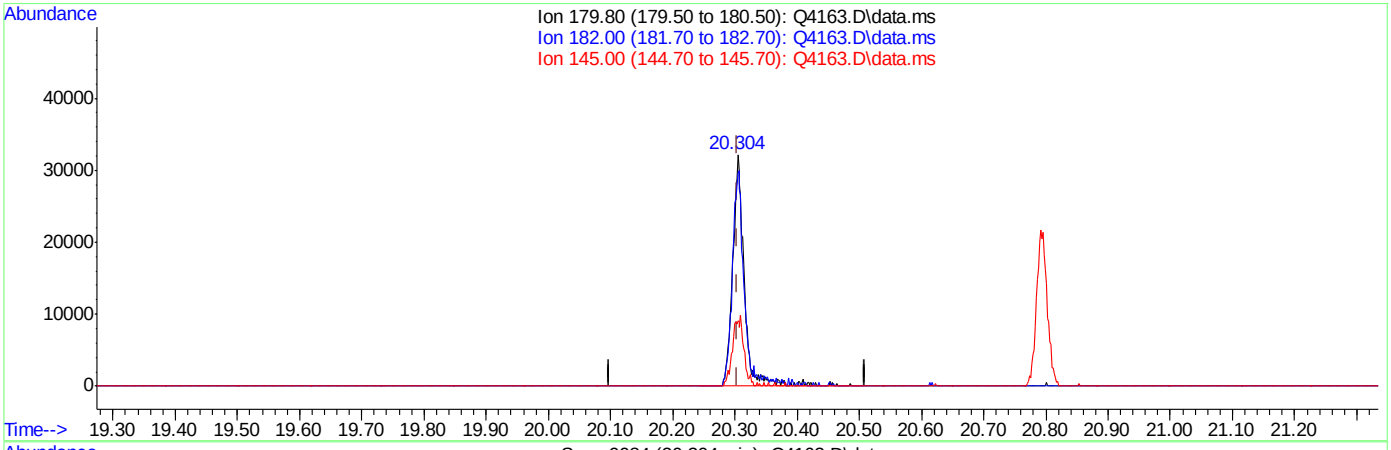
ACCUTEST Laboratories M66578

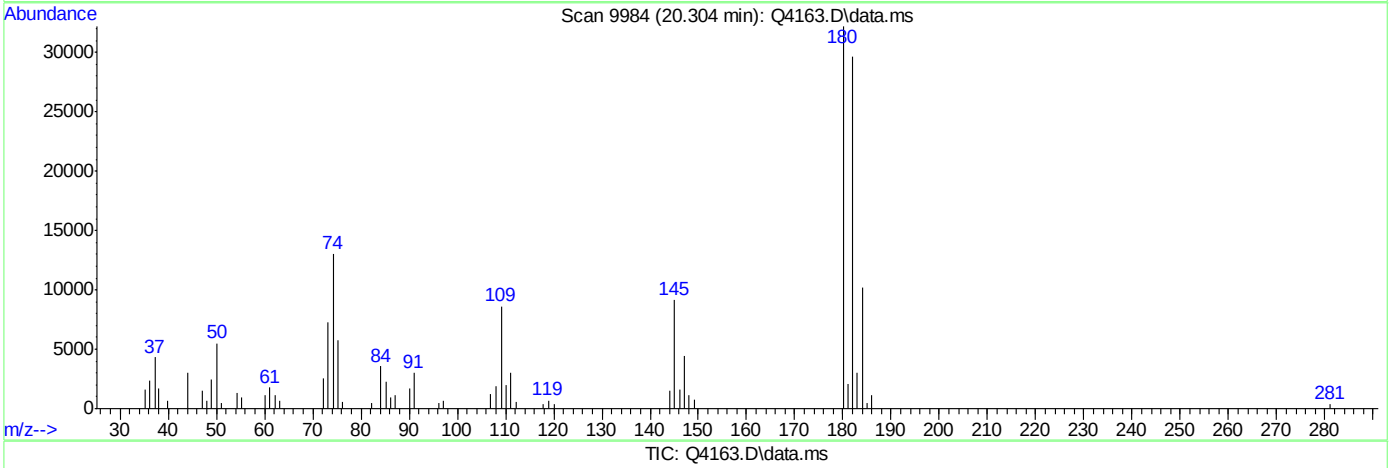
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : Q4163.D
Acq On : 1 Aug 2007 11:54 am
Operator : danat
Sample : CC220-10 (M069)
Misc : MS14034, MSQ221,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 12:26:44 2007
Quant Method : C:\msdchem\1\METHODS\Q072707T.m
Quant Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
QLast Update : Wed Aug 01 10:19:33 2007
Response via : Initial Calibration






