SDMS DocID 2232104

Shope ISVS
Sampling Event
August 2005

September 12, 20005

Lord Corporation

ORIGINAL

LORD®

INTER-OFFICE CORRESPONDENCE

DATE: September 12, 2005

TO: George Kickel

FROM: Bob Adams

SUBJECT: SHOPE ISVS August 2005

Attached you will find the results of the data analysis for the Shope ISVS samples collected on August 10, 2005

Let me know if I can be of any further assistance to you.

Bob Adams

Bob Adams
814-868-3611 Ext. 3507

Cc: Bob Nipper

ORIGINAL

Sample Data
Pkg. Summary

ORIGINAL

LORD®

Environmental
Analytical Laboratory

ANALYTICAL REPORT

SHOPE ISVS
August 2005

PROJECT No. E0508.03

George M. Kickel
Shope Site Project Manager

Lord Corporation Environmental Analytical Laboratory

Robert D. Adams
Project Manager

ORIGINAL

LORD®

Environmental
Analytical Laboratory

September 9, 2005

CASE NARRATIVE

The following VOC whole air samples were collected at the Shope site:

Air samples collected at Shope on August 10, 2005

Sample I.D.	Sampling Point	Sample Description
SH8-25- LH-30	Landfill Header	Landfill Header
SH8-25-TOBI-31	T.O. Influent	Thermal Oxidizer Influent
SH8-25-TOE-32	T.O. Exhaust	Thermal Oxidizer Effluent

Based on an USEPA request the volatile organic air samples were collected in Summa Canisters and sent to a TO-15 certified Lab. The Lancaster Laboratory results are included in the attached PDF file report.

The Methane results were analyzed by GC/FID by our laboratory.

The Lancaster Lab VOC data in ppb units can be found in the following Excel spreadsheet:

SpreadSheet Shope
ISVS 08-11-2005 09-

954941-Shope ISVS
08-11-2005 09-00-0(

ORIGINAL

ISVS system monitoring measurements

August 10, 2005

Monitoring Location	Flow (in. H_2O)	Pressure (in. H_2O)	Temperature (° C)
LH	0.75	--	--

Monitor:	Landfill Flow	143	SCFM
at time:			
9:15	Ext. Vapor Temp.	81	deg. F
	Ext. Vapor Vacuum	40	in. H_2O

Methane results for samples collected August 10, 2005

Sample	Result	Reporting Limit	Units
Landfill Header	124	7	ppm (v/v)
Thermal Oxidizer Influent	179	7	ppm (v/v)
Thermal Oxidizer Exhaust	< 7	7	ppm (v/v)

Lancaster Laboratories
Where quality is a science.

ORIGINAL

Dear Client:

Enclosed please find the requested data package.

Any questions or concerns you might have regarding this data package should be directed to your client representative, [redacted], at (717) 656-2300.

Sincerely yours,

LANCASTER LABORATORIES
Data Packages Department

ORIGINAL

Sample Data Package

Data Package

ORIGINAL

Type I Data Package

Analytical Data Report Package
for
Lord Corporation

Shope ISVS
Air Samples
Collected on 08/10/05
Sample No. 4581594-4581596

SDG# LRA05

PA Cert. # 36-037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521

Prepared by (b) (4) [redacted]

Quality Assurance Review (b) (4) [redacted]

Date 8-29-05

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories, Inc. * 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 * 717-656-2300 Fax: 717-656-2681

TABLE OF CONTENTS

ORIGINAL

1. Sample Reference List 1

2. Analysis Request, Field Chain-of-Custody Record 2

3. Methodology Summary/Reference 4

4. Analysis Reports/Laboratory Chronicles 5

5. GC/MS Volatile Organics in Air 19

   a. Case Narrative-Conformance/Nonconform. Summary 20

   b. QC Summary 27

   c. Sample Data 43

   d. Standards Data 169

   e. Raw QC Data 212

ORIGINAL

Sample Reference List for SDG Number LRA05 with a Data Package Type of I

11800 - Lord Corporation
Shope ISVS

Lab Sample Number	Lab Sample Code	Client Sample Description
4581594	LH-30	SH8-25-LH-30 SUMMA Canister #0200 Grab AirSample
4581595	TOB31	SH8-25-TOBI-31 SUMMA Canister #0239 Grab AirSample
4581596	TOE32	SH8-25-TOE-32 SUMMA Canister #0190 Grab AirSample

Lancaster Laboratories • 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. # 11800 Group# 954941 Sample # 4581594-96

COC # 0088770

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: _____ Acct. #: _____
Project Name/#: _____ PWSID #: _____
Project Manager: Bob Adams P.O.#: _____
Sampler: " Quote #: _____
Name of state where samples were collected: PA

For Lab Use Only
FSC: _____
SCR #: _____

(2) (3) (4) (5) (6)

Sample Identification	Date Collected	Time Collected	Matrix															Analyses Requested: TO-15 w/TICs								Remarks
SH8-25 LH 30	8/10/05	9:15	✓						✓	1								✓								
SH8-25 TOBI 31	8/10/05	9:25	✓						✓	1								✓								
SH8-25 TOE 32	8/10/05	9:30	✓						✓	1								✓								Analyze ASAP *

(7)
Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed: _____
Rush results requested by (please circle): Phone Fax E-mail
Phone #: 814 868 3611 Fax #: 814 864-3340
E-mail address: bob.adams@lrd.com

(8)
Data Package Options (please circle if required)
QC Summary Type VI (Raw Data)
Type I (Tier I) GLP
Type II (Tier II) Other
Type III (NJ Red. Del.)
Type IV (CLP)

SDG Complete? Yes No
Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal Chain of Custody required? Yes No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
[redacted]	10/10	8/14/05			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	[redacted]	8/14/05	8:00

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102 Rev. 10/27/02

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

ORIGINAL

Environmental Sample Administration
Receipt Documentation Log

Client/Project: Ln2 Corp. (PA)

Date of Receipt: 8/11/05

Time of Receipt: 0900

Source Code: 50-1

Shipping Container Sealed: (Y) / N

Custody Seal Present: Y / (N)

Custody Seal Intact: Y / N / (NA)

Package: Chilled / (Not Chilled)

Unpacker Emp. No.: 165

Temperature of Shipping Containers	
#1	#2
Thermometer ID:	Thermometer ID:
Temp.:	Temp.:
Temp. Bottle / Surface Temp.	Temp. Bottle / Surface Temp.
Wet Ice / Dry Ice / Ice Packs	Wet Ice / Dry Ice / Ice Packs
Ice Present? Y / N Loose / Bagged	Ice Present? Y / N Loose / Bagged
#3	#4
Thermometer ID:	Thermometer ID:
Temp.:	Temp.:
Temp. Bottle / Surface Temp.	Temp. Bottle / Surface Temp.
Wet Ice / Dry Ice / Ice Packs	Wet Ice / Dry Ice / Ice Packs
Ice Present? Y / N Loose / Bagged	Ice Present? Y / N Loose / Bagged

Paperwork Discrepancy/Unpacking Problems:

Sample Administration Internal Chain of Custody			
Name	Date	Time	Reason for Transfer
[redacted]	8/11/05	1000	Unpacking
[redacted]	08/11/05	1016	Place in Storage or (Entry)
			Remove from Storage
			Place in Storage or Entry
			Entry

0003

ORIGINAL

Lancaster Laboratories

Where quality is a science.

METHODOLOGY SUMMARY/REFERENCE

5298 TO15 VOA Extended List

Samples in passivated SUMMA canisters are concentrated on a cryogenic trap and a cryofocusing trap after passing through a micro purge and trap water removal system. The cryofocuser is heated and the volatile organics are desorbed onto a GC/MS system for chromatographic and mass spectral analysis.

Reference: Methods for the Determination of Toxic Organic Compounds in Air, EPA Method TO15, 1999

0004

Analysis Report

ORIGINAL

Lancaster Laboratories

ANALYTICAL RESULTS

Prepared for:

Lord Corporation
2000 W. Grandview Blvd.
P.O. Box 10040
Erie PA 16509
814-868-0924

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 954941. Samples arrived at the laboratory on Thursday, August 11, 2005. The PO# for this group is 103080.

Client Description	Lancaster Labs Number
SH8-25-LH-30 SUMMA Canister #0200 Grab Air	4581594
SH8-25-TOBI-31 SUMMA Canister #0239 Grab Air	4581595
SH8-25-TOE-32 SUMMA Canister #0190 Grab Air	4581596

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO	Lord Corporation	Attn: Robert Adams
1 COPY TO	Data Package Group	

0005

Lancaster Laboratories

ORIGINAL

Questions? Contact your Client Services Representative
[redacted] at (717) 656-2300

Respectfully Submitted,

(b) (4)
[redacted]

Group Leader

0006

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

MEMBER ACIL

Lancaster Laboratories

ORIGINAL

Lancaster Laboratories Sample No. AQ 4581594

SH8-25-LH-30 SUMMA Canister #0200 Grab Air Sample
Shope ISVS
Collected:08/10/2005 09:15 by BA

Account Number: 11800

Submitted: 08/11/2005 09:00
Reported: 08/22/2005 at 21:39
Discard: 09/22/2005

Lord Corporation
2000 W. Grandview Blvd.
P.O. Box 10040
Erie PA 16509

LH-30 SDG#: LRA05-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
05298	TO 15 VOA Ext. List					
02076	tert-Butyl Alcohol	75-65-0	N.D.	500.	ppb(v)	500
07201	Propene	115-07-1	N.D.	500.	ppb(v)	500
07202	Dichlorodifluoromethane	75-71-8	N.D.	500.	ppb(v)	500
07203	Chlorodifluoromethane	75-45-6	N.D.	500.	ppb(v)	500
07204	Freon 114	76-14-2	N.D.	500.	ppb(v)	500
07205	Chloromethane	74-87-3	N.D.	500.	ppb(v)	500
07206	Vinyl Chloride	75-01-4	1,900.	500.	ppb(v)	500
07207	1,3-Butadiene	106-99-0	N.D.	500.	ppb(v)	500
07208	Bromomethane	74-83-9	N.D.	500.	ppb(v)	500
07209	Chloroethane	75-00-3	N.D.	500.	ppb(v)	500
07210	Dichlorofluoromethane	75-43-4	N.D.	500.	ppb(v)	500
07212	Trichlorofluoromethane	75-69-4	N.D.	500.	ppb(v)	500
07213	Pentane	109-66-0	520.	500.	ppb(v)	500
07214	Acrolein	107-02-8	N.D.	500.	ppb(v)	500
07215	1,1-Dichloroethene	75-35-4	N.D.	500.	ppb(v)	500
07216	Freon 113	76-13-1	560.	500.	ppb(v)	500
07217	Acetone	67-64-1	2,800.	1,000.	ppb(v)	500
07218	Methyl Iodide	74-88-4	N.D.	500.	ppb(v)	500
07219	Carbon Disulfide	75-15-0	1,200.	500.	ppb(v)	500
07220	Acetonitrile	75-05-8	2,000.	500.	ppb(v)	500
07221	3-Chloropropene	107-05-1	N.D.	500.	ppb(v)	500
07222	Methylene Chloride	75-09-2	1,800.	500.	ppb(v)	500
07223	Acrylonitrile	107-13-1	N.D.	500.	ppb(v)	500
07224	trans-1,2-Dichloroethene	156-60-5	N.D.	500.	ppb(v)	500
07225	Methyl t-Butyl Ether	1634-04-4	N.D.	500.	ppb(v)	500
07226	Hexane	110-54-3	1,600.	500.	ppb(v)	500
07227	1,1-Dichloroethane	75-34-3	640.	500.	ppb(v)	500
07228	Vinyl Acetate	108-05-4	N.D.	500.	ppb(v)	500
07230	cis-1,2-Dichloroethene	156-59-2	65,000.	5,000.	ppb(v)	5000
07231	2-Butanone	78-93-3	N.D.	500.	ppb(v)	500
07232	Ethyl Acetate	141-78-6	N.D.	500.	ppb(v)	500
07233	Methyl Acrylate	96-33-3	N.D.	500.	ppb(v)	500
07234	Chloroform	67-66-3	2,300.	500.	ppb(v)	500
07235	1,1,1-Trichloroethane	71-55-6	2,700.	500.	ppb(v)	500
07236	Carbon Tetrachloride	56-23-5	N.D.	500.	ppb(v)	500

0007

Lancaster Laboratories

ORIGINAL

Lancaster Laboratories Sample No. AQ 4581594

SH8-25-LH-30 SUMMA Canister #0200 Grab Air Sample
Shope ISVS
Collected:08/10/2005 09:15 by BA

Account Number: 11800

Submitted: 08/11/2005 09:00
Reported: 08/22/2005 at 21:39
Discard: 09/22/2005

Lord Corporation
2000 W. Grandview Blvd.
P.O. Box 10040
Erie PA 16509

LH-30 SDG#: LRA05-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
07237	1,2-Dichloroethane	107-06-2	N.D.	500.	ppb(v)	500
07238	Benzene	71-43-2	N.D.	500.	ppb(v)	500
07239	Isooctane	540-84-1	N.D.	500.	ppb(v)	500
07240	Heptane	142-82-5	N.D.	500.	ppb(v)	500
07241	Trichloroethene	79-01-6	190,000.	10,000.	ppb(v)	10000
07242	Ethyl Acrylate	140-88-5	N.D.	500.	ppb(v)	500
07243	1,2-Dichloropropane	78-87-5	N.D.	500.	ppb(v)	500
07244	Methyl Methacrylate	80-62-6	N.D.	500.	ppb(v)	500
07245	Dibromomethane	74-95-3	N.D.	500.	ppb(v)	500
07246	1,4-Dioxane	123-91-1	N.D.	500.	ppb(v)	500
07247	Bromodichloromethane	75-27-4	N.D.	500.	ppb(v)	500
07248	cis-1,3-Dichloropropene	10061-01-5	N.D.	500.	ppb(v)	500
07249	4-Methyl-2-Pentanone	108-10-1	N.D.	500.	ppb(v)	500
07250	Toluene	108-88-3	1,300.	500.	ppb(v)	500
07251	Octane	111-65-9	N.D.	500.	ppb(v)	500
07252	trans-1,3-Dichloropropene	10061-02-6	N.D.	500.	ppb(v)	500
07253	Ethyl Methacrylate	97-63-2	N.D.	500.	ppb(v)	500
07254	1,1,2-Trichloroethane	79-00-5	N.D.	500.	ppb(v)	500
07255	Tetrachloroethene	127-18-4	16,000.	5,000.	ppb(v)	5000
07256	2-Hexanone	591-78-6	N.D.	500.	ppb(v)	500
07257	Dibromochloromethane	124-48-1	N.D.	500.	ppb(v)	500
07258	1,2-Dibromoethane	106-93-4	N.D.	500.	ppb(v)	500
07259	Chlorobenzene	108-90-7	550.	500.	ppb(v)	500
07260	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	500.	ppb(v)	500
07261	Ethylbenzene	100-41-4	N.D.	500.	ppb(v)	500
07262	m/p-Xylene	1330-20-7	2,700.	500.	ppb(v)	500
07263	o-Xylene	95-47-6	3,900.	500.	ppb(v)	500
07264	Styrene	100-42-5	N.D.	500.	ppb(v)	500
07265	Bromoform	75-25-2	N.D.	500.	ppb(v)	500
07266	Cumene	98-82-8	N.D.	500.	ppb(v)	500
07267	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	500.	ppb(v)	500
07268	1,2,3-Trichloropropane	96-18-4	N.D.	500.	ppb(v)	500
07269	Bromobenzene	108-86-1	N.D.	500.	ppb(v)	500
07270	4-Ethyltoluene	622-96-8	N.D.	500.	ppb(v)	500
07271	1,3,5-Trimethylbenzene	108-67-8	N.D.	500.	ppb(v)	500
07272	Alpha Methyl Styrene	98-83-9	N.D.	500.	ppb(v)	500
07273	1,2,4-Trimethylbenzene	95-63-6	N.D.	500.	ppb(v)	500
07274	1,3-Dichlorobenzene	541-73-1	N.D.	500.	ppb(v)	500
07275	1,4-Dichlorobenzene	106-46-7	N.D.	500.	ppb(v)	500

Lancaster Laboratories

ORIGINAL

Lancaster Laboratories Sample No. AQ 4581594

SH8-25-LH-30 SUMMA Canister #0200 Grab Air Sample
Shope ISVS
Collected:08/10/2005 09:15 by BA

Account Number: 11800

Submitted: 08/11/2005 09:00
Reported: 08/22/2005 at 21:39
Discard: 09/22/2005

Lord Corporation
2000 W. Grandview Blvd.
P.O. Box 10040
Erie PA 16509

LH-30 SDG#: LRA05-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
07277	1,2-Dichlorobenzene	95-50-1	N.D.	500.	ppb(v)	500
07278	Hexachloroethane	67-72-1	N.D.	500.	ppb(v)	500
07279	1,2,4-Trichlorobenzene	120-82-1	N.D.	500.	ppb(v)	500
07280	Hexachlorobutadiene	87-68-3	N.D.	500.	ppb(v)	500

The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

Commonwealth of Pennsylvania Lab Certification No. 36-037

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA Method TO-15	1	08/12/2005 14:42	Jeffrey B Smith	10000
05298	TO 15 VOA Ext. List	EPA Method TO-15	1	08/12/2005 15:18	Jeffrey B Smith	5000
05298	TO 15 VOA Ext. List	EPA Method TO-15	1	08/12/2005 15:55	Jeffrey B Smith	500

0089

Lancaster Laboratories

ORIGINAL

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: LH-30 | Date Collected: 08/10/05 | Date Received: 08/11/05
Lab Sample ID: 4581594 | Date Analyzed: 08/12/05 | Time Analyzed: 15:55
Canister ID: SUMMA0200 | Pressure Rec'd: 12.3 psia | Final Pressure: 24.6 psia
Injection Volume: 500 cc | Nominal Volume: 250 cc | Dilution Factor: 500.0
Instrument ID: HP0946 | Lab File ID: C:\MSDCHEM\1\DATA\AUG12\CH0191.D

UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
57-14-7	Unknown	2.42	1600	J D
107-83-5	Pentane, 2-methyl-	4.80	5400	J D
2216-34-4	Octane, 4-methyl-	14.17	4000	J D
5989-54-8	Unknown	20.40	1400	J D
17301-29-0	Unknown Alkane	21.00	1800	J D
17312-83-3	Unknown Alkane	22.56	2200	J D
62185-21-1	Unknown Alkane	22.72	1600	J D
29812-79-1	Unknown	22.75	1400	J D
541-02-6	Siloxane	23.57	1400	J D
112-31-2	Unknown	25.16	1300	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.

0018

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

ORIGINAL

Lancaster Laboratories Sample No. AQ 4581595

SH8-25-TOBI-31 SUMMA Canister #0239 Grab Air Sample
Shope ISVS
Collected:08/10/2005 09:25 by BA

Account Number: 11800

Submitted: 08/11/2005 09:00
Reported: 08/22/2005 at 21:39
Discard: 09/22/2005

Lord Corporation
2000 W. Grandview Blvd.
P.O. Box 10040
Erie PA 16509

TOB31 SDG#: LRA05-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
05298	TO 15 VOA Ext. List					
02076	tert-Butyl Alcohol	75-65-0	N.D.	500.	ppb(v)	500
07201	Propene	115-07-1	N.D.	500.	ppb(v)	500
07202	Dichlorodifluoromethane	75-71-8	N.D.	500.	ppb(v)	500
07203	Chlorodifluoromethane	75-45-6	N.D.	500.	ppb(v)	500
07204	Freon 114	76-14-2	N.D.	500.	ppb(v)	500
07205	Chloromethane	74-87-3	N.D.	500.	ppb(v)	500
07206	Vinyl Chloride	75-01-4	2,200.	500.	ppb(v)	500
07207	1,3-Butadiene	106-99-0	N.D.	500.	ppb(v)	500
07208	Bromomethane	74-83-9	N.D.	500.	ppb(v)	500
07209	Chloroethane	75-00-3	N.D.	500.	ppb(v)	500
07210	Dichlorofluoromethane	75-43-4	N.D.	500.	ppb(v)	500
07212	Trichlorofluoromethane	75-69-4	N.D.	500.	ppb(v)	500
07213	Pentane	109-66-0	N.D.	500.	ppb(v)	500
07214	Acrolein	107-02-8	N.D.	500.	ppb(v)	500
07215	1,1-Dichloroethene	75-35-4	N.D.	500.	ppb(v)	500
07216	Freon 113	76-13-1	N.D.	500.	ppb(v)	500
07217	Acetone	67-64-1	3,200.	1,000.	ppb(v)	500
07218	Methyl Iodide	74-88-4	N.D.	500.	ppb(v)	500
07219	Carbon Disulfide	75-15-0	1,700.	500.	ppb(v)	500
07220	Acetonitrile	75-05-8	2,400.	500.	ppb(v)	500
07221	3-Chloropropene	107-05-1	N.D.	500.	ppb(v)	500
07222	Methylene Chloride	75-09-2	1,400.	500.	ppb(v)	500
07223	Acrylonitrile	107-13-1	N.D.	500.	ppb(v)	500
07224	trans-1,2-Dichloroethene	156-60-5	N.D.	500.	ppb(v)	500
07225	Methyl t-Butyl Ether	1634-04-4	N.D.	500.	ppb(v)	500
07226	Hexane	110-54-3	1,000.	500.	ppb(v)	500
07227	1,1-Dichloroethane	75-34-3	760.	500.	ppb(v)	500
07228	Vinyl Acetate	108-05-4	N.D.	500.	ppb(v)	500
07230	cis-1,2-Dichloroethene	156-59-2	71,000.	5,000.	ppb(v)	5000
07231	2-Butanone	78-93-3	N.D.	500.	ppb(v)	500
07232	Ethyl Acetate	141-78-6	N.D.	500.	ppb(v)	500
07233	Methyl Acrylate	96-33-3	N.D.	500.	ppb(v)	500
07234	Chloroform	67-66-3	2,700.	500.	ppb(v)	500
07235	1,1,1-Trichloroethane	71-55-6	3,200.	500.	ppb(v)	500
07236	Carbon Tetrachloride	56-23-5	N.D.	500.	ppb(v)	500

0014

Lancaster Laboratories

ORIGINAL

Lancaster Laboratories Sample No. AQ 4581595

SH8-25-TOBI-31 SUMMA Canister #0239 Grab Air Sample
Shope ISVS
Collected:08/10/2005 09:25 by BA

Account Number: 11800

Submitted: 08/11/2005 09:00
Reported: 08/22/2005 at 21:39
Discard: 09/22/2005

Lord Corporation
2000 W. Grandview Blvd.
P.O. Box 10040
Erie PA 16509

TOB31 SDG#: LRA05-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
07237	1,2-Dichloroethane	107-06-2	N.D.	500.	ppb(v)	500
07238	Benzene	71-43-2	500.	500.	ppb(v)	500
07239	Isooctane	540-84-1	N.D.	500.	ppb(v)	500
07240	Heptane	142-82-5	N.D.	500.	ppb(v)	500
07241	Trichloroethene	79-01-6	230,000.	10,000.	ppb(v)	10000
07242	Ethyl Acrylate	140-88-5	N.D.	500.	ppb(v)	500
07243	1,2-Dichloropropane	78-87-5	N.D.	500.	ppb(v)	500
07244	Methyl Methacrylate	80-62-6	N.D.	500.	ppb(v)	500
07245	Dibromomethane	74-95-3	N.D.	500.	ppb(v)	500
07246	1,4-Dioxane	123-91-1	N.D.	500.	ppb(v)	500
07247	Bromodichloromethane	75-27-4	N.D.	500.	ppb(v)	500
07248	cis-1,3-Dichloropropene	10061-01-5	N.D.	500.	ppb(v)	500
07249	4-Methyl-2-Pentanone	108-10-1	N.D.	500.	ppb(v)	500
07250	Toluene	108-88-3	1,500.	500.	ppb(v)	500
07251	Octane	111-65-9	N.D.	500.	ppb(v)	500
07252	trans-1,3-Dichloropropene	10061-02-6	N.D.	500.	ppb(v)	500
07253	Ethyl Methacrylate	97-63-2	N.D.	500.	ppb(v)	500
07254	1,1,2-Trichloroethane	79-00-5	N.D.	500.	ppb(v)	500
07255	Tetrachloroethene	127-18-4	18,000.	5,000.	ppb(v)	5000
07256	2-Hexanone	591-78-6	N.D.	500.	ppb(v)	500
07257	Dibromochloromethane	124-48-1	N.D.	500.	ppb(v)	500
07258	1,2-Dibromoethane	106-93-4	N.D.	500.	ppb(v)	500
07259	Chlorobenzene	108-90-7	650.	500.	ppb(v)	500
07260	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	500.	ppb(v)	500
07261	Ethylbenzene	100-41-4	N.D.	500.	ppb(v)	500
07262	m/p-Xylene	1330-20-7	3,200.	500.	ppb(v)	500
07263	o-Xylene	95-47-6	4,900.	500.	ppb(v)	500
07264	Styrene	100-42-5	N.D.	500.	ppb(v)	500
07265	Bromoform	75-25-2	N.D.	500.	ppb(v)	500
07266	Cumene	98-82-8	N.D.	500.	ppb(v)	500
07267	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	500.	ppb(v)	500
07268	1,2,3-Trichloropropane	96-18-4	N.D.	500.	ppb(v)	500
07269	Bromobenzene	108-86-1	N.D.	500.	ppb(v)	500
07270	4-Ethyltoluene	622-96-8	N.D.	500.	ppb(v)	500
07271	1,3,5-Trimethylbenzene	108-67-8	N.D.	500.	ppb(v)	500
07272	Alpha Methyl Styrene	98-83-9	N.D.	500.	ppb(v)	500
07273	1,2,4-Trimethylbenzene	95-63-6	N.D.	500.	ppb(v)	500
07274	1,3-Dichlorobenzene	541-73-1	N.D.	500.	ppb(v)	500
07275	1,4-Dichlorobenzene	106-46-7	N.D.	500.	ppb(v)	500

0012

Lancaster Laboratories

ORIGINAL

Lancaster Laboratories Sample No. AQ 4581595

SH8-25-TOBI-31 SUMMA Canister #0239 Grab Air Sample
Shope ISVS
Collected:08/10/2005 09:25 by BA

Account Number: 11800

Submitted: 08/11/2005 09:00
Reported: 08/22/2005 at 21:39
Discard: 09/22/2005

Lord Corporation
2000 W. Grandview Blvd.
P.O. Box 10040
Erie PA 16509

TOB31 SDG#: LRA05-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
07277	1,2-Dichlorobenzene	95-50-1	N.D.	500.	ppb(v)	500
07278	Hexachloroethane	67-72-1	N.D.	500.	ppb(v)	500
07279	1,2,4-Trichlorobenzene	120-82-1	N.D.	500.	ppb(v)	500
07280	Hexachlorobutadiene	87-68-3	N.D.	500.	ppb(v)	500

The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

Commonwealth of Pennsylvania Lab Certification No. 36-037

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA Method TO-15	1	08/12/2005 16:31	Jeffrey B Smith	10000
05298	TO 15 VOA Ext. List	EPA Method TO-15	1	08/12/2005 17:08	Jeffrey B Smith	5000
05298	TO 15 VOA Ext. List	EPA Method TO-15	1	08/12/2005 17:44	Jeffrey B Smith	500

0013

Lancaster Laboratories

ORIGINAL

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: TOB31 Date Collected: 08/10/05 Date Received: 08/11/05
Lab Sample ID: 4581595 Date Analyzed: 08/12/05 Time Analyzed: 17:44
Canister ID: SUMMA0239 Pressure Rec'd: 12.1 psia Final Pressure: 24.2 psia
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 500.0
Instrument ID: HP0946 Lab File ID: C:\MSDCHEM\1\DATA\AUG12\CH0194.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
74-98-6	Unknown	2.42	1400	J D
107-83-5	Pentane, 2-methyl-	4.80	4500	J D
78-99-9	Unknown	9.43	1200	J D
619-99-8	Unknown Alkane	14.17	3400	J D
112-95-8	Unknown Alkane	20.97	1800	J D
1632-70-8	unknown Alkane	22.55	2700	J D
17301-32-5	Unknown Alkane	22.70	2600	J D
17301-32-5	Unknown Alkane	22.86	1100	J D
541-02-6	Siloxane	23.56	1300	J D
112-31-2	Unknown	25.16	1200	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.

0014

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

ORIGINAL

Lancaster Laboratories Sample No. AQ 4581596

SH8-25-TOE-32 SUMMA Canister #0190 Grab Air Sample
Shope ISVS
Collected:08/10/2005 09:30 by BA

Account Number: 11800

Submitted: 08/11/2005 09:00
Reported: 08/22/2005 at 21:39
Discard: 09/22/2005

Lord Corporation
2000 W. Grandview Blvd.
P.O. Box 10040
Erie PA 16509

TOE32 SDG#: LRA05-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
05298	TO 15 VOA Ext. List					
02076	tert-Butyl Alcohol	75-65-0	N.D.	1.0	ppb(v)	1
07201	Propene	115-07-1	N.D.	1.0	ppb(v)	1
07202	Dichlorodifluoromethane	75-71-8	N.D.	1.0	ppb(v)	1
07203	Chlorodifluoromethane	75-45-6	N.D.	1.0	ppb(v)	1
07204	Freon 114	76-14-2	N.D.	1.0	ppb(v)	1
07205	Chloromethane	74-87-3	6.0	1.0	ppb(v)	1
07206	Vinyl Chloride	75-01-4	N.D.	1.0	ppb(v)	1
07207	1,3-Butadiene	106-99-0	N.D.	1.0	ppb(v)	1
07208	Bromomethane	74-83-9	N.D.	1.0	ppb(v)	1
07209	Chloroethane	75-00-3	2.0	1.0	ppb(v)	1
07210	Dichlorofluoromethane	75-43-4	N.D.	1.0	ppb(v)	1
07212	Trichlorofluoromethane	75-69-4	N.D.	1.0	ppb(v)	1
07213	Pentane	109-66-0	12.	1.0	ppb(v)	1
07214	Acrolein	107-02-8	16.	1.0	ppb(v)	1
07215	1,1-Dichloroethene	75-35-4	2.0	1.0	ppb(v)	1
07216	Freon 113	76-13-1	N.D.	1.0	ppb(v)	1
07217	Acetone	67-64-1	4,400.	800.	ppb(v)	400
07218	Methyl Iodide	74-88-4	N.D.	1.0	ppb(v)	1
07219	Carbon Disulfide	75-15-0	N.D.	1.0	ppb(v)	1
07220	Acetonitrile	75-05-8	N.D.	1.0	ppb(v)	1
07221	3-Chloropropene	107-05-1	N.D.	1.0	ppb(v)	1
07222	Methylene Chloride	75-09-2	N.D.	1.0	ppb(v)	1
07223	Acrylonitrile	107-13-1	N.D.	1.0	ppb(v)	1
07224	trans-1,2-Dichloroethene	156-60-5	N.D.	1.0	ppb(v)	1
07225	Methyl t-Butyl Ether	1634-04-4	N.D.	1.0	ppb(v)	1
07227	1,1-Dichloroethane	75-34-3	N.D.	1.0	ppb(v)	1
07228	Vinyl Acetate	108-05-4	N.D.	1.0	ppb(v)	1
07230	cis-1,2-Dichloroethene	156-59-2	N.D.	1.0	ppb(v)	1
07231	2-Butanone	78-93-3	820.	400.	ppb(v)	400
07232	Ethyl Acetate	141-78-6	N.D.	1.0	ppb(v)	1
07233	Methyl Acrylate	96-33-3	N.D.	1.0	ppb(v)	1
07234	Chloroform	67-66-3	N.D.	1.0	ppb(v)	1
07235	1,1,1-Trichloroethane	71-55-6	N.D.	1.0	ppb(v)	1
07236	Carbon Tetrachloride	56-23-5	3.0	1.0	ppb(v)	1
07237	1,2-Dichloroethane	107-06-2	N.D.	1.0	ppb(v)	1

0015

Lancaster Laboratories

ORIGINAL

Lancaster Laboratories Sample No. AQ 4581596

SH8-25-TOE-32 SUMMA Canister #0190 Grab Air Sample
Shope ISVS
Collected:08/10/2005 09:30 by BA

Account Number: 11800

Submitted: 08/11/2005 09:00
Reported: 08/22/2005 at 21:39
Discard: 09/22/2005

Lord Corporation
2000 W. Grandview Blvd.
P.O. Box 10040
Erie PA 16509

TOE32 SDG#: LRA05-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
07238	Benzene	71-43-2	N.D.	1.0	ppb(v)	1
07239	Isooctane	540-84-1	N.D.	1.0	ppb(v)	1
07240	Heptane	142-82-5	17.	1.0	ppb(v)	1
07241	Trichloroethene	79-01-6	8.0	1.0	ppb(v)	1
07242	Ethyl Acrylate	140-88-5	N.D.	1.0	ppb(v)	1
07243	1,2-Dichloropropane	78-87-5	N.D.	1.0	ppb(v)	1
07244	Methyl Methacrylate	80-62-6	N.D.	1.0	ppb(v)	1
07245	Dibromomethane	74-95-3	N.D.	1.0	ppb(v)	1
07246	1,4-Dioxane	123-91-1	N.D.	1.0	ppb(v)	1
07247	Bromodichloromethane	75-27-4	N.D.	1.0	ppb(v)	1
07248	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.0	ppb(v)	1
07249	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	ppb(v)	1
07250	Toluene	108-88-3	1.0	1.0	ppb(v)	1
07251	Octane	111-65-9	13.	1.0	ppb(v)	1
07252	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.0	ppb(v)	1
07253	Ethyl Methacrylate	97-63-2	N.D.	1.0	ppb(v)	1
07254	1,1,2-Trichloroethane	79-00-5	N.D.	1.0	ppb(v)	1
07255	Tetrachloroethene	127-18-4	7.0	1.0	ppb(v)	1
07256	2-Hexanone	591-78-6	90.	20.	ppb(v)	20
07257	Dibromochloromethane	124-48-1	N.D.	1.0	ppb(v)	1
07258	1,2-Dibromoethane	106-93-4	N.D.	1.0	ppb(v)	1
07259	Chlorobenzene	108-90-7	N.D.	1.0	ppb(v)	1
07260	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.0	ppb(v)	1
07261	Ethylbenzene	100-41-4	3.0	1.0	ppb(v)	1
07262	m/p-Xylene	1330-20-7	8.0	1.0	ppb(v)	1
07263	o-Xylene	95-47-6	4.0	1.0	ppb(v)	1
07264	Styrene	100-42-5	N.D.	1.0	ppb(v)	1
07265	Bromoform	75-25-2	N.D.	1.0	ppb(v)	1
07266	Cumene	98-82-8	N.D.	1.0	ppb(v)	1
07267	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.0	ppb(v)	1
07268	1,2,3-Trichloropropane	96-18-4	N.D.	1.0	ppb(v)	1
07269	Bromobenzene	108-86-1	N.D.	1.0	ppb(v)	1
07270	4-Ethyltoluene	622-96-8	N.D.	1.0	ppb(v)	1
07271	1,3,5-Trimethylbenzene	108-67-8	N.D.	1.0	ppb(v)	1
07272	Alpha Methyl Styrene	98-83-9	N.D.	1.0	ppb(v)	1
07273	1,2,4-Trimethylbenzene	95-63-6	N.D.	1.0	ppb(v)	1
07274	1,3-Dichlorobenzene	541-73-1	N.D.	1.0	ppb(v)	1
07275	1,4-Dichlorobenzene	106-46-7	N.D.	1.0	ppb(v)	1
07277	1,2-Dichlorobenzene	95-50-1	N.D.	1.0	ppb(v)	1

Lancaster Laboratories

ORIGINAL

Lancaster Laboratories Sample No. AQ 4581596

SH8-25-TOE-32 SUMMA Canister #0190 Grab Air Sample
Shope ISVS
Collected:08/10/2005 09:30 by BA

Account Number: 11800

Submitted: 08/11/2005 09:00
Reported: 08/22/2005 at 21:39
Discard: 09/22/2005

Lord Corporation
2000 W. Grandview Blvd.
P.O. Box 10040
Erie PA 16509

TOE32 SDG#: LRA05-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
07278	Hexachloroethane	67-72-1	N.D.	1.0	ppb(v)	1
07279	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.0	ppb(v)	1
07280	Hexachlorobutadiene	87-68-3	N.D.	1.0	ppb(v)	1

A targeted library search was performed for Phosgene. Phosgene was not detected in the sample anlysis.

Commonwealth of Pennsylvania Lab Certification No. 36-037

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA Method TO-15	1	08/11/2005 11:08	Douglas Graham	1
05298	TO 15 VOA Ext. List	EPA Method TO-15	1	08/11/2005 13:21	Douglas Graham	20
05298	TO 15 VOA Ext. List	EPA Method TO-15	1	08/12/2005 14:05	Douglas Graham	400

8817

Lancaster Laboratories

ORIGINAL

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: TOE32 Date Collected: 08/10/05 Date Received: 08/11/05
Lab Sample ID: 4581596 Date Analyzed: 08/11/05 Time Analyzed: 11:08
Canister ID: SUMMA0190 Pressure Rec'd: 14.0 psia Final Pressure: 28.1 psia
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP0946 Lab File ID: C:\MSDCHEM\1\DATA\AUG10\CH0168.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
115-11-7	1-Propene, 2-methyl-	2.72	89	J
75-07-0	Acetaldehyde	2.86	52	J
57-14-7	Unknown	3.06	43	J
75-91-2	Unknown	5.47	390	J
110-54-3	Unknown	5.58	55	J
60-35-5	Unknown	5.70	110	J
107-87-9	Unknown ketone	9.55	35	J
75-97-8	Unknown ketone	10.18	24	J
541-05-9	Siloxane	12.73	57	J
556-67-2	Siloxane	18.58	23	J

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.

0010

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

ORIGINAL

GC/MS Volatile Organics in Air

ORIGINAL

Case Narrative Conformance/Nonconformance Summary

Lancaster Laboratories
Where quality is a science.

ORIGINAL

CASE NARRATIVE

Client: Lord Corporation
SDG #: LRA05

LANCASTER LABORATORIES
GC/MS VOLATILE ORGANICS IN AIR

SAMPLE NUMBER(S) :

LL #'s	Sample Code	Comments
4581594	LH-30	500X Dilution
4581594	LH-30	5000X Dilution
4581594	LH-30	10000X Dilution
4581595	TOB31	500X Dilution
4581595	TOB31	5000X Dilution
4581595	TOB31	10000X Dilution
4581596	TOE32	
4581596	TOE32	20X Dilution
4581596	TOE32	400X Dilution

LABORATORY SUBMITTED QC:

VBLKC76	VBLKC76	Method Blank
VBLKC77	VBLKC77	Method Blank
LCSC76	LCSC76	Lab Control Sample

All canisters were cleaned by repeated evacuation and pressurization with clean nitrogen, as per SOP-MS-009. Each canister was filled with clean nitrogen and analyzed before the final evacuation prior to shipping to the client. All target compounds were below the limit of quantitation in the cleaning certification analyses.

SAMPLE PREPARATION:

Samples were diluted to twice their original absolute pressure upon receipt in the air analysis laboratory using clean nitrogen. This dilution is done to ensure positive pressure in the sample canisters throughout the analysis, minimizing the risk of sample

Case Narrative (continued)
SDG: LRA05

contamination, and bringing the samples to the approximate pressure at which blanks and calibration standards are delivered to the analytical instrumentation. This twofold dilution is offset by analyzing 500cc of each sample, twice the nominal volume of 250cc upon which the GC/MS calibration is based. This strategy yields an overall dilution factor of 1.0 and allows sample pressurization without raising the limits of quantitation. The nitrogen used to pressurize sample canisters is monitored as the daily method blank to ensure that no contamination of samples occurs during dilution.

Dilutions of 10X or less were performed by analyzing a reduced sample volume. Dilutions greater than 10X were performed by transferring a measured volume from the sample container to a clean, evacuated SUMMA canister with a gas-tight syringe and diluting with zero grade humidified air.

No problems were encountered during the preparation of these samples.

ANALYSIS:

The method used for analysis was EPA Method TO-15.

No problems were encountered during the analysis of these samples.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

A Laboratory Control Sample (LCS) was analyzed with these samples. The LCS consists of six target compounds at approximately 50ppbv in a SUMMA canister, acquired independently from calibration standards. The LCS serves as a check of analysis and calibration standards validity. All LCS compounds were within the control limits specified on the Laboratory Control Sample Data Sheet.

All other QC was within specifications.

DATA INTERPRETATION:

Only non-conformances for client requested compounds are addressed in this case narrative.

All raw data is quantified in units of ppbv, parts per billion by volume.

0022

Case Narrative (continued)
SDG: LRA05

No further interpretation is necessary for the data submitted.