TIC: Q4163.D\data.ms

(73) 1,2,4-TRICHLOROBENZENE (m)

20.304min (-0.000) 2.78PPBV m

response 43972

| Ion | Exp% | Act% |
|---|---|---|
| 179.80 | 100 | 100 |
| 182.00 | 95.70 | 93.62 |
| 145.00 | 30.20 | 29.43 |
| 0.00 | 0.00 | 0.00 |



ACCUTEST Laboratories M66578

| Standard Lot # | |
|---|---|
| Calib STD 1 | MSA371 |
| Calib STD 2 | MSA372 |
| ICV | MSA366 |
| Inter/Surr STD | MSA218 |
| BS/BSD | MSA366 |
| | |
| | |
| | |

| File ID | |
|---|---|
| Tune File 1 | J10860 |
| Tune File 2 | J10868A |
| Initial Cal. | 7/5/07 |
| ID FILE | J070507T.M |
| Instrument ID | J |
| ICAL: | J10868 |
| Column Type: | RTX-1 |
| Sequence Verified By: | DT 7/6/07 |
| | |
| | |

| | |
|---|---|
| Date: | 7/5/2007 |
| Analyst: | DANAT |
| Batch ID: | msj562 |
| Matrix: | AIR |
| Approved By: | DOUGY |
| Date Approved: | 7/11/2007 9:46:28 AM |

| Data File | Sample ID | Bot # | Work Group # | Test | ALS # | Sample Vol (mls) | Diln Factor | Flow controller ID | Comment |
|---|---|---|---|---|---|---|---|---|---|
| J10860 | IC562-0.5 | m210 | MSA372 | VTO15 | 1 | | 1 | | |
| J10861 | IC562-0.2 | m210 | MSA372 | VTO15 | 1 | | 1 | | |
| J10862 | IC562-2 | m210 | MSA372 | VTO15 | 2 | | 1 | | Re-run , hexachlorbutadiene fails high. |
| J10863 | IC562-40 | m211 | MSA371 | VTO15 | 2 | | 1 | | |
| J10864 | IC562-20 | m211 | MSA371 | VTO15 | 2 | | 1 | | |
| J10865 | ICC562-10 | m211 | MSA371 | VTO15 | 2 | | 1 | | |
| J10866 | IC562-5 | m211 | MSA371 | VTO15 | 2 | | 1 | | |
| J10867 | IC562-2 | m211 | MSA371 | VTO15 | 2 | | 1 | | |
| J10868 | ICV562-10 | m080 | MSA366 | VTO15 | 3 | | 1 | | |
| J10868a | CC562-10 | m080 | MSA366 | VTO15 | 3 | | 1 | | |
| J10868b | BS | m080 | M3A366 | VTO15 | 3 | | 1 | | |
| J10869 | BLANK | m208 | | VTO15 | 4 | | 1 | | |
| J10870 | MB | m208 | | VTO15 | 4 | | 1 | | |
| J10871 | SCC | m217 | | VTO15 | 5 | | 1 | | |
| J10872 | SCC | m218 | | VTO15 | 6 | | 1 | | |
| J10873 | SCC | m018 | | VTO15 | 7 | | 1 | | |
| J10874 | SCC | m125 | | VTO15 | 8 | | 1 | | |
| J10875 | SCC | m041 | | VTO15 | 9 | | 1 | | |
| J10876 | SCC | m048 | | VTO15 | 10 | | 1 | | |
| J10877 | SCC | m219 | | VTO15 | 11 | | 1 | | |
| J10878 | SCC | m039 | | VTO15 | 12 | | 1 | | |
| J10879 | SCC | m095 | | VTO15 | 13 | | 1 | | |
| J10880 | SCC | m031 | | VTO15 | 14 | | 1 | | |
| J10881 | SCC | m222 | | VTO15 | 15 | | 1 | | |
| J10882 | SCC | m147 | | VTO15 | 16 | | 1 | | |
| J10883 | SCC | m220 | | VTO15 | 1 | | 1 | | |
| J10884 | SCC | m145 | | VTO15 | 2 | | 1 | | Re-run , possible carryover from previous can on postion 2. |
| J10885 | SCC | m158 | | VTO15 | 3 | | 1 | | |
| J10886 | SCC | m145 | | VTO15 | 2 | | 1 | | |
| J10887 | SCC | m202 | | VTO15 | 1 | | 1 | | |
| J10888 | M65994-1 | m025 | MS13894 | VTO15STD | 4 | | 20 | | Re-run @ 5x , too dilute. |
| J10889 | M65994-2 | m124 | MS13894 | VTO15STD | 5 | | 20 | | Re-run @ 1x , too dilute. |
| J10890 | M65994-1 | m025 | MS13894 | VTO15STD | 4 | | 5 | | Over calibration , combine with previous run. |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| J10891 | M65994-2 | m124 | MS13894 | VTO15STD | 5 | | 1 | | | |
| J10892 | M65994-1DUP | m025 | MS13894 | VTO15STD | 4 | | 5 | | | |