Case Narrative Reviewed and Approved by:

(b) (4) [redacted] Date: 8/24/05

Manager, GC/MS Volatiles in Air

Lancaster Laboratories • 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425
Phone: 717-656-2300 • Fax: 717-656-2300 • http:// www.LancasterLabs.com

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

ORIGINAL

ANALYSIS RUNLOG

Instrument ID: HP09464 Data File Path: C:\MSDCHEM\1\DATA\AUG08

File ID	LL #	Sample ID	Anal Date/Time	SUMMA ID	psia Rc'd	psia Fn'l	Dilution Factor	Sample Vol cc
\CH012Z.D	BFB	BFB	08/08/05 07:43					25
\CH0122.D	VSTD010	VSTD010	08/08/05 09:07					250
\CH0123.D	VSTD005	VSTD005	08/08/05 09:52					250
\CH0124.D	VSTD002	VSTD002	08/08/05 10:29					250
\CH0125.D	VSTD001	VSTD001	08/08/05 11:05					250
\CH0126.D	VSTD025	VSTD025	08/08/05 11:41					250

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

ORIGINAL

ANALYSIS RUNLOG

Instrument ID: HP09464 Data File Path: C:\MSDCHEM\1\DATA\AUG10

File ID	LL #	Sample ID	Anal Date/Time	SUMMA ID	psia Rc'd	psia Fn'l	Dilution Factor	Sample Vol cc
\CH0147.D	BFB	BFB	08/10/05 15:47					25
\CH0148.D	VSTD010	VSTD010	08/10/05 16:41					250
\CH0155.D	VBLKC76	VBLKC76	08/10/05 18:23					250
\CH0156.D	LCSC76	LCSC76	08/10/05 18:59					250
\CH0168.D	4581596	TOE32	08/11/05 11:08	0190	14.0	28.1	1.0	500
\CH0170.D	4581596	TOE32	08/11/05 13:21	0190	14.0	28.1	20.0	25

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

ORIGINAL

ANALYSIS RUNLOG

Instrument ID: HP09464 Data File Path: C:\MSDCHEM\1\DATA\AUG12

File ID	LL #	Sample ID	Anal Date/Time	SUMMA ID	psia Rc'd	psia Fn'l	Dilution Factor	Sample Vol cc
\CH0180.D	BFB	BFB	08/12/05 10:47					25
\CH0181.D	VSTD010	VSTD010	08/12/05 11:29					250
\CH0183.D	VBLKC77	VBLKC77	08/12/05 12:56					250
\CH0188.D	4581596	TOE32	08/12/05 14:05	0190	14.0	28.1	400.0	250
\CH0189.D	4581594	LH-30	08/12/05 14:42	0200	12.3	24.6	10000.0	25
\CH0190.D	4581594	LH-30	08/12/05 15:18	0200	12.3	24.6	5000.0	50
\CH0191.D	4581594	LH-30	08/12/05 15:55	0200	12.3	24.6	500.0	500
\CH0192.D	4581595	TOB31	08/12/05 16:31	0239	12.1	24.2	10000.0	25
\CH0193.D	4581595	TOB31	08/12/05 17:08	0239	12.1	24.2	5000.0	50
\CH0194.D	4581595	TOB31	08/12/05 17:44	0239	12.1	24.2	500.0	500

8826

ORIGINAL

QC Summary

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

ORIGINAL

GC/MS INSTRUMENT PERFORMANCE CHECK AND MASS CALIBRATION

Sample No.: BFB Date Analyzed: 08/08/05 Time Analyzed: 07:43
Lab Sample ID: BFB Lab File ID: C:\MSDCHEM\1\DATA\AUG08\CH012Z.D
Instrument ID: HP09464 Mass BFB Injected: 25 ng

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance to: m/e 95	specified mass
50	15.0 - 40.0% of m/e 95	20.7	20.7
75	30.0 - 60.0% of m/e 95	43.8	43.8
95	Base peak, 100% relative abundance	100.0	100.0
96	5.0 - 9.0% of m/e 95	6.3	6.3
173	Less than 2.0% of m/e 174	0.0	0.0
174	50.0 - 100.0% of m/e 95	94.4	94.4
175	5.0 - 9.0% of m/e 174	7.4	7.8
176	95.0 - 101.0% of m/e 174	92.5	98.0
177	5.0 - 9.0% of m/e 176	5.9	6.3

THIS TUNE APPLIES TO THE FOLLOWING:

Sample No.	Lab Sample ID	Lab File ID	Analysis Date	Analysis Time
VSTD010	VSTD010	C:\MSDCHEM\1\DATA\AUG08\CH0122.D	08/08/05	09:07
VSTD005	VSTD005	C:\MSDCHEM\1\DATA\AUG08\CH0123.D	08/08/05	09:52
VSTD002	VSTD002	C:\MSDCHEM\1\DATA\AUG08\CH0124.D	08/08/05	10:29
VSTD001	VSTD001	C:\MSDCHEM\1\DATA\AUG08\CH0125.D	08/08/05	11:05
VSTD025	VSTD025	C:\MSDCHEM\1\DATA\AUG08\CH0126.D	08/08/05	11:41

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

ORIGINAL

GC/MS INSTRUMENT PERFORMANCE CHECK AND MASS CALIBRATION

Sample No.: BFB Date Analyzed: 08/10/05 Time Analyzed: 15:47
Lab Sample ID: BFB Lab File ID: C:\MSDCHEM\1\DATA\AUG10\CH0147.D
Instrument ID: HP09464 Mass BFB Injected: 25 ng

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance to: m/e 95	specified mass
50	15.0 - 40.0% of m/e 95	19.2	19.2
75	30.0 - 60.0% of m/e 95	44.0	44.0
95	Base peak, 100% relative abundance	100.0	100.0
96	5.0 - 9.0% of m/e 95	6.6	6.6
173	Less than 2.0% of m/e 174	0.0	0.0
174	50.0 - 100.0% of m/e 95	97.4	97.4
175	5.0 - 9.0% of m/e 174	7.3	7.5
176	95.0 - 101.0% of m/e 174	95.5	98.0
177	5.0 - 9.0% of m/e 176	6.3	6.6

THIS TUNE APPLIES TO THE FOLLOWING:

Sample No.	Lab Sample ID	Lab File ID	Analysis Date	Analysis Time
VSTD010	VSTD010	C:\MSDCHEM\1\DATA\AUG10\CH0148.D	08/10/05	16:41
VBLKC76	VBLKC76	C:\MSDCHEM\1\DATA\AUG10\CH0155.D	08/10/05	18:23
LCSC76	LCSC76	C:\MSDCHEM\1\DATA\AUG10\CH0156.D	08/10/05	18:59
[illegible]OE32	4581596	C:\MSDCHEM\1\DATA\AUG10\CH0168.D	08/11/05	11:08
[illegible]OE32	4581596	C:\MSDCHEM\1\DATA\AUG10\CH0170.D	08/11/05	13:21

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

ORIGINAL

GC/MS INSTRUMENT PERFORMANCE CHECK AND MASS CALIBRATION

Sample No.: BFB Date Analyzed: 08/12/05 Time Analyzed: 10:47
Lab Sample ID: BFB Lab File ID: C:\MSDCHEM\1\DATA\AUG12\CH0180.D
Instrument ID: HP09464 Mass BFB Injected: 25 ng

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance to: m/e 95	specified mass
50	15.0 - 40.0% of m/e 95	21.9	21.9
75	30.0 - 60.0% of m/e 95	45.7	45.7
95	Base peak, 100% relative abundance	100.0	100.0
96	5.0 - 9.0% of m/e 95	7.0	7.0
173	Less than 2.0% of m/e 174	0.0	0.0
174	50.0 - 100.0% of m/e 95	93.0	93.0
175	5.0 - 9.0% of m/e 174	7.2	7.7
176	95.0 - 101.0% of m/e 174	91.2	98.2
177	5.0 - 9.0% of m/e 176	5.8	6.4

THIS TUNE APPLIES TO THE FOLLOWING:

Sample No.	Lab Sample ID	Lab File ID	Analysis Date	Analysis Time
VSTD010	VSTD010	C:\MSDCHEM\1\DATA\AUG12\CH0181.D	08/12/05	11:29
VBLKC77	VBLKC77	C:\MSDCHEM\1\DATA\AUG12\CH0183.D	08/12/05	12:56
TOE32	4581596	C:\MSDCHEM\1\DATA\AUG12\CH0188.D	08/12/05	14:05
LH-30	4581594	C:\MSDCHEM\1\DATA\AUG12\CH0189.D	08/12/05	14:42
LH-30	4581594	C:\MSDCHEM\1\DATA\AUG12\CH0190.D	08/12/05	15:18
LH-30	4581594	C:\MSDCHEM\1\DATA\AUG12\CH0191.D	08/12/05	15:55
TOB31	4581595	C:\MSDCHEM\1\DATA\AUG12\CH0192.D	08/12/05	16:31
TOB31	4581595	C:\MSDCHEM\1\DATA\AUG12\CH0193.D	08/12/05	17:08
TOB31	4581595	C:\MSDCHEM\1\DATA\AUG12\CH0194.D	08/12/05	17:44

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

ORIGINAL

BLANK SUMMARY

Instrument ID: HP09464 Sample No.: VBLKC76 Lab Sample ID: VBLKC76
Injection Volume: 250cc Date Analyzed: 08/10/05 Time Analyzed: 18:23
Lab File ID: C:\MSDCHEM\1\DATA\AUG10\CH0155.D

THIS BLANK APPLIES TO THE FOLLOWING SAMPLES:

#	SAMPLE NO.	LAB SAMP.ID	LAB FILE ID	CANISTER ID	DATE	TIME
01	LCSC76	LCSC76	\AUG10\CH0156.D		08/10/05	18:59
02	TOE32	4581596	\AUG10\CH0168.D	0190	08/11/05	11:08
03	TOE32	4581596	\AUG10\CH0170.D	0190	08/11/05	13:21

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

ORIGINAL

BLANK SUMMARY

Instrument ID: HP09464 Sample No.: VBLKC77 Lab Sample ID: VBLKC77
Injection Volume: 250cc Date Analyzed: 08/12/05 Time Analyzed: 12:56
Lab File ID: C:\MSDCHEM\1\DATA\AUG12\CH0183.D

THIS BLANK APPLIES TO THE FOLLOWING SAMPLES:

#	SAMPLE NO.	LAB SAMP.ID	LAB FILE ID	CANISTER ID	DATE	TIME
01	TOE32	4581596	\AUG12\CH0188.D	0190	08/12/05	14:05
02	LH-30	4581594	\AUG12\CH0189.D	0200	08/12/05	14:42
03	LH-30	4581594	\AUG12\CH0190.D	0200	08/12/05	15:18
04	LH-30	4581594	\AUG12\CH0191.D	0200	08/12/05	15:55
05	TOB31	4581595	\AUG12\CH0192.D	0239	08/12/05	16:31
06	TOB31	4581595	\AUG12\CH0193.D	0239	08/12/05	17:08
07	TOB31	4581595	\AUG12\CH0194.D	0239	08/12/05	17:44

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

ORIGINAL

Sample No.: VBLKC76 | Date Collected: | Date Received:
Lab Sample ID: VBLKC76 | Date Analyzed: 08/10/05 | Time Analyzed: 18:23
Canister ID: SUMMA | Pressure Rec'd: 14.7 psia | Final Pressure: 14.7 psia
Injection Volume: 250 cc | Nominal Volume: 250 cc | Dilution Factor: 1.0
Instrument ID: HP0946 | Lab File ID: C:\MSDCHEM\1\DATA\AUG10\CH0155.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: ppb(v)	Q
115-07-1	Propene	1	U
75-71-8	Dichlorodifluoromethane	1	U
75-45-6	Chlorodifluoromethane	1	U
76-14-2	Freon 114	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
106-99-0	1,3-Butadiene	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-43-4	Dichlorofluoromethane	1	U
75-69-4	Trichlorofluoromethane	1	U
109-66-0	Pentane	1	U
107-02-8	Acrolein	1	U
75-35-4	1,1-Dichloroethene	1	U
76-13-1	Freon 113	1	U
67-64-1	Acetone	2	U
74-88-4	Methyl Iodide	1	U
[illegible]-15-0	Carbon Disulfide	1	U
[illegible]-05-8	Acetonitrile	1	U
107-05-1	3-Chloropropene	1	U
75-09-2	Methylene Chloride	1	U
75-65-0	tert-Butyl Alcohol	1	U
107-13-1	Acrylonitrile	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
1634-04-4	Methyl t-Butyl Ether	1	U
110-54-3	Hexane	1	U
75-34-3	1,1-Dichloroethane	1	U
108-05-4	Vinyl Acetate	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
78-93-3	2-Butanone	1	U
141-78-6	Ethyl Acetate	1	U
96-33-3	Methyl Acrylate	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

ORIGINAL

Sample No.: VBLKC76 | Date Collected: | Date Received:
Lab Sample ID: VBLKC76 | Date Analyzed: 08/10/05 | Time Analyzed: 18:23
Canister ID: SUMMA | Pressure Rec'd: 14.7 psia | Final Pressure: 14.7 psia
Injection Volume: 250 cc | Nominal Volume: 250 cc | Dilution Factor: 1.0
Instrument ID: HP0946 | Lab File ID: C:\MSDCHEM\1\DATA\AUG10\CH0155.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: ppb(v)	Q
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
540-84-1	Isooctane	1	U
142-82-5	Heptane	1	U
79-01-6	Trichloroethene	1	U
140-88-5	Ethyl Acrylate	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl Methacrylate	1	U
74-95-3	Dibromomethane	1	U
123-91-1	1,4-Dioxane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-Pentanone	1	U
108-88-3	Toluene	1	U
111-65-9	Octane	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
[illegible]-63-2	Ethyl Methacrylate	1	U
[illegible]-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
591-78-6	2-Hexanone	1	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Cumene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
108-86-1	Bromobenzene	1	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

ORIGINAL

Sample No.: VBLKC76 | Date Collected: | Date Received:
Lab Sample ID: VBLKC76 | Date Analyzed: 08/10/05 | Time Analyzed: 18:23
Canister ID: SUMMA | Pressure Rec'd: 14.7 psia | Final Pressure: 14.7 psia
Injection Volume: 250 cc | Nominal Volume: 250 cc | Dilution Factor: 1.0
Instrument ID: HP0946 | Lab File ID: C:\MSDCHEM\1\DATA\AUG10\CH0155.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: ppb(v)	Q
622-96-8	4-Ethyltoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-83-9	Alpha Methyl Styrene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
67-72-1	Hexachloroethane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

ORIGINAL

Sample No.: VBLKC77 | Date Collected: | Date Received:
Lab Sample ID: VBLKC77 | Date Analyzed: 08/12/05 | Time Analyzed: 12:56
Canister ID: SUMMA | Pressure Rec'd: 14.7 psia | Final Pressure: 14.7 psia
Injection Volume: 250 cc | Nominal Volume: 250 cc | Dilution Factor: 1.0
Instrument ID: HP0946 | Lab File ID: C:\MSDCHEM\1\DATA\AUG12\CH0183.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: ppb(v)	Q
115-07-1	Propene	1	U
75-71-8	Dichlorodifluoromethane	1	U
75-45-6	Chlorodifluoromethane	1	U
76-14-2	Freon 114	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
106-99-0	1,3-Butadiene	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-43-4	Dichlorofluoromethane	1	U
75-69-4	Trichlorofluoromethane	1	U
109-66-0	Pentane	1	U
107-02-8	Acrolein	1	U
75-35-4	1,1-Dichloroethene	1	U
76-13-1	Freon 113	1	U
67-64-1	Acetone	2	U
74-88-4	Methyl Iodide	1	U
[illegible]-15-0	Carbon Disulfide	1	U
[illegible]-05-8	Acetonitrile	1	U
107-05-1	3-Chloropropene	1	U
75-09-2	Methylene Chloride	1	U
75-65-0	tert-Butyl Alcohol	1	U
107-13-1	Acrylonitrile	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
1634-04-4	Methyl t-Butyl Ether	1	U
110-54-3	Hexane	1	U
75-34-3	1,1-Dichloroethane	1	U
108-05-4	Vinyl Acetate	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
78-93-3	2-Butanone	1	U
141-78-6	Ethyl Acetate	1	U
96-33-3	Methyl Acrylate	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

ORIGINAL

Sample No.: VBLKC77 | Date Collected: | Date Received:
Lab Sample ID: VBLKC77 | Date Analyzed: 08/12/05 | Time Analyzed: 12:56
Canister ID: SUMMA | Pressure Rec'd: 14.7 psia | Final Pressure: 14.7 psia
Injection Volume: 250 cc | Nominal Volume: 250 cc | Dilution Factor: 1.0
Instrument ID: HP0946 | Lab File ID: C:\MSDCHEM\1\DATA\AUG12\CH0183.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: ppb(v)	Q
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
540-84-1	Isooctane	1	U
142-82-5	Heptane	1	U
79-01-6	Trichloroethene	1	U
140-88-5	Ethyl Acrylate	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl Methacrylate	1	U
74-95-3	Dibromomethane	1	U
123-91-1	1,4-Dioxane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-Pentanone	1	U
108-88-3	Toluene	1	U
111-65-9	Octane	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
[illegible]-63-2	Ethyl Methacrylate	1	U
[illegible]-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
591-78-6	2-Hexanone	1	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Cumene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
108-86-1	Bromobenzene	1	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

ORIGINAL

Sample No.: VBLKC77 Date Collected: Date Received:
Lab Sample ID: VBLKC77 Date Analyzed: 08/12/05 Time Analyzed: 12:56
Canister ID: SUMMA Pressure Rec'd: 14.7 psia Final Pressure: 14.7 psia
Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP0946 Lab File ID: C:\MSDCHEM\1\DATA\AUG12\CH0183.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: ppb(v)	Q
622-96-8	4-Ethyltoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-83-9	Alpha Methyl Styrene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
67-72-1	Hexachloroethane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

ORIGINAL

LABORATORY CONTROL SAMPLE DATA SHEET

Sample No.: LCSC76 Date Analyzed: 08/10/05 Time Analyzed: 18:59
Lab Sample ID: LCSC76 Instrument ID: HP09464
Lab File ID: C:\MSDCHEM\1\DATA\AUG10\CH0156.D

COMPOUND NAME	CONCENTRATION (ppbv) SPIKED	REPORTED	% RECOVERY	LOWER - UPPER CONTROL LIMITS	Q
Vinyl Chloride	10.25	10.70	104	68 - 135	
1,1,1-Trichloroethane	10.90	11.35	104	81 - 157	
Benzene	10.65	11.34	106	70 - 150	
Trichloroethene	10.90	10.55	97	65 - 144	
Ethylbenzene	10.90	11.57	106	65 - 149	
1,4-Dichlorobenzene	10.60	11.21	106	37 - 149	

LCS Recovery: 0 outside limits out of 6 total.

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

ORIGINAL

Sample No.: VSTD025 Date Analyzed: 08/08/05 Time Analyzed: 11:41
Lab Sample ID: VSTD025 Lab File ID: C:\MSDCHEM\1\DATA\AUG08\CH0126.D
Instrument ID: HP09464

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene d5	
	Area #	R.T. #	Area #	R.T. #	Area #	R.T. #
24 HOUR STANDARD	672634	6.97	2270301	8.66	2217582	14.51
UPPER LIMIT	1345268	7.47	4540602	9.16	4435164	15.01
LOWER LIMIT	336317	6.47	1135150	8.16	1108791	14.01
EPA SAMPLE NO.						
VSTD010	770784	6.95	2518913	8.63	2359271	14.48
VSTD005	687518	6.94	2327639	8.62	2117411	14.47
VSTD002	612730	6.94	2137336	8.61	1992951	14.46
VSTD001	584365	6.94	2067826	8.61	1882396	14.45

AREA: Upper Limit +100% of internal standard area.
Lower Limit -50% of internal standard area.
R.T.: Upper Limit +0.5 minutes of internal standard R.T.
Lower Limit -0.5 minutes of internal standard R.T.

All values outside of the QC limits are flagged with an * in the # column.

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

ORIGINAL

Sample No.: VSTD010 Date Analyzed: 08/10/05 Time Analyzed: 16:41
Lab Sample ID: VSTD010 Lab File ID: C:\MSDCHEM\1\DATA\AUG10\CH0148.D
Instrument ID: HP09464

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene d5	
	Area #	R.T. #	Area #	R.T. #	Area #	R.T. #
24 HOUR STANDARD	756144	6.95	2535507	8.63	2302917	14.48
UPPER LIMIT	1512288	7.45	5071014	9.13	4605834	14.98
LOWER LIMIT	378072	6.45	1267754	8.13	1151458	13.98
EPA SAMPLE NO.						
VBLKC76	635560	6.94	2133344	8.62	1992601	14.46
LCSC76	566035	6.94	1950167	8.62	1830851	14.47
TOE32	824510	7.11	2794022	8.76	2561665	14.52
TOE32	625852	6.95	2123785	8.63	1955121	14.46

AREA: Upper Limit +100% of internal standard area.
Lower Limit -50% of internal standard area.
R.T.: Upper Limit +0.5 minutes of internal standard R.T.
Lower Limit -0.5 minutes of internal standard R.T.

All values outside of the QC limits are flagged with an * in the # column.

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

ORIGINAL

Sample No.: VSTD010 Date Analyzed: 08/12/05 Time Analyzed: 11:29
Lab Sample ID: VSTD010 Lab File ID: C:\MSDCHEM\1\DATA\AUG12\CH0181.D
Instrument ID: HP09464

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene d5	
	Area #	R.T. #	Area #	R.T. #	Area #	R.T. #
24 HOUR STANDARD	662790	6.95	2246210	8.63	2136962	14.48
UPPER LIMIT	1325580	7.45	4492420	9.13	4273924	14.98
LOWER LIMIT	331395	6.45	1123105	8.13	1068481	13.98
EPA SAMPLE NO.						
VBLKC77	556942	6.94	1918640	8.62	1851458	14.46
TOE32	598226	6.94	2070914	8.61	1993899	14.45
LH-30	563603	6.94	1876631	8.61	1764901	14.45
LH-30	553151	6.93	1906908	8.61	1836146	14.45
LH-30	617652	6.94	2132435	8.65	2072757	14.47
TOB31	606607	6.93	2081888	8.61	1899783	14.45
TOB31	617368	6.94	2073752	8.62	1955025	14.45
TOB31	629145	6.95	2151462	8.65	2041876	14.47

AREA: Upper Limit +100% of internal standard area.
Lower Limit -50% of internal standard area.
R.T.: Upper Limit +0.5 minutes of internal standard R.T.
Lower Limit -0.5 minutes of internal standard R.T.

All values outside of the QC limits are flagged with an * in the # column.

ORIGINAL

Sample Data

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

ORIGINAL

MINIMUM DETECTION LIMIT STUDY

Instrument ID: HP09464 Data File Path: C:\MSDCHEM\1\DATA\APR25

\CD0354.D 04/25/05 11:42	\CD0356.D 04/25/05 16:15	\CD0357.D 04/25/05 16:51	\CD0358.D 04/25/05 17:27	\CD0359.D 04/25/05 18:03	\CD0360.D 04/25/05 18:39	\CD0361.D 04/25/05 19:15

COMPOUND NAME	MDL 1	MDL 2	MDL 3	MDL 4	MDL 5	MDL 6	MDL 7	MDL
Propene	0.310	0.260	0.270	0.250	0.250	0.190	0.230	0.115
Dichlorodifluoromethane	0.360	0.280	0.330	0.320	0.320	0.230	0.270	0.138
Chlorodifluoromethane	0.330	0.300	0.310	0.280	0.310	0.220	0.230	0.133
Freon 114	0.330	0.260	0.300	0.290	0.280	0.220	0.220	0.129
Chloromethane	0.310	0.230	0.300	0.250	0.260	0.170	0.220	0.151
Vinyl Chloride	0.300	0.240	0.250	0.230	0.240	0.180	0.190	0.125
1,3-Butadiene	0.230	0.190	0.230	0.220	0.220	0.170	0.180	0.079
Bromomethane	0.280	0.250	0.260	0.210	0.230	0.180	0.210	0.108
Chloroethane	0.240	0.220	0.240	0.150	0.240	0.160	0.150	0.139
Dichlorofluoromethane	0.320	0.260	0.300	0.300	0.290	0.230	0.230	0.113
Trichlorofluoromethane	0.380	0.290	0.330	0.340	0.340	0.240	0.260	0.157
Pentane	0.240	0.210	0.280	0.240	0.260	0.190	0.210	0.099
Acrolein	0.460	0.480	0.560	0.360	0.500	0.530	0.400	0.222
1,1-Dichloroethene	0.310	0.230	0.270	0.270	0.270	0.200	0.250	0.110
Freon 113	0.280	0.200	0.290	0.260	0.260	0.210	0.230	0.108
Acetone	0.490	0.310	0.320	0.290	0.300	0.200	0.230	0.291
Methyl Iodide	0.270	0.220	0.250	0.250	0.250	0.190	0.200	0.094
Carbon Disulfide	0.300	0.290	0.300	0.280	0.280	0.210	0.250	0.102
Acetonitrile	0.290	0.180	0.200	0.200	0.190	0.130	0.140	0.164
[illegible]hloropropene	0.160	0.140	0.190	0.120	0.190	0.150	0.120	0.092
Methylene Chloride	0.400	0.350	0.330	0.330	0.320	0.310	0.300	0.104
tert-Butyl Alcohol	0.190	0.070	0.050	0.020	0.080	0.030	0.040	0.181
Acrylonitrile	0.200	0.150	0.210	0.190	0.200	0.150	0.160	0.081
trans-1,2-Dichloroethene	0.320	0.250	0.280	0.250	0.280	0.190	0.190	0.151
Methyl t-Butyl Ether	0.250	0.190	0.220	0.220	0.240	0.140	0.190	0.117
Hexane	0.280	0.200	0.250	0.260	0.260	0.170	0.220	0.123
1,1-Dichloroethane	0.270	0.230	0.270	0.250	0.260	0.180	0.230	0.100
Vinyl Acetate	0.190	0.150	0.190	0.200	0.170	0.140	0.150	0.075
cis-1,2-Dichloroethene	0.270	0.190	0.250	0.240	0.250	0.170	0.190	0.121
2-Butanone	0.650	0.520	0.700	0.360	0.600	0.560	0.440	0.372
Ethyl Acetate	0.540	0.410	0.480	0.320	0.410	0.400	0.380	0.189
Methyl Acrylate	0.190	0.180	0.200	0.190	0.210	0.140	0.160	0.076
Chloroform	0.330	0.240	0.320	0.290	0.290	0.220	0.230	0.139
1,1,1-Trichloroethane	0.330	0.270	0.320	0.320	0.300	0.220	0.250	0.130
Carbon Tetrachloride	0.320	0.260	0.310	0.300	0.290	0.220	0.220	0.131
1,2-Dichloroethane	0.350	0.280	0.350	0.330	0.350	0.230	0.240	0.168
Benzene	0.290	0.240	0.270	0.260	0.260	0.190	0.200	0.116
Isooctane	0.300	0.210	0.250	0.250	0.240	0.180	0.190	0.130
Heptane	0.230	0.190	0.260	0.240	0.240	0.140	0.211	0.042
Trichloroethene	0.290	0.190	0.280	0.250	0.250	0.180	0.190	0.144
Ethyl Acrylate	0.220	0.170	0.210	0.220	0.240	0.130	0.150	0.130

8044

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

ORIGINAL

MINIMUM DETECTION LIMIT STUDY

Instrument ID: HP09464 Data File Path: C:\MSDCHEM\1\DATA\APR25

\CD0354.D 04/25/05 11:42	\CD0356.D 04/25/05 16:15	\CD0357.D 04/25/05 16:51	\CD0358.D 04/25/05 17:27	\CD0359.D 04/25/05 18:03	\CD0360.D 04/25/05 18:39	\CD0361.D 04/25/05 19:15

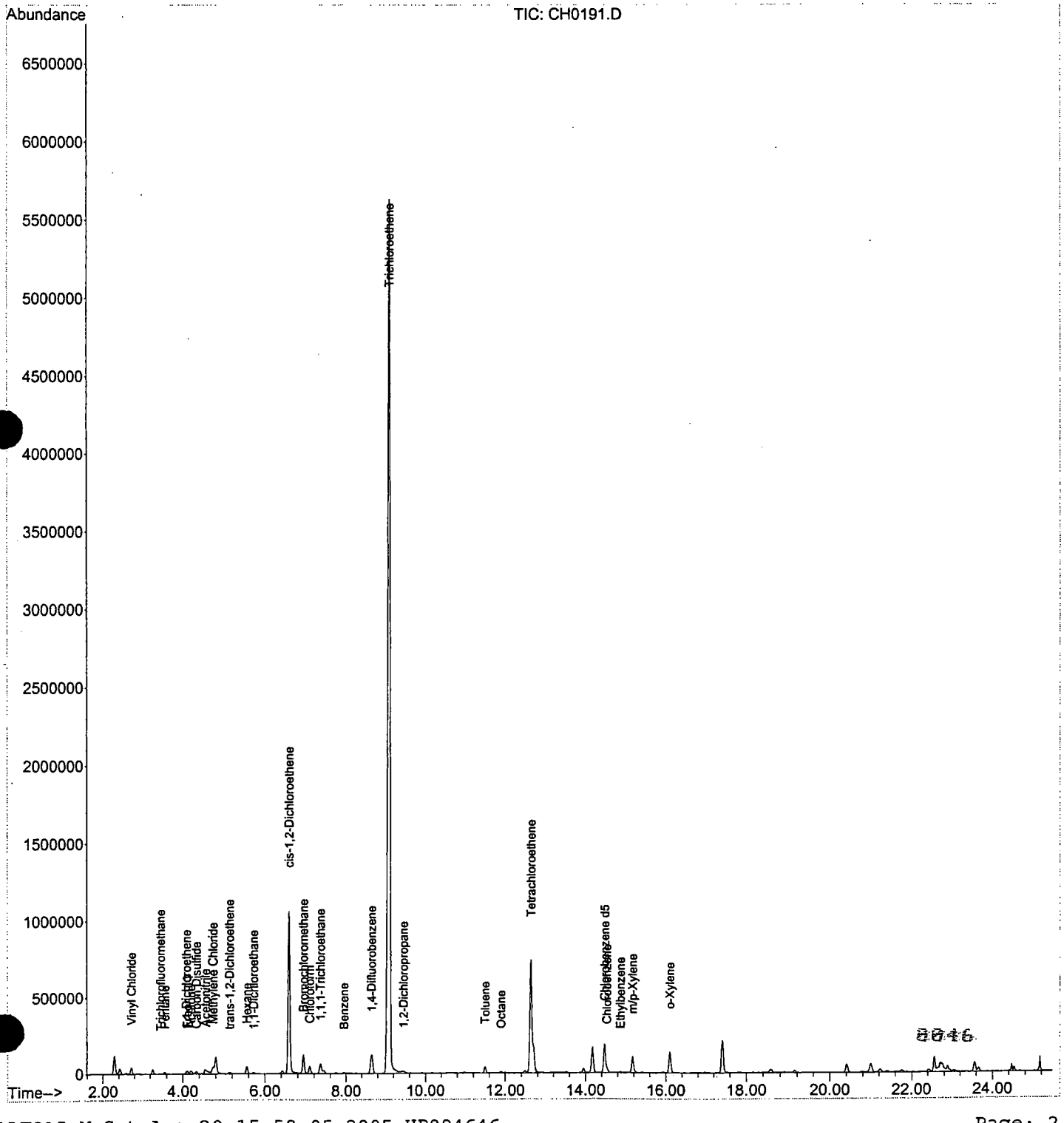
COMPOUND NAME	MDL 1	MDL 2	MDL 3	MDL 4	MDL 5	MDL 6	MDL 7	MDL
1,2-Dichloropropane	0.310	0.210	0.300	0.280	0.300	0.210	0.220	0.145
Methyl Methacrylate	0.170	0.160	0.190	0.150	0.210	0.120	0.140	0.096
Dibromomethane	0.250	0.240	0.270	0.250	0.260	0.180	0.190	0.110
1,4-Dioxane	1.290	1.210	1.260	1.080	1.290	1.390	1.210	0.062
Bromodichloromethane	0.360	0.310	0.370	0.350	0.330	0.250	0.270	0.144
cis-1,3-Dichloropropene	0.200	0.150	0.190	0.190	0.180	0.130	0.130	0.094
4-Methyl-2-Pentanone	0.290	0.230	0.270	0.300	0.280	0.180	0.210	0.142
Toluene	0.350	0.210	0.250	0.230	0.250	0.180	0.190	0.178
Octane	0.190	0.160	0.210	0.190	0.210	0.140	0.170	0.082
trans-1,3-Dichloropropene	0.140	0.160	0.200	0.130	0.170	0.130	0.160	0.160
Ethyl Methacrylate	0.160	0.160	0.200	0.210	0.200	0.150	0.150	0.083
1,1,2-Trichloroethane	0.270	0.210	0.260	0.240	0.270	0.190	0.230	0.097
Tetrachloroethene	0.250	0.210	0.270	0.230	0.250	0.180	0.210	0.097
2-Hexanone	0.250	0.240	0.310	0.260	0.280	0.190	0.240	0.117
Dibromochloromethane	0.280	0.240	0.300	0.310	0.320	0.200	0.220	0.148
1,2-Dibromoethane	0.250	0.210	0.270	0.270	0.260	0.180	0.180	0.128
Chlorobenzene	0.270	0.240	0.290	0.280	0.260	0.210	0.210	0.102
1,1,1,2-Tetrachloroethane	0.270	0.220	0.300	0.290	0.260	0.200	0.190	0.138
Ethylbenzene	0.320	0.230	0.280	0.270	0.250	0.190	0.200	0.145
m,p-Xylene	0.510	0.460	0.550	0.510	0.530	0.380	0.390	0.166
o-Xylene	0.260	0.190	0.240	0.240	0.240	0.160	0.160	0.132
Styrene	0.170	0.150	0.210	0.210	0.190	0.140	0.140	0.097
Bromoform	0.270	0.260	0.300	0.320	0.320	0.210	0.230	0.135
Cumene	0.200	0.190	0.250	0.240	0.230	0.160	0.180	0.105
1,1,2,2-Tetrachloroethane	0.330	0.310	0.390	0.370	0.380	0.250	0.290	0.163
1,2,3-Trichloropropane	0.280	0.270	0.340	0.330	0.350	0.180	0.300	0.183
Bromobenzene	0.230	0.250	0.310	0.280	0.310	0.200	0.220	0.138
4-Ethyltoluene	0.230	0.170	0.240	0.210	0.230	0.150	0.170	0.113
1,3,5-Trimethylbenzene	0.260	0.220	0.290	0.260	0.260	0.180	0.210	0.119
Alpha Methyl Styrene	0.170	0.180	0.260	0.240	0.230	0.180	0.170	0.172
1,2,4-Trimethylbenzene	0.230	0.190	0.250	0.210	0.230	0.150	0.170	0.113
1,3-Dichlorobenzene	0.170	0.210	0.270	0.270	0.260	0.170	0.200	0.141
1,4-Dichlorobenzene	0.380	0.260	0.280	0.260	0.260	0.160	0.190	0.221
Benzyl chloride	0.260	0.190	0.240	0.240	0.240	0.160	0.160	0.132
1,2-Dichlorobenzene	0.150	0.200	0.260	0.240	0.270	0.170	0.190	0.145
Hexachloroethane	0.250	0.260	0.390	0.380	0.380	0.270	0.280	0.201
1,2,4-Trichlorobenzene	0.080	0.150	0.140	0.160	0.190	0.130	0.140	0.105
Hexachlorobutadiene	0.120	0.160	0.270	0.300	0.310	0.230	0.280	0.229

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG12\
Data File : CH0191.D
Acq On : 12 Aug 2005 15:55
Operator : JBS
Sample : 4581594 DF500 500CC
Misc :
ALS Vial : 43 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 20 15:57:42 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ORIGINAL

Data Path : C:\MSDChem\1\DATA\AUG12\
Data File : CH0191.D
Acq On : 12 Aug 2005 15:55
Operator : JBS
Sample : 4581594 DF500 500CC
Misc :
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Aug 20 15:57:42 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Bromochloromethane	6.94	130	617652	10.000		0.00
37) 1,4-Difluorobenzene	8.65	114	2132435	10.000		0.02
51) Chlorobenzene d5	14.47	117	2072757	10.000		0.00

Target Compounds						Qvalue
7) Vinyl Chloride	2.73	62	229659	3.735 PPB		95
12) Trichlorofluoromethane	3.46	101	50300	0.266 PPB		98
13) Pentane	3.56	43	136284	1.039 PPB		88
15) 1,1-Dichloroethene	4.08	61	44283	0.427 PPB	#	79
16) Freon 113	4.11	103	87834	1.132 PPB		97
17) Acetone	4.20	43	557608	5.627 PPB		88
19) Carbon Disulfide	4.33	76	346715	2.485 PPB	#	92
20) Acetonitrile	4.55	41	386227	4.019 PPB	#	67
22) Methylene Chloride	4.73	84	148244	3.640 PPB		83
25) trans-1,2-Dichloroethene	5.13	61	35072	0.377 PPB	#	26
27) Hexane	5.56	57	349166	3.265 PPB		90
28) 1,1-Dichloroethane	5.72	63	147635	1.295 PPB		98
30) cis-1,2-Dichloroethene	6.59	61	11012069	122.783 PPB		93
34) Chloroform	7.10	83	547287	4.624 PPB		99
35) 1,1,1-Trichloroethane	7.36	97	764392	5.410 PPB		100
39) Benzene	7.95	78	120736	0.843 PPB	#	95
42) Trichloroethene	9.08	130	43057846	434.443 PPB		98
44) 1,2-Dichloropropane	9.45	63	63003	0.983 PPB	#	29
52) Toluene	11.49	91	511546	2.506 PPB		99
53) Octane	11.89	43	47527	0.273 PPB	#	63
57) Tetrachloroethene	12.63	166	4054667	32.919 PPB		98
61) Chlorobenzene	14.53	112	183948	1.098 PPB	#	90
63) Ethylbenzene	14.86	91	83368m	0.338 PPB		
64) m/p-Xylene	15.17	91	1128363	5.346 PPB		97
65) o-Xylene	16.11	91	1555358	7.864 PPB		95

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

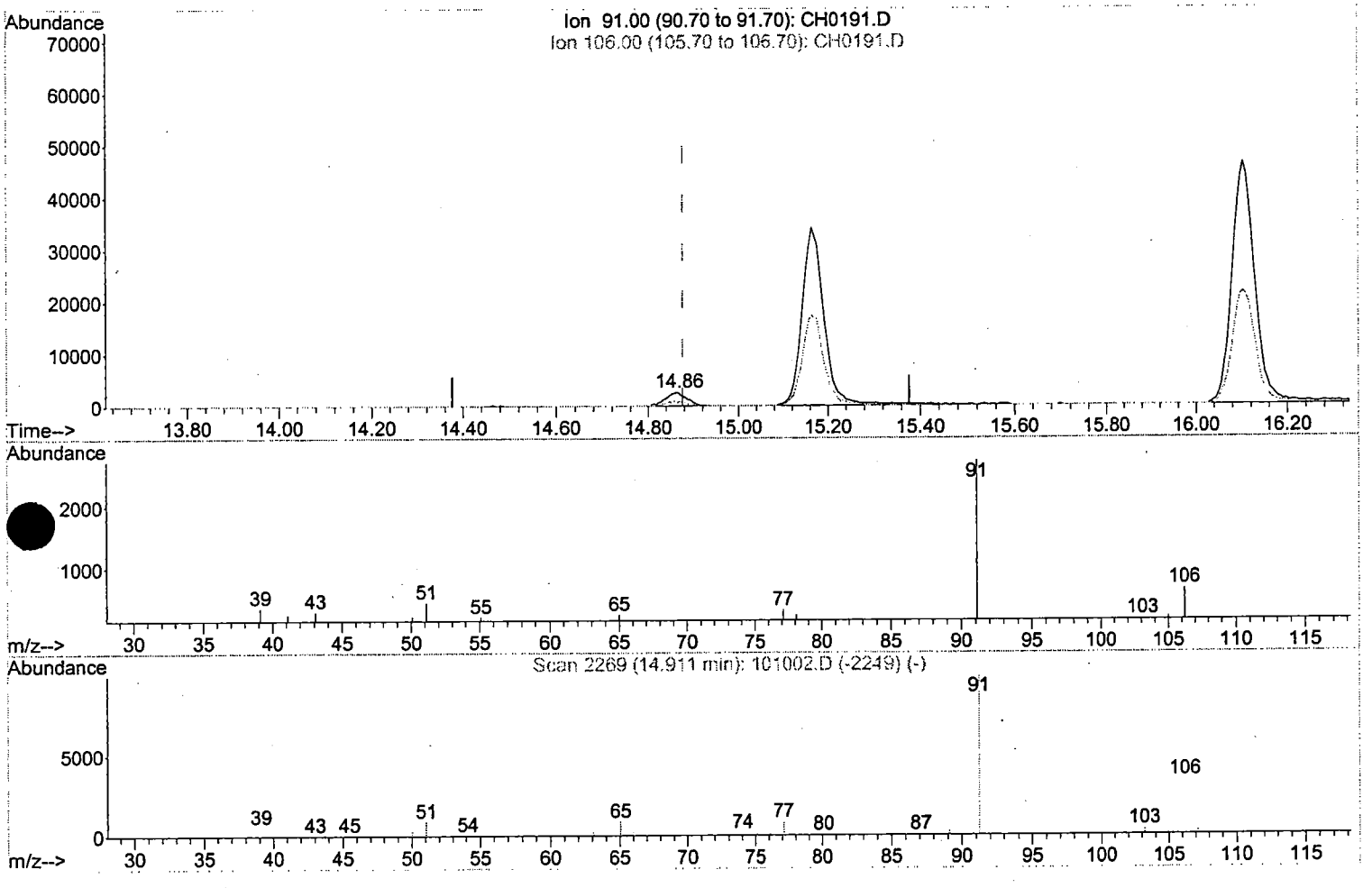
0047

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\AUG12\
Data File : CH0191.D
Acq On : 12 Aug 2005 15:55
Operator : JBS
Sample : 4581594 DF500 500CC
Misc :
ALS Vial : 43 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 12 16:20:39 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration



TIC: CH0191.D

(63) Ethylbenzene

14.864min (-0.012) 0.34PPB m

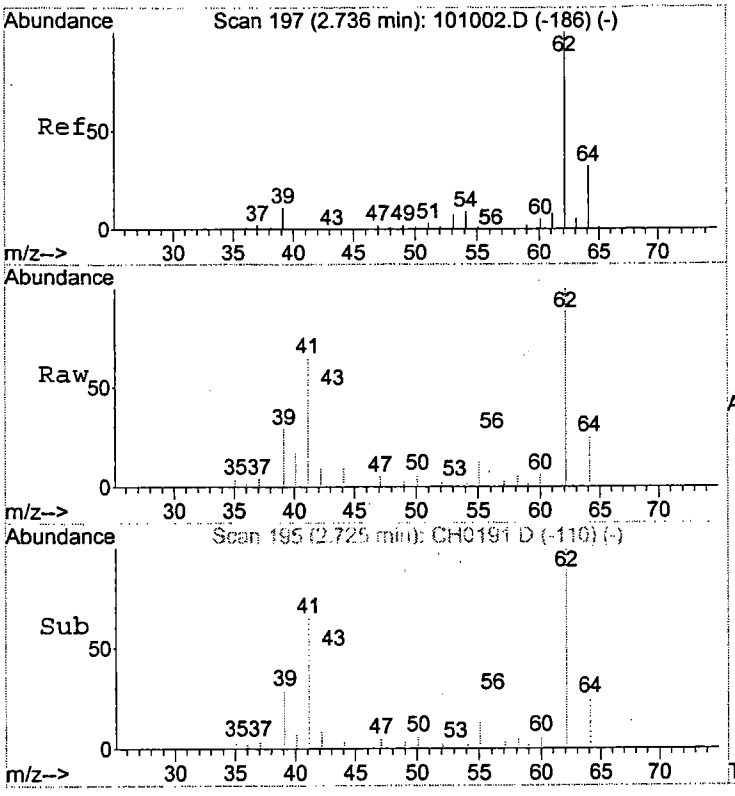
response 83368

Ion	Exp%	Act%
91.00	100	100
106.00	34.60	699.85#
0.00	0.00	0.00
0.00	0.00	0.00

wrong peak
KHW 8/20/05

form 703
8/22/05

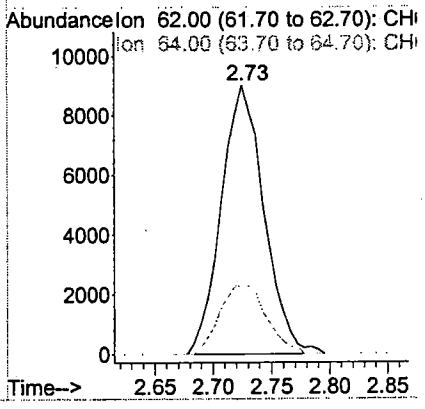
0048



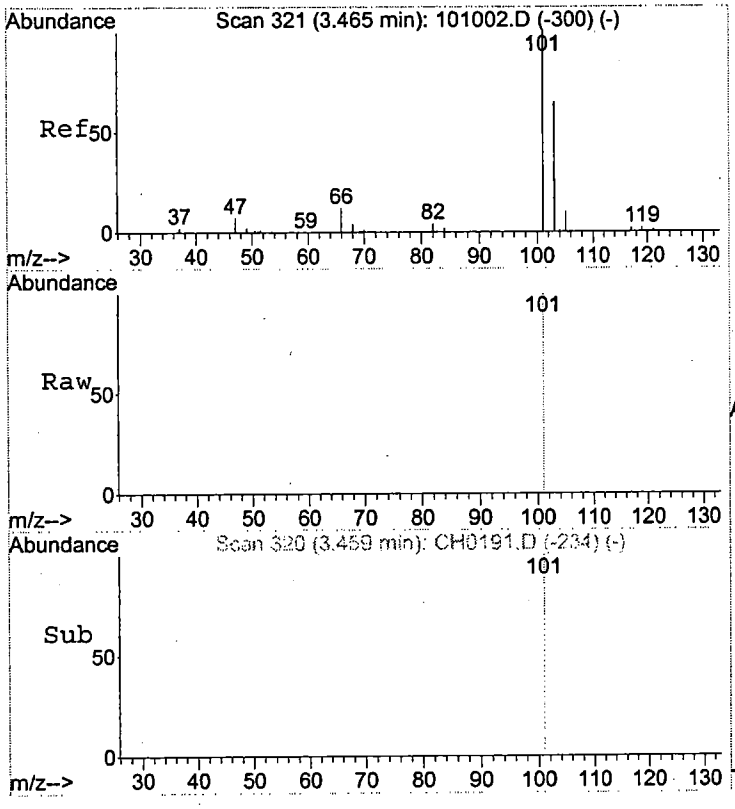
#7
Vinyl Chloride
Concen: 3.74 PPB
RT: 2.73 min Scan# 195
Delta R.T. 0.00 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

Tgt Ion: 62 Resp: 229659

Ion	Ratio	Lower	Upper
62	100		
64	27.9	24.6	36.8



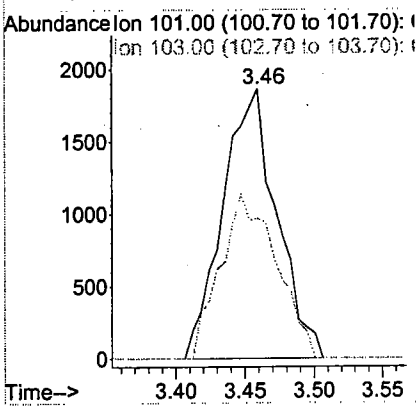
ORIGINAL



#12
Trichlorofluoromethane
Concen: 0.27 PPB
RT: 3.46 min Scan# 320
Delta R.T. 0.00 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

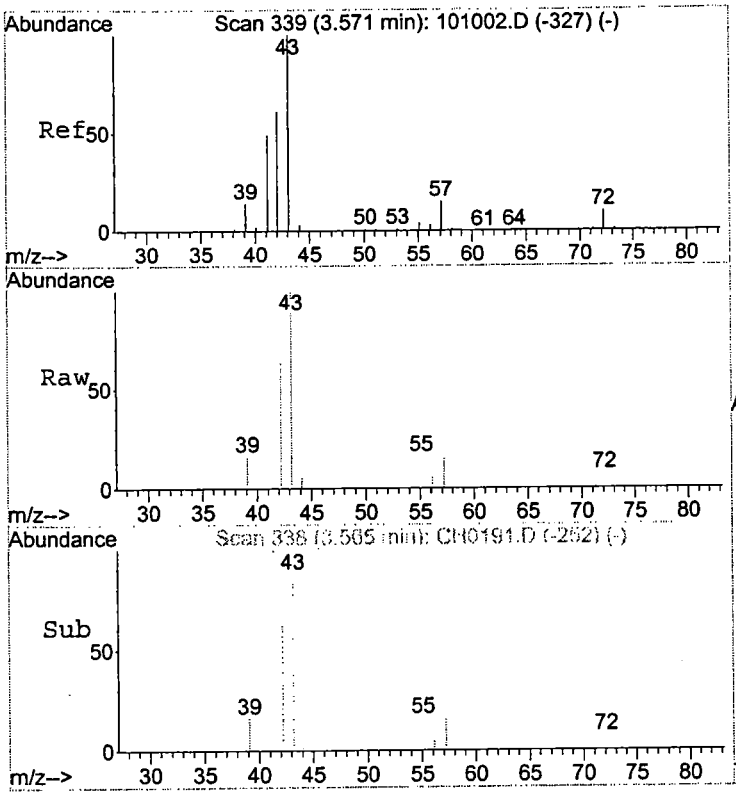
Tgt Ion:101 Resp: 50300

Ion	Ratio	Lower	Upper
101	100		
103	63.6	52.2	78.4



0049

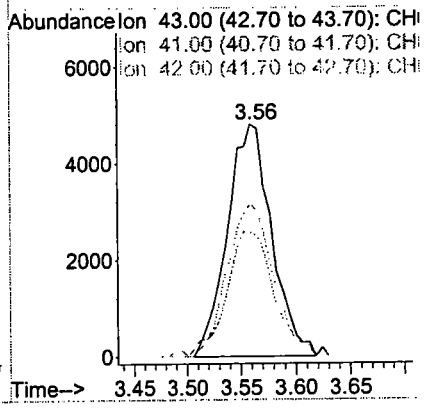
ORIGINAL

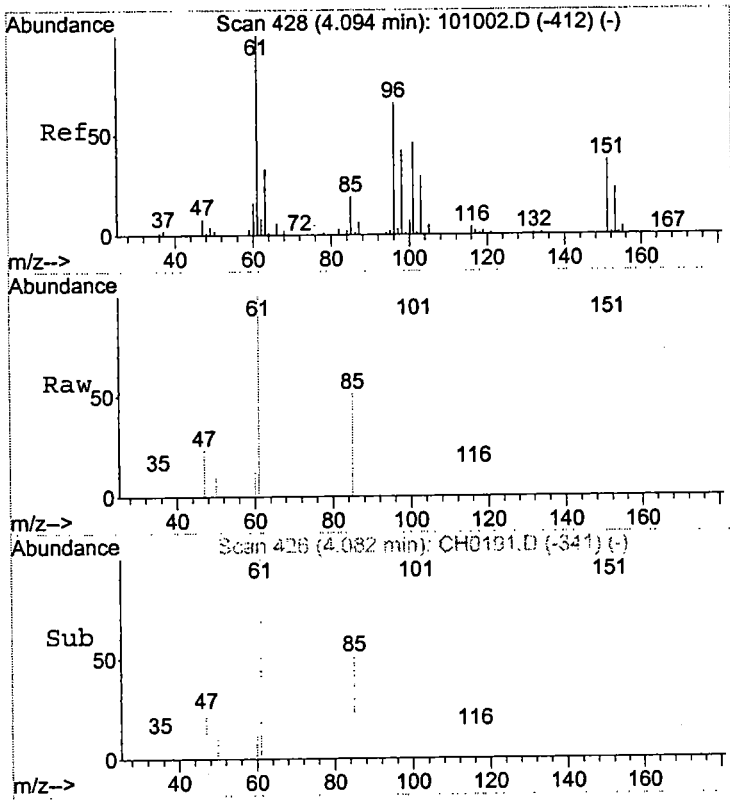


#13
Pentane
Concen: 1.04 PPB
RT: 3.56 min Scan# 338
Delta R.T. 0.00 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

Tgt Ion: 43 Resp: 136284

Ion	Ratio	Lower	Upper
43	100		
41	56.1	37.7	56.5
42	67.6	47.8	71.8

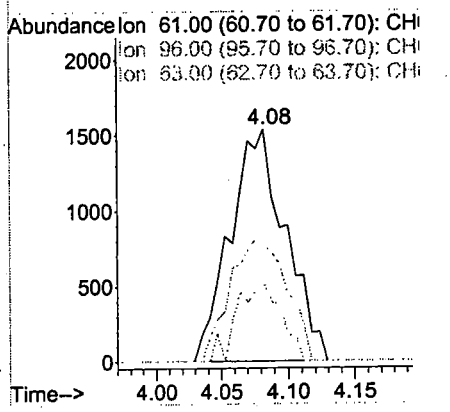




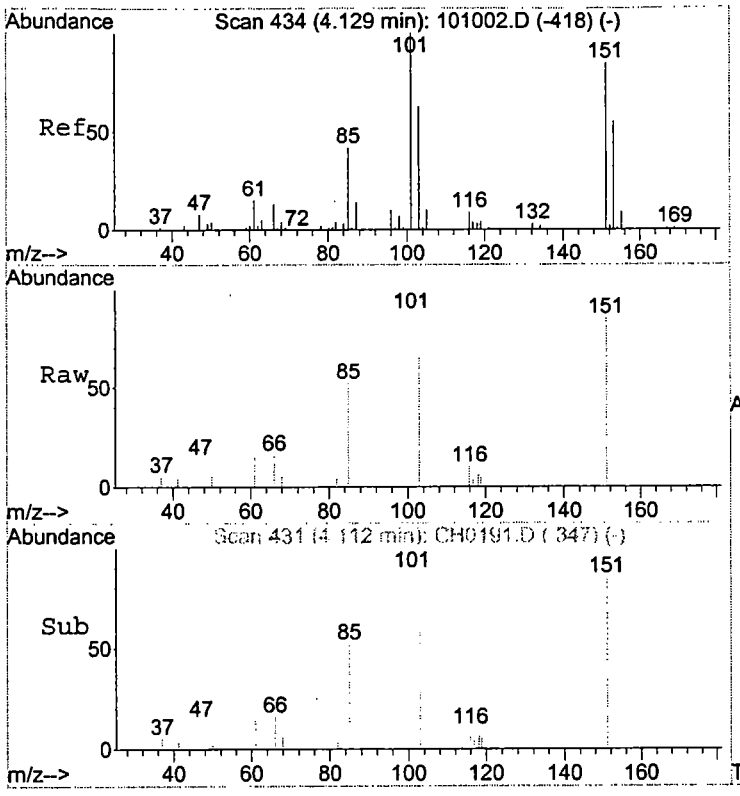
#15
1,1-Dichloroethene
Concen: 0.43 PPB
RT: 4.08 min Scan# 426
Delta R.T. -0.00 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

Tgt Ion: 61 Resp: 44283

Ion	Ratio	Lower	Upper
61	100		
96	54.3	44.5	66.7
63	0.0	24.4	36.6#



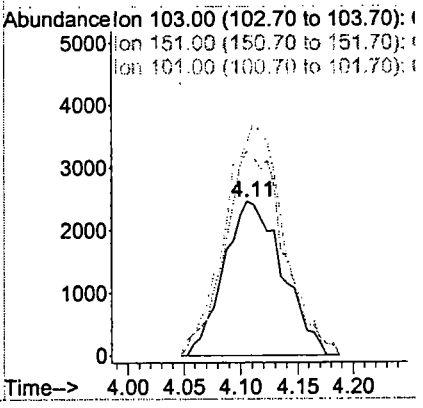
3858



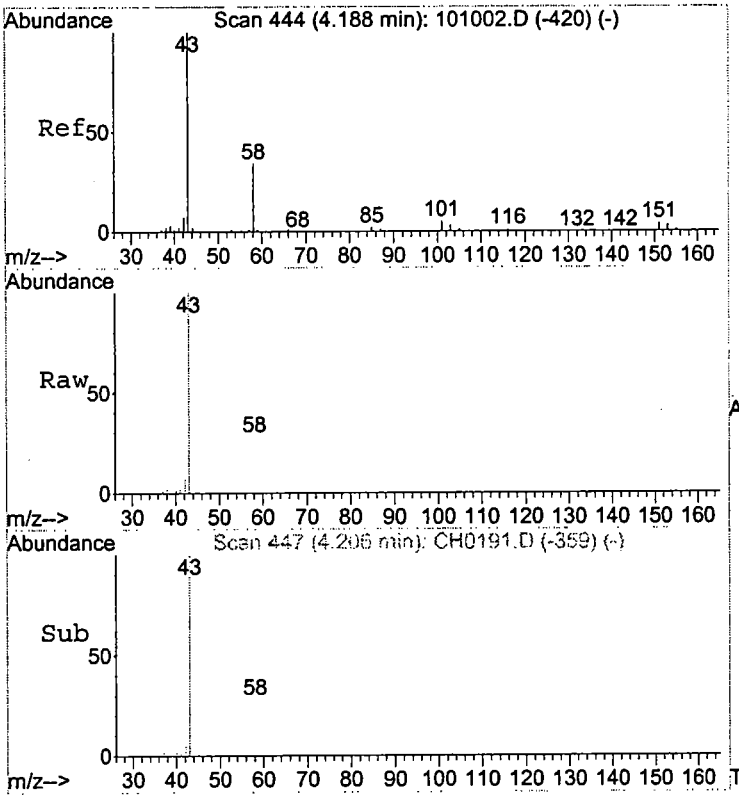
#16
Freon 113
Concen: 1.13 PPB
RT: 4.11 min Scan# 431
Delta R.T. -0.01 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

Tgt Ion:103 Resp: 87834

Ion	Ratio	Lower	Upper
103	100		
151	132.7	107.8	161.8
101	150.7	124.7	187.1



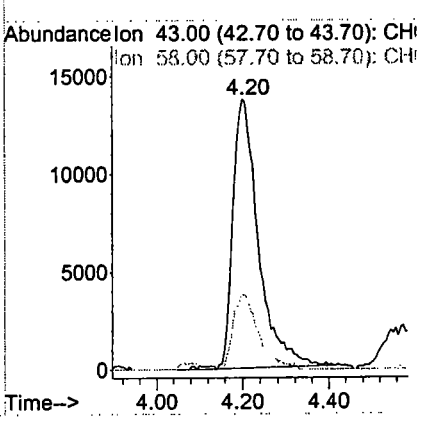
ORIGINAL



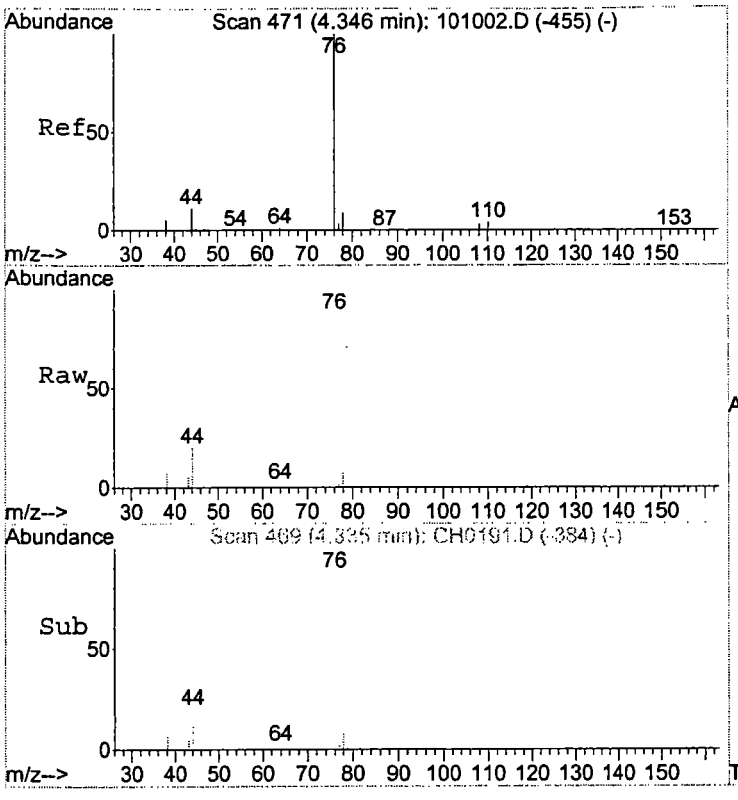
#17
Acetone
Concen: 5.63 PPB
RT: 4.20 min Scan# 447
Delta R.T. 0.02 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

Tgt Ion: 43 Resp: 557608

Ion	Ratio	Lower	Upper
43	100		
58	28.3	28.2	42.4



0051

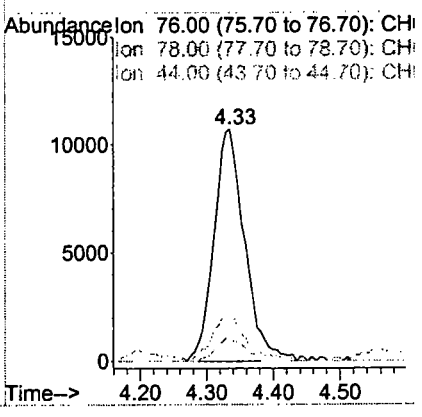


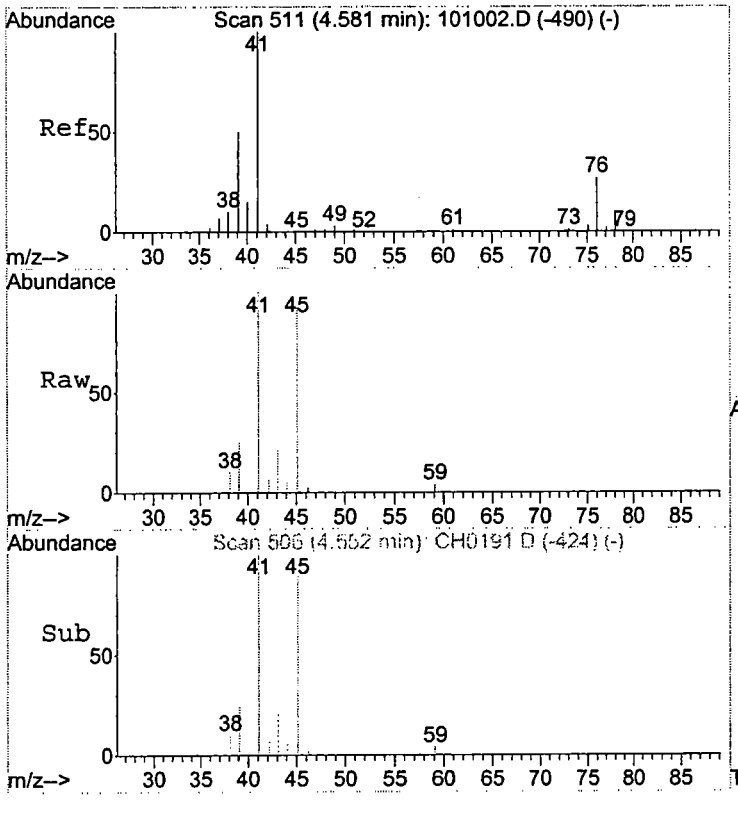
#19
Carbon Disulfide
Concen: 2.49 PPB
RT: 4.33 min Scan# 469
Delta R.T. -0.00 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

ORIGINAL

Tgt Ion: 76 Resp: 346715

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.0
44	22.1	13.6	20.4#

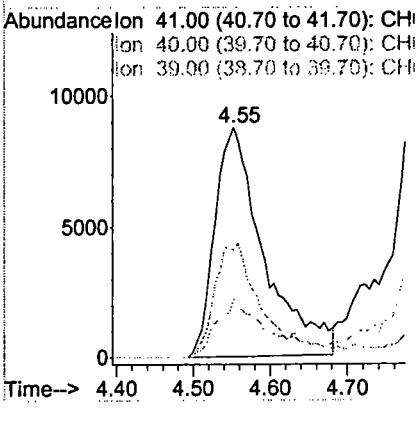




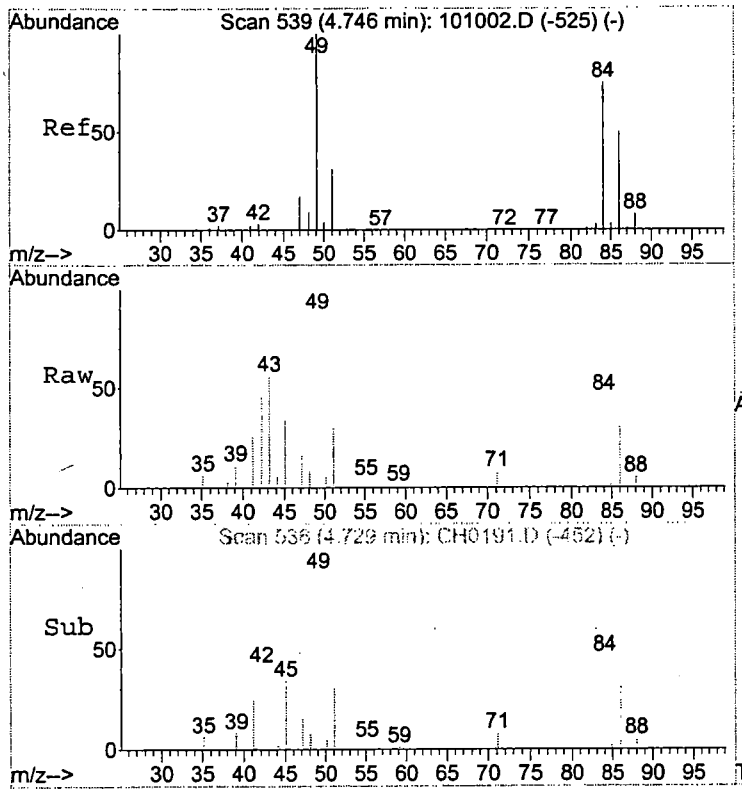
#20
Acetonitrile
Concen: 4.02 PPB
RT: 4.55 min Scan# 506
Delta R.T. -0.02 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

Tgt Ion: 41 Resp: 386227

Ion	Ratio	Lower	Upper
41	100		
40	45.2	19.8	29.8#
39	28.0	37.6	56.4#



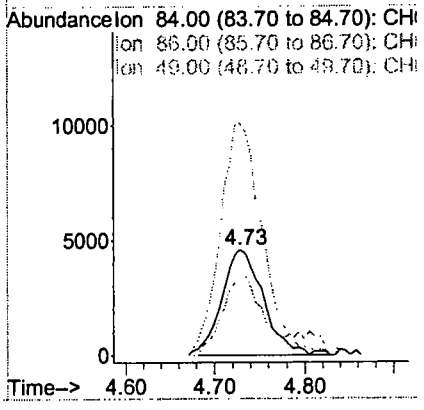
0052



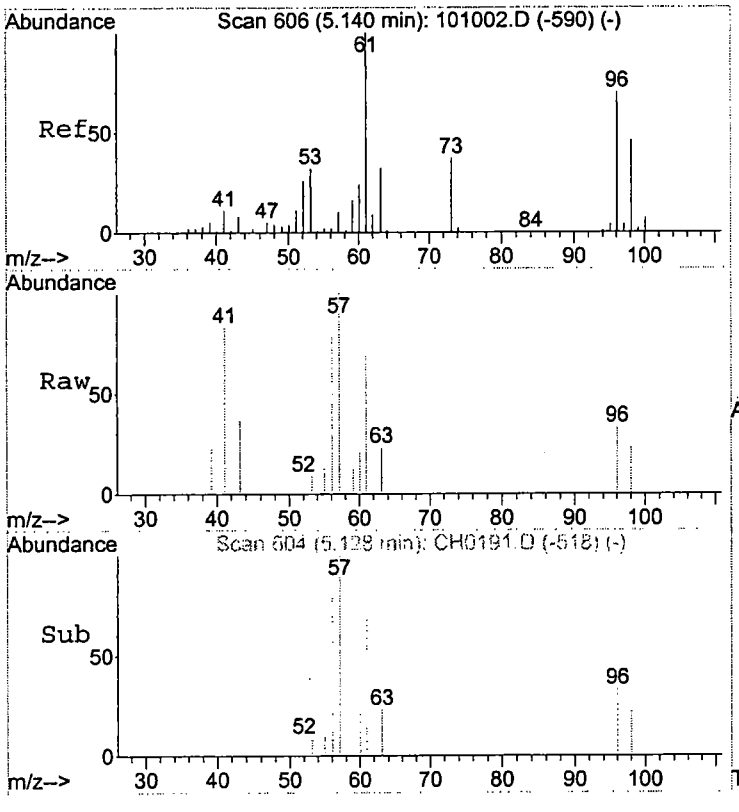
#22
Methylene Chloride
Concen: 3.64 PPB
RT: 4.73 min Scan# 536
Delta R.T. -0.00 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

Tgt Ion: 84 Resp: 148244

Ion	Ratio	Lower	Upper
84	100		
86	57.3	56.4	84.6
49	221.4	155.8	233.6



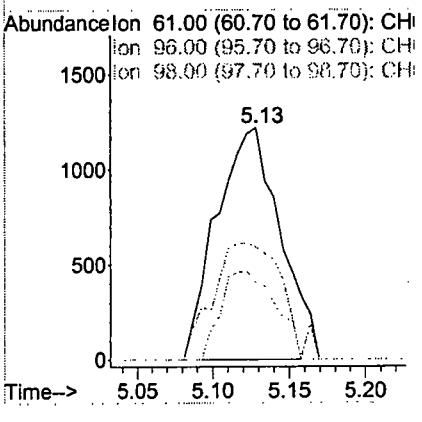
ORIGINAL



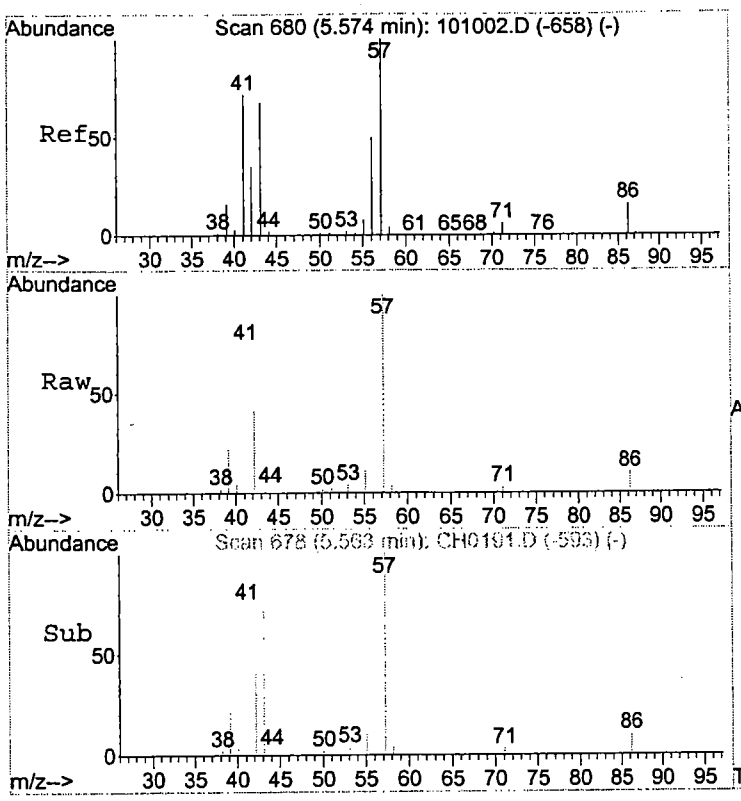
#25
trans-1,2-Dichloroethene
Concen: 0.38 PPB
RT: 5.13 min Scan# 604
Delta R.T. 0.00 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

Tgt Ion: 61 Resp: 35072

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.0	73.6#
98	0.0	31.8	47.6#



0053

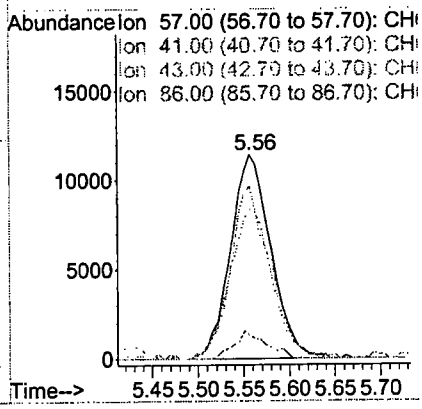


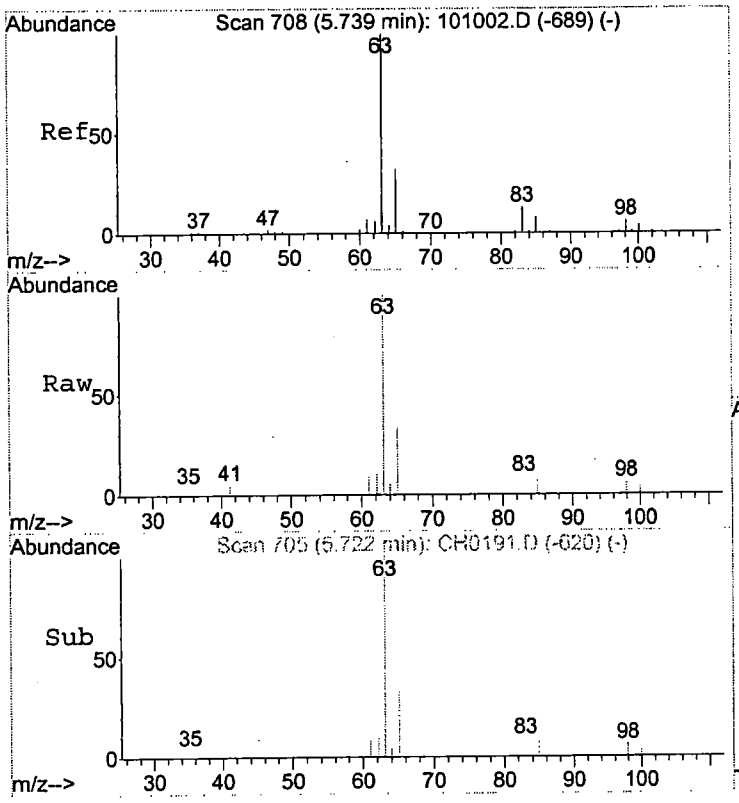
#27
Hexane
Concen: 3.27 PPB
RT: 5.56 min Scan# 678
Delta R.T. -0.00 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

ORIGINAL

Tgt Ion: 57 Resp: 349166

Ion	Ratio	Lower	Upper
57	100		
41	84.6	60.4	90.6
43	75.2	53.3	79.9
86	10.8	10.2	15.2

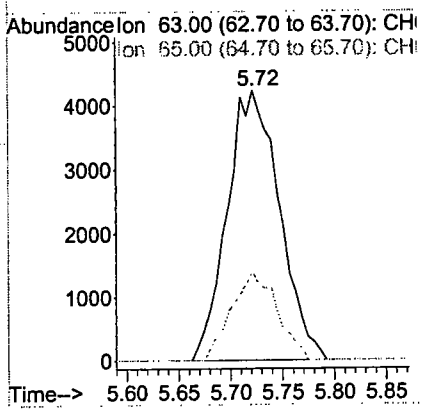




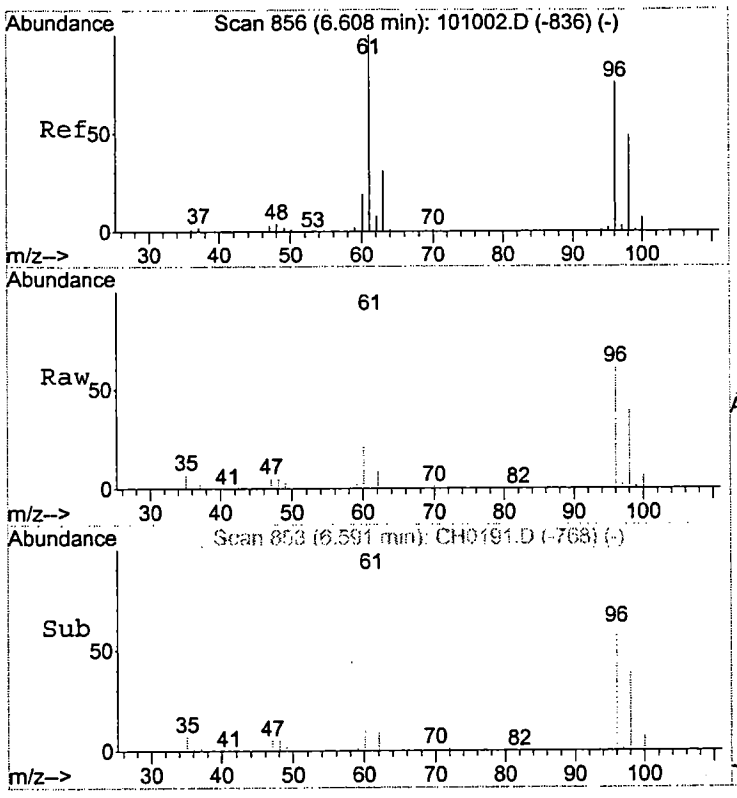
#28
1,1-Dichloroethane
Concen: 1.29 PPB
RT: 5.72 min Scan# 705
Delta R.T. 0.00 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

Tgt Ion: 63 Resp: 147635

Ion	Ratio	Lower	Upper
63	100		
65	28.6	23.7	35.5



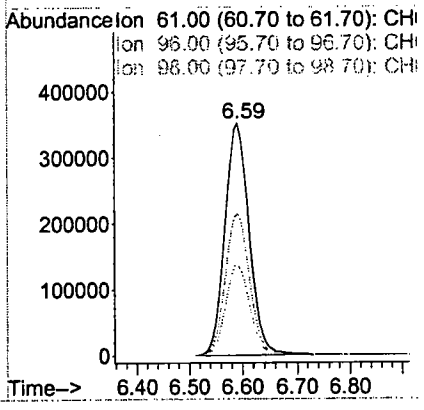
0054



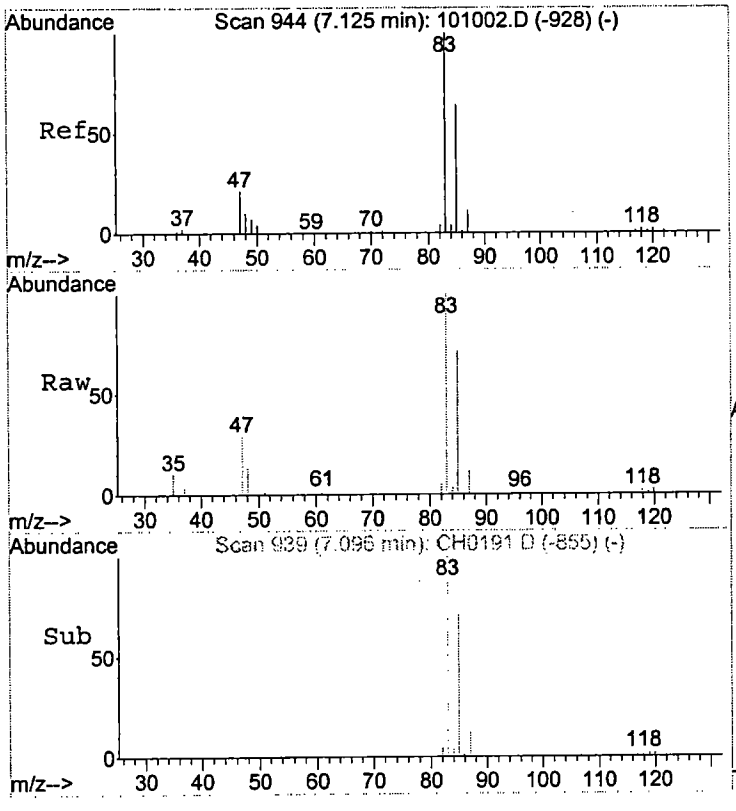
#30
cis-1,2-Dichloroethene
Concen: 122.78 PPB
RT: 6.59 min Scan# 853
Delta R.T. -0.00 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

Tgt Ion: 61 Resp:11012069

Ion	Ratio	Lower	Upper
61	100		
96	61.4	53.8	80.8
98	39.4	34.8	52.2



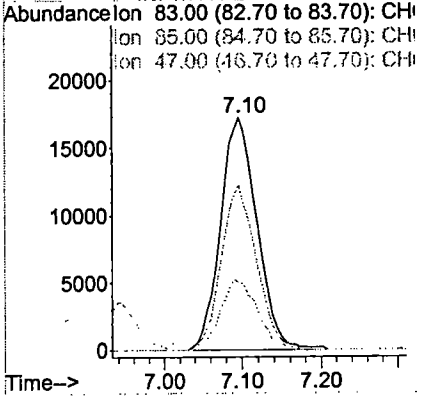
ORIGINAL



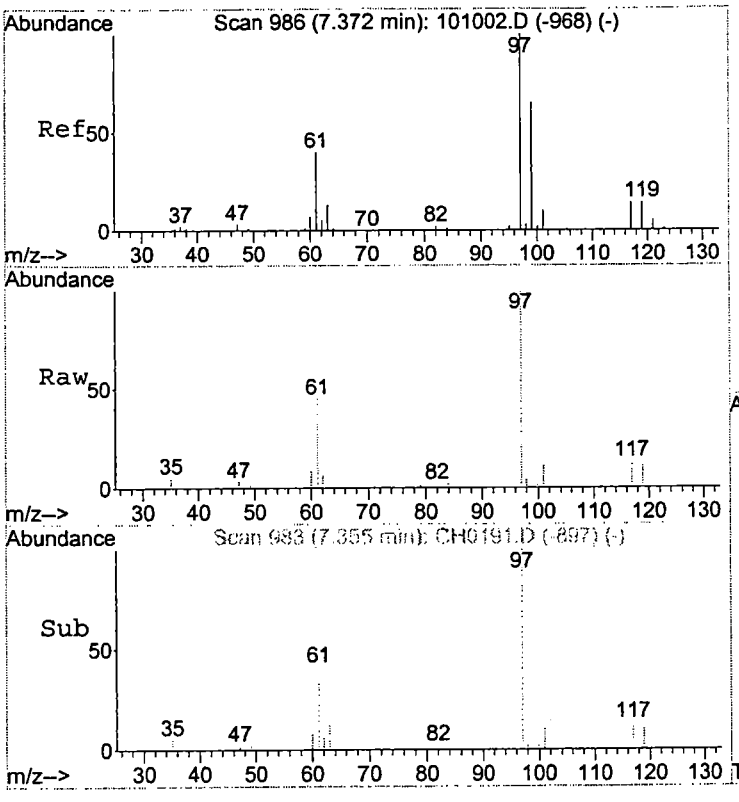
#34
Chloroform
Concen: 4.62 PPB
RT: 7.10 min Scan# 939
Delta R.T. -0.01 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

Tgt Ion: 83 Resp: 547287

Ion	Ratio	Lower	Upper
83	100		
85	68.4	54.9	82.3
47	30.5	23.1	34.7



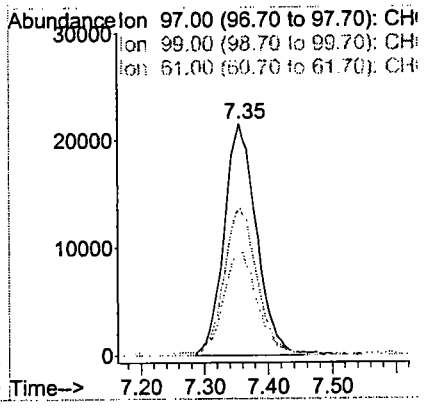
8855



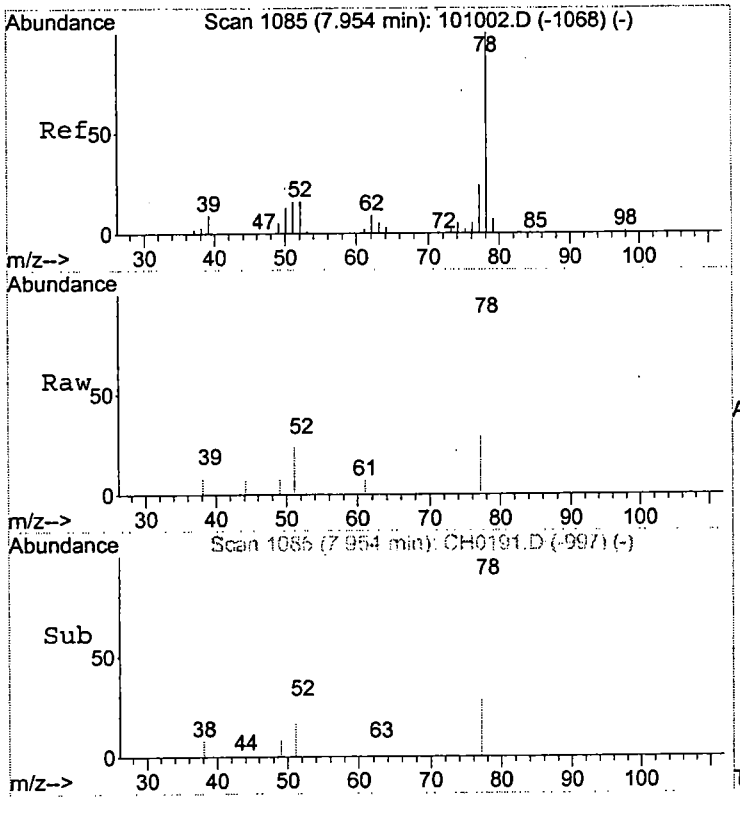
#35
1,1,1-Trichloroethane
Concen: 5.41 PPB
RT: 7.36 min Scan# 983
Delta R.T. 0.01 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

Tgt Ion: 97 Resp: 764392

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.4	77.0
61	46.2	36.6	55.0



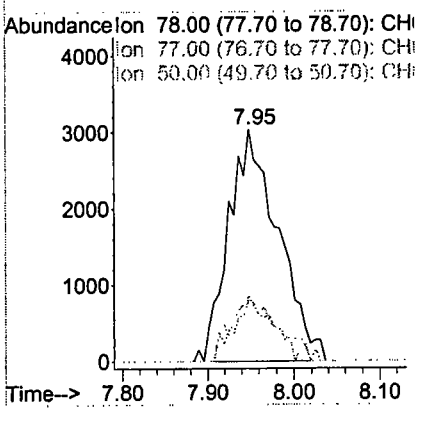
ORIGINAL



#39
Benzene
Concen: 0.84 PPB
RT: 7.95 min Scan# 1085
Delta R.T. 0.02 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

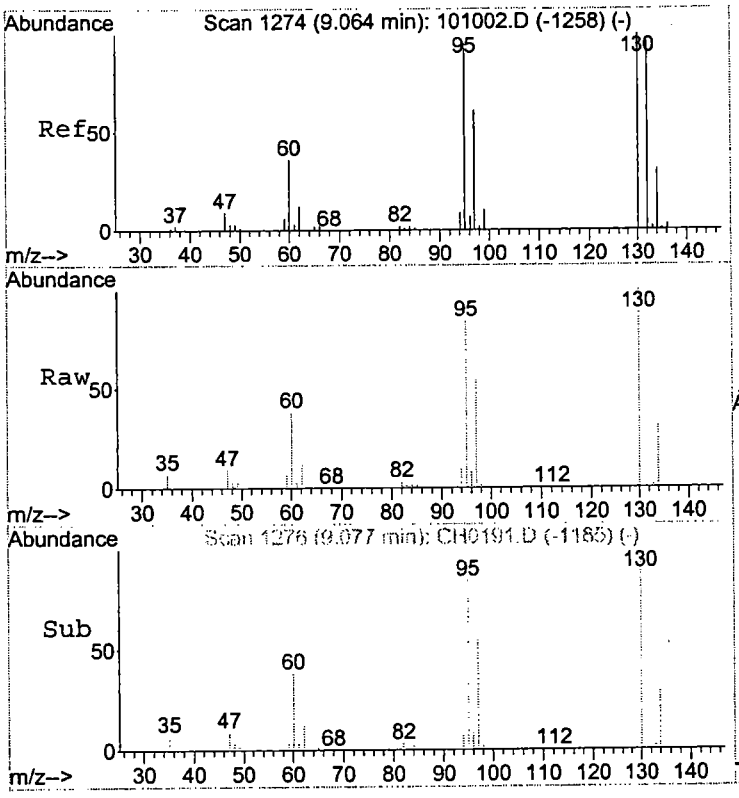
Tgt Ion: 78 Resp: 120736

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.6	27.8
50	26.1	16.9	25.3#



0056

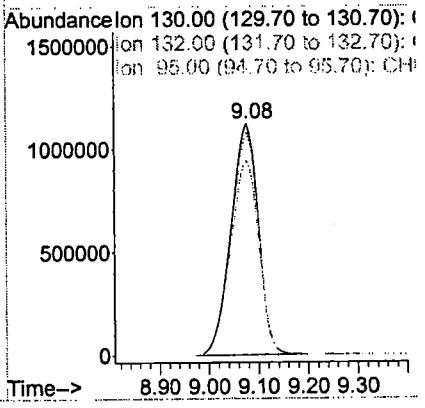
ORIGINAL

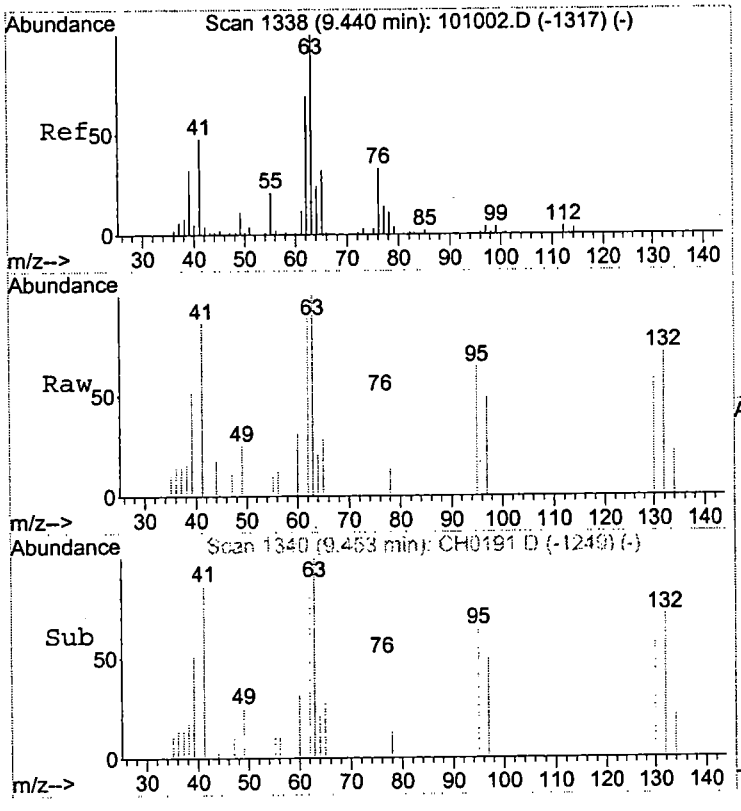


#42
Trichloroethene
Concen: 434.44 PPB
RT: 9.08 min Scan# 1276
Delta R.T. 0.03 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

Tgt Ion:130 Resp:43057846

Ion	Ratio	Lower	Upper
130	100		
132	96.2	77.6	116.4
95	86.8	67.4	101.2

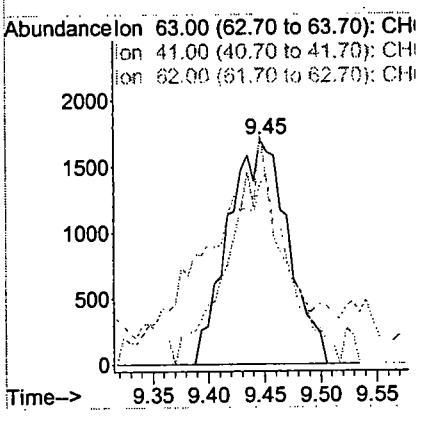




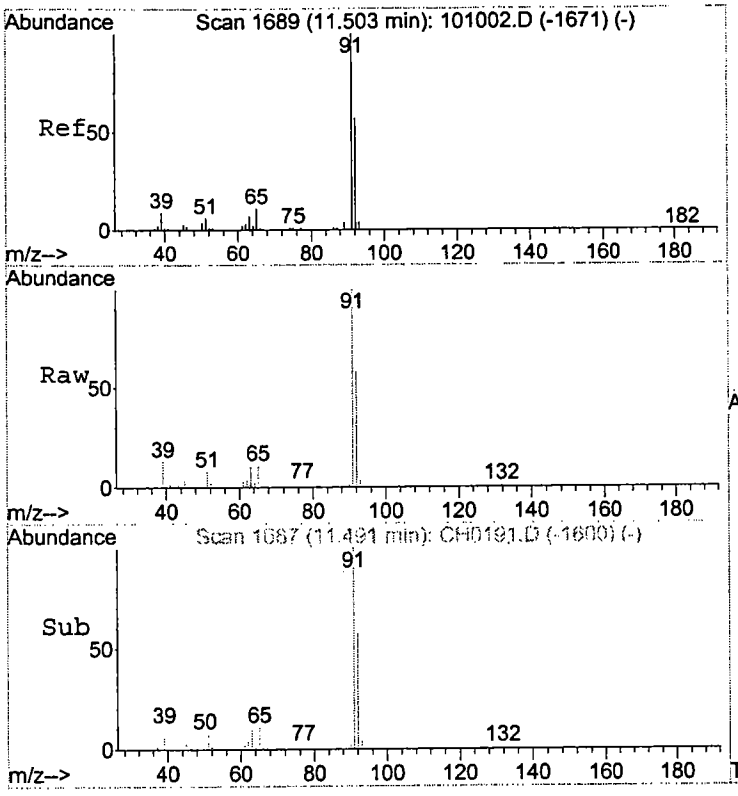
#44
1,2-Dichloropropane
Concen: 0.98 PPB
RT: 9.45 min Scan# 1340
Delta R.T. 0.03 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

Tgt Ion: 63 Resp: 63003

Ion	Ratio	Lower	Upper
63	100		
41	96.2	46.4	69.6#
62	0.0	57.3	85.9#



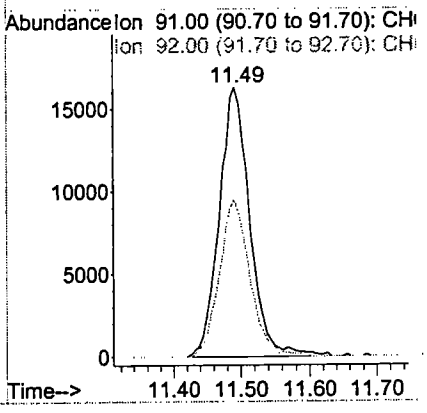
3857



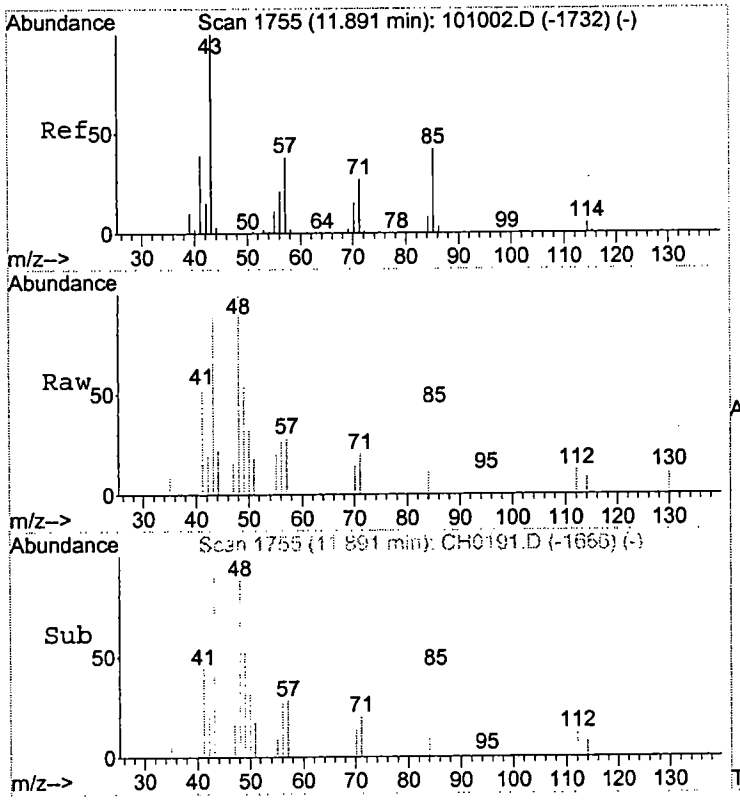
#52
Toluene
Concen: 2.51 PPB
RT: 11.49 min Scan# 1687
Delta R.T. 0.01 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