| Standard Lot # | |
|---|---|
| Calib STD 1 | MSA371 |
| Calib STD 2 | MSA372 |
| ICV | MSA375 |
| Inter/Surr STD | MSA218 |
| BS/BSD | MSA375 |
| | |
| | |
| | |

| File ID | |
|---|---|
| Tune File 1 | Q3977 |
| Tune File 2 | Q3984 |
| Initial Cal. | 7/16/07 |
| ID FILE | Q071607T.M |
| Instrument ID | Q |
| ICAL: | Q3984 |
| Column Type: | RTX-1 |
| Sequence Verified By: | DT 7/17/07 |
| | |
| | |

| | |
|---|---|
| Date: | 7/16/2007 |
| Analyst: | DANAT |
| Batch ID: | MSQ214 |
| Matrix: | AIR |
| Approved By: | PHILIPB |
| Date Approved: | 7/19/2007 9:55:34 AM |

| Data File | Sample ID | Bot # | Work Group # | Test | ALS # | Sample Vol (mls) | Diln Factor | Flow controller ID | Comment |
|---|---|---|---|---|---|---|---|---|---|
| Q3977 | IC214-40 | M211 | MSA371 | VTO15STD | 2 | | 1 | | |
| Q3978 | IC214-20 | M211 | MSA371 | VTO15STD | 2 | | 1 | | |
| Q3979 | ICC214-10 | M211 | MSA371 | VTO15STD | 2 | | 1 | | |
| Q3980 | IC214-5 | M211 | MSA371 | VTO15STD | 2 | | 1 | | |
| Q3981 | IC214-2 | M211 | MSA371 | VTO15STD | 2 | | 1 | | |
| Q3982 | IC214-0.5 | M210 | MSA372 | VTO15STD | 1 | | 1 | | |
| Q3983 | IC214-0.2 | M210 | MSA372 | VTO15STD | 1 | | 1 | | |
| Q3984 | ICV214-10 | M209 | MSA375 | VTO15STD | 3 | | 1 | | |
| Q3984A | CC214-10 | M209 | MSA375 | VTO15STD | 3 | | 1 | | |
| Q3984B | BS | M209 | MSA375 | VTO15STD | 3 | | 1 | | |
| Q3985 | BLANK | M063 | NA | VTO15STD | 4 | | 1 | | |
| Q3986 | MB | M063 | NA | VTO15STD | 4 | | 1 | | |
| Q3986A | SCC | M063 | NA | VTO15STD | 4 | | 1 | | |
| Q3987 | FCB093 | M195 | NA | VTO15STD | 5 | | 1 | | |
| Q3988 | FCB094 | M175 | NA | VTO15STD | 6 | | 1 | | |
| Q3989 | FCB095 | M205 | NA | VTO15STD | 7 | | 1 | | |
| Q3990 | SCC | M076 | NA | VTO15STD | 8 | | 1 | | |
| Q3991 | SCC | M081 | NA | VTO15STD | 9 | | 1 | | |
| Q3992 | SCC | M004 | NA | VTO15STD | 10 | | 1 | | |
| Q3993 | SCC | M088 | NA | VTO15STD | 11 | | 1 | | |
| Q3994 | SCC | M134 | NA | VTO15STD | 12 | | 1 | | |
| Q3995 | SCC | M053 | NA | VTO15STD | 13 | | 1 | | |
| Q3996 | SCC | M049 | NA | VTO15STD | 14 | | 1 | | |
| Q3997 | M66000-1R | M161 | MS13951 | VTO15STD | 15 | | 1 | | |
| Q3998 | M66000-1RDUP | M161 | MS13951 | VTO15STD | 15 | | 1 | | |
| Q3999 | M66190-6 | M116 | MS13951 | VTO15STD | 16 | | 1 | | Re-run @ 20x , over calibration. |
| Q4000 | M66190-7 | M172 | MS13951 | VTO15STD | 4 | | 1 | | Re-run @ 5x , matrix interference. Do not report. |
| Q4001 | M66190-8 | M160 | MS13951 | VTO15STD | 5 | | 1 | | Re-run @ 20x , over calibration. |

| Standard Lot # | |
|---|---|
| Calib STD 1 | MSA382 |
| Calib STD 2 | MSA381 |
| ICV | MSA380 , MSA383 |
| Inter/Surr STD | MSA218 |
| BS/BSD | MSA383 |
| | |
| | |
| | |

| File ID | |
|---|---|
| Tune File 1 | Q4139 |
| Tune File 2 | Q4148 |
| Initial Cal. | 7/27/07 |
| ID FILE | Q072707T.M |
| Instrument ID | Q |
| ICAL: | Q4148A |
| Column Type: | RTX-1 |
| Sequence Verified By: | DT 7/28/07 |
| | |
| | |

| | |
|---|---|
| Date: | 7/27/2007 |
| Analyst: | DANAT |
| Batch ID: | msq220 |
| Matrix: | AIR |
| Approved By: | PHILIPB |
| Date Approved: | 8/3/2007 12:37:44 PM |