Tgt Ion: 91 Resp: 511546

Ion	Ratio	Lower	Upper
91	100		
92	58.2	47.2	70.8



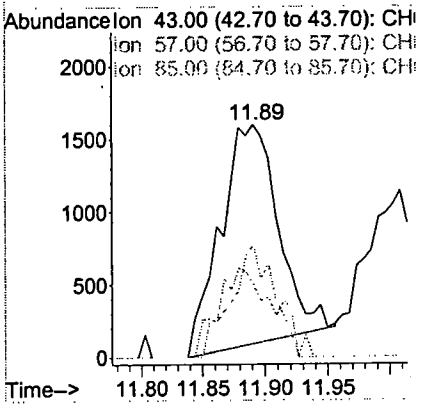
ORIGINAL



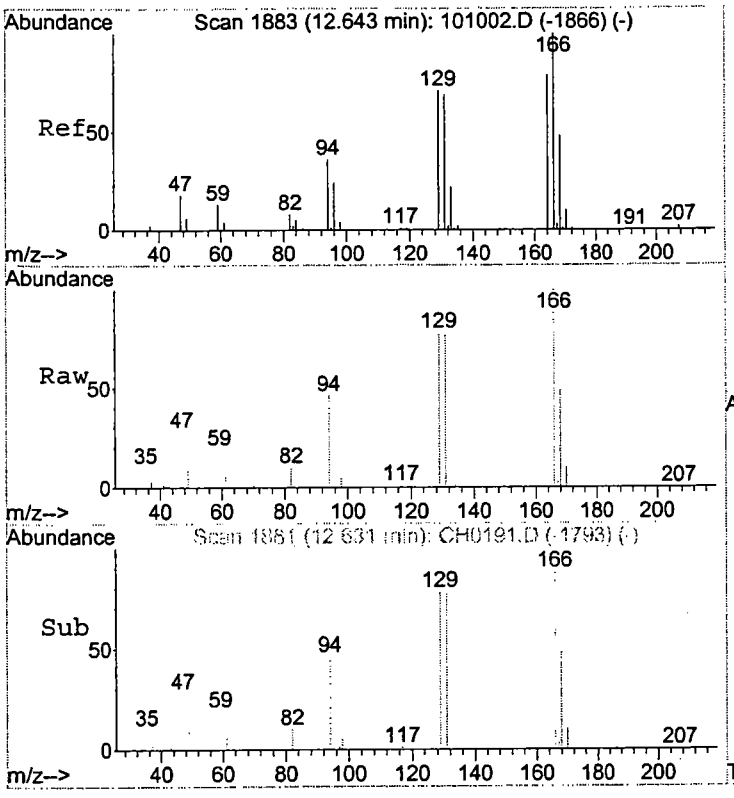
#53
Octane
Concen: 0.27 PPB
RT: 11.89 min Scan# 1755
Delta R.T. 0.02 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

Tgt Ion: 43 Resp: 47527

Ion	Ratio	Lower	Upper
43	100		
57	0.0	32.2	48.4#
85	38.2	28.1	42.1



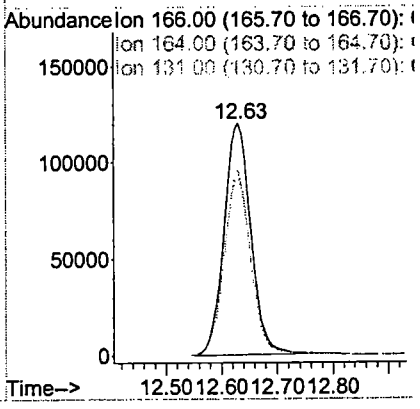
0058



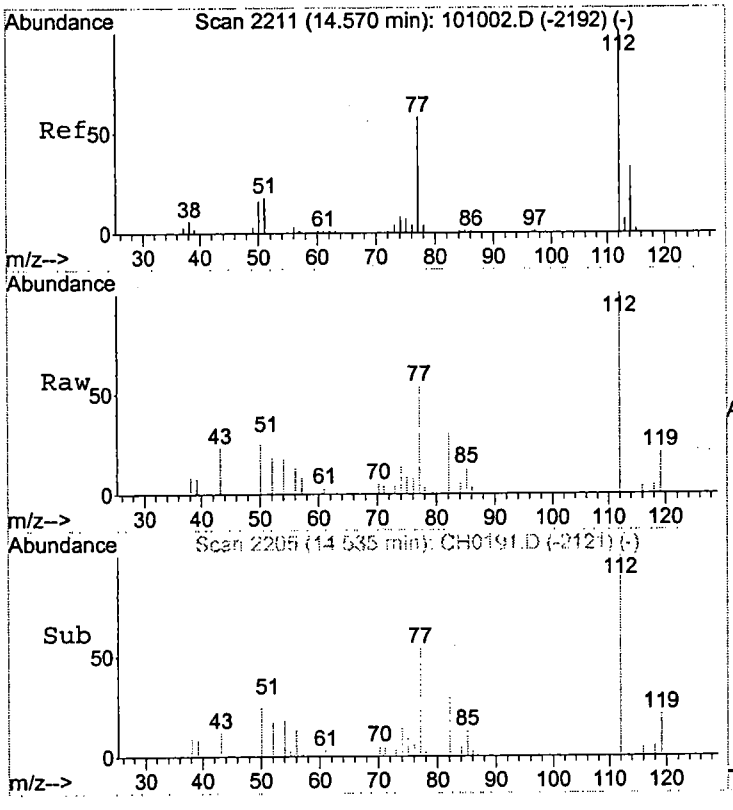
#57
Tetrachloroethene
Concen: 32.92 PPB
RT: 12.63 min Scan# 1881
Delta R.T. 0.02 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

Tgt Ion:166 Resp: 4054667

Ion	Ratio	Lower	Upper
166	100		
164	78.3	63.2	94.8
131	77.3	59.0	88.4



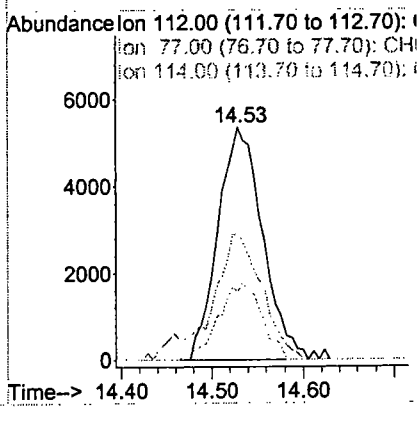
ORIGINAL



#61
Chlorobenzene
Concen: 1.10 PPB
RT: 14.53 min Scan# 2205
Delta R.T. -0.01 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

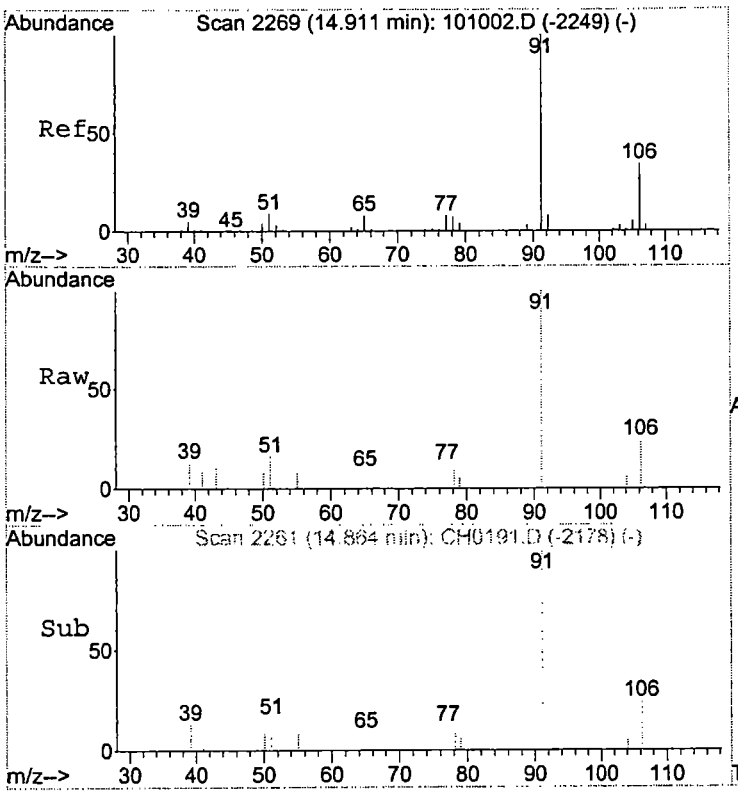
Tgt Ion:112 Resp: 183948

Ion	Ratio	Lower	Upper
112	100		
77	61.7	40.4	60.6#
114	32.2	25.9	38.9



8859

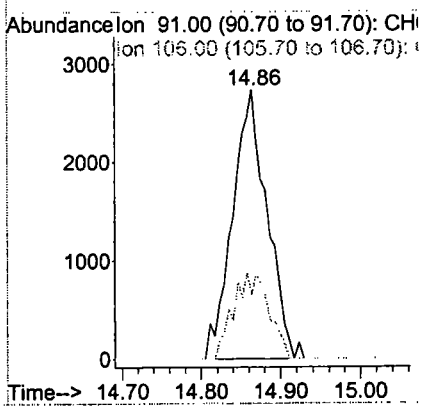
ORIGINAL

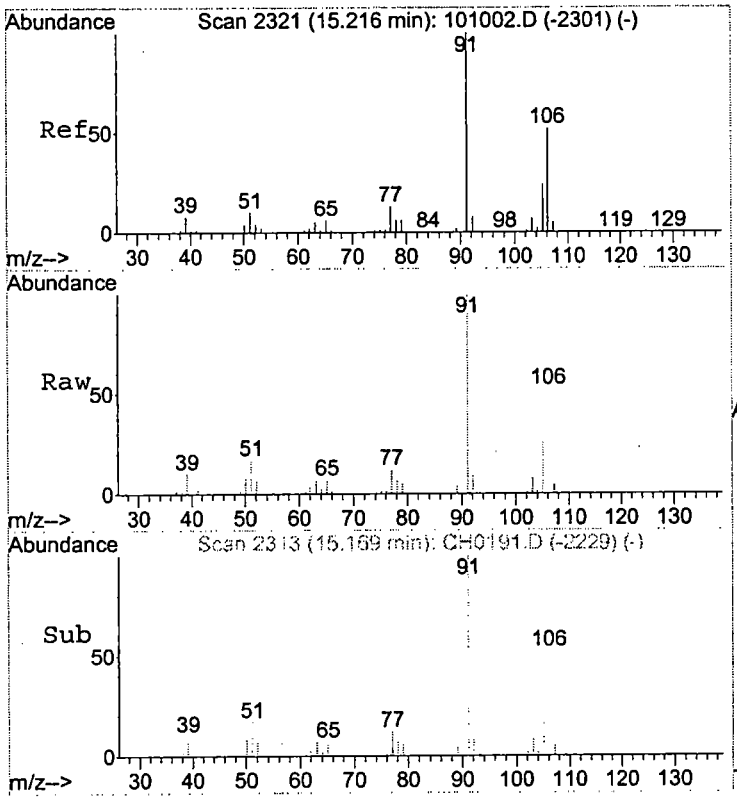


#63
Ethylbenzene
Concen: 0.34 PPB m
RT: 14.86 min Scan# 2261
Delta R.T. -0.01 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

Tgt Ion: 91 Resp: 83368

Ion	Ratio	Lower	Upper
91	100		
106	699.9	27.7	41.5#

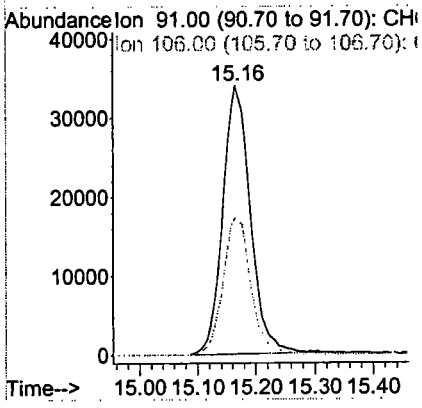




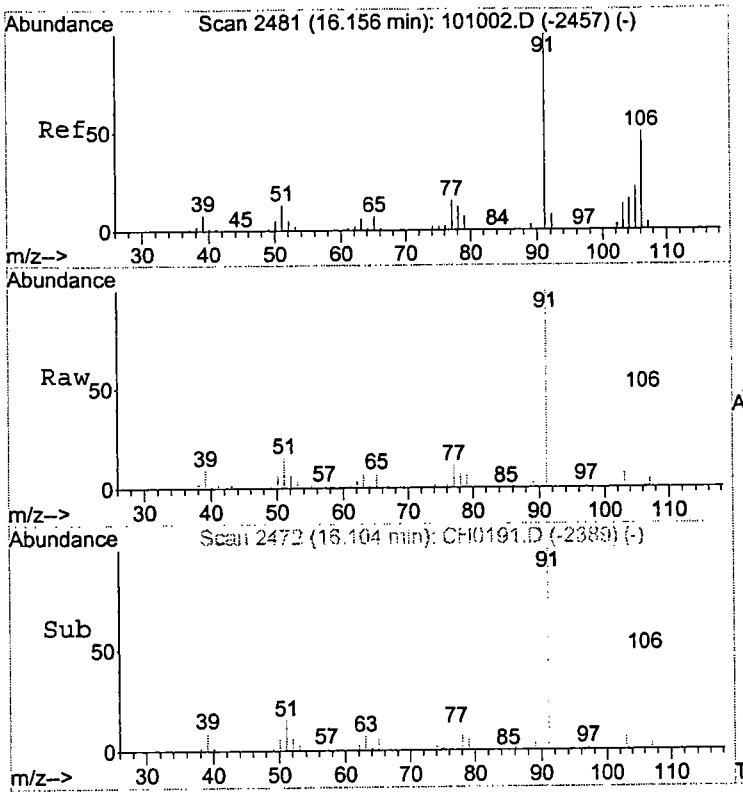
#64
m/p-Xylene
Concen: 5.35 PPB
RT: 15.17 min Scan# 2313
Delta R.T. -0.01 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

Tgt Ion: 91 Resp: 1128363

Ion	Ratio	Lower	Upper
91	100		
106	51.7	43.1	64.7



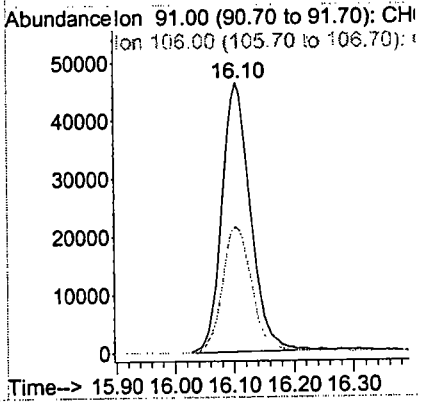
0060



#65
o-Xylene
Concen: 7.86 PPB
RT: 16.11 min Scan# 2472
Delta R.T. -0.01 min
Lab File: CH0191.D
Acq: 12 Aug 2005 15:55

Tgt Ion: 91 Resp: 1555358

Ion	Ratio	Lower	Upper
91	100		
106	48.0	41.1	61.7



ORIGINAL

0061

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

ORIGINAL

Sample No.: LH-30
Lab Sample ID: 4581594
Canister ID: SUMMA0200
Injection Volume: 500 cc
Instrument ID: HP0946

Date Collected: 08/10/05
Date Analyzed: 08/12/05
Pressure Rec'd: 12.3 psia
Nominal Volume: 250 cc
Lab File ID: C:\MSDCHEM\1\DATA\AUG12\CH0191.D

Date Received: 08/11/05
Time Analyzed: 15:55
Final Pressure: 24.6 psia
Dilution Factor: 500.0

UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
57-14-7	Unknown	2.42	1600	J D
107-83-5	Pentane, 2-methyl-	4.80	5400	J D
2216-34-4	Octane, 4-methyl-	14.17	4000	J D
5989-54-8	Unknown	20.40	1400	J D
17301-29-0	Unknown Alkane	21.00	1800	J D
17312-83-3	Unknown Alkane	22.56	2200	J D
62185-21-1	Unknown Alkane	22.72	1600	J D
29812-79-1	Unknown	22.75	1400	J D
541-02-6	Siloxane	23.57	1400	J D
112-31-2	Unknown	25.16	1300	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.

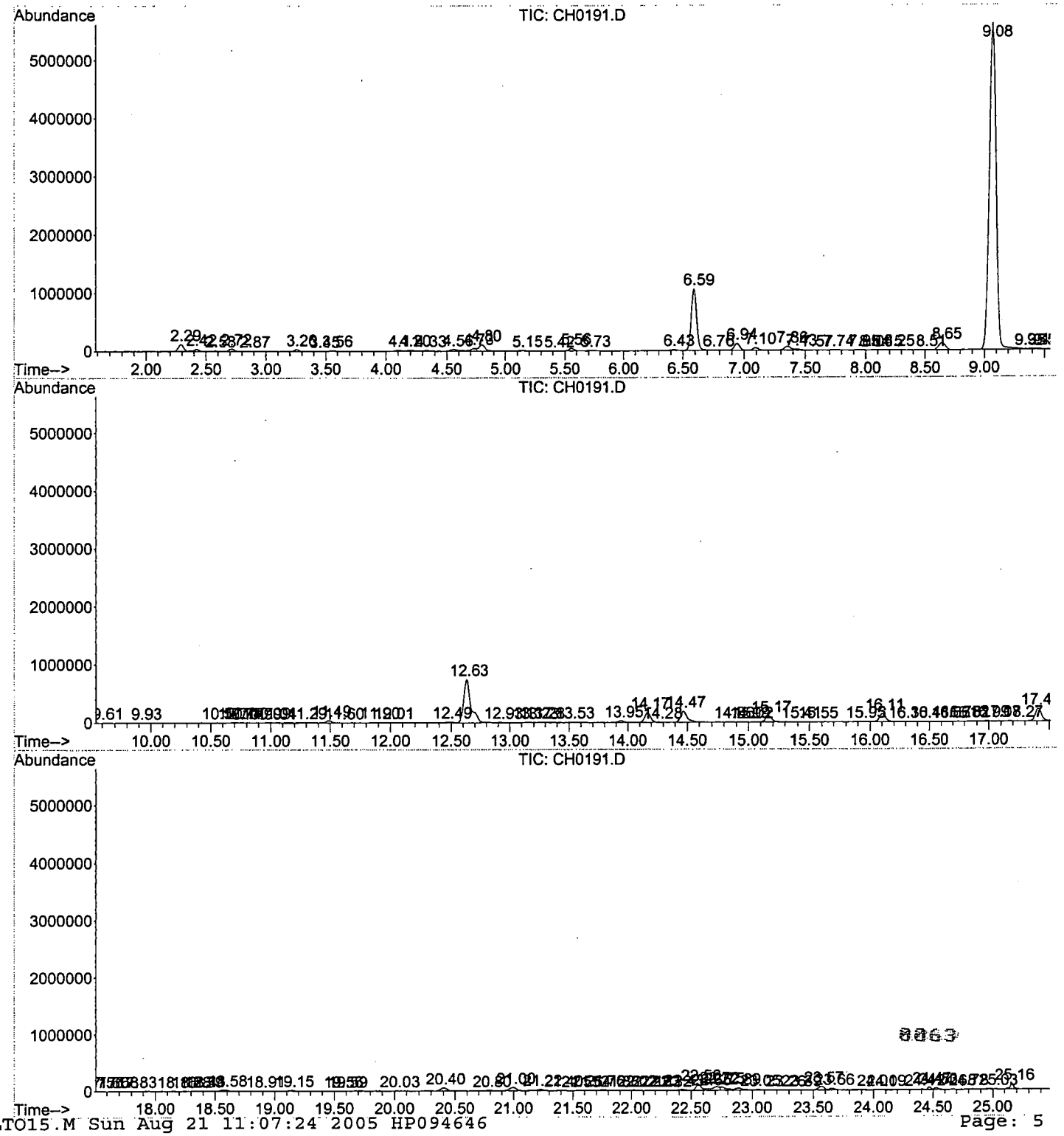
LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0191.D
Acq On : 12 Aug 2005 15:55
Operator : JBS
Sample : 4581594 DF500 500CC
Misc :
ALS Vial : 43 Sample Multiplier: 1

ORIGINAL

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0191.D
Acq On : 12 Aug 2005 15:55
Operator : JBS
Sample : 4581594 DF500 500CC
Misc :
ALS Vial : 43 Sample Multiplier: 1

ORIGINAL

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

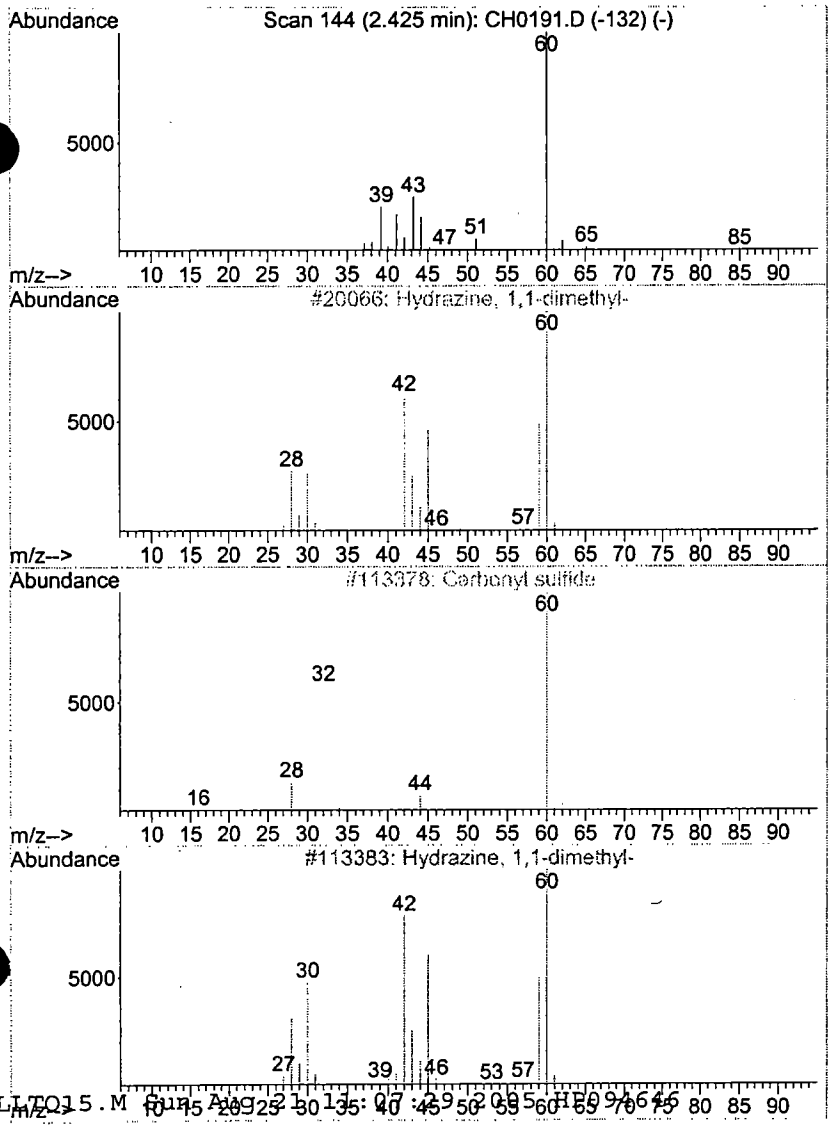
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

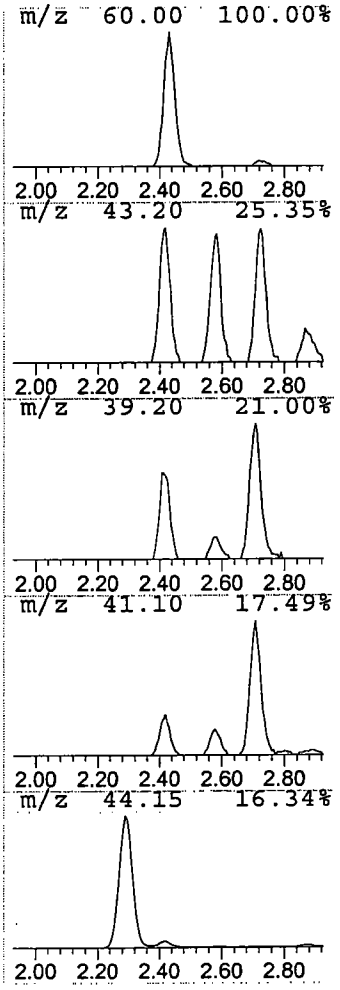
Unknown

****
Peak Number 2 Hydrazine, 1,1-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.42	3.21	1273070	Bromochloromethane	6.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hydrazine, 1,1-dimethyl-	60	C2H8N2	000057-14-7	9
2	Carbonyl sulfide	60	COS	000463-58-1	9
3	Hydrazine, 1,1-dimethyl-	60	C2H8N2	000057-14-7	7
4	Urea	60	CH4N2O	000057-13-6	7
5	Urea	60	CH4N2O	000057-13-6	7





0064

Library Search Compound Report

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0191.D
Acq On : 12 Aug 2005 15:55
Operator : JBS
Sample : 4581594 DF500 500CC
Misc :
ALS Vial : 43 Sample Multiplier: 1

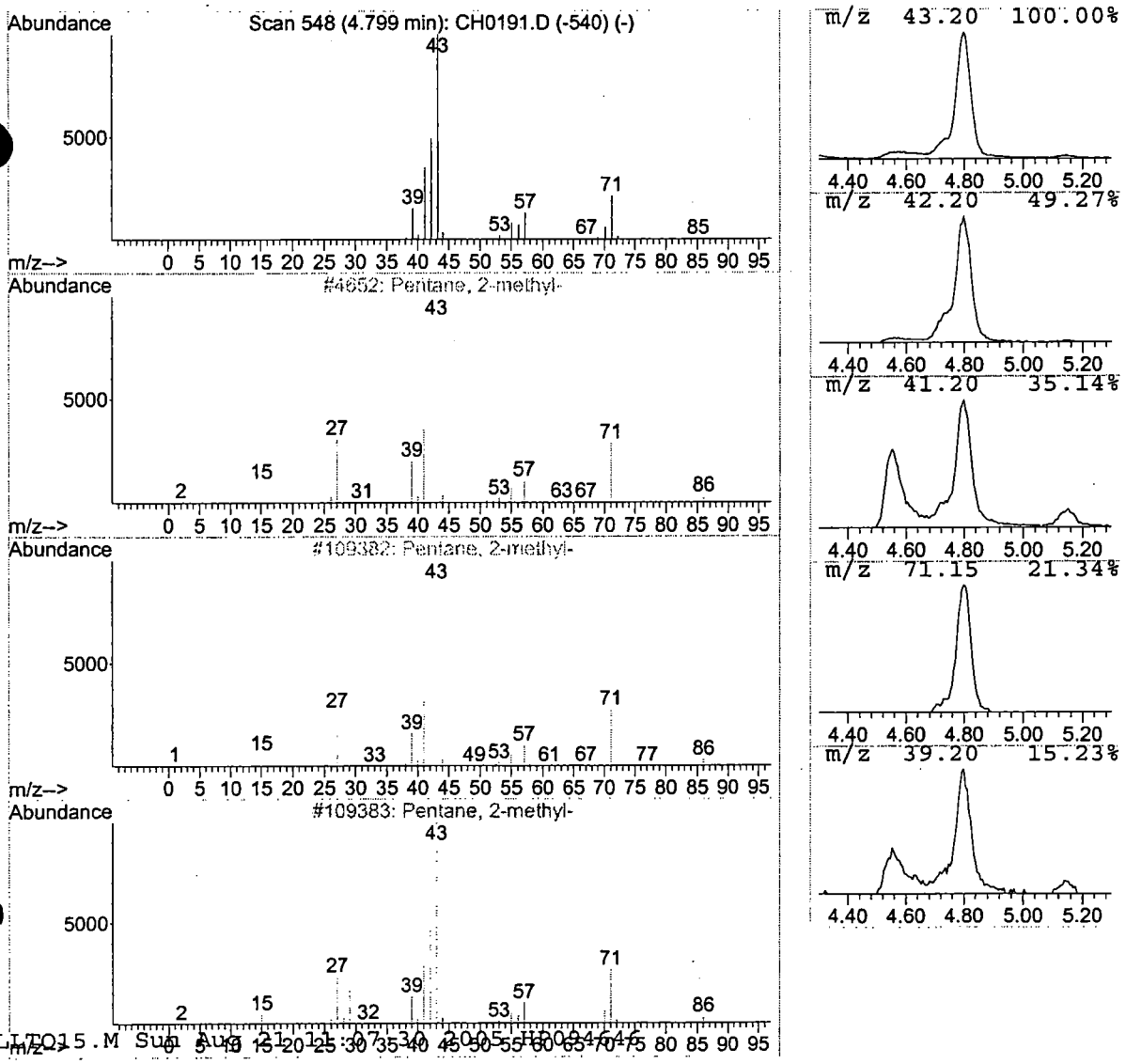
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 3 Pentane, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.80	10.74	4258550	Bromochloromethane	6.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	83
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	83
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	83
4	(Aminomethyl)cyclopropane	71	C4H9N	002516-47-4	64
5	1-Propanol, 2-methyl-	74	C4H10O	000078-83-1	37



8065

Library Search Compound Report

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0191.D
Acq On : 12 Aug 2005 15:55
Operator : JBS
Sample : 4581594 DF500 500CC
Misc :
ALS Vial : 43 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

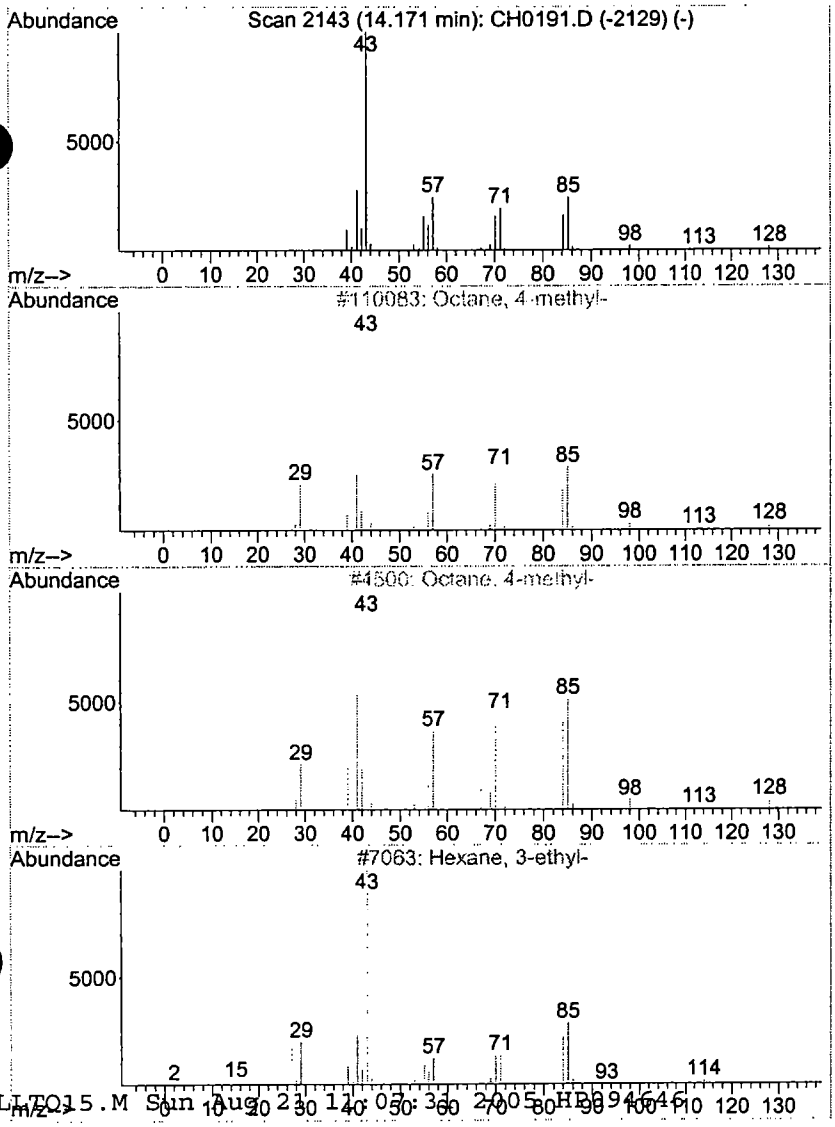
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

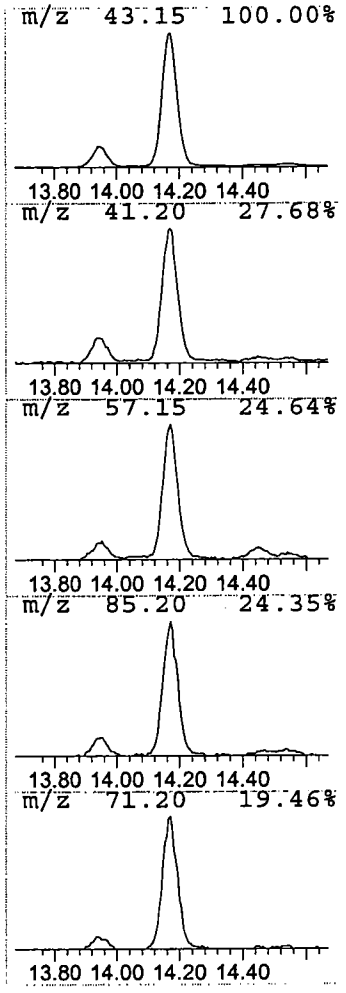
****

Peak Number 4 Octane, 4-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.17	8.07	5882700	Chlorobenzene d5	14.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 4-methyl-	128	C9H20	002216-34-4	94
2	Octane, 4-methyl	128	C9H20	002216-34-4	87
3	Hexane, 3-ethyl-	114	C8H18	000619-99-8	83
4	Octane	114	C8H18	000111-65-9	78
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78





0866

Library Search Compound Report

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0191.D
Acq On : 12 Aug 2005 15:55
Operator : JBS
Sample : 4581594 DF500 500CC
Misc :
ALS Vial : 43 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

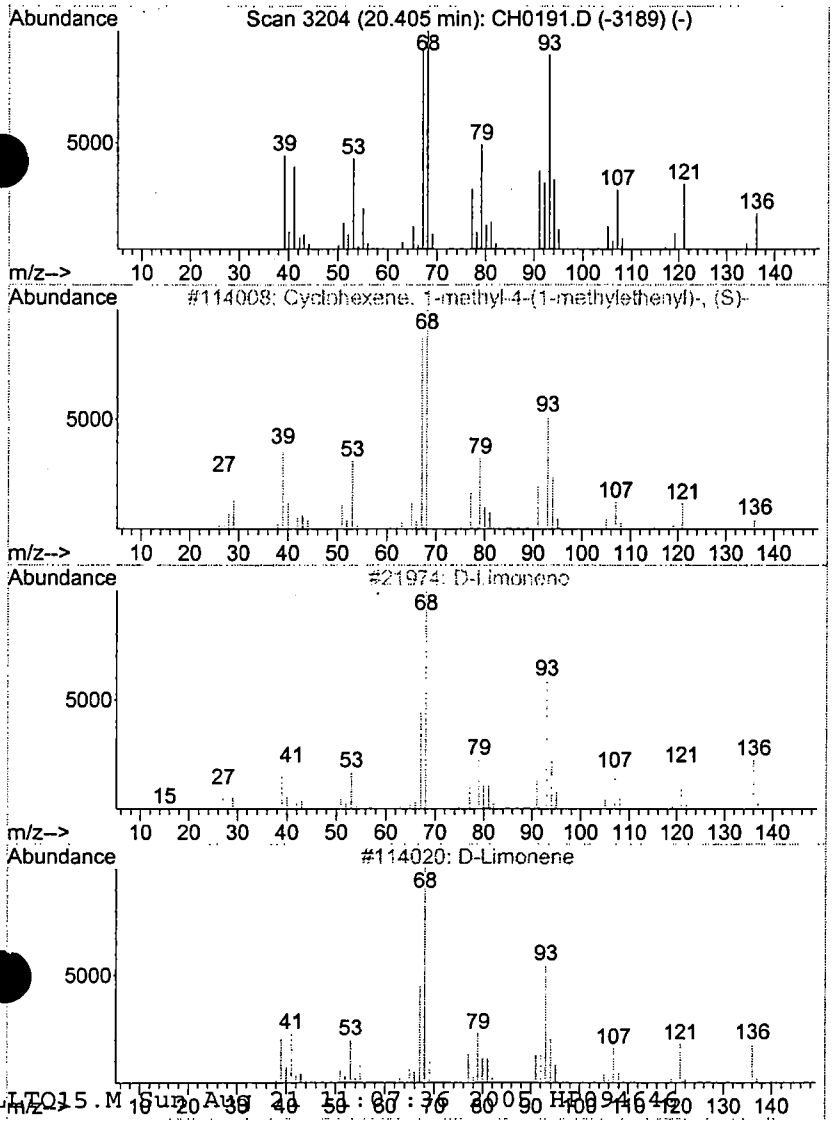
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

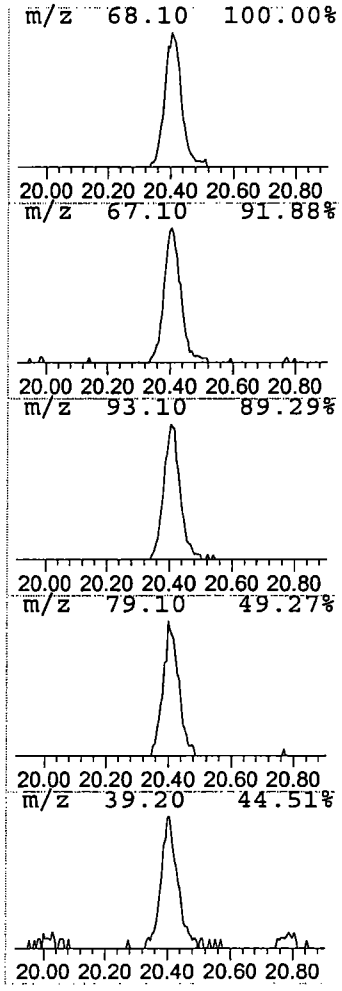
Unknown

****
Peak Number 6 Cyclohexene, 1-methyl-4-(1-... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.40	2.72	1984590	Chlorobenzene d5	14.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 1-methyl-4-(1-methy...	136	C10H16	005989-54-8	95
2	D-Limonene	136	C10H16	005989-27-5	90
3	D-Limonene	136	C10H16	005989-27-5	90
4	1,5-Cyclooctadiene, 1,5-dimethyl-	136	C10H16	003760-14-3	87
5	Cyclobutane, 1,2-bis(1-methyleth...	136	C10H16	019465-02-2	72





3067

Library Search Compound Report

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0191.D
Acq On : 12 Aug 2005 15:55
Operator : JBS
Sample : 4581594 DF500 500CC
Misc :
ALS Vial : 43 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

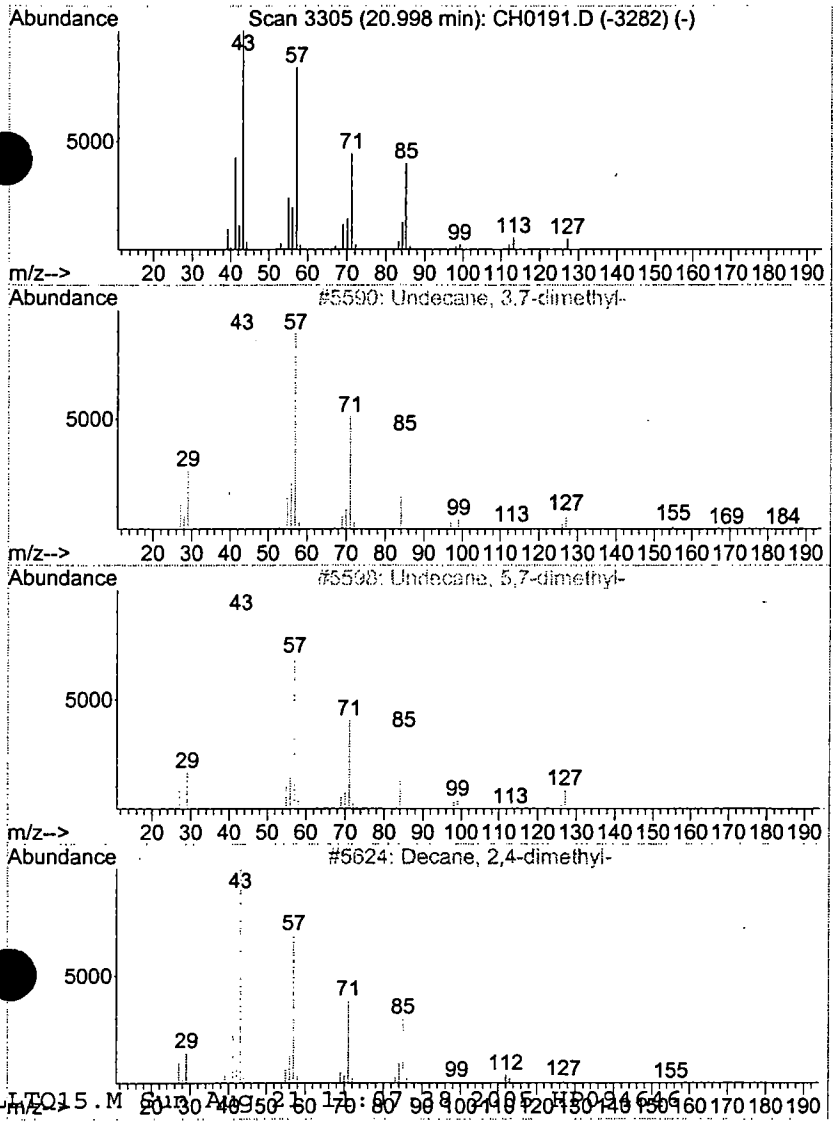
Alkane

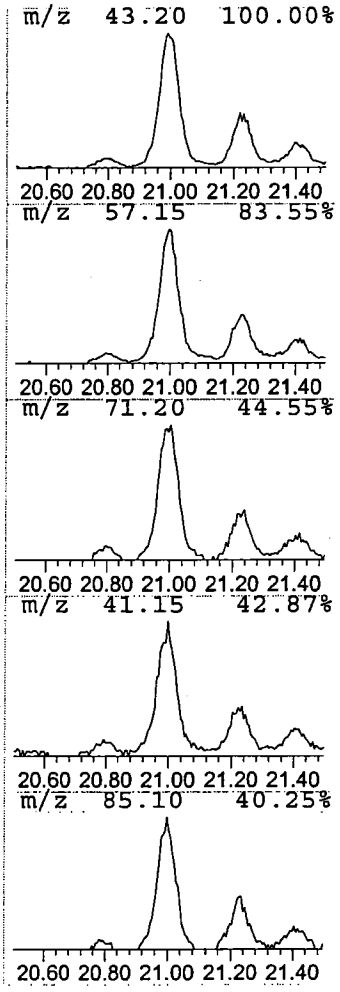
****

Peak Number 7 Undecane, 3,7-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.00	3.66	2666870	Chlorobenzene d5	14.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 3,7-dimethyl-	184	C13H28	017301-29-0	72
2	Undecane, 5,7-dimethyl-	184	C13H28	017312-83-3	72
3	Decane, 2,4-dimethyl-	170	C12H26	002801-84-5	64
4	Heptane, 2,4,6-trimethyl-	142	C10H22	002613-61-8	50
5	Octane, 3-ethyl-2,7-dimethyl-	170	C12H26	062183-55-5	50





0068

Library Search Compound Report

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0191.D
Acq On : 12 Aug 2005 15:55
Operator : JBS
Sample : 4581594 DF500 500CC
Misc :
ALS Vial : 43 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

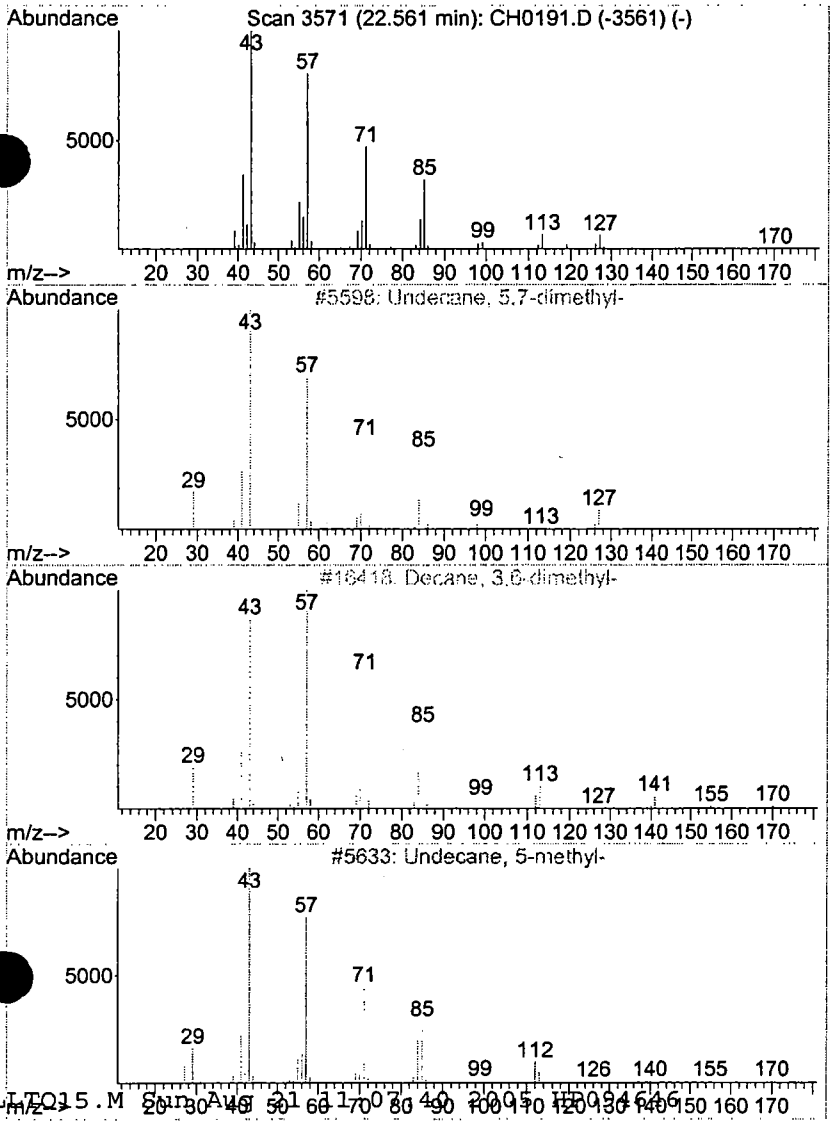
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

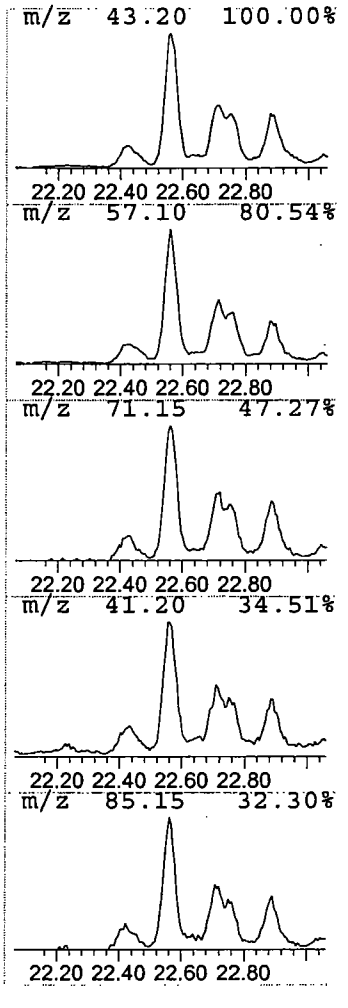
Alkane

****
Peak Number 8 Undecane, 5,7-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.56	4.41	3218710	Chlorobenzene d5	14.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 5,7-dimethyl-	184	C13H28	017312-83-3	86
2	Decane, 3,6-dimethyl-	170	C12H26	017312-53-7	81
3	Undecane, 5-methyl-	170	C12H26	001632-70-8	81
4	Heneicosane	296	C21H44	000629-94-7	72
5	Tridecane	184	C13H28	000629-50-5	72





0869

Library Search Compound Report

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0191.D
Acq On : 12 Aug 2005 15:55
Operator : JBS
Sample : 4581594 DF500 500CC
Misc :
ALS Vial : 43 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

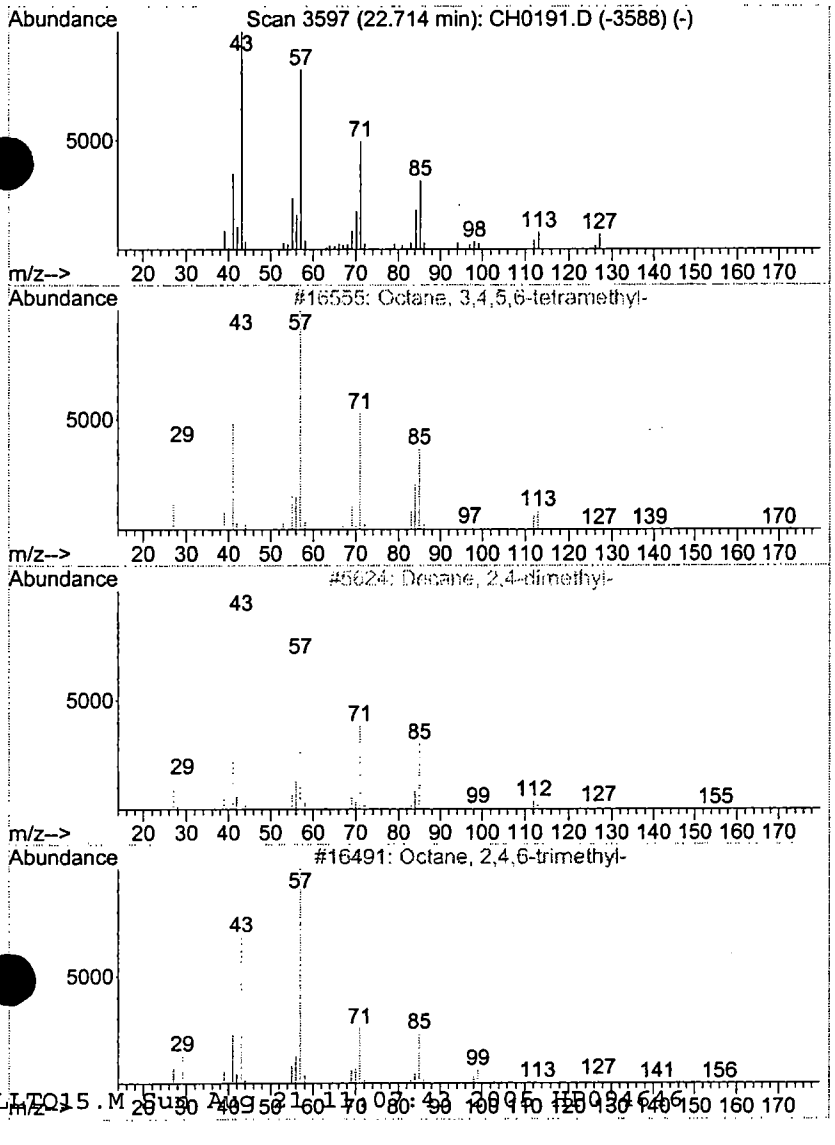
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

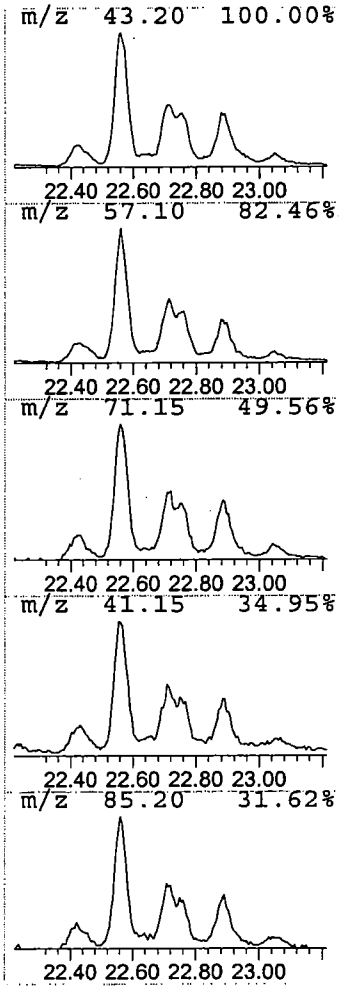
Alkane

****
Peak Number 9 Octane, 3,4,5,6-tetramethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.72	3.11	2264430	Chlorobenzene d5	14.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3,4,5,6-tetramethyl-	170	C12H26	062185-21-1	80
2	Decane, 2,4-dimethyl-	170	C12H26	002801-84-5	72
3	Octane, 2,4,6-trimethyl-	156	C11H24	062016-37-9	64
4	Undecane, 5-methyl-	170	C12H26	001632-70-8	64
5	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	64





0878

Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0191.D
Acq On : 12 Aug 2005 15:55
Operator : JBS
Sample : 4581594 DF500 500CC
Misc :
ALS Vial : 43 Sample Multiplier: 1

ORIGINAL

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

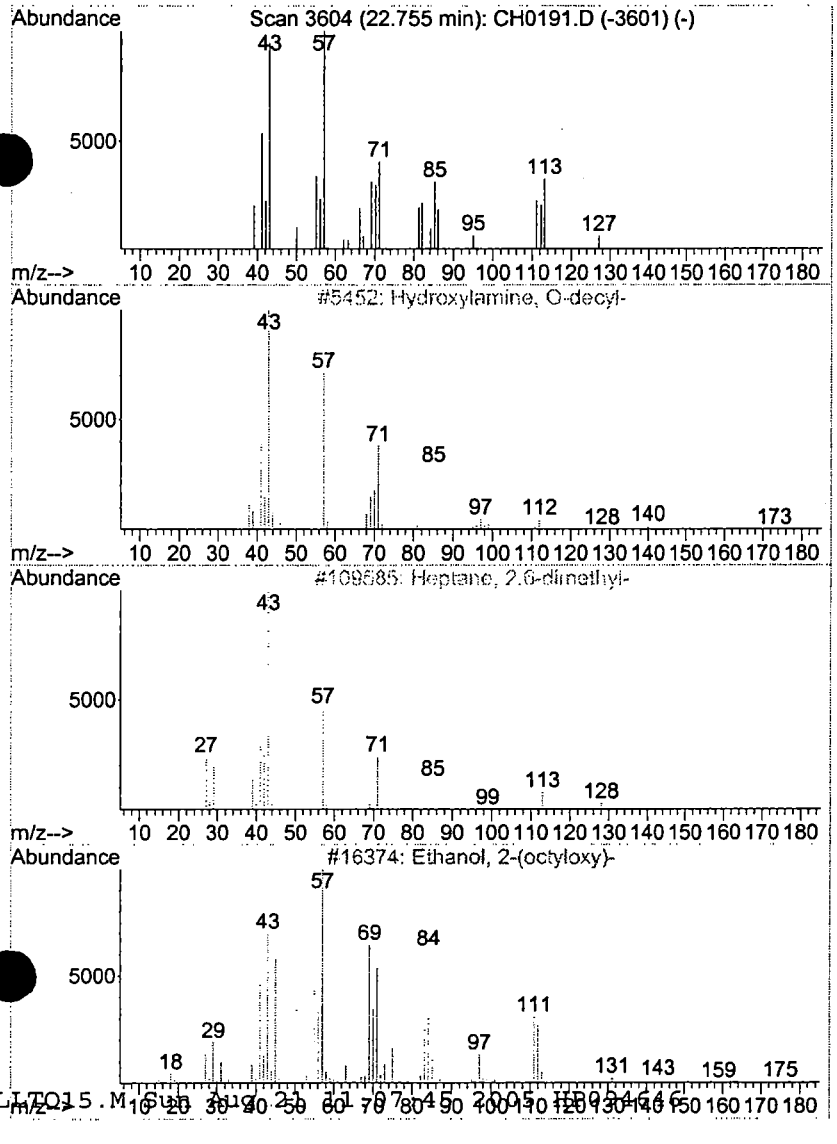
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

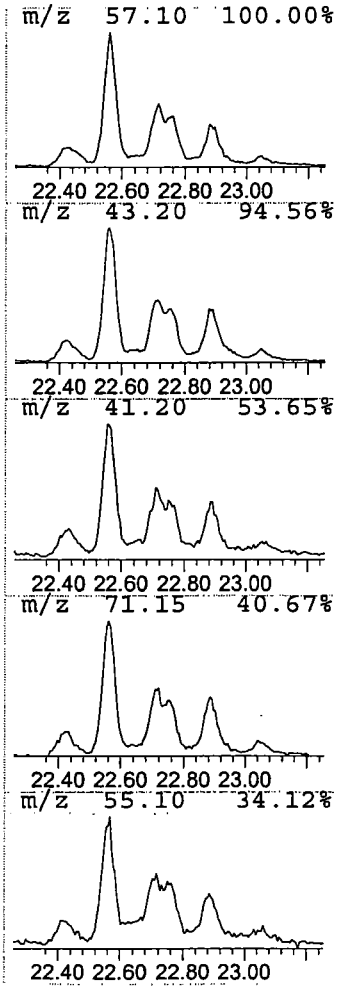
Unknown

****
Peak Number 10 Hydroxylamine, O-decyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.75	2.84	2070130	Chlorobenzene d5	14.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hydroxylamine, O-decyl-	173	C10H23NO	029812-79-1	22
2	Heptane, 2,6-dimethyl-	128	C9H20	001072-05-5	14
3	Ethanol, 2-(octyloxy)-	174	C10H22O2	010020-43-6	12
4	Octadecane, 1-(ethenyloxy)-	296	C20H40O	000930-02-9	12
5	1-Pentanol, 2-methyl-	102	C6H14O	000105-30-6	10





8071

Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0191.D
Acq On : 12 Aug 2005 15:55
Operator : JBS
Sample : 4581594 DF500 500CC
Misc :
ALS Vial : 43 Sample Multiplier: 1

ORIGINAL

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

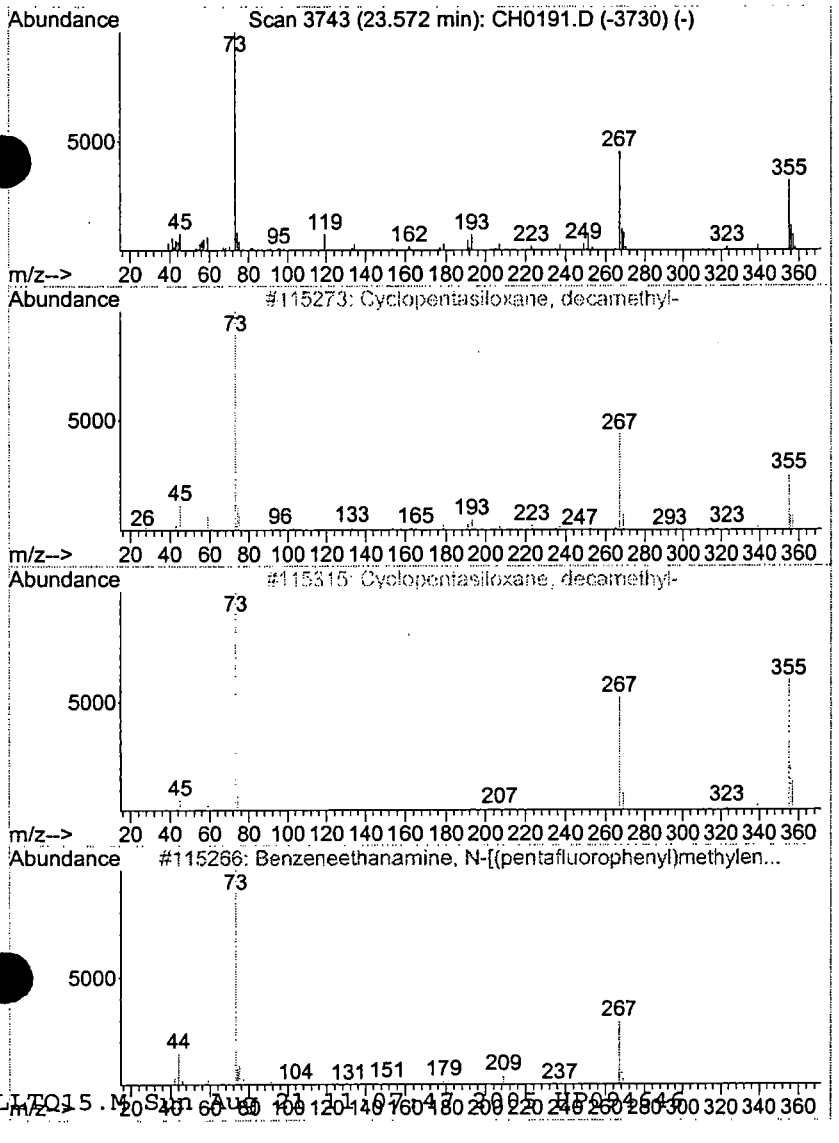
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

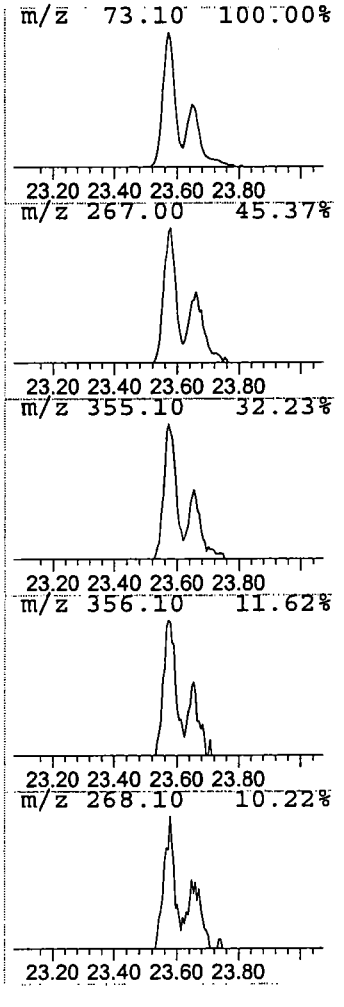
Siloxane

****
Peak Number 11 Cyclopentasiloxane, decamet... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.57	2.82	2054550	Chlorobenzene d5	14.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentasiloxane, decamethyl-	370	C10H30O5Si5	000541-02-6	91
2	Cyclopentasiloxane, decamethyl-	370	C10H30O5Si5	000541-02-6	90
3	Benzeneethanamine, N-[(pentafluo...	475	C21H26F5NO2Si2	055429-85-1	43
4	Phenethylamine, N-methyl-.beta.,...	399	C18H37NO3Si3	010538-85-9	38
5	3,4-Dihydroxybenzyl alcohol,tris...	356	C16H32O3Si3	068595-79-9	35





0072

Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0191.D
Acq On : 12 Aug 2005 15:55
Operator : JBS
Sample : 4581594 DF500 500CC
Misc :
ALS Vial : 43 Sample Multiplier: 1

ORIGINAL

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

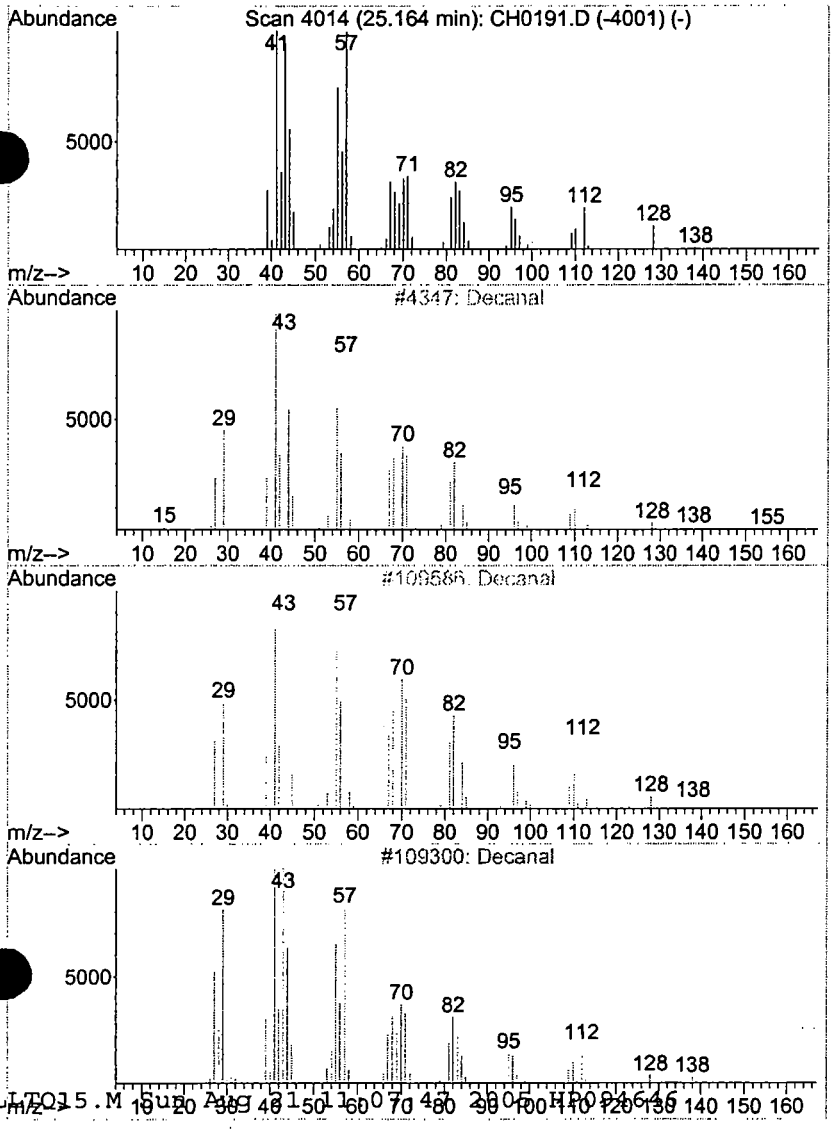
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

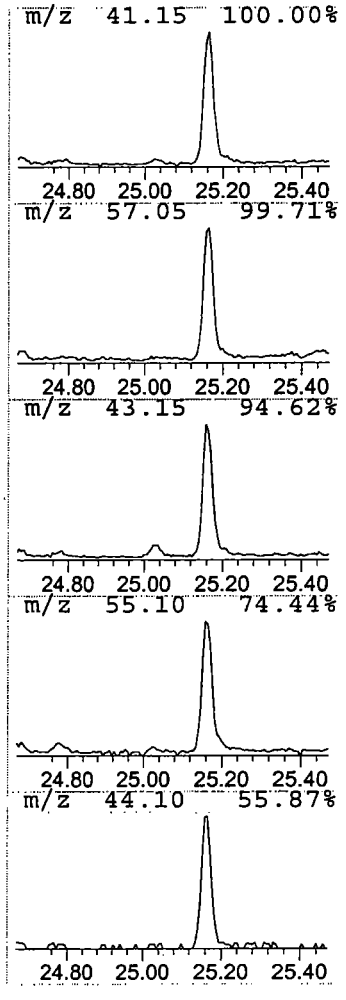
Unknown

****
Peak Number 12 Decanal Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.16	2.62	1907620	Chlorobenzene d5	14.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decanal	156	C10H20O	000112-31-2	68
2	Decanal	156	C10H20O	000112-31-2	58
3	Decanal	156	C10H20O	000112-31-2	52
4	2-Octene, (Z)-	112	C8H16	007642-04-8	42
5	2-Octene, (E)-	112	C8H16	013389-42-9	38





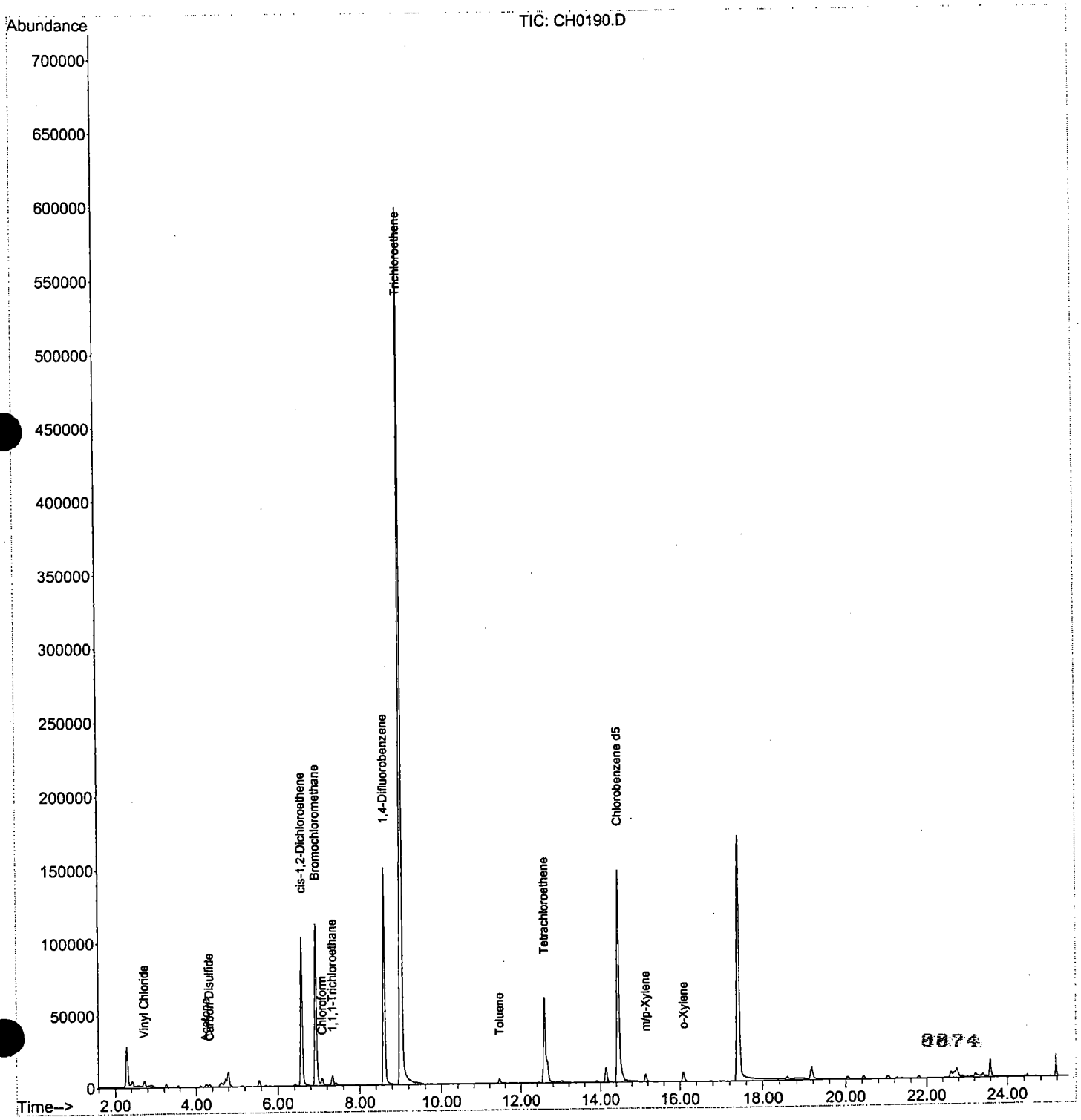
8873

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG12\
Data File : CH0190.D
Acq On : 12 Aug 2005 15:18
Operator : JBS
Sample : 4581594 DF500 50CC
Misc :
ALS Vial : 42 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 20 15:59:27 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration



0074

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG12\
Data File : CH0190.D
Acq On : 12 Aug 2005 15:18
Operator : JBS
Sample : 4581594 DF500 50CC
Misc :
ALS Vial : 42 Sample Multiplier: 1

ORIGINAL

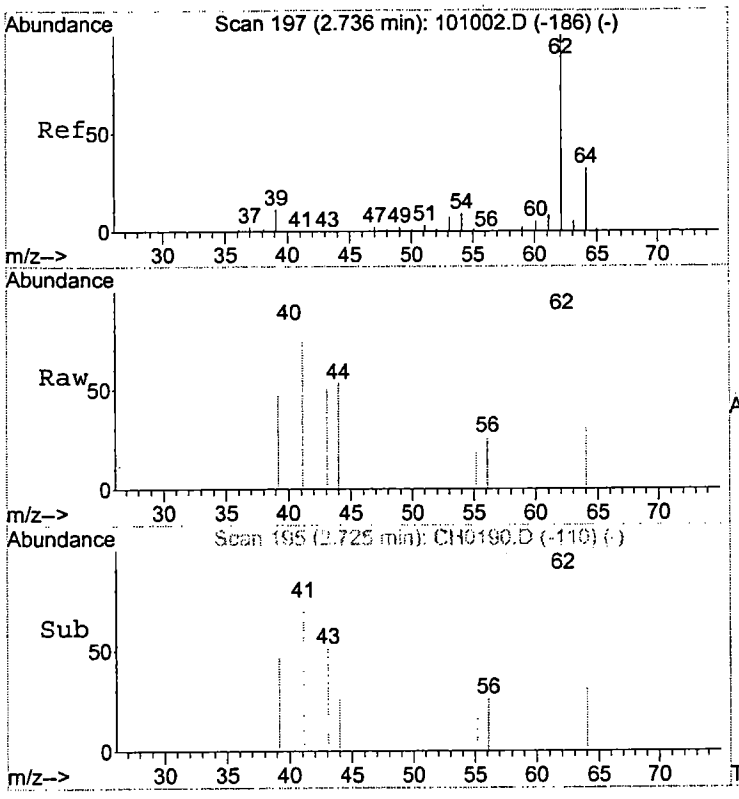
Quant Time: Aug 20 15:59:27 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.93	130	553151	10.000	-0.02
37) 1,4-Difluorobenzene	8.61	114	1906908	10.000	-0.02
51) Chlorobenzene d5	14.45	117	1836146	10.000	-0.03

Target Compounds						Qvalue
7) Vinyl Chloride	2.72	62	22729	0.413 PPB	#	44
17) Acetone	4.24	43	48018	0.541 PPB	#	39
19) Carbon Disulfide	4.34	76	40766	0.326 PPB	#	66
30) cis-1,2-Dichloroethene	6.58	61	1040735	12.957 PPB		93
34) Chloroform	7.08	83	55470	0.523 PPB	#	80
35) 1,1,1-Trichloroethane	7.34	97	75453	0.596 PPB		96
42) Trichloroethene	9.03	130	3270557	36.902 PPB		95
52) Toluene	11.46	91	49825	0.276 PPB		93
57) Tetrachloroethene	12.60	166	360093	3.300 PPB		95
64) m/p-Xylene	15.15	91	71750	0.384 PPB		95
65) o-Xylene	16.09	91	96005	0.548 PPB		90

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

0075

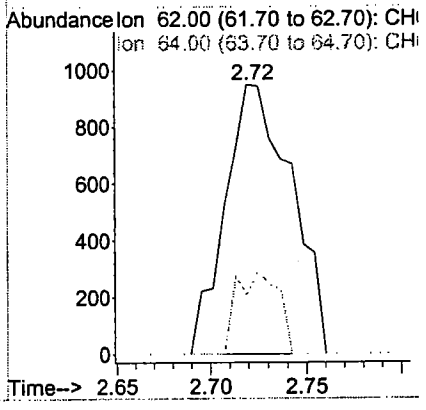


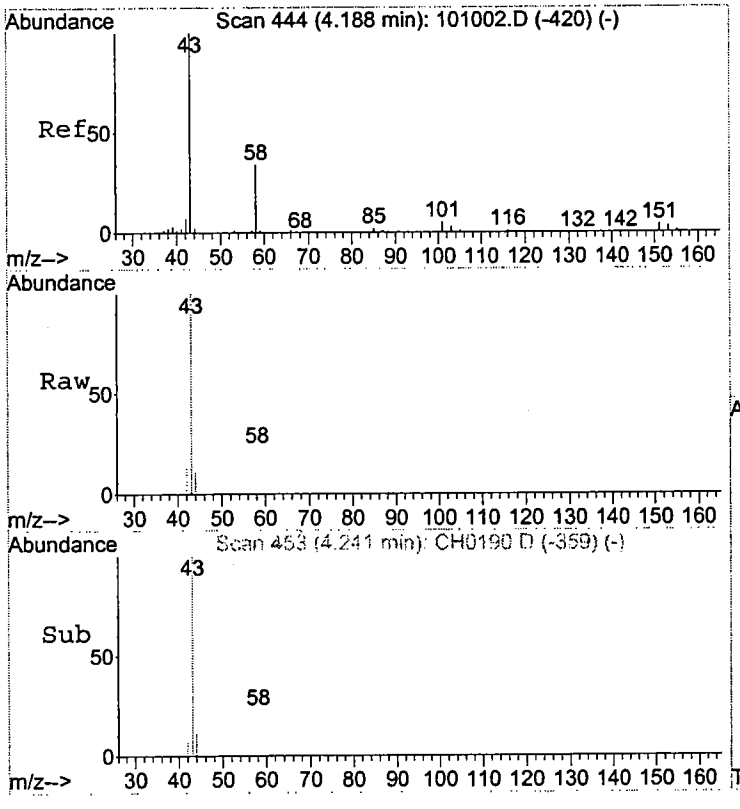
#7
Vinyl Chloride
Concen: 0.41 PPB
RT: 2.72 min Scan# 195
Delta R.T. -0.00 min
Lab File: CH0190.D
Acq: 12 Aug 2005 15:18

ORIGINAL

Tgt Ion: 62 Resp: 22729

Ion	Ratio	Lower	Upper
62	100		
64	0.0	24.6	36.8#

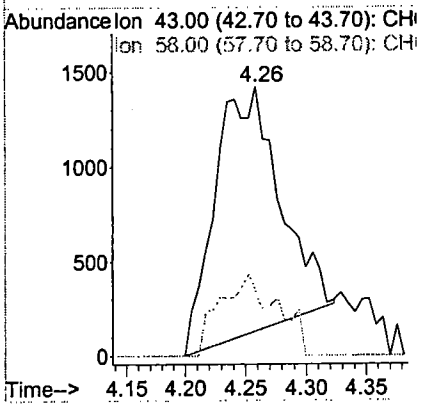




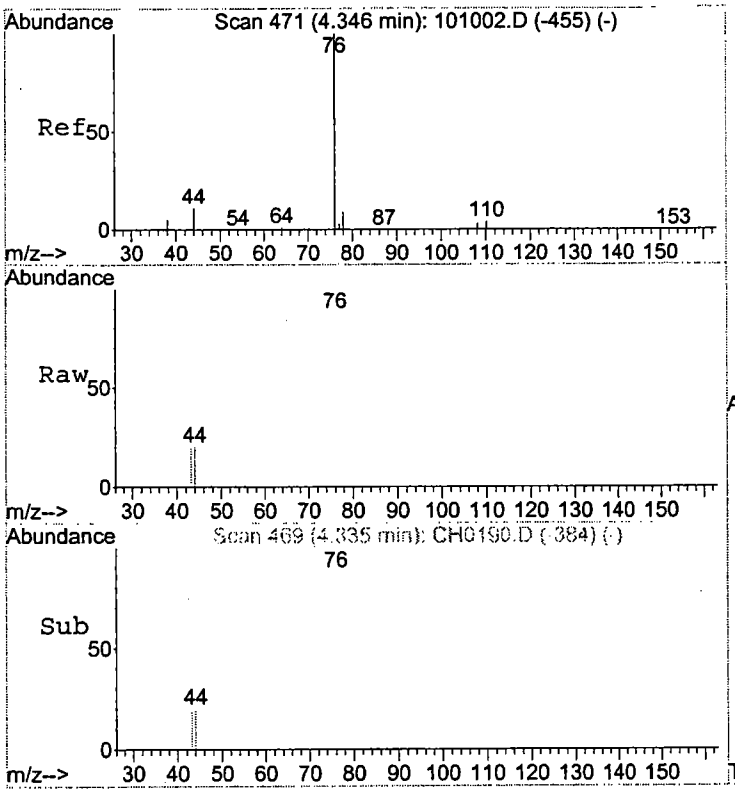
#17
Acetone
Concen: 0.54 PPB
RT: 4.24 min Scan# 453
Delta R.T. 0.05 min
Lab File: CH0190.D
Acq: 12 Aug 2005 15:18

Tgt Ion: 43 Resp: 48018

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.2	42.4#



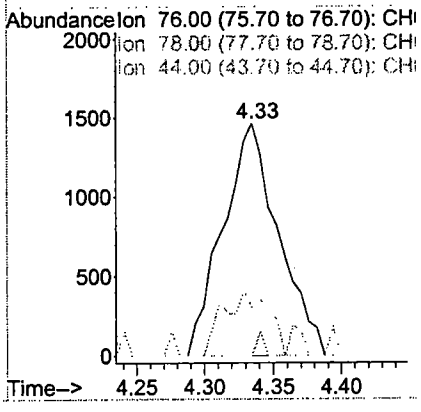
0076



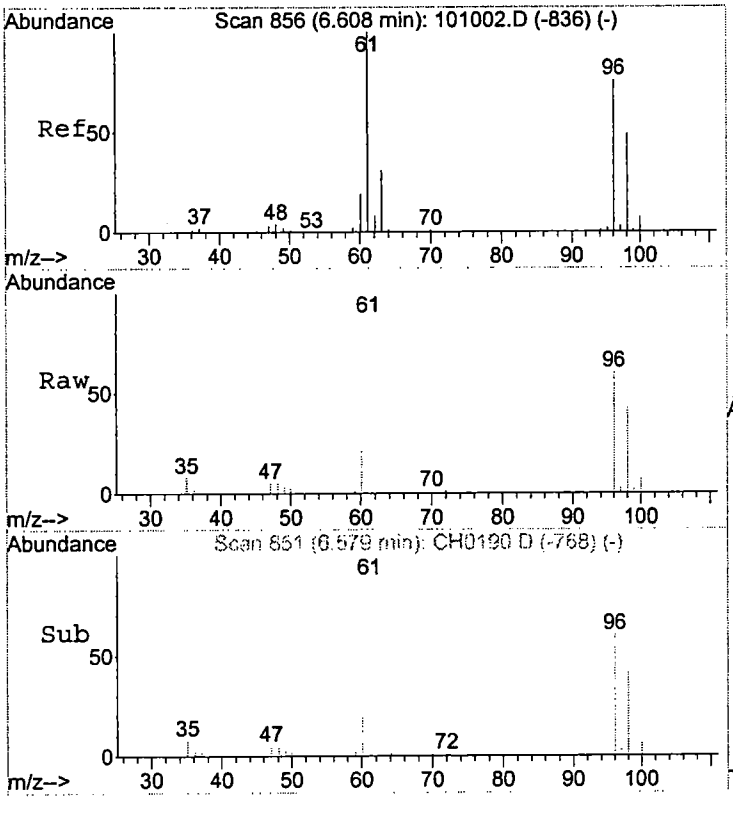
#19
Carbon Disulfide
Concen: 0.33 PPB
RT: 4.34 min Scan# 469
Delta R.T. 0.00 min
Lab File: CH0190.D
Acq: 12 Aug 2005 15:18

Tgt Ion: 76 Resp: 40766

Ion	Ratio	Lower	Upper
76	100		
78	0.0	7.4	11.0#
44	0.0	13.6	20.4#



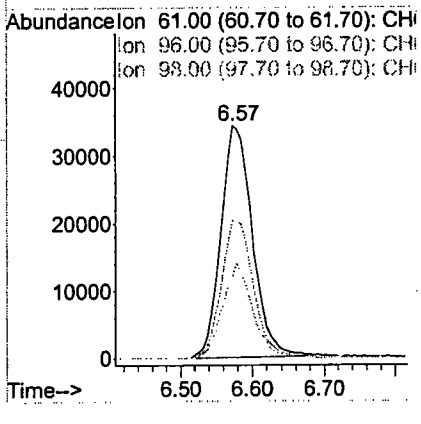
ORIGINAL



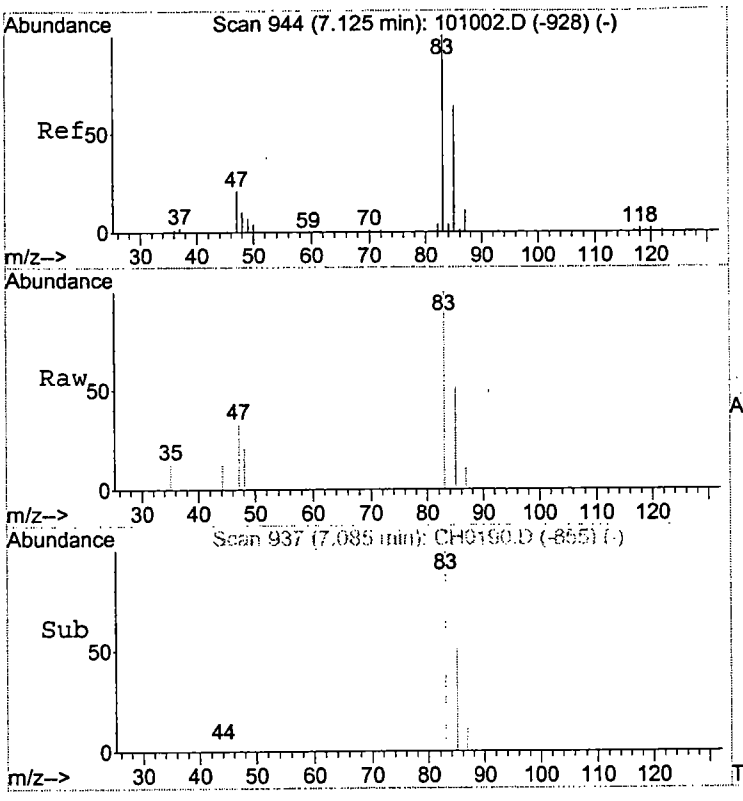
#30
cis-1,2-Dichloroethene
Concen: 12.96 PPB
RT: 6.58 min Scan# 851
Delta R.T. -0.01 min
Lab File: CH0190.D
Acq: 12 Aug 2005 15:18

Tgt Ion: 61 Resp: 1040735

Ion	Ratio	Lower	Upper
61	100		
96	61.1	53.8	80.8
98	39.2	34.8	52.2



8877

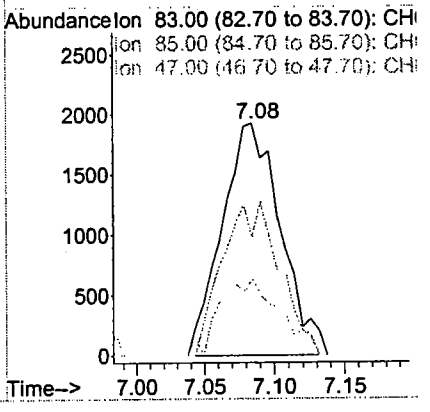


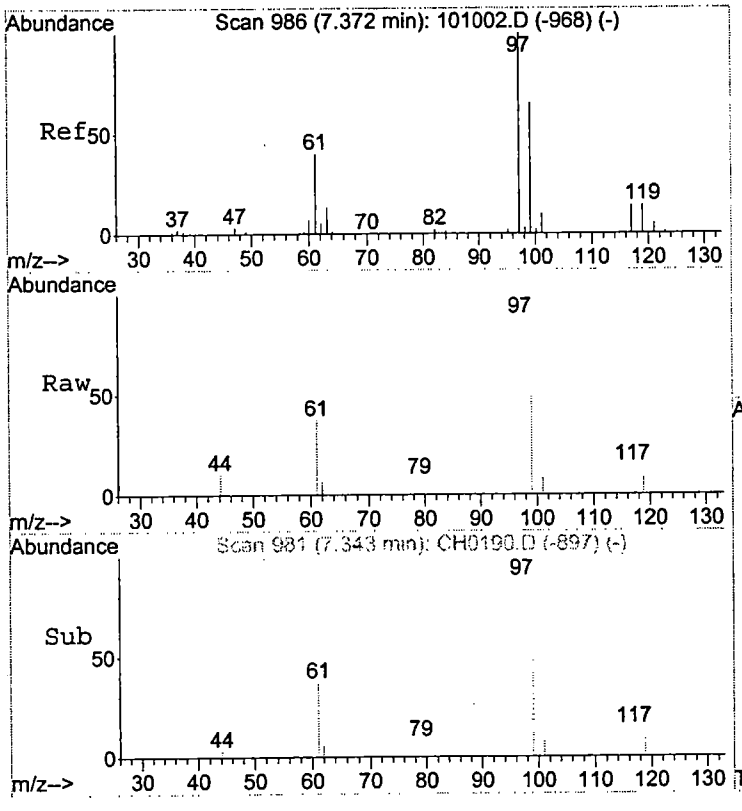
#34
Chloroform
Concen: 0.52 PPB
RT: 7.08 min Scan# 937
Delta R.T. -0.02 min
Lab File: CH0190.D
Acq: 12 Aug 2005 15:18