| Data File | Sample ID | Bot # | Work Group # | Test | ALS # | Sample Vol (mls) | Diln Factor | Flow controller ID | Comment |
|---|---|---|---|---|---|---|---|---|---|
| Q4139 | IC220-40 | m168 | MSA381 | VTO15STD | 4 | | 1 | | |
| Q4140 | IC220-20 | m168 | MSA381 | VTO15STD | 4 | | 1 | | |
| Q4141 | ICC220-10 | m168 | MSA381 | VTO15STD | 4 | | 1 | | |
| Q4142 | IC220-5 | m168 | MSA381 | VTO15STD | 4 | | 1 | | |
| Q4143 | IC220-2 | m168 | MSA381 | VTO15STD | 4 | | 1 | | |
| Q4144 | IC220-0.5 | m028 | MSA382 | VTO15STD | 3 | | 1 | | |
| Q4145 | IC220-0.2 | m028 | MSA382 | VTO15STD | 3 | | 1 | | |
| Q4146 | ICV220-10 | m085 | MSA380 | VTO15STD | 1 | | 1 | | Fails low , suspect degradation, re-run using new std. |
| Q4147 | ICV220-10 | m069 | MSA383 | VTO15STD | 1 | | 1 | | Internal stds fail high, lower emvolts and re-run. |
| Q4148 | CC220-10 | m069 | MSA383 | VTO15STD | 1 | | 1 | | |
| Q4148a | ICV220-10 | m069 | MSA383 | VTO15STD | 1 | | 1 | | |
| Q4148b | BS | m069 | MSA383 | VTO15STD | 1 | | 1 | | |
| Q4149 | BLANK | m148 | NA | VTO15STD | 2 | | 1 | | |
| Q4150 | MB | m148 | NA | VTO15STD | 3 | | 1 | | |
| Q4150a | SCC | m148 | NA | VTO15STD | 4 | | 1 | | |
| Q4151 | SCC | m176 | NA | VTO15STD | 5 | | 1 | | |
| Q4152 | M66400-1 | m103 | MS14030 | VTO15STD | 6 | | 20 | | Re-run @ 100x , over calibration. |
| Q4153 | FCB102 | m205 | | VTO15STD | 7 | | 1 | | |
| Q4154 | M66400-1DUP | m103 | MS14030 | VTO15STD | 6 | | 20 | | |
| Q4155 | M66400-1 | m178 | MS14030 | VTO15STD | 8 | | 100 | | |
| Q4156 | M66362-3 | m181 | MS13975 | VTO15STD | 5 | | 10000 | | Re-run @ 50,000x , over calibration. |
| Q4157 | SCC | m164 | NA | VTO15STD | 6 | | 1 | | |