ORIGINAL

Tgt Ion: 83 Resp: 55470

Ion	Ratio	Lower	Upper
83	100		
85	64.6	54.9	82.3
47	0.0	23.1	34.7#

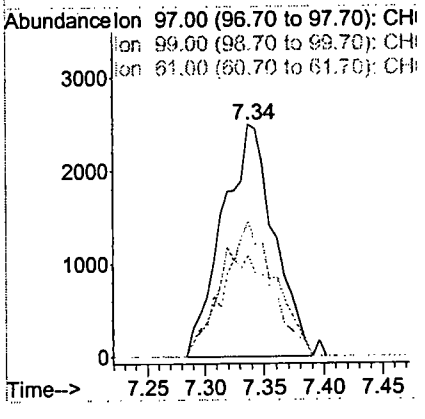




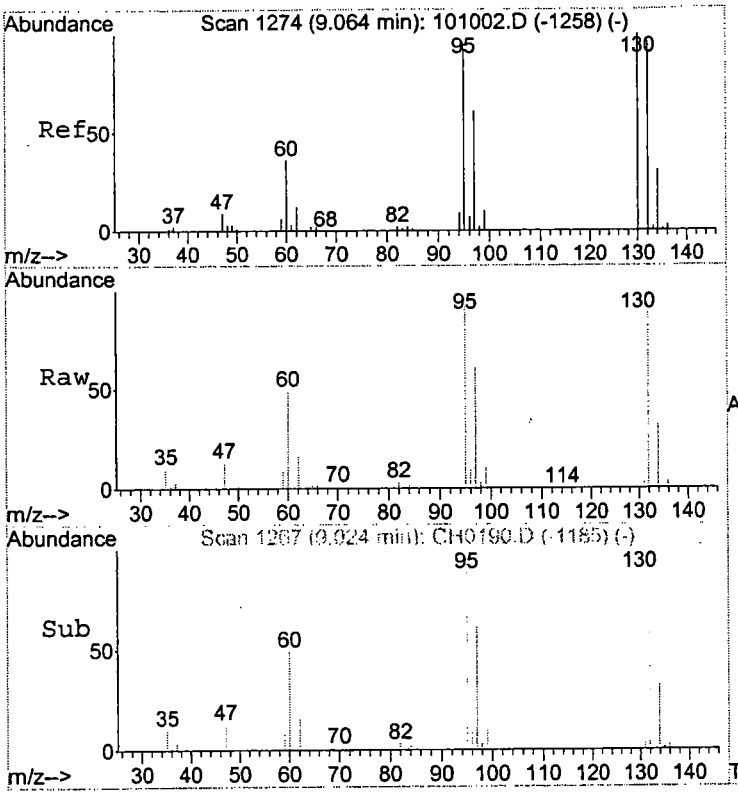
#35
1,1,1-Trichloroethane
Concen: 0.60 PPB
RT: 7.34 min Scan# 981
Delta R.T. -0.01 min
Lab File: CH0190.D
Acq: 12 Aug 2005 15:18

Tgt Ion: 97 Resp: 75453

Ion	Ratio	Lower	Upper
97	100		
99	59.7	51.4	77.0
61	47.6	36.6	55.0



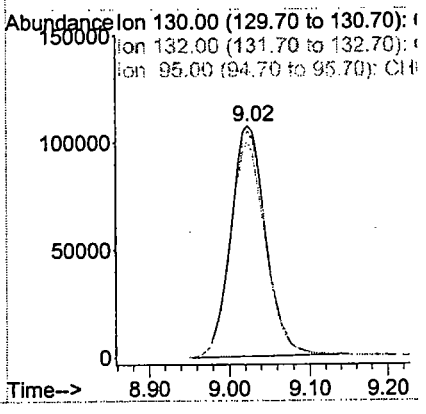
0079



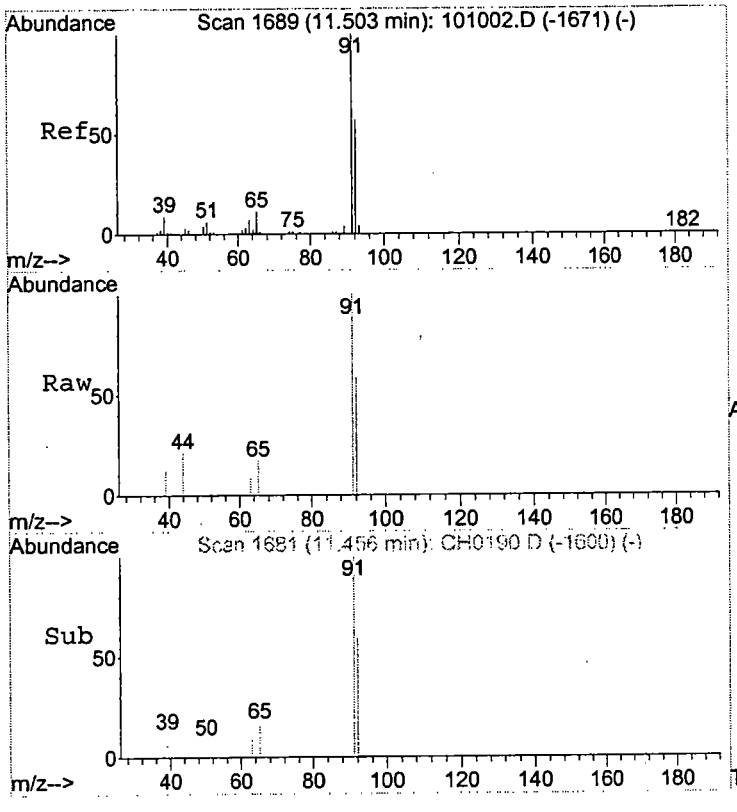
#42
Trichloroethene
Concen: 36.90 PPB
RT: 9.03 min Scan# 1267
Delta R.T. -0.02 min
Lab File: CH0190.D
Acq: 12 Aug 2005 15:18

Tgt Ion:130 Resp: 3270557

Ion	Ratio	Lower	Upper
130	100		
132	98.5	77.6	116.4
95	93.2	67.4	101.2



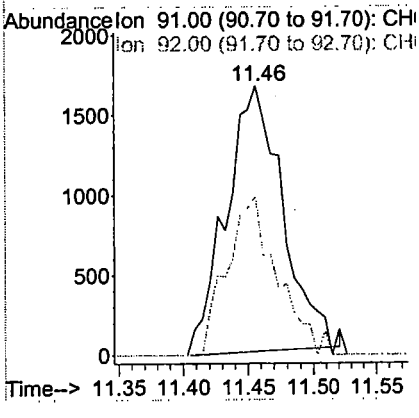
ORIGINAL



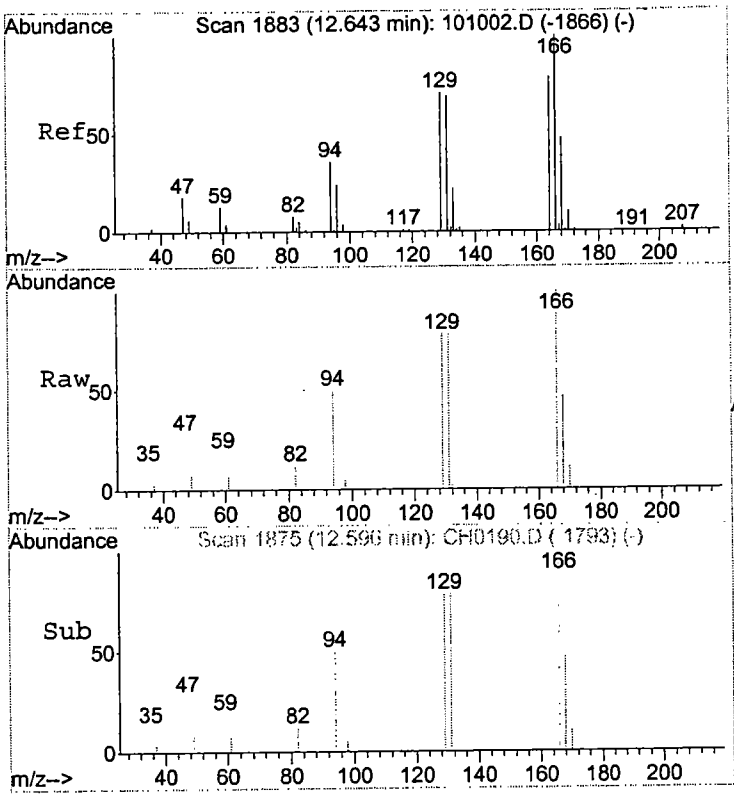
#52
Toluene
Concen: 0.28 PPB
RT: 11.46 min Scan# 1681
Delta R.T. -0.02 min
Lab File: CH0190.D
Acq: 12 Aug 2005 15:18

Tgt Ion: 91 Resp: 49825

Ion	Ratio	Lower	Upper
91	100		
92	53.9	47.2	70.8



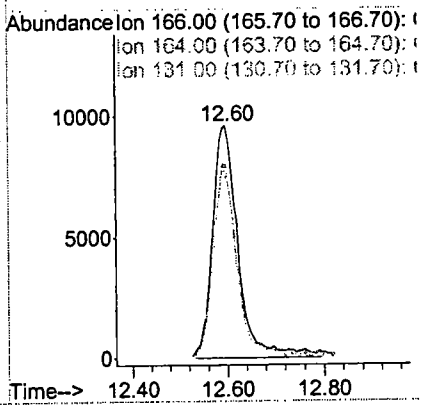
0079



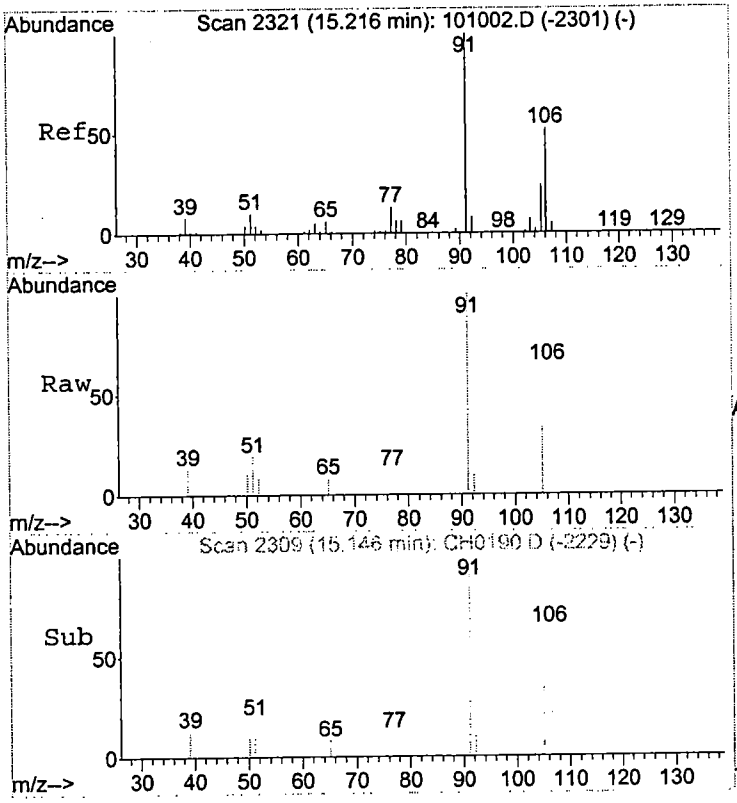
#57
Tetrachloroethene
Concen: 3.30 PPB
RT: 12.60 min Scan# 1875
Delta R.T. -0.02 min
Lab File: CH0190.D
Acq: 12 Aug 2005 15:18

Tgt Ion:166 Resp: 360093

Ion	Ratio	Lower	Upper
166	100		
164	72.8	63.2	94.8
131	76.4	59.0	88.4



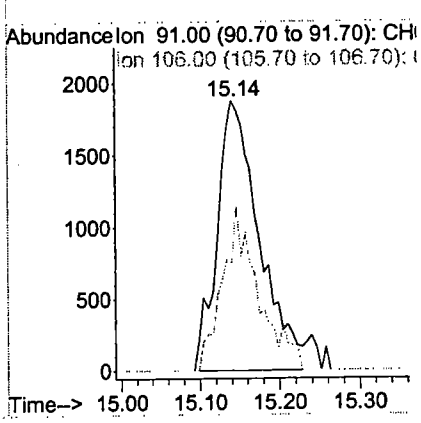
ORIGINAL



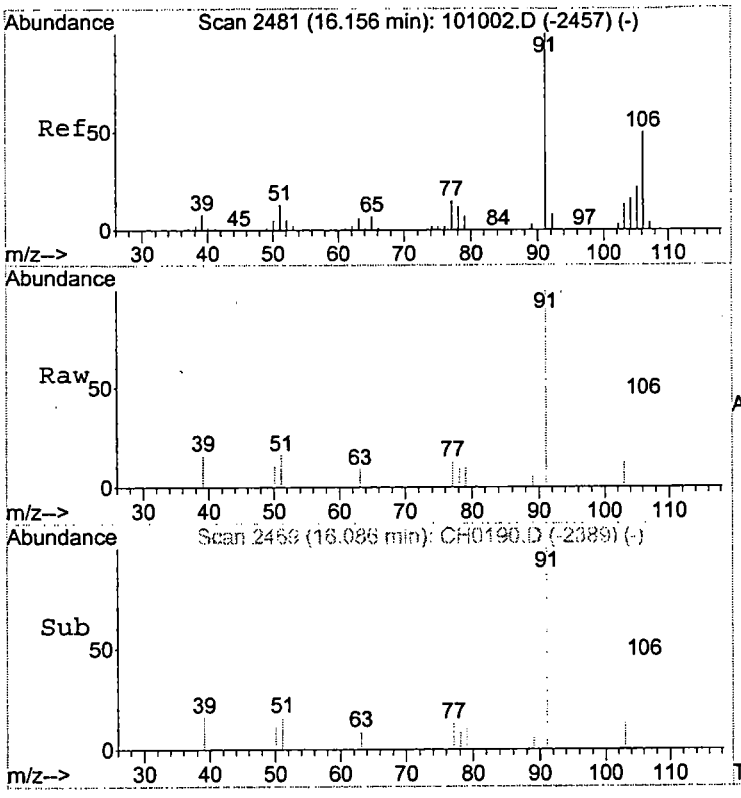
#64
m/p-Xylene
Concen: 0.38 PPB
RT: 15.15 min Scan# 2309
Delta R.T. -0.03 min
Lab File: CH0190.D
Acq: 12 Aug 2005 15:18

Tgt Ion: 91 Resp: 71750

Ion	Ratio	Lower	Upper
91	100		
106	50.2	43.1	64.7



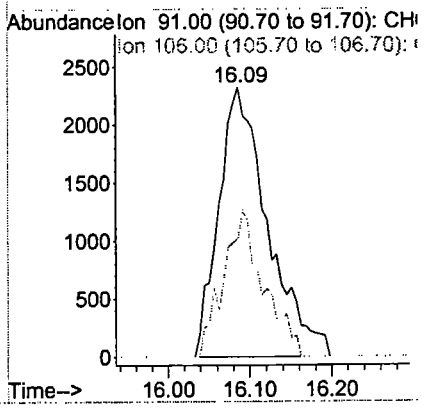
8888



#65
o-Xylene
Concen: 0.55 PPB
RT: 16.09 min Scan# 2469
Delta R.T. -0.03 min
Lab File: CH0190.D
Acq: 12 Aug 2005 15:18

Tgt Ion: 91 Resp: 96005

Ion	Ratio	Lower	Upper
91	100		
106	44.3	41.1	61.7



ORIGINAL

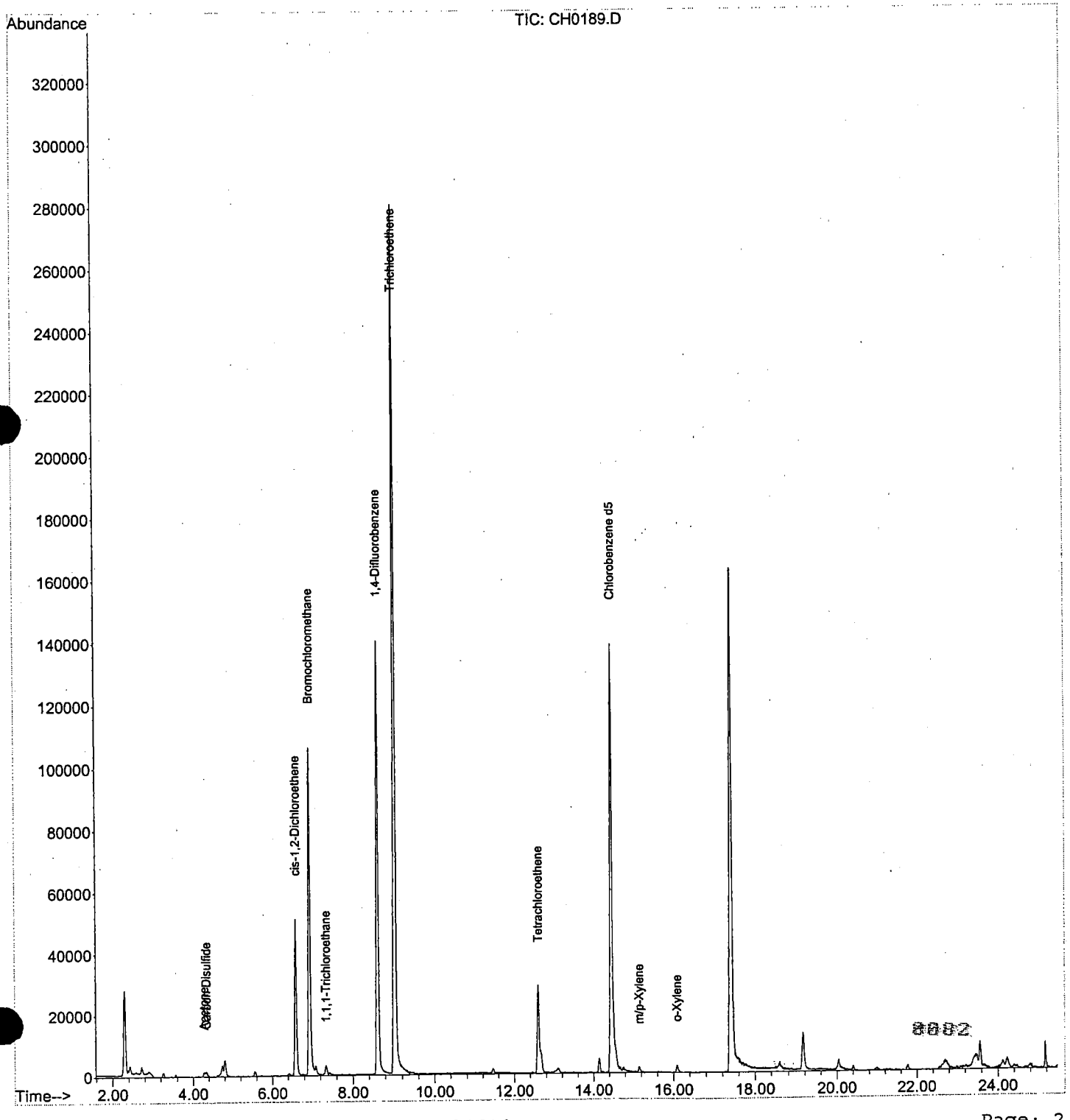
0081

Quantitation Report (QT Reviewed)

ORIGINAL

Data Path : C:\MSDChem\1\DATA\AUG12\
Data File : CH0189.D
Acq On : 12 Aug 2005 14:42
Operator : JBS
Sample : 4581594 DF500 25CC
Misc :
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Aug 20 16:01:22 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ORIGINAL

Data Path : C:\MSDChem\1\DATA\AUG12\
Data File : CH0189.D
Acq On : 12 Aug 2005 14:42
Operator : JBS
Sample : 4581594 DF500 25CC
Misc :
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Aug 20 16:01:22 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration

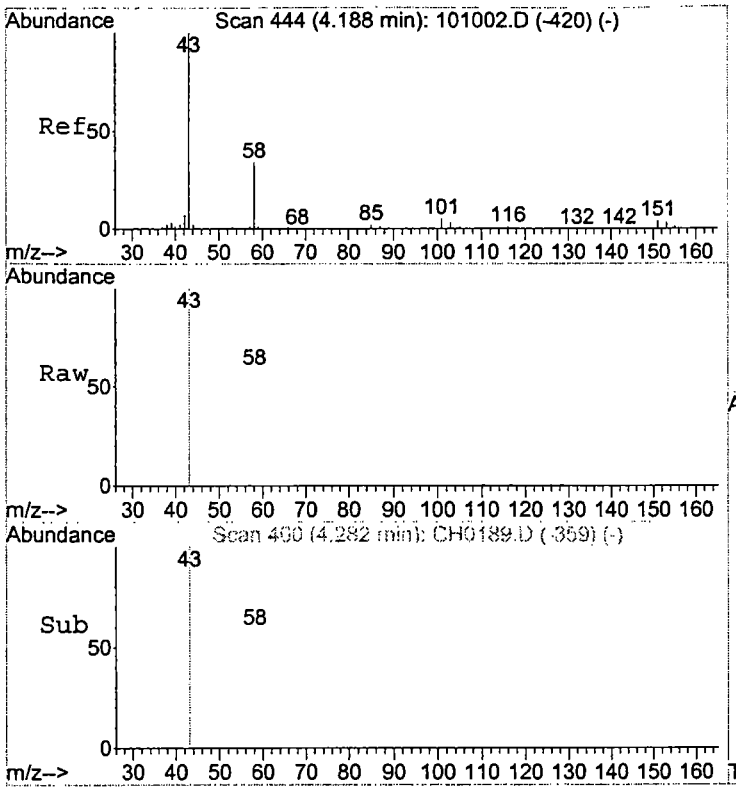
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.94	130	563603	10.000	-0.01
37) 1,4-Difluorobenzene	8.61	114	1876631	10.000	-0.02
51) Chlorobenzene d5	14.45	117	1764901	10.000	-0.03

Target Compounds						Qvalue
17) Acetone	4.28	43	37700	0.417 PPB	#	39
19) Carbon Disulfide	4.34	76	25785	0.203 PPB	#	66
30) cis-1,2-Dichloroethene	6.59	61	527435	6.445 PPB		93
35) 1,1,1-Trichloroethane	7.34	97	36669	0.284 PPB	#	23
42) Trichloroethene	9.03	130	1639358	18.795 PPB		95
57) Tetrachloroethene	12.60	166	164842	1.572 PPB		92
64) m/p-Xylene	15.14	91	36325	0.202 PPB	#	25
65) o-Xylene	16.09	91	37945	0.225 PPB	#	26

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

0083

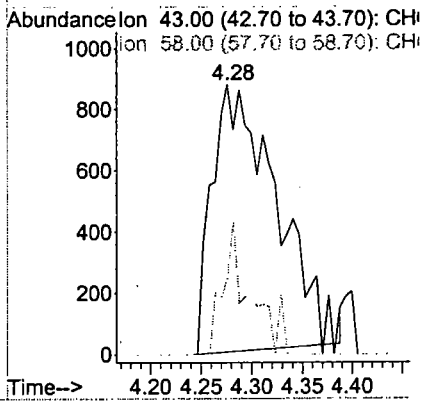
ORIGINAL

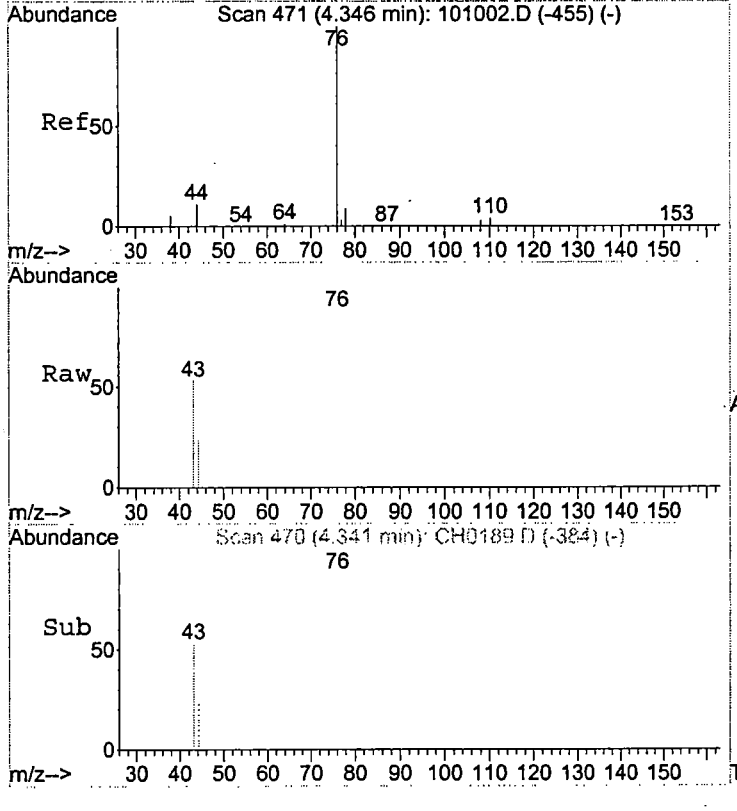


#17
Acetone
Concen: 0.42 PPB
RT: 4.28 min Scan# 460
Delta R.T. 0.09 min
Lab File: CH0189.D
Acq: 12 Aug 2005 14:42

Tgt Ion: 43 Resp: 37700

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.2	42.4#

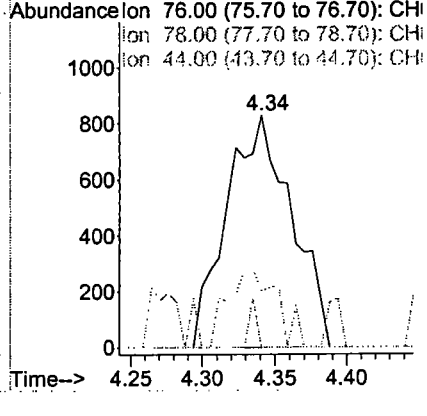




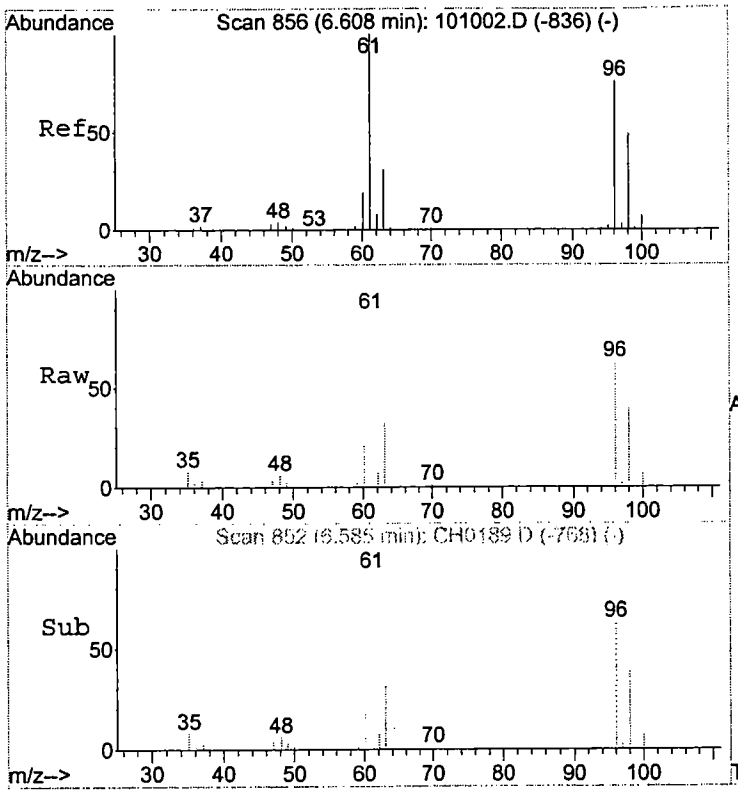
#19
Carbon Disulfide
Concen: 0.20 PPB
RT: 4.34 min Scan# 470
Delta R.T. 0.01 min
Lab File: CH0189.D
Acq: 12 Aug 2005 14:42

Tgt Ion: 76 Resp: 25785

Ion	Ratio	Lower	Upper
76	100		
78	0.0	7.4	11.0#
44	0.0	13.6	20.4#



0084

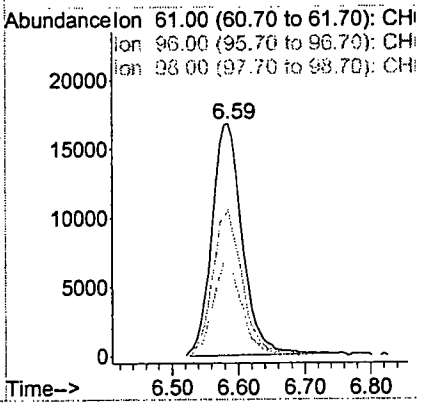


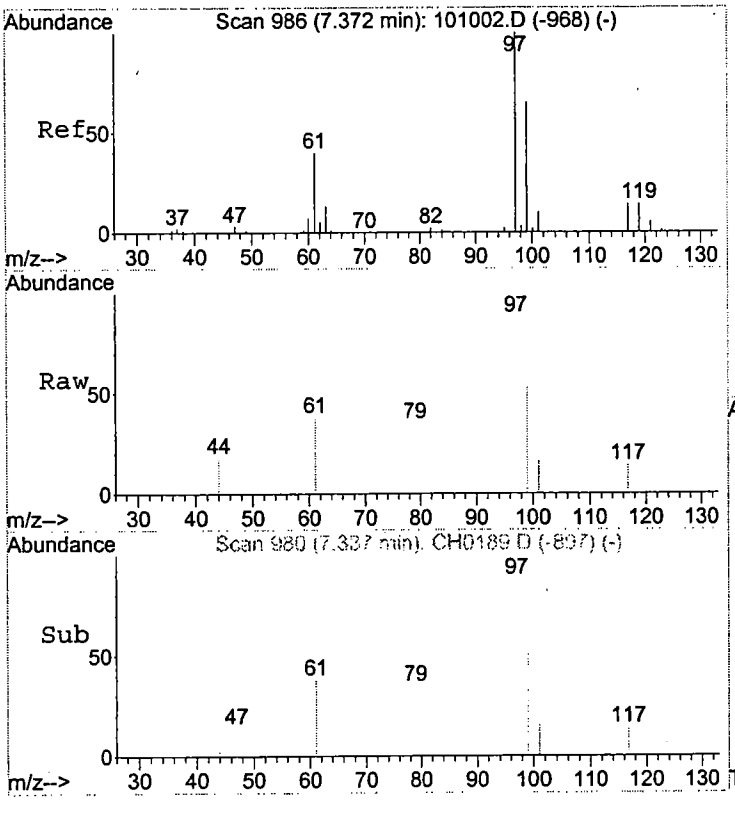
#30
cis-1,2-Dichloroethene
Concen: 6.44 PPB
RT: 6.59 min Scan# 852
Delta R.T. -0.01 min
Lab File: CH0189.D
Acq: 12 Aug 2005 14:42

ORIGINAL

Tgt Ion: 61 Resp: 527435

Ion	Ratio	Lower	Upper
61	100		
96	61.6	53.8	80.8
98	38.6	34.8	52.2

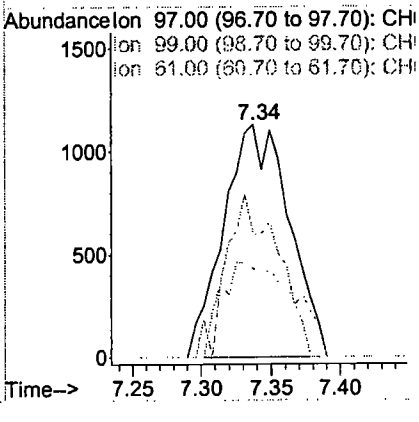




#35
1,1,1-Trichloroethane
Concen: 0.28 PPB
RT: 7.34 min Scan# 980
Delta R.T. -0.01 min
Lab File: CH0189.D
Acq: 12 Aug 2005 14:42

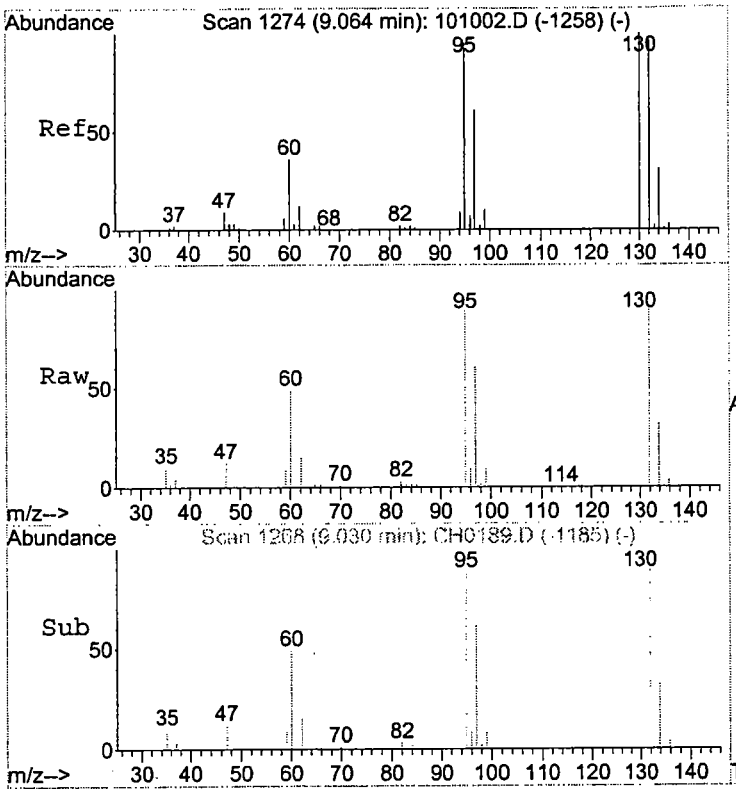
Tgt Ion: 97 Resp: 36669

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.4	77.0#
61	0.0	36.6	55.0#



0085

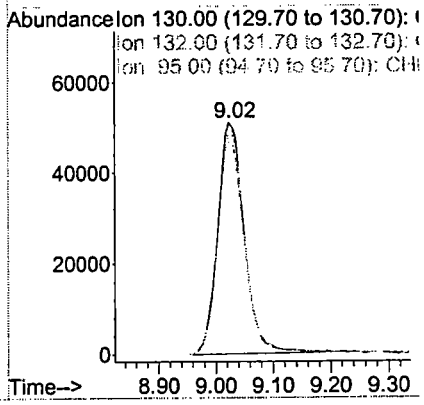
ORIGINAL

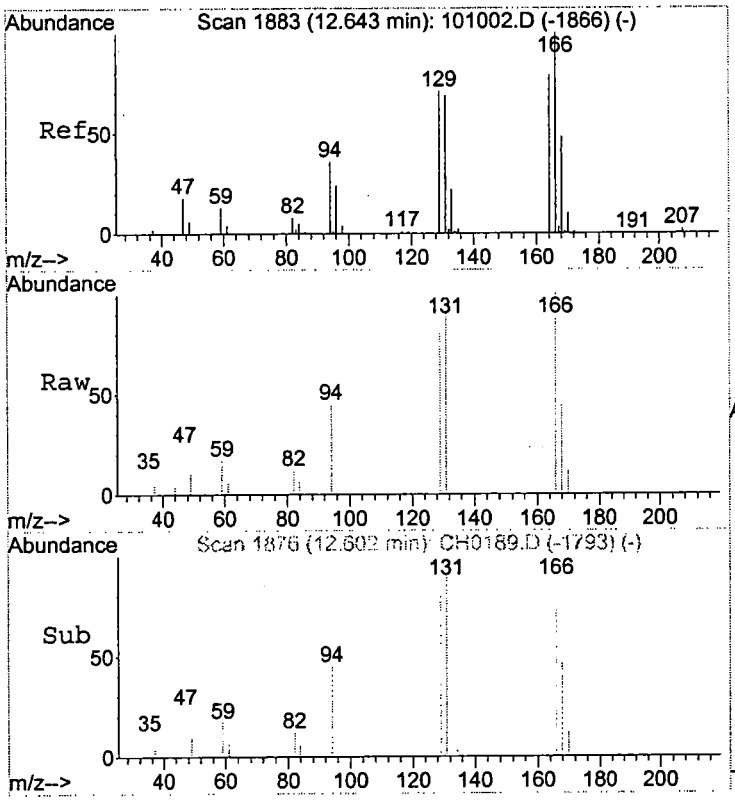


#42
Trichloroethene
Concen: 18.80 PPB
RT: 9.03 min Scan# 1268
Delta R.T. -0.02 min
Lab File: CH0189.D
Acq: 12 Aug 2005 14:42

Tgt Ion:130 Resp: 1639358

Ion	Ratio	Lower	Upper
130	100		
132	96.4	77.6	116.4
95	92.7	67.4	101.2

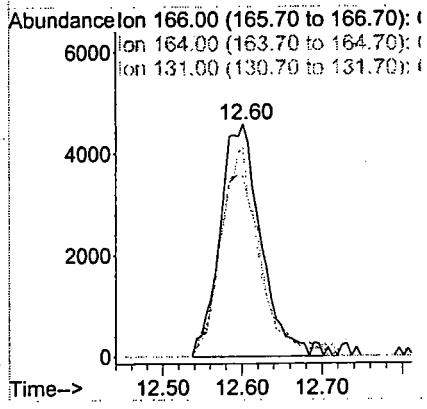




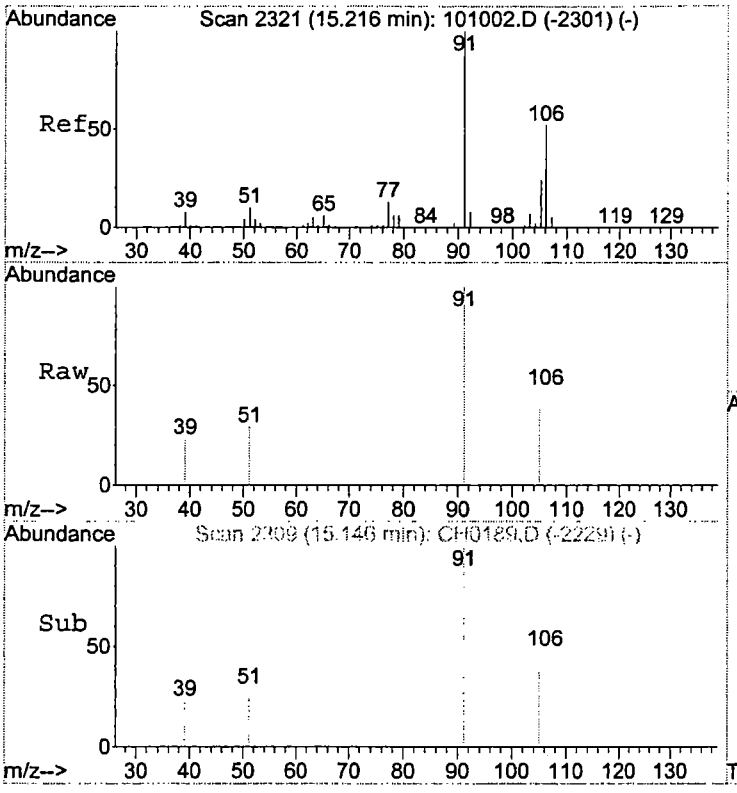
#57
Tetrachloroethene
Concen: 1.57 PPB
RT: 12.60 min Scan# 1876
Delta R.T. -0.01 min
Lab File: CH0189.D
Acq: 12 Aug 2005 14:42

Tgt Ion:166 Resp: 164842

Ion	Ratio	Lower	Upper
166	100		
164	81.9	63.2	94.8
131	83.9	59.0	88.4



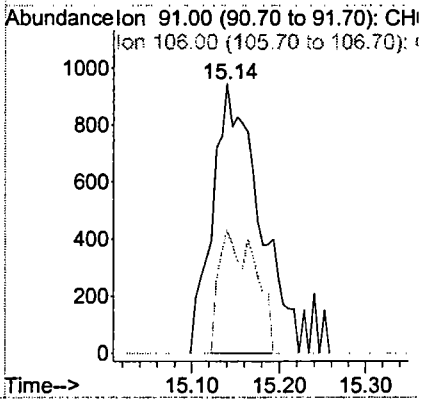
0086



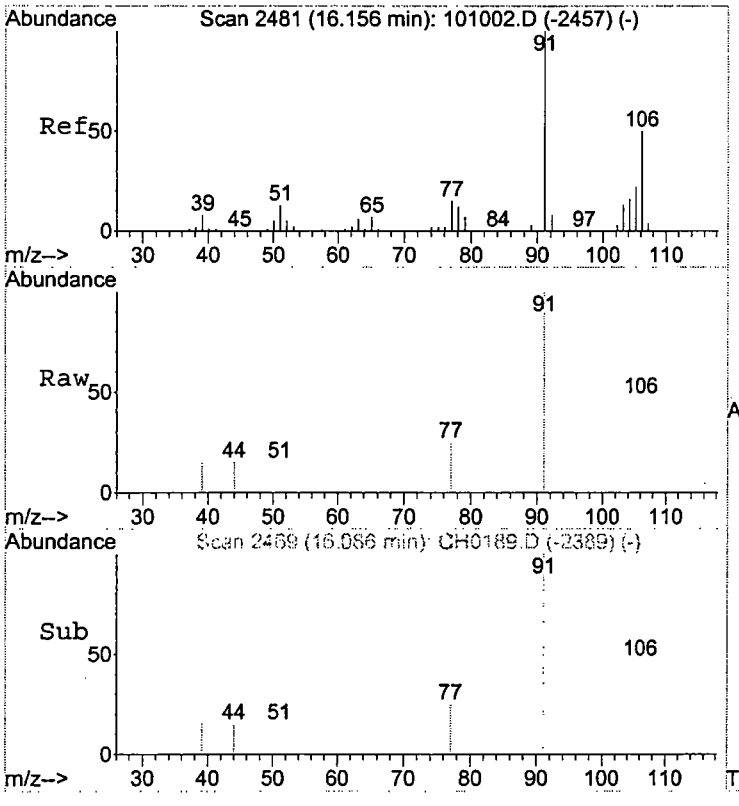
#64
m/p-Xylene
Concen: 0.20 PPB
RT: 15.14 min Scan# 2309
Delta R.T. -0.03 min
Lab File: CH0189.D
Acq: 12 Aug 2005 14:42

Tgt Ion: 91 Resp: 36325

Ion	Ratio	Lower	Upper
91	100		
106	0.0	43.1	64.7#



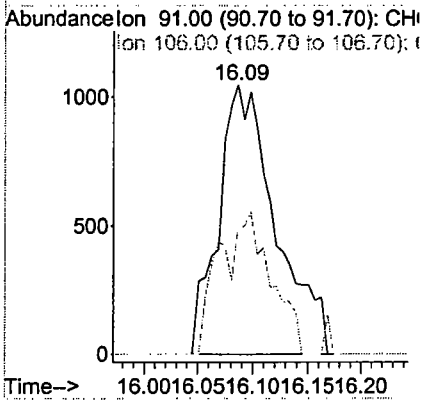
ORIGINAL



#65
o-Xylene
Concen: 0.23 PPB
RT: 16.09 min Scan# 2469
Delta R.T. -0.03 min
Lab File: CH0189.D
Acq: 12 Aug 2005 14:42

Tgt Ion: 91 Resp: 37945

Ion	Ratio	Lower	Upper
91	100		
106	0.0	41.1	61.7#



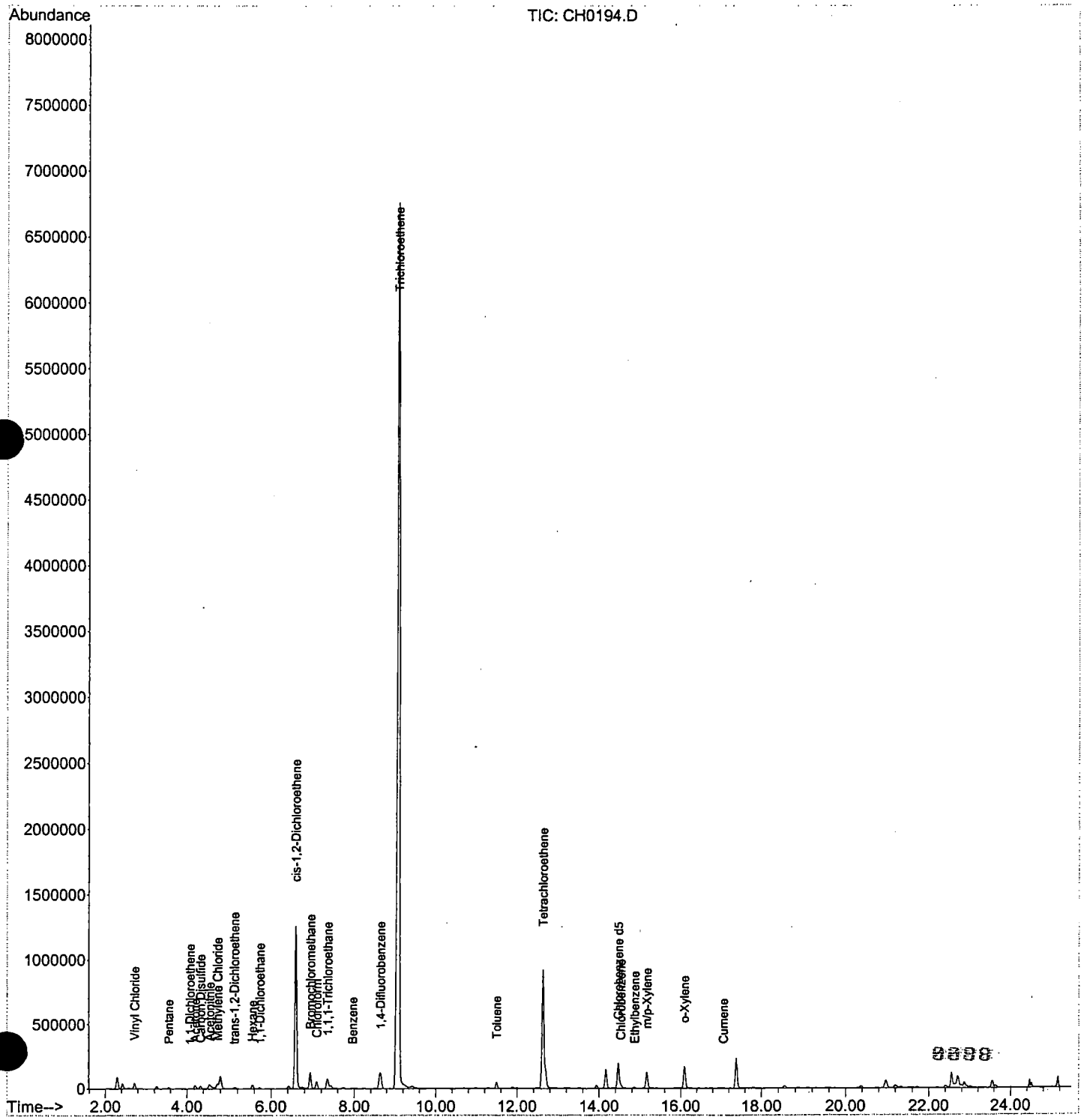
0887

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG12\
Data File : CH0194.D
Acq On : 12 Aug 2005 17:44
Operator : JBS
Sample : 4581595 DF500 500CC
Misc :
ALS Vial : 46 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 21 10:52:01 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG12\
Data File : CH0194.D
Acq On : 12 Aug 2005 17:44
Operator : JBS
Sample : 4581595 DF500 500CC
Misc :
ALS Vial : 46 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 21 10:52:01 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.94	130	629145	10.000			0.00
37) 1,4-Difluorobenzene	8.65	114	2151462	10.000			0.02
51) Chlorobenzene d5	14.47	117	2041876	10.000			0.00