| Q4158 | M66588-9 | m056 | MS14030 | VTO15STD | 9 | | 20 | | |
| Q4159 | M66588-10 | m141 | MS14030 | VTO15STD | 10 | | 20 | | Re-run @ 100x , over calibration. |
| Q4160 | M66635-2 | m117 | MS14034 | VTO15STD | 11 | | 20 | | Re-run @ 1x , too dilute. |
| Q4161 | M66635-1 | m094 | MS14034 | VTO15STD | 12 | | 20 | | |

| Standard Lot # | |
|---|---|
| Calib STD 1 | MSA383 |
| Calib STD 2 | NA |
| ICV | NA |
| Inter/Surr STD | MSA218 |
| BS/BSD | MSA383 |
| | |
| | |
| | |

| File ID | |
|---|---|
| Tune File 1 | Q4163 |
| Tune File 2 | NA |
| Initial Cal. | 7/27/07 |
| ID FILE | Q072707T.M |
| Instrument ID | Q |
| ICAL: | |
| Column Type: | RTX-1 |
| Sequence Verified By: | DT 8/2/07 |
| | |
| | |

| | |
|---|---|
| Date: | 8/1/2007 |
| Analyst: | PHILLIPB |
| Batch ID: | msq221 |
| Matrix: | AIR |
| Approved By: | PHILIPB |
| Date Approved: | 8/3/2007 3:49:53 PM |

| Data File | Sample ID | Bot # | Work Group # | Test | ALS # | Sample Vol (mls) | Diln Factor | Flow controller ID | Comment |
|---|---|---|---|---|---|---|---|---|---|
| Q4163 | CC220-10 | m069 | MSA383 | VTO15STD | 1 | | 1 | | |
| Q4163a | BS | m069 | MSA383 | VTO15STD | 1 | | 1 | | |
| Q4164 | MB | m127 | NA | VTO15STD | 2 | | 1 | | |
| Q4165 | M66362-3 | m181 | MS13975 | VTO15STD | 5 | | 50000 | | |
| Q4166 | M66579-1 | m088 | MS14030 | VTO15STD | 6 | | 1 | | Re-run , internal std. Fails high. |
| Q4167 | M66578-1 | m158 | MS14030 | VTO15STD | 7 | | 1 | | |
| Q4168 | M66578-1DUP | m158 | MS14030 | VTO15STD | 7 | | 1 | | |
| Q4169 | M66578-2 | m134 | MS14030 | VTO15STD | 8 | | 1 | | |
| Q4170 | M66588-10 | m195 | MS14030 | VTO15STD | 9 | | 200 | | |