Target Compounds							Qvalue
7) Vinyl Chloride	2.73	62	272627	4.353	PPB		95
13) Pentane	3.56	43	107158	0.802	PPB	#	87
15) 1,1-Dichloroethene	4.08	61	54357	0.515	PPB	#	72
17) Acetone	4.20	43	654206	6.481	PPB		88
19) Carbon Disulfide	4.33	76	482498	3.395	PPB	#	84
20) Acetonitrile	4.55	41	476902	4.872	PPB	#	65
22) Methylene Chloride	4.73	84	114744	2.766	PPB	#	89
25) trans-1,2-Dichloroethene	5.12	61	43236	0.456	PPB	#	69
27) Hexane	5.55	57	226328	2.078	PPB	#	86
28) 1,1-Dichloroethane	5.72	63	176897	1.523	PPB		96
30) cis-1,2-Dichloroethene	6.59	61	12998107	142.280	PPB		93
34) Chloroform	7.10	83	650629	5.397	PPB		98
35) 1,1,1-Trichloroethane	7.36	97	909603	6.320	PPB		98
39) Benzene	7.96	78	144923	1.003	PPB	#	78
42) Trichloroethene	9.08	130	53028223	530.309	PPB		99
52) Toluene	11.49	91	603449	3.001	PPB		98
57) Tetrachloroethene	12.63	166	4987137	41.102	PPB		98
61) Chlorobenzene	14.53	112	216325	1.311	PPB	#	89
63) Ethylbenzene	14.86	91	97795m	0.402	PPB		
64) m/p-Xylene	15.16	91	1339446	6.441	PPB		97
65) o-Xylene	16.10	91	1903656	9.771	PPB		94
68) Cumene	17.07	105	58566	0.218	PPB	#	52

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

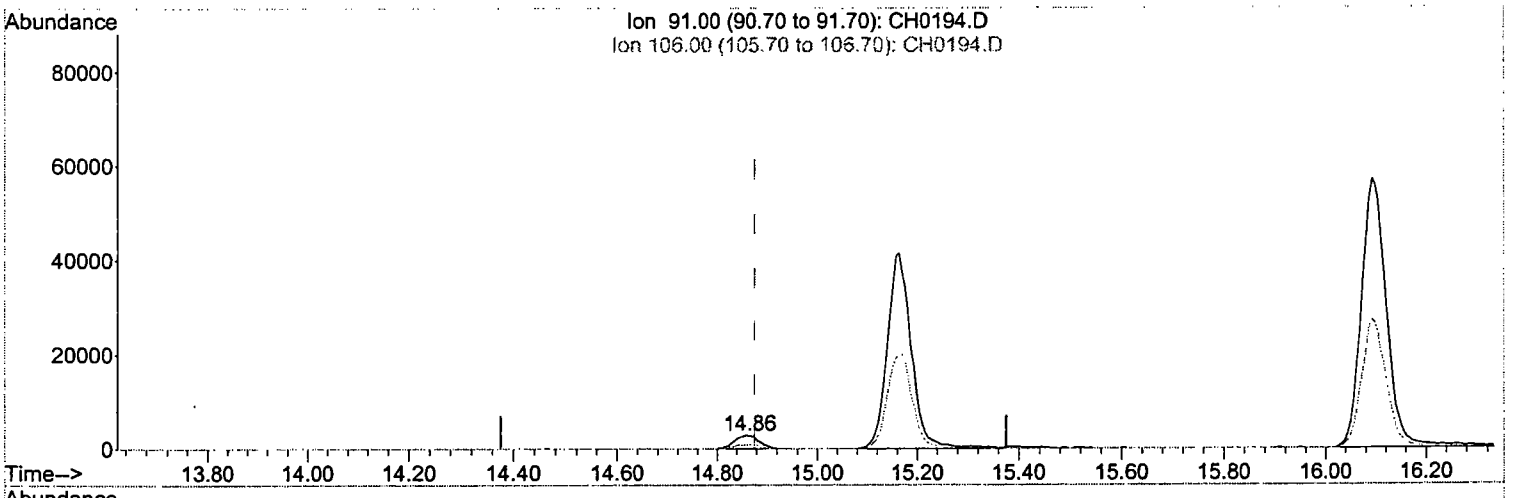
0089

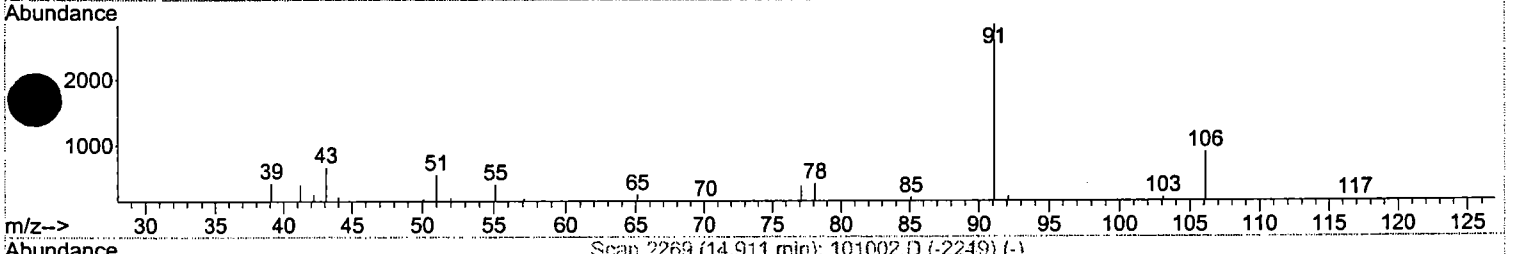
Quantitation Report (Qedit)

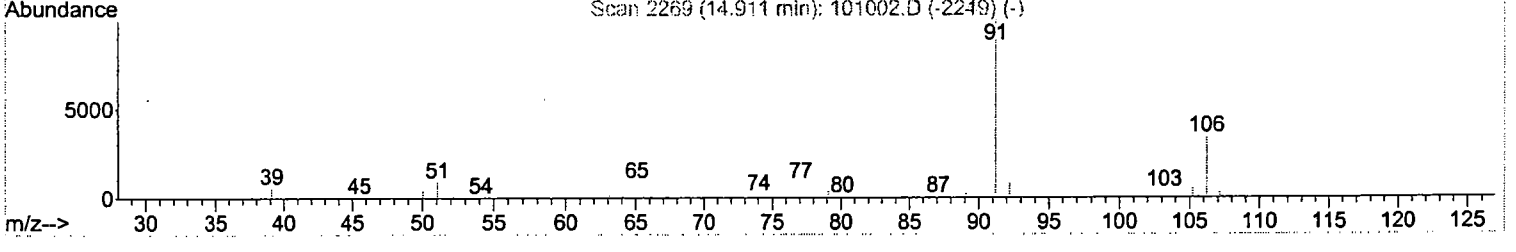
Data Path : C:\MSDChem\1\DATA\AUG12\
Data File : CH0194.D
Acq On : 12 Aug 2005 17:44
Operator : JBS
Sample : 4581595 DF500 500CC
Misc :
ALS Vial : 46 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 12 18:10:17 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration







TIC: CH0194.D

(63) Ethylbenzene

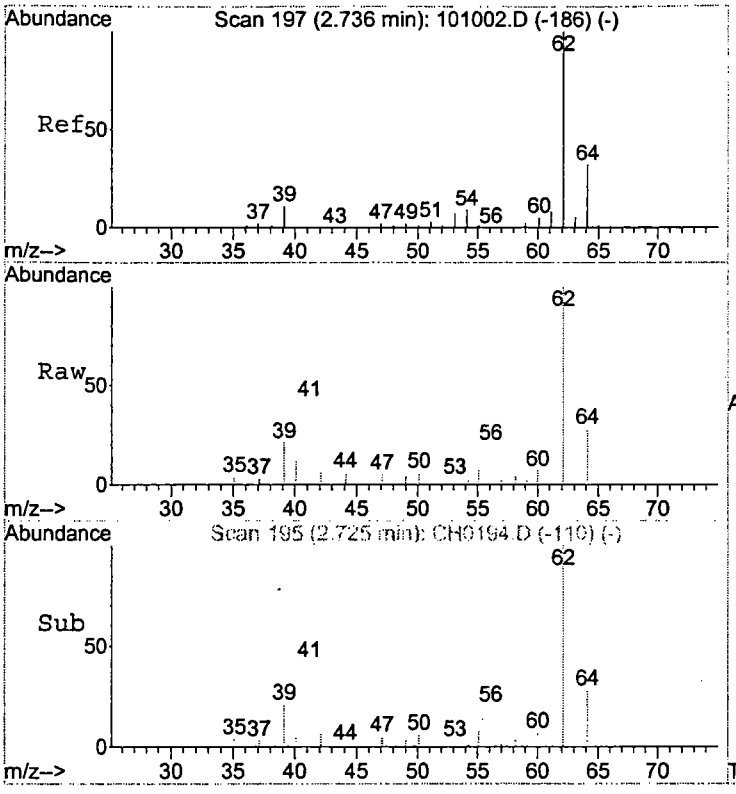
14.858min (-0.018) 0.40PPB m

response 97795

Ion	Exp%	Act%
91.00	100	100
106.00	34.60	714.74#
0.00	0.00	0.00
0.00	0.00	0.00

missed peak
8/20/05

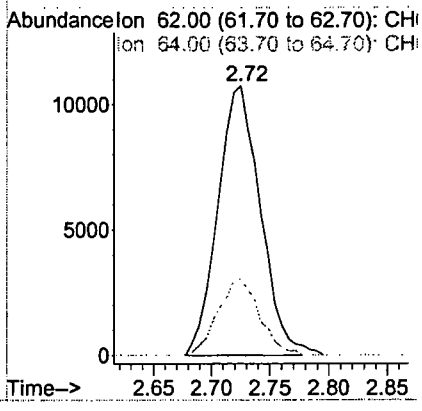
8890



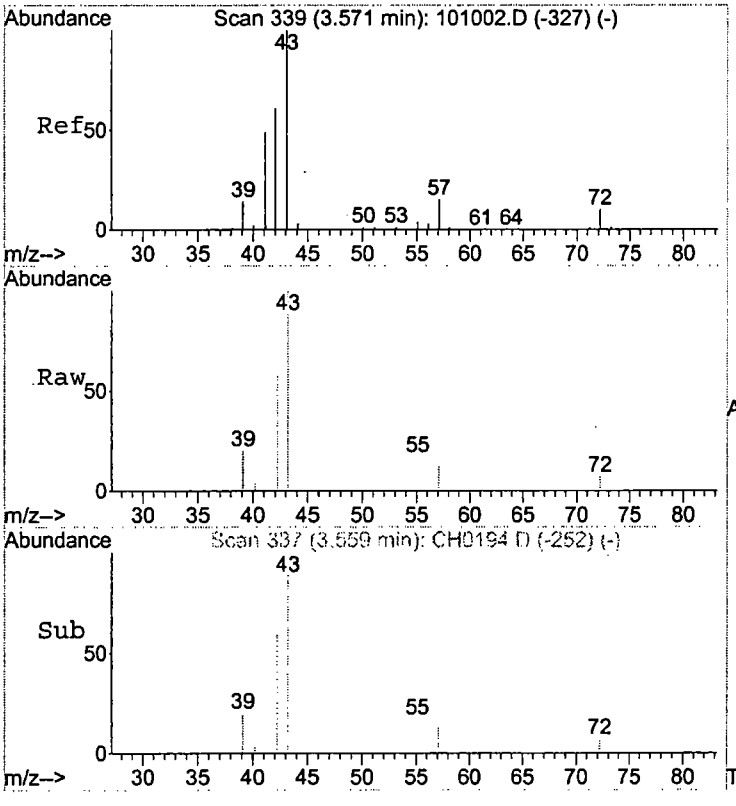
#7
Vinyl Chloride
Concen: 4.35 PPB
RT: 2.73 min Scan# 195
Delta R.T. -0.00 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

Tgt Ion: 62 Resp: 272627

Ion	Ratio	Lower	Upper
62	100		
64	27.8	24.6	36.8



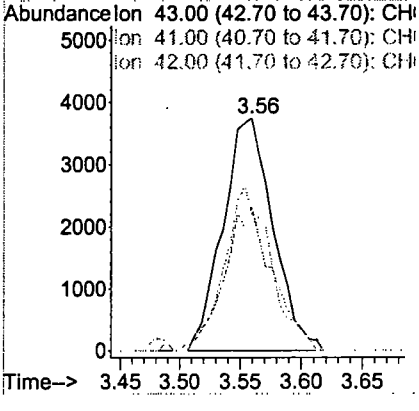
ORIGINAL



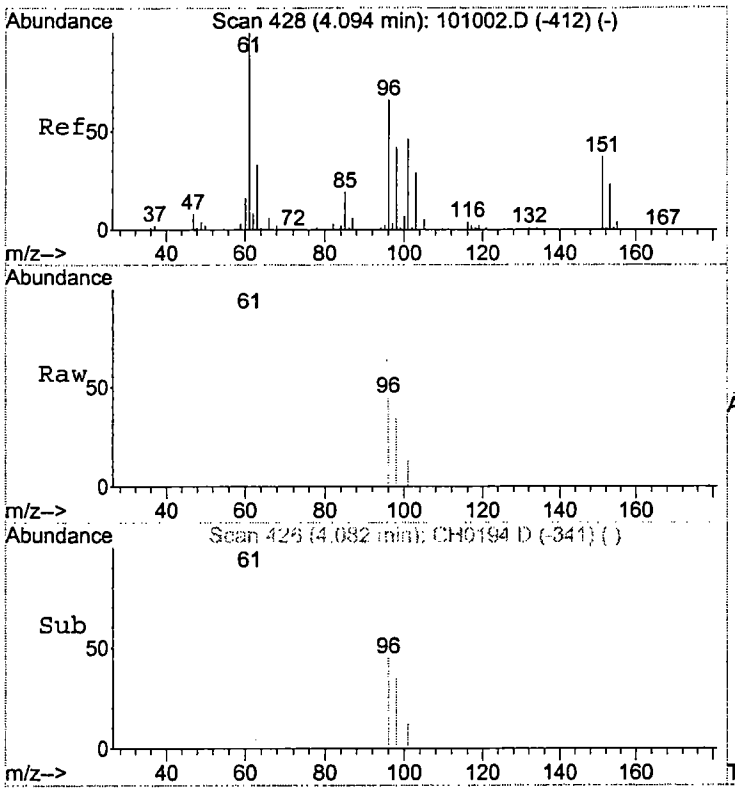
#13
Pentane
Concen: 0.80 PPB
RT: 3.56 min Scan# 337
Delta R.T. -0.00 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

Tgt Ion: 43 Resp: 107158

Ion	Ratio	Lower	Upper
43	100		
41	58.6	37.7	56.5#
42	67.7	47.8	71.8



0091

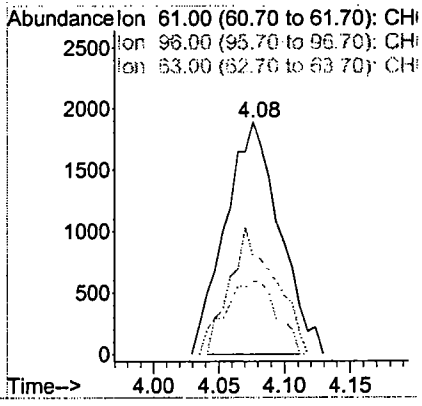


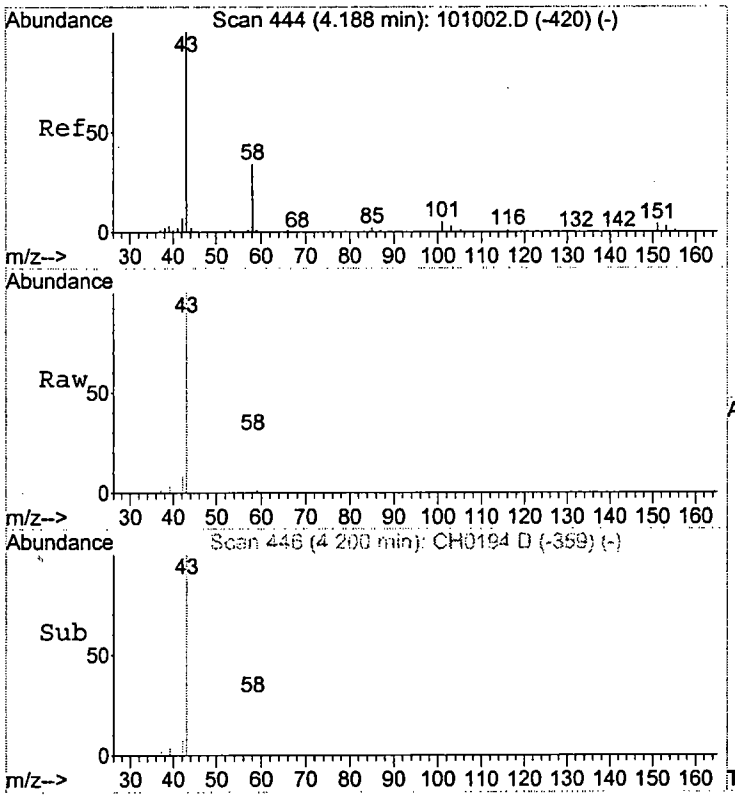
#15
1,1-Dichloroethene
Concen: 0.52 PPB
RT: 4.08 min Scan# 426
Delta R.T. -0.00 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

ORIGINAL

Tgt Ion: 61 Resp: 54357

Ion	Ratio	Lower	Upper
61	100		
96	46.2	44.5	66.7
63	0.0	24.4	36.6#

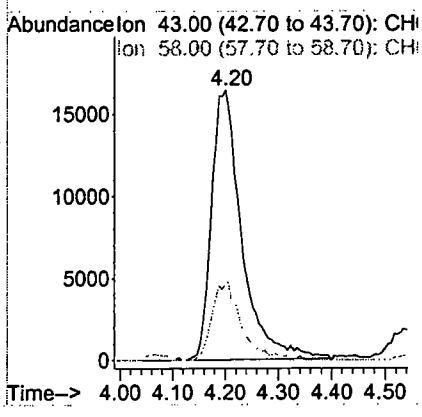




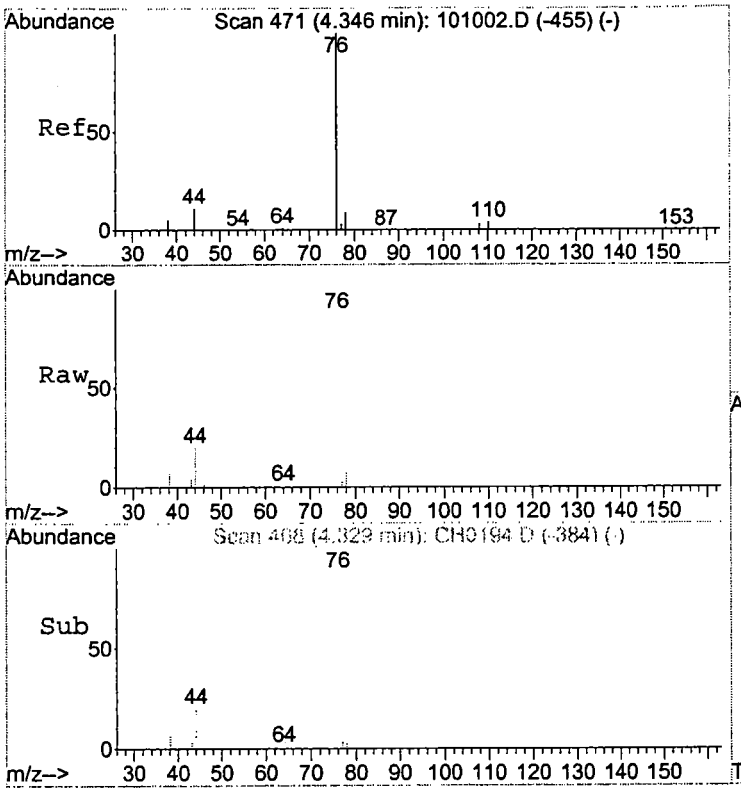
#17
Acetone
Concen: 6.48 PPB
RT: 4.20 min Scan# 446
Delta R.T. 0.01 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

Tgt Ion: 43 Resp: 654206

Ion	Ratio	Lower	Upper
43	100		
58	28.3	28.2	42.4



0092

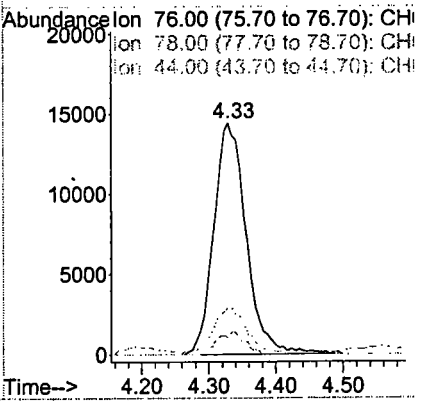


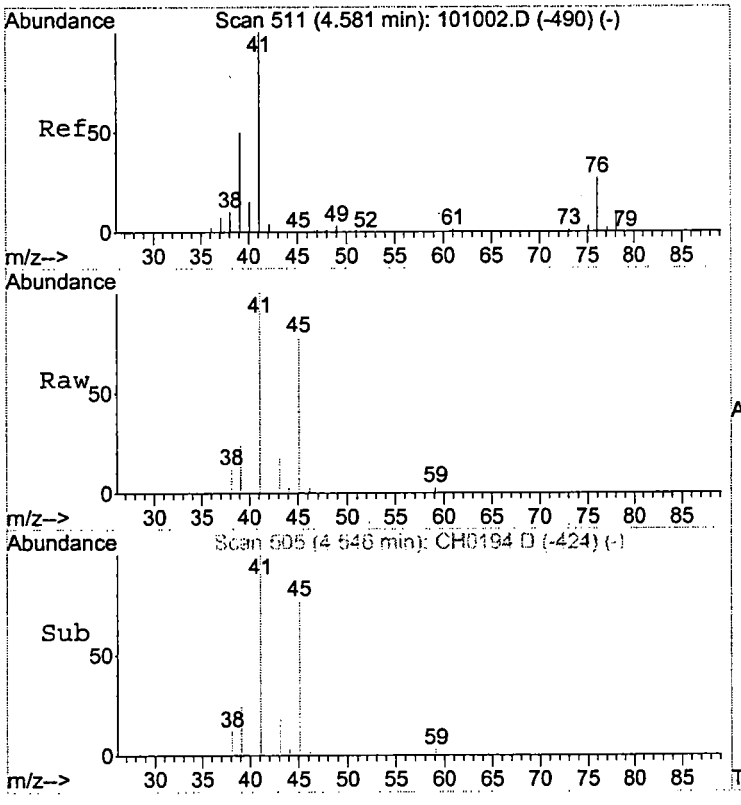
#19
Carbon Disulfide
Concen: 3.40 PPB
RT: 4.33 min Scan# 468
Delta R.T. -0.00 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

ORIGINAL

Tgt Ion: 76 Resp: 482498

Ion	Ratio	Lower	Upper
76	100		
78	0.0	7.4	11.0#
44	21.9	13.6	20.4#

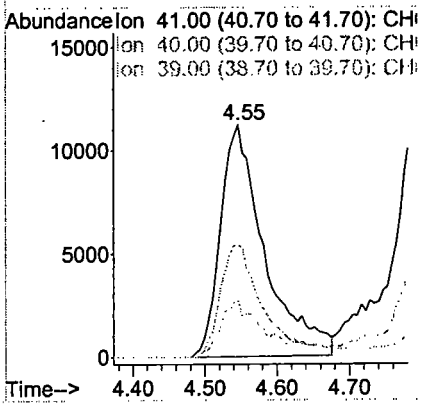




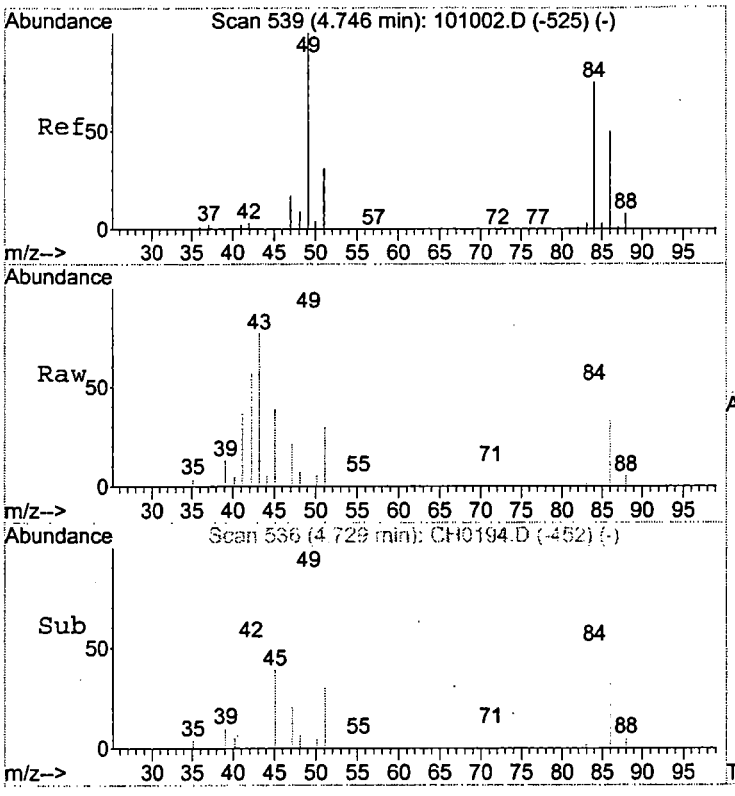
#20
Acetonitrile
Concen: 4.87 PPB
RT: 4.55 min Scan# 505
Delta R.T. -0.02 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

Tgt Ion: 41 Resp: 476902

Ion	Ratio	Lower	Upper
41	100		
40	44.1	19.8	29.8#
39	25.2	37.6	56.4#



2893

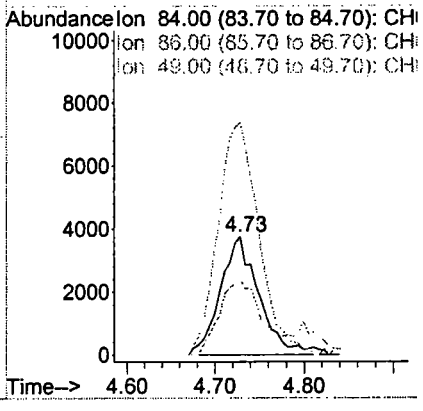


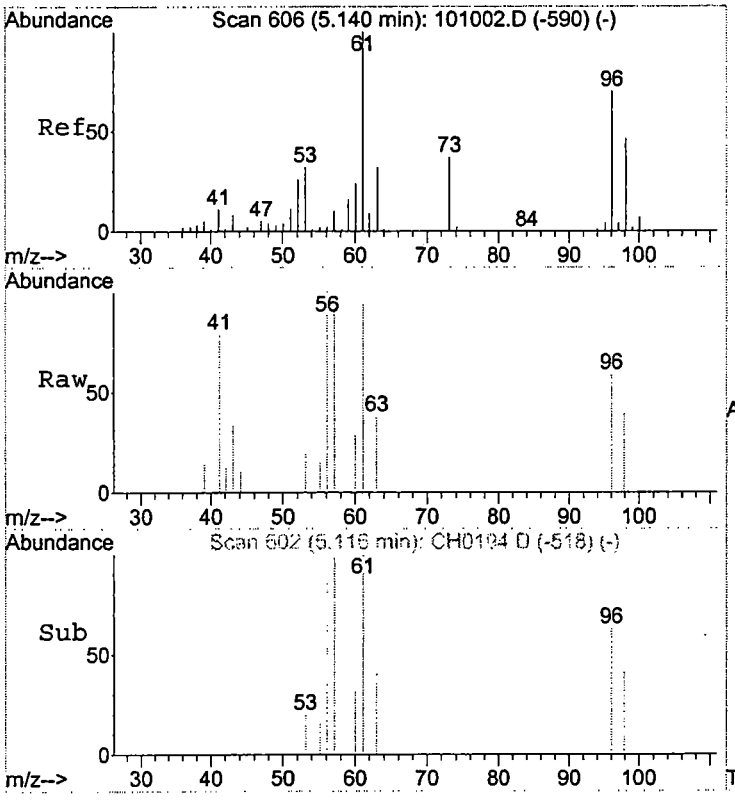
#22
Methylene Chloride
Concen: 2.77 PPB
RT: 4.73 min Scan# 536
Delta R.T. -0.00 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

ORIGINAL

Tgt Ion: 84 Resp: 114744

Ion	Ratio	Lower	Upper
84	100		
86	52.9	56.4	84.6#
49	205.5	155.8	233.6

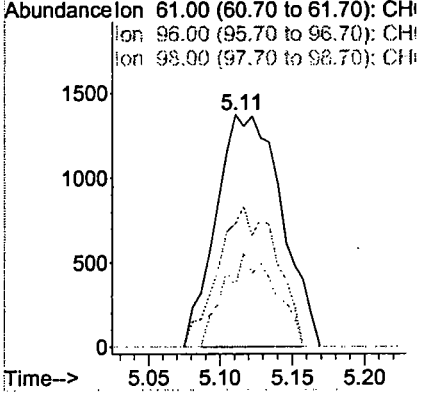




#25
trans-1,2-Dichloroethene
Concen: 0.46 PPB
RT: 5.12 min Scan# 602
Delta R.T. -0.01 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

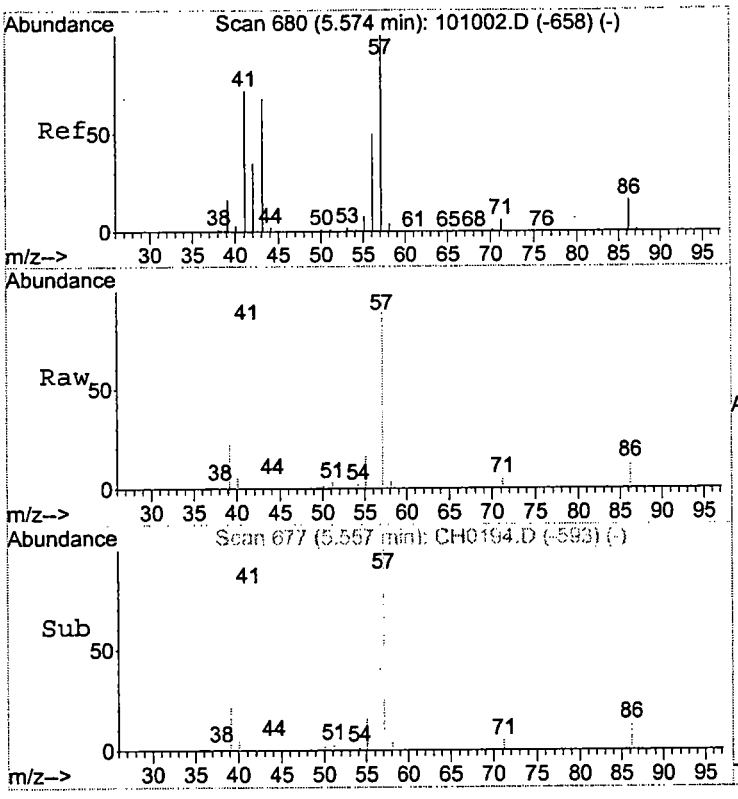
Tgt Ion: 61 Resp: 43236

Ion	Ratio	Lower	Upper
61	100		
96	53.7	49.0	73.6
98	0.0	31.8	47.6#



8894

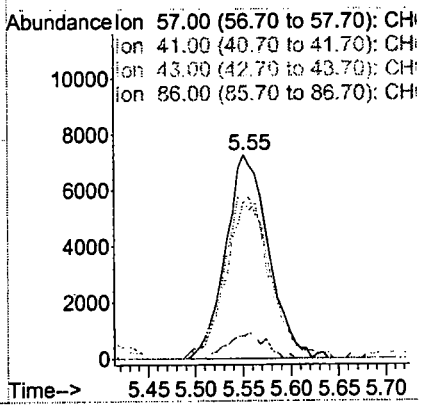
ORIGINAL

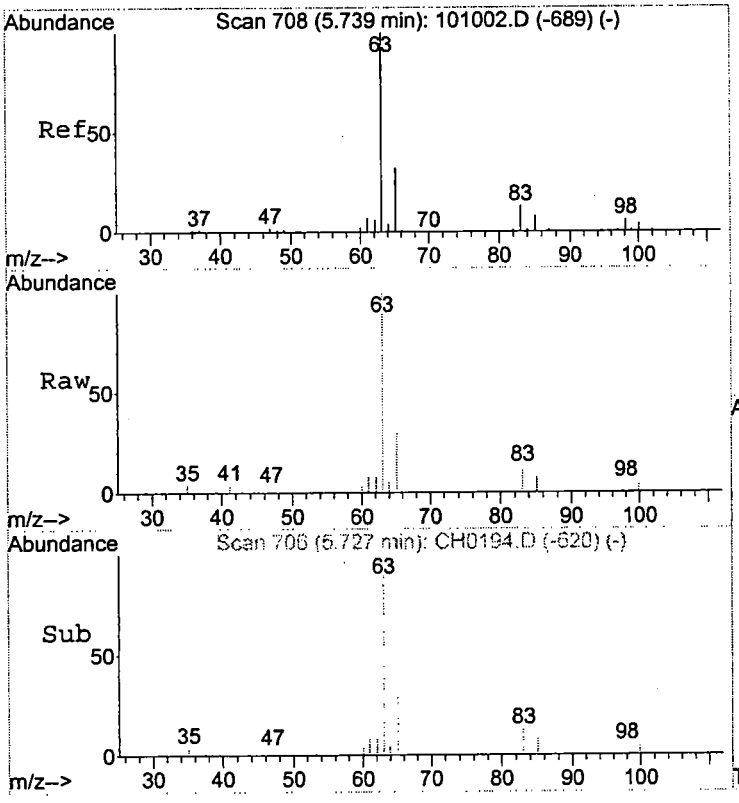


#27
Hexane
Concen: 2.08 PPB
RT: 5.55 min Scan# 677
Delta R.T. -0.01 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

Tgt Ion: 57 Resp: 226328

Ion	Ratio	Lower	Upper
57	100		
41	86.0	60.4	90.6
43	77.2	53.3	79.9
86	0.0	10.2	15.2#

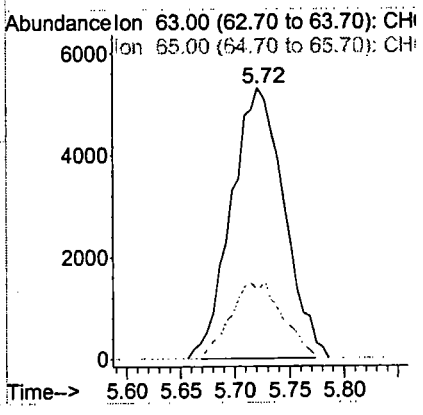




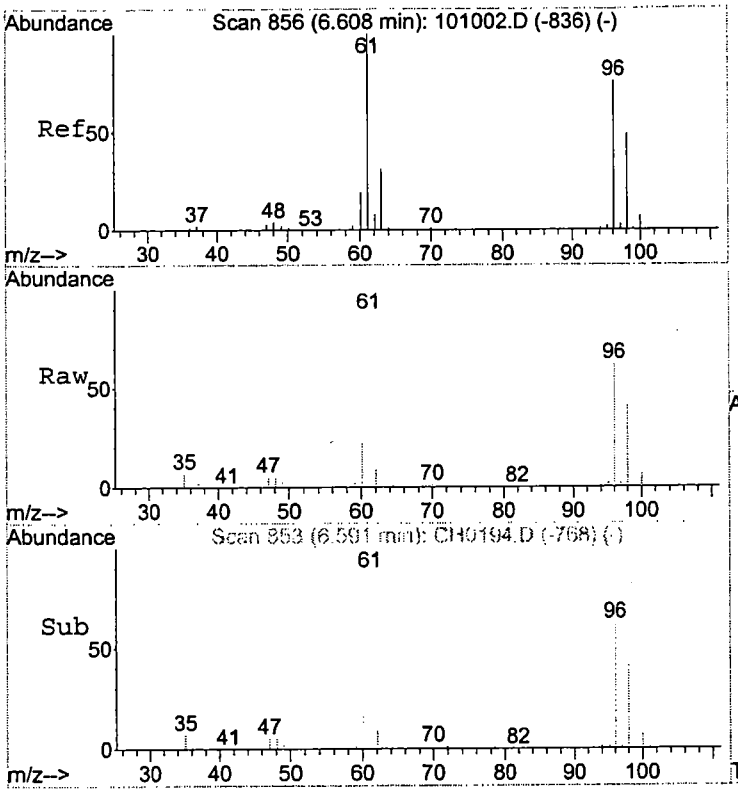
#28
1,1-Dichloroethane
Concen: 1.52 PPB
RT: 5.72 min Scan# 706
Delta R.T. 0.00 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

Tgt Ion: 63 Resp: 176897

Ion	Ratio	Lower	Upper
63	100		
65	27.5	23.7	35.5



8895

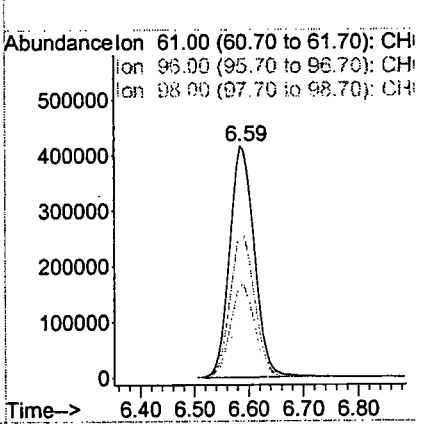


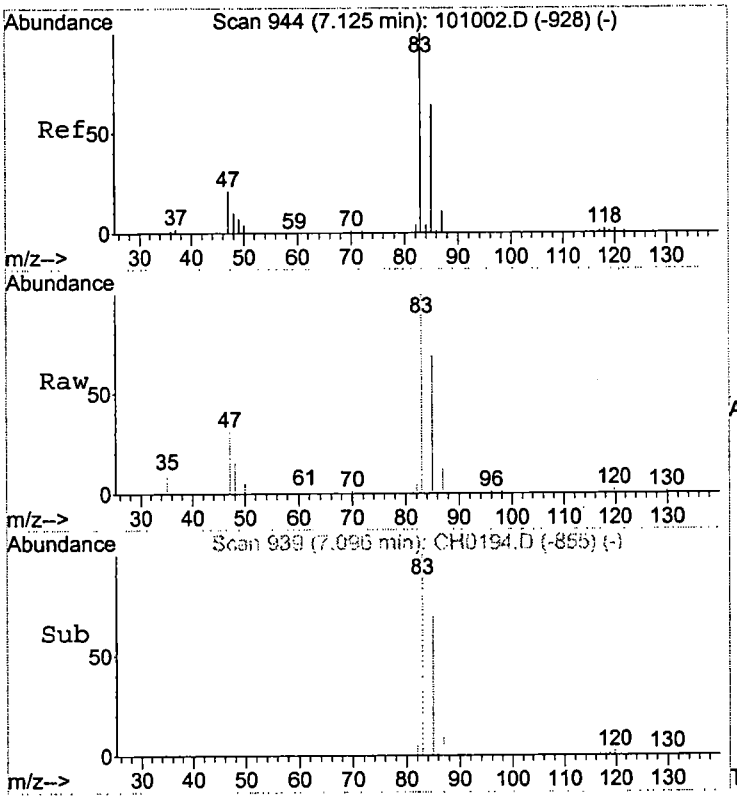
#30
cis-1,2-Dichloroethene
Concen: 142.28 PPB
RT: 6.59 min Scan# 853
Delta R.T. -0.00 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

ORIGINAL

Tgt Ion: 61 Resp:12998107

Ion	Ratio	Lower	Upper
61	100		
96	61.7	53.8	80.8
98	39.7	34.8	52.2

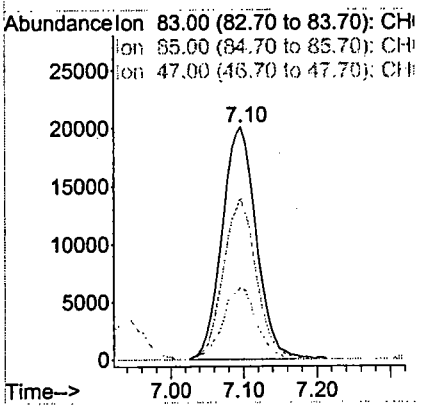




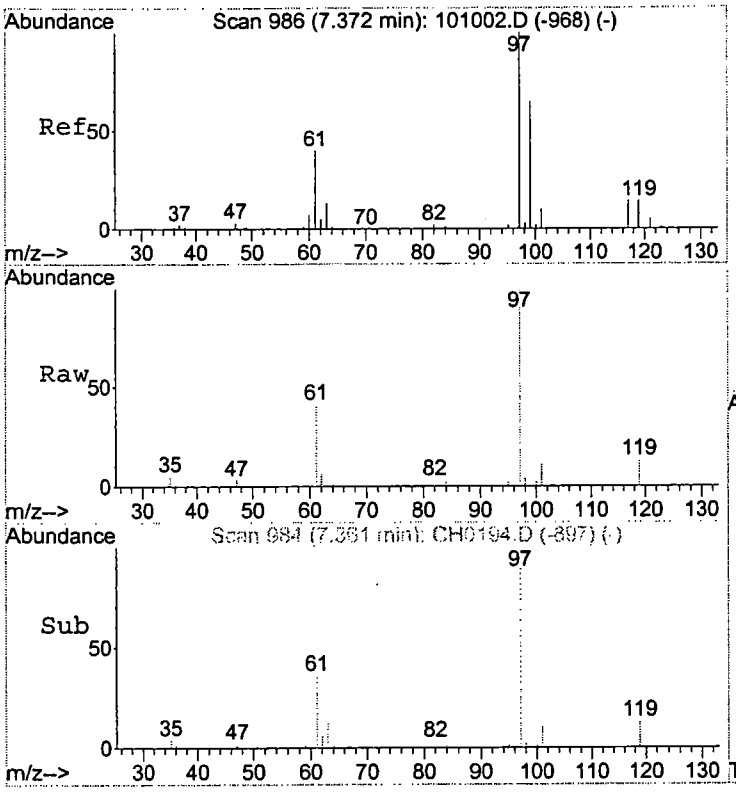
#34
Chloroform
Concen: 5.40 PPB
RT: 7.10 min Scan# 939
Delta R.T. -0.01 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

Tgt Ion: 83 Resp: 650629

Ion	Ratio	Lower	Upper
83	100		
85	66.9	54.9	82.3
47	30.6	23.1	34.7



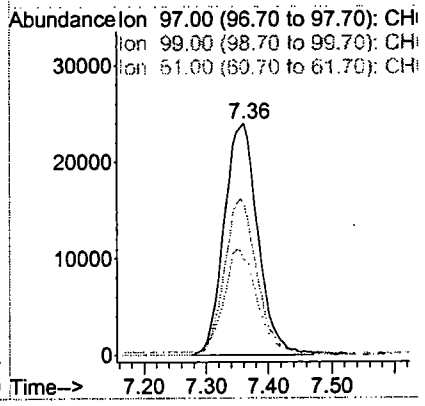
0096



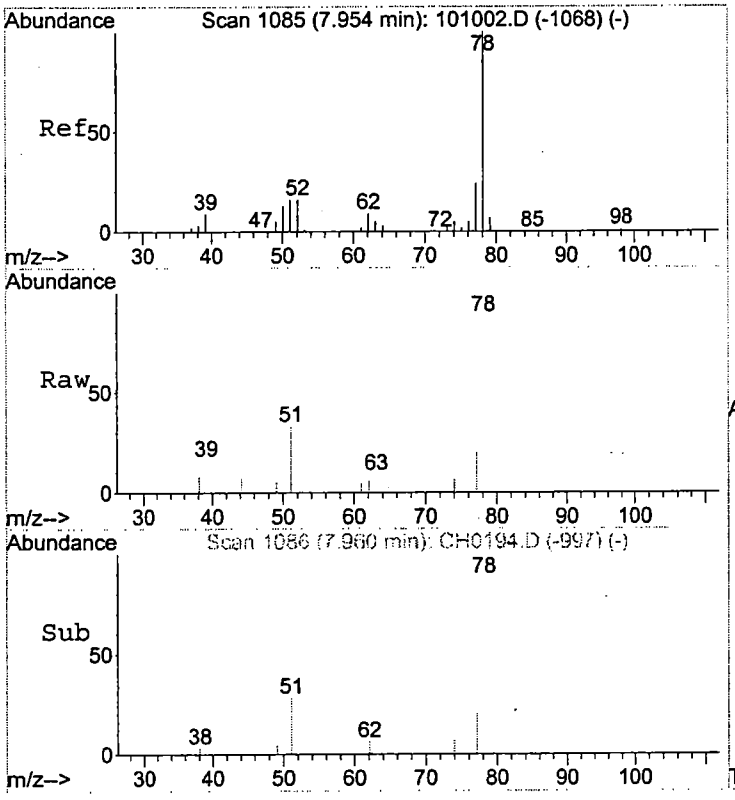
#35
1,1,1-Trichloroethane
Concen: 6.32 PPB
RT: 7.36 min Scan# 984
Delta R.T. 0.01 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

Tgt Ion: 97 Resp: 909603

Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.4	77.0
61	44.0	36.6	55.0



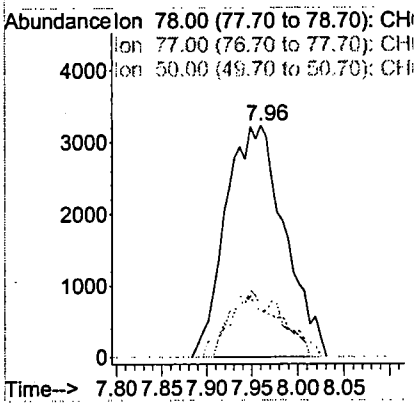
ORIGINAL



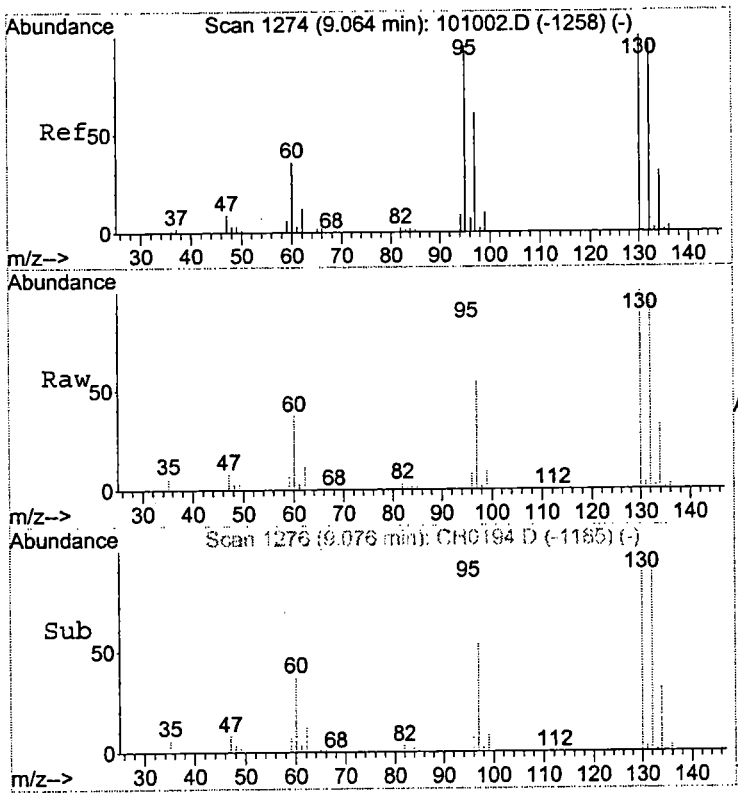
#39
Benzene
Concen: 1.00 PPB
RT: 7.96 min Scan# 1086
Delta R.T. 0.02 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

Tgt Ion: 78 Resp: 144923

Ion	Ratio	Lower	Upper
78	100		
77	22.7	18.6	27.8
50	0.0	16.9	25.3#



8897

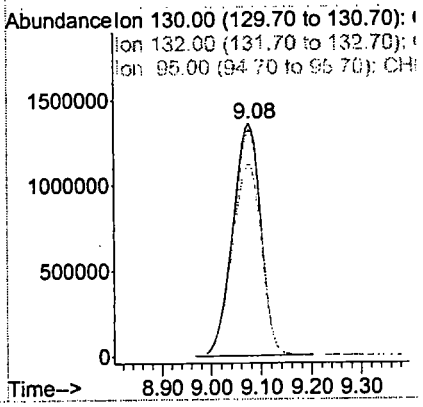


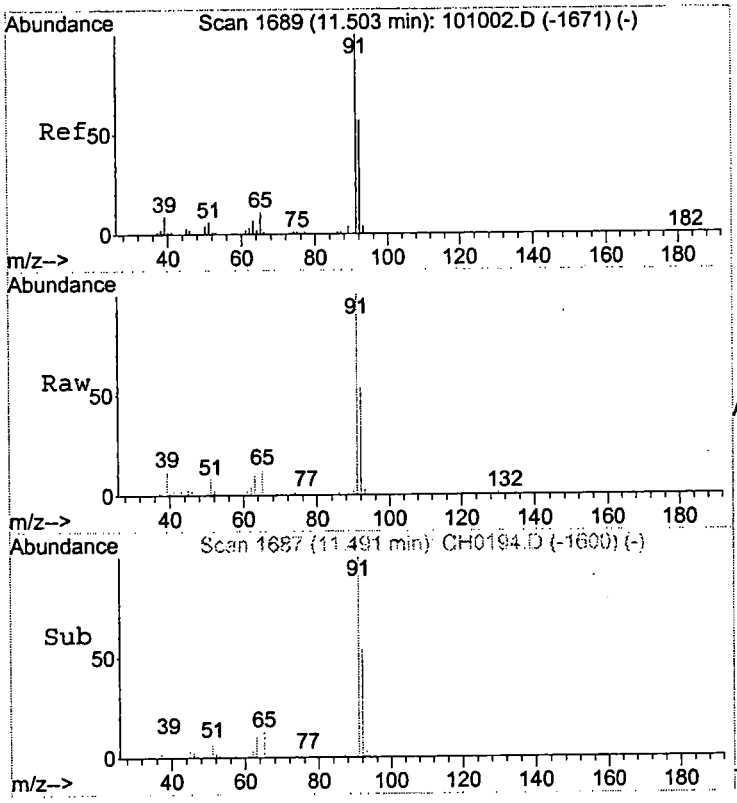
#42
Trichloroethene
Concen: 530.31 PPB
RT: 9.08 min Scan# 1276
Delta R.T. 0.03 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

ORIGINAL

Tgt Ion:130 Resp:53028223

Ion	Ratio	Lower	Upper
130	100		
132	96.4	77.6	116.4
95	85.4	67.4	101.2

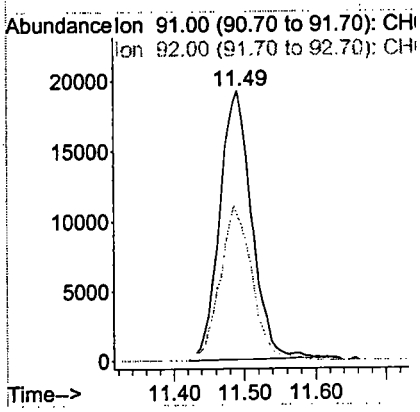




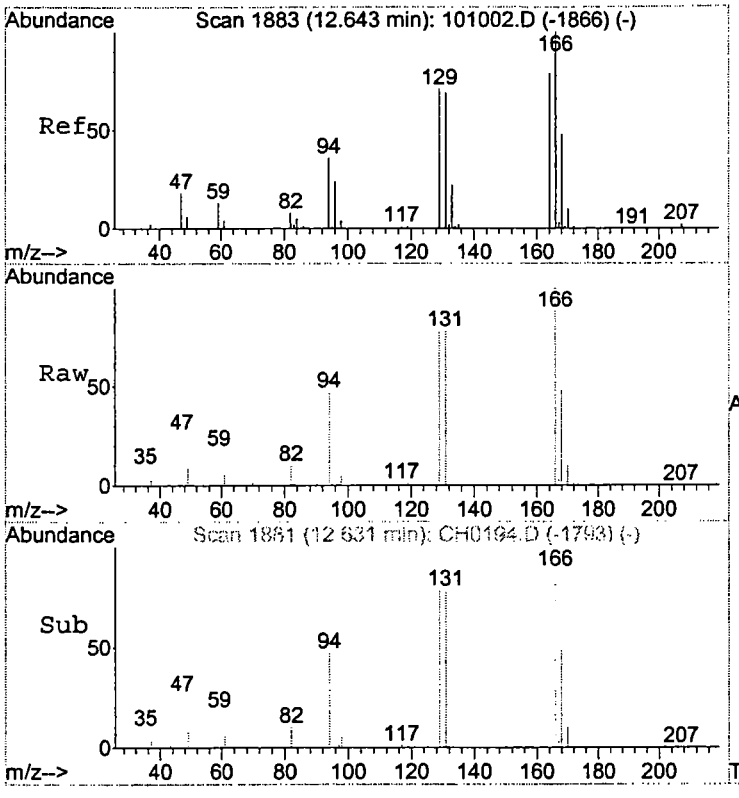
#52
Toluene
Concen: 3.00 PPB
RT: 11.49 min Scan# 1687
Delta R.T. 0.01 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

Tgt Ion: 91 Resp: 603449

Ion	Ratio	Lower	Upper
91	100		
92	57.8	47.2	70.8



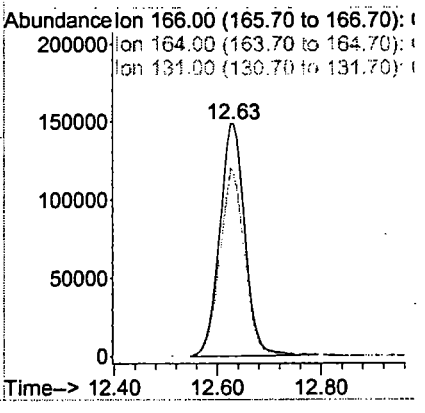
8898



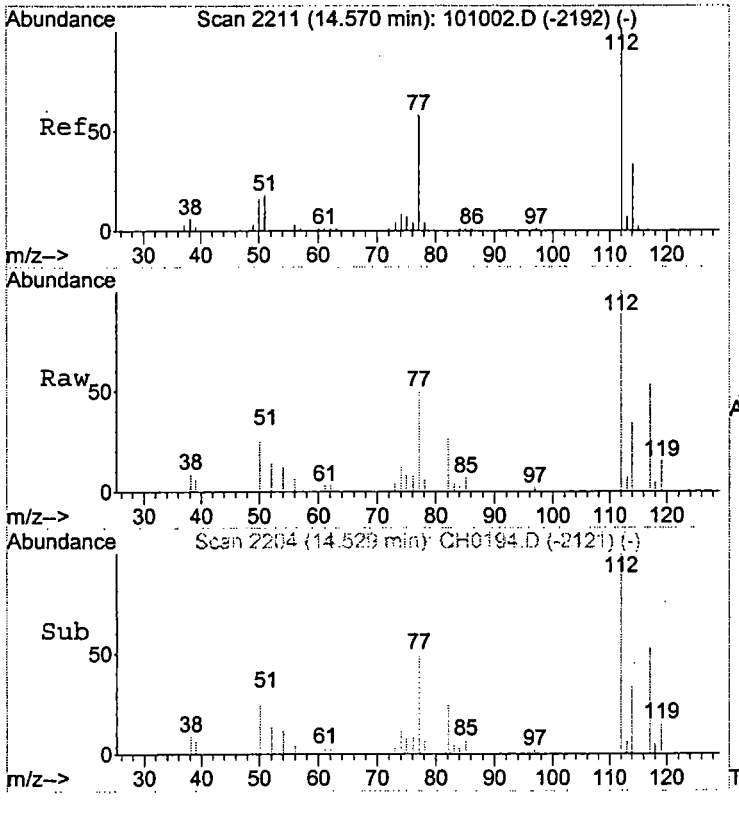
#57
Tetrachloroethene
Concen: 41.10 PPB
RT: 12.63 min Scan# 1881
Delta R.T. 0.02 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

Tgt Ion:166 Resp: 4987137

Ion	Ratio	Lower	Upper
166	100		
164	79.2	63.2	94.8
131	77.3	59.0	88.4



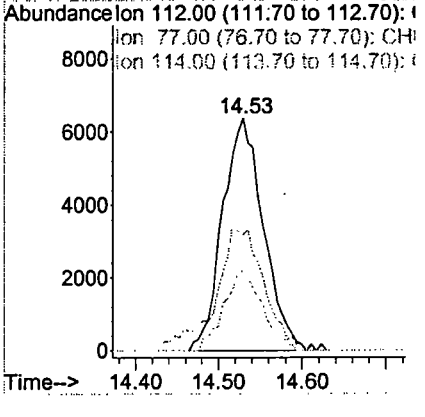
ORIGINAL



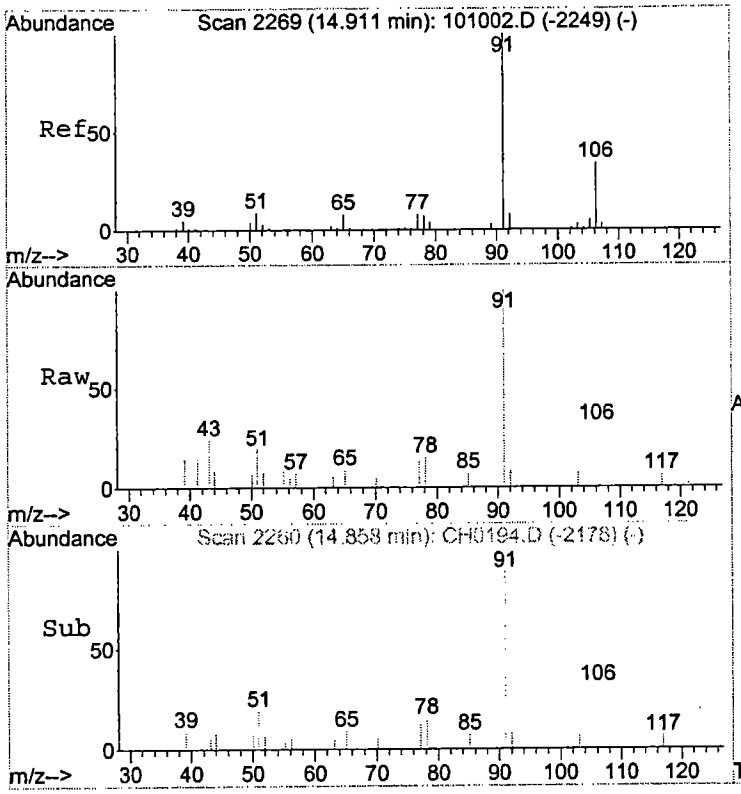
#61
Chlorobenzene
Concen: 1.31 PPB
RT: 14.53 min Scan# 2204
Delta R.T. -0.01 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

Tgt Ion:112 Resp: 216325

Ion	Ratio	Lower	Upper
112	100		
77	63.1	40.4	60.6#
114	32.4	25.9	38.9



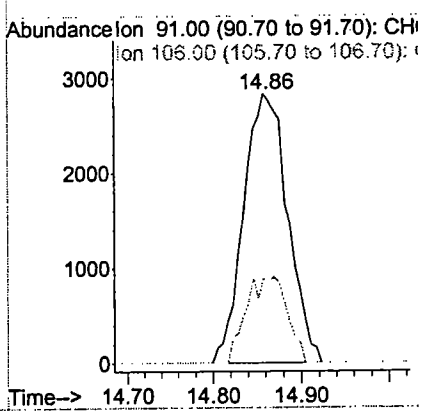
0899



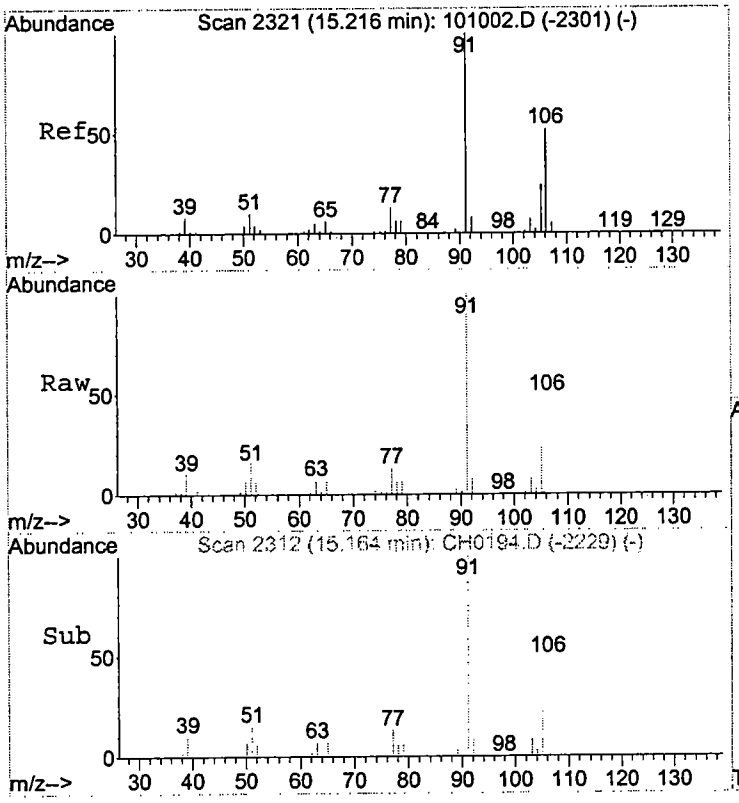
#63
Ethylbenzene
Concen: 0.40 PPB m
RT: 14.86 min Scan# 2260
Delta R.T. -0.02 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

Tgt Ion: 91 Resp: 97795

Ion	Ratio	Lower	Upper
91	100		
106	714.7	27.7	41.5#



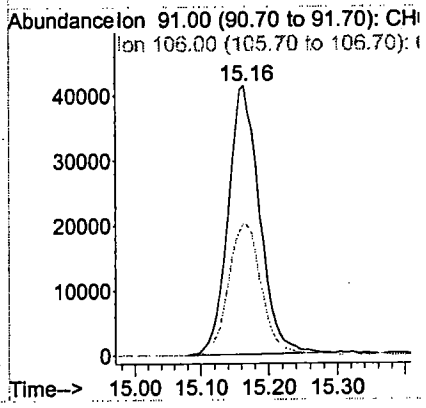
ORIGINAL

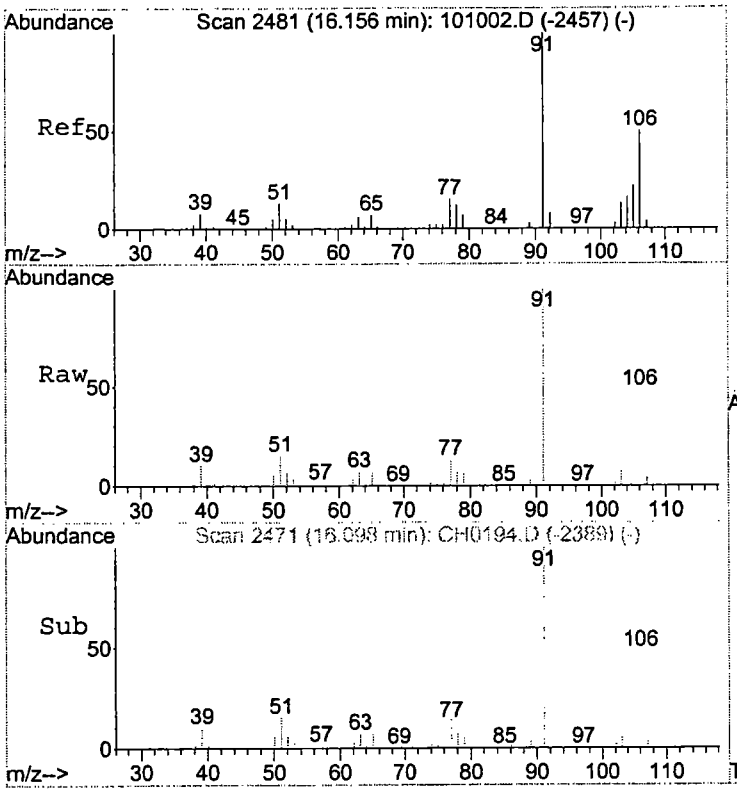


#64
m/p-Xylene
Concen: 6.44 PPB
RT: 15.16 min Scan# 2312
Delta R.T. -0.01 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

Tgt Ion: 91 Resp: 1339446

Ion	Ratio	Lower	Upper
91	100		
106	51.9	43.1	64.7

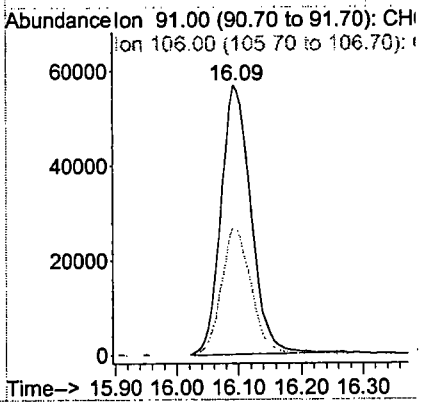




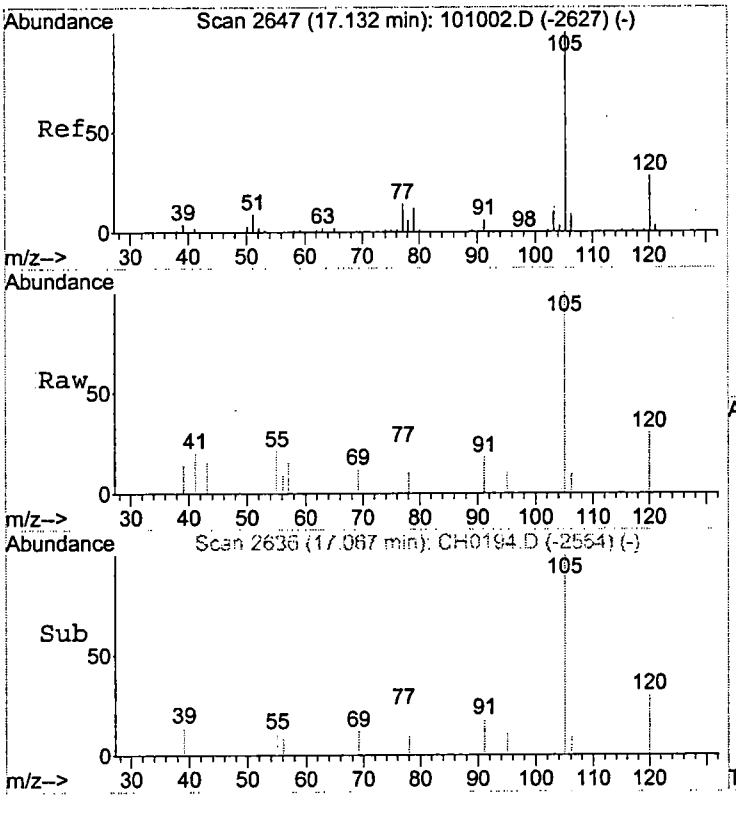
#65
o-Xylene
Concen: 9.77 PPB
RT: 16.10 min Scan# 2471
Delta R.T. -0.02 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

Tgt Ion: 91 Resp: 1903656

Ion	Ratio	Lower	Upper
91	100		
106	47.4	41.1	61.7



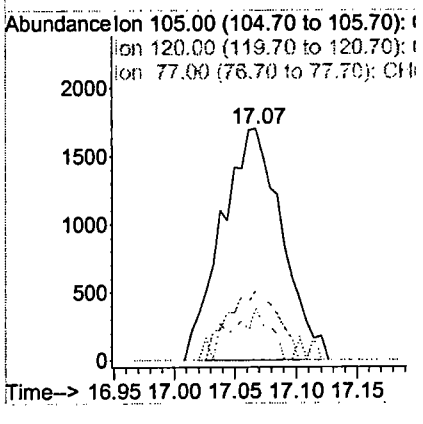
ORIGINAL



#68
Cumene
Concen: 0.22 PPB
RT: 17.07 min Scan# 2636
Delta R.T. -0.02 min
Lab File: CH0194.D
Acq: 12 Aug 2005 17:44

Tgt Ion:105 Resp: 58566

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
77	0.0	10.4	15.6#



8181

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

ORIGINAL

Sample No.: TOB31 Date Collected: 08/10/05 Date Received: 08/11/05
Lab Sample ID: 4581595 Date Analyzed: 08/12/05 Time Analyzed: 17:44
Canister ID: SUMMA0239 Pressure Rec'd: 12.1 psia Final Pressure: 24.2 psia
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 500.0
Instrument ID: HP0946 Lab File ID: C:\MSDCHEM\1\DATA\AUG12\CH0194.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
74-98-6	Unknown	2.42	1400	J D
107-83-5	Pentane, 2-methyl-	4.80	4500	J D
78-99-9	Unknown	9.43	1200	J D
619-99-8	Unknown Alkane	14.17	3400	J D
112-95-8	Unknown Alkane	20.97	1800	J D
1632-70-8	unknown Alkane	22.55	2700	J D
17301-32-5	Unknown Alkane	22.70	2600	J D
17301-32-5	Unknown Alkane	22.86	1100	J D
541-02-6	Siloxane	23.56	1300	J D
112-31-2	Unknown	25.16	1200	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.

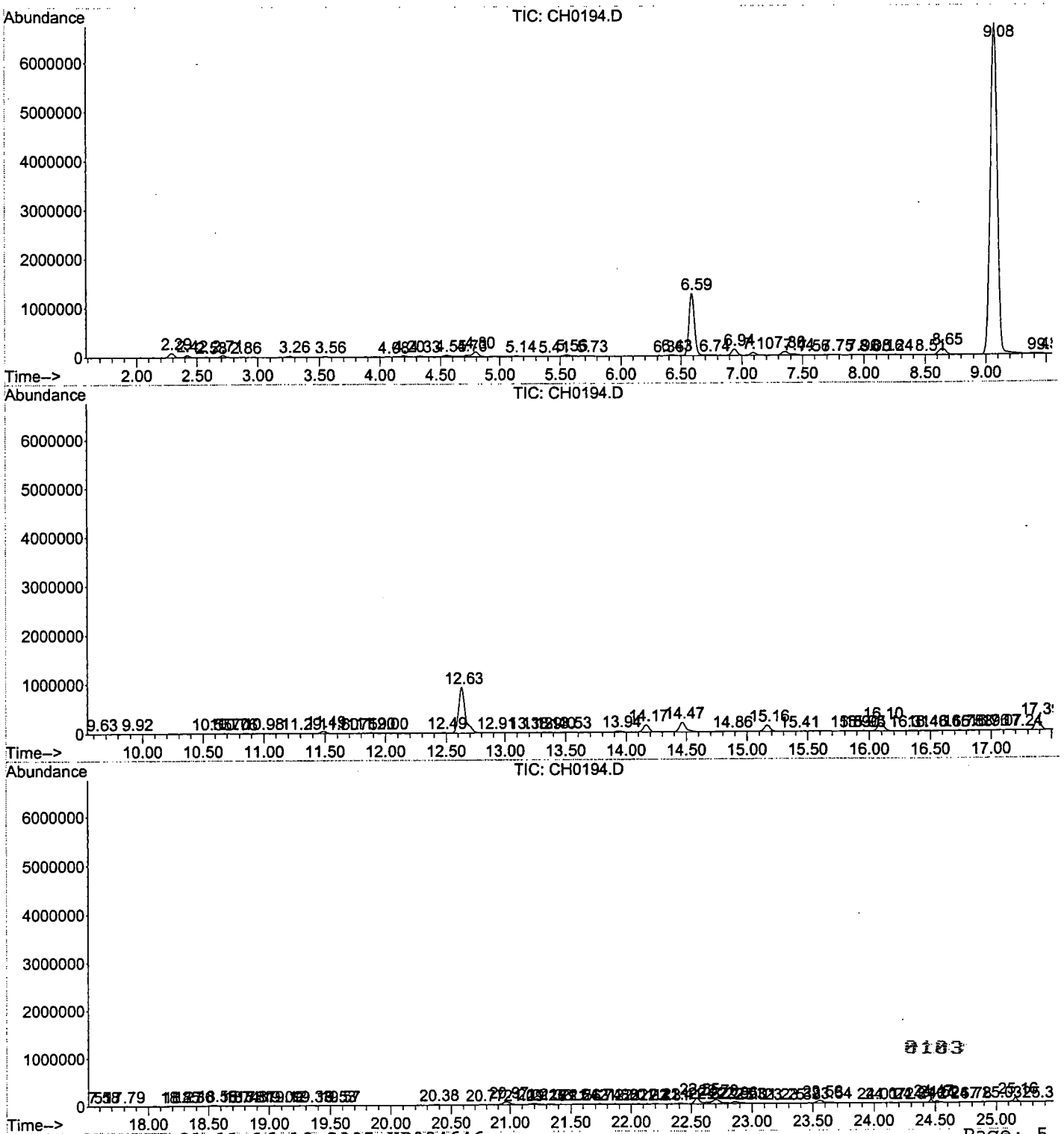
LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0194.D
Acq On : 12 Aug 2005 17:44
Operator : JBS
Sample : 4581595 DF500 500CC
Misc :
ALS Vial : 46 Sample Multiplier: 1

ORIGINAL

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0194.D
Acq On : 12 Aug 2005 17:44
Operator : JBS
Sample : 4581595 DF500 500CC
Misc :
ALS Vial : 46 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

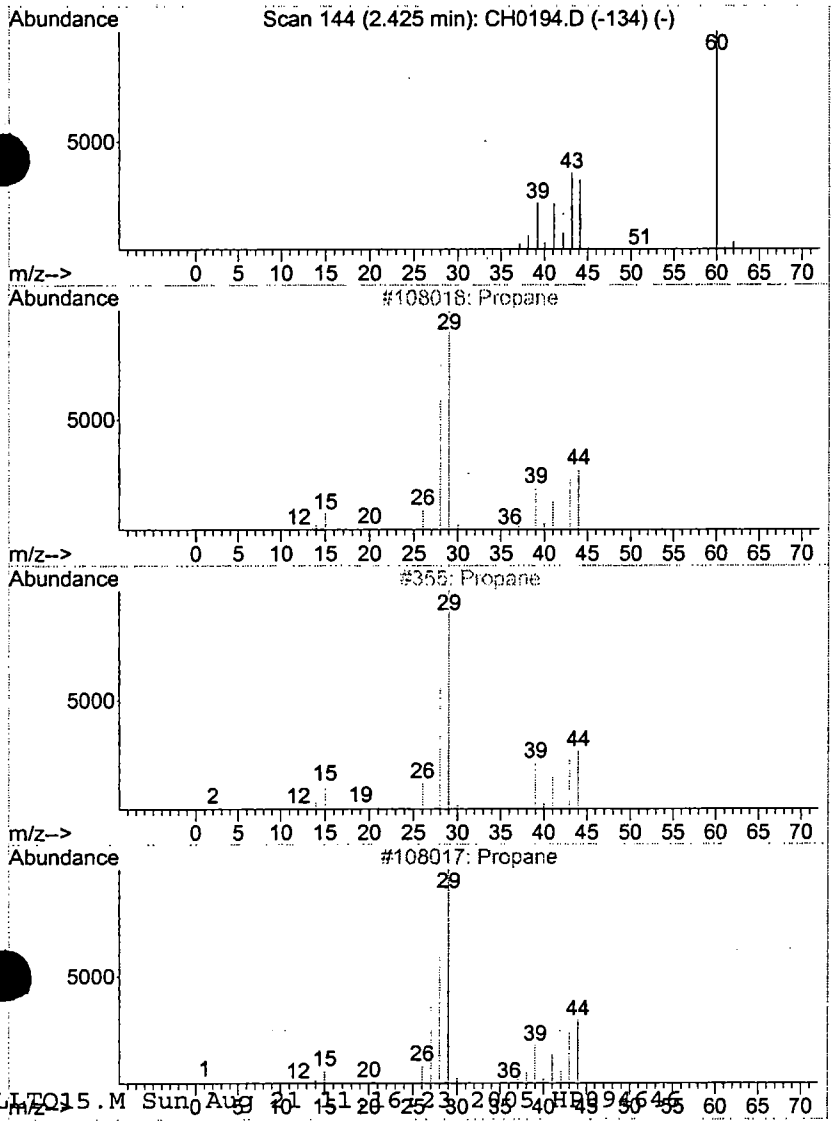
Unknown

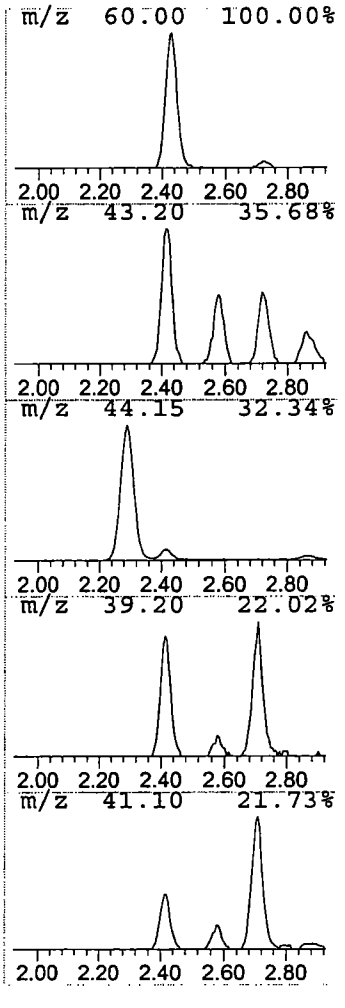
****

Peak Number 2 Propane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.42	2.86	1176380	Bromochloromethane	6.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane	44	C3H8	000074-98-6	10
2	Propane	44	C3H8	000074-98-6	9
3	Propane	44	C3H8	000074-98-6	9
4	Urea	60	CH4N2O	000057-13-6	7
5	Carbonyl sulfide	60	COS	000463-58-1	5





0184

Library Search Compound Report

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0194.D
Acq On : 12 Aug 2005 17:44
Operator : JBS
Sample : 4581595 DF500 500CC
Misc :
ALS Vial : 46 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

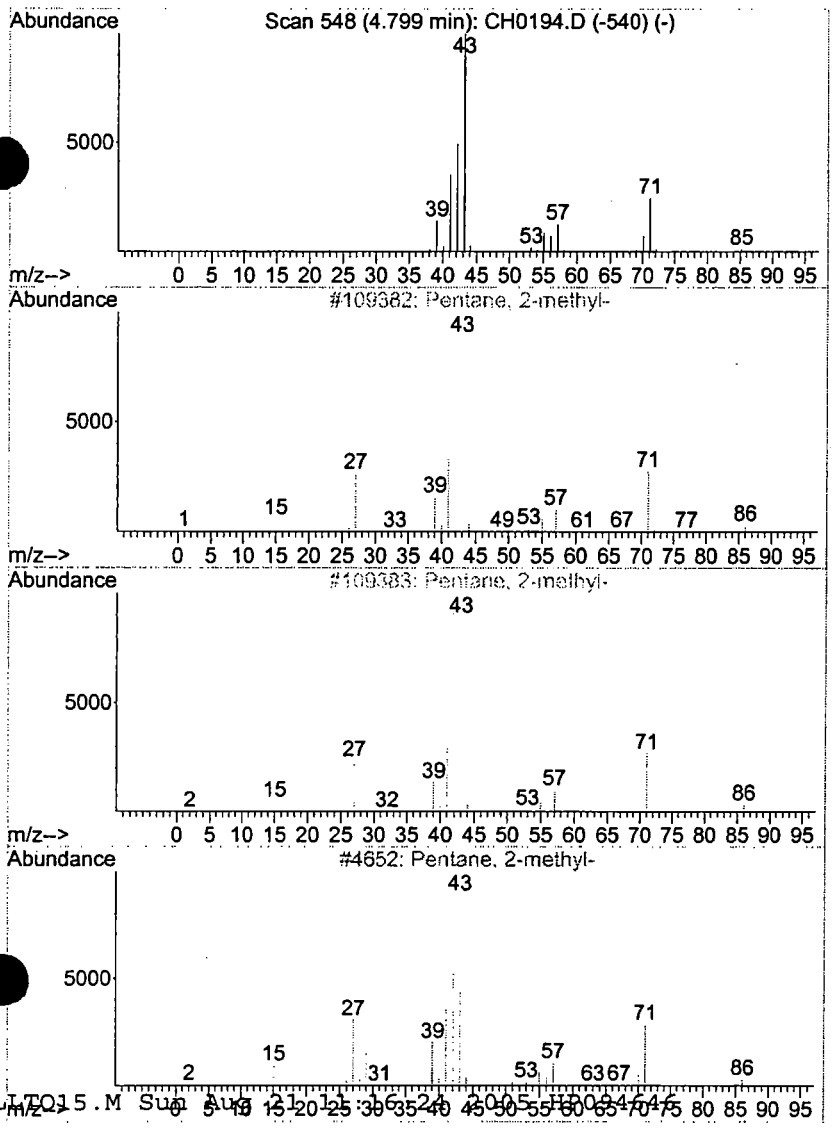
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

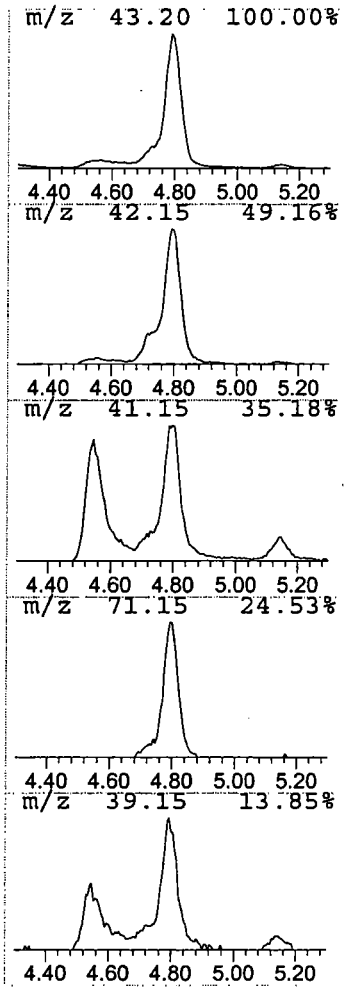
****

Peak Number 3 Pentane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.80	9.09	3732420	Bromochloromethane	6.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	83
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	83
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	78
4	Pentane	72	C5H12	000109-66-0	33
5	Pentane	72	C5H12	000109-66-0	33





0105

Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0194.D
Acq On : 12 Aug 2005 17:44
Operator : JBS
Sample : 4581595 DF500 500CC
Misc :
ALS Vial : 46 Sample Multiplier: 1

ORIGINAL

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

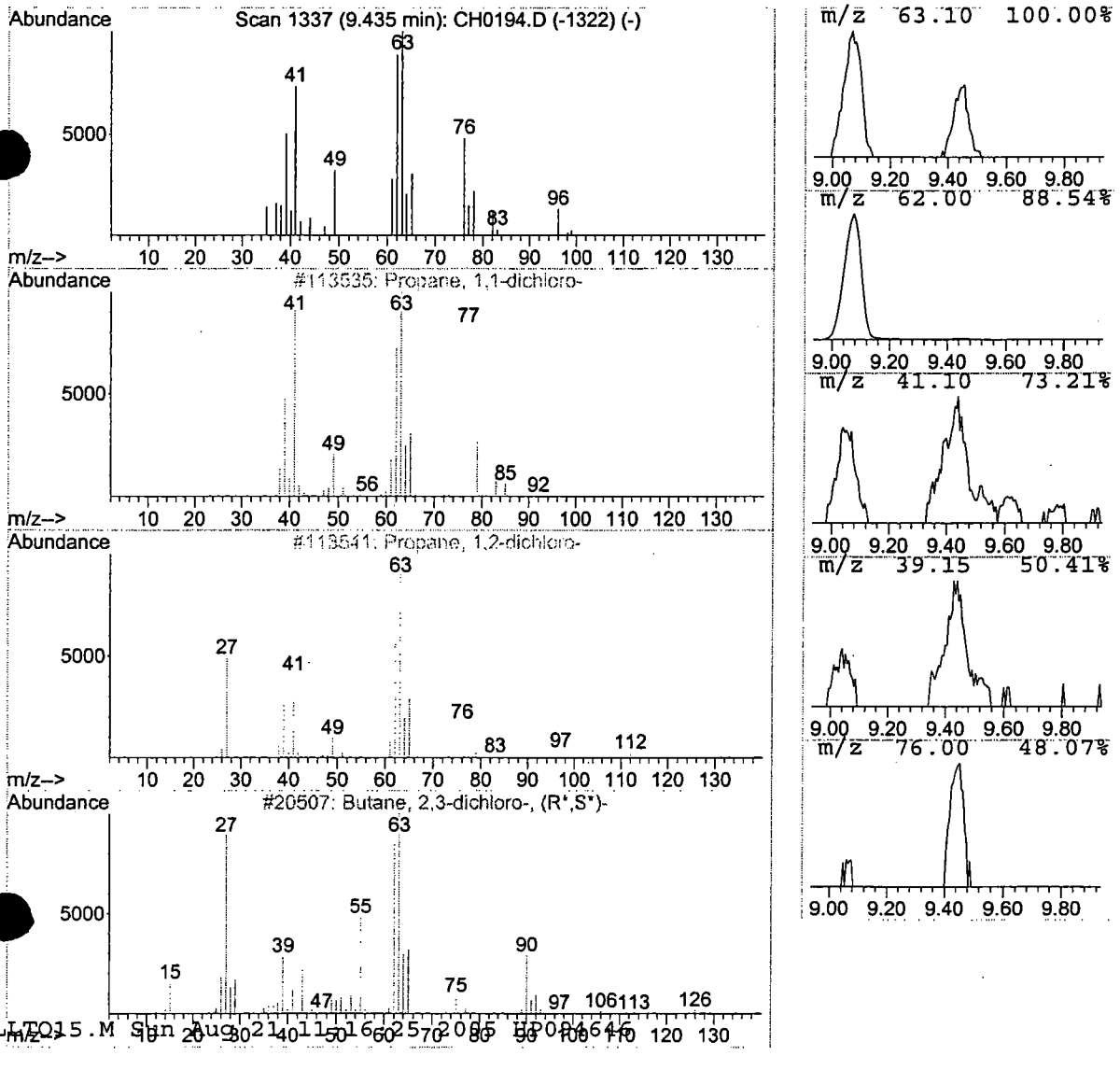
[redacted]

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 4 Propane, 1,1-dichloro- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.43	2.31	1199860	1,4-Difluorobenzene	8.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 1,1-dichloro-	112	C3H6Cl2	000078-99-9	72
2	Propane, 1,2-dichloro-	112	C3H6Cl2	000078-87-5	59
3	Butane, 2,3-dichloro-, (R*,S*)-	126	C4H8Cl2	004028-56-2	45
4	Butane, 2,3-dichloro-	126	C4H8Cl2	007581-97-7	45
5	Butane, 2,3-dichloro-, (R*,R*)-(...	126	C4H8Cl2	002211-67-8	45



0106

Library Search Compound Report

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0194.D
Acq On : 12 Aug 2005 17:44
Operator : JBS
Sample : 4581595 DF500 500CC
Misc :
ALS Vial : 46 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15[redacted]
Quant Title :

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

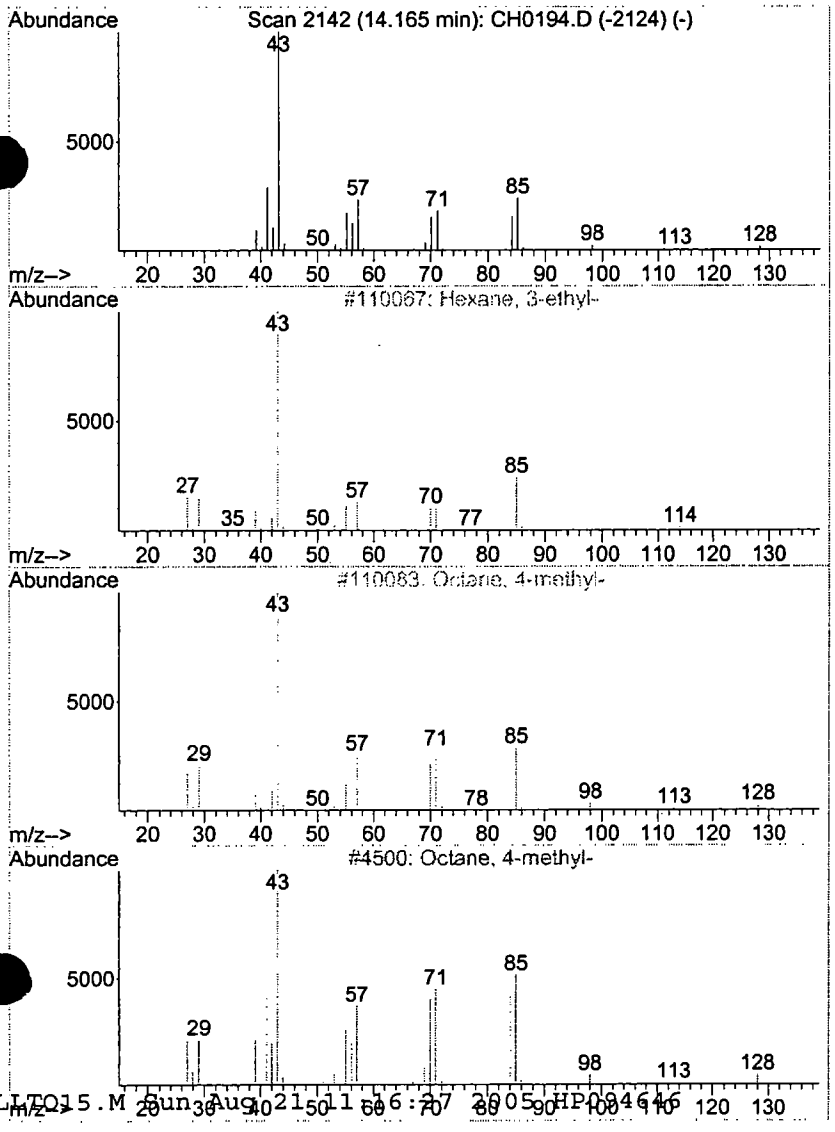
[redacted]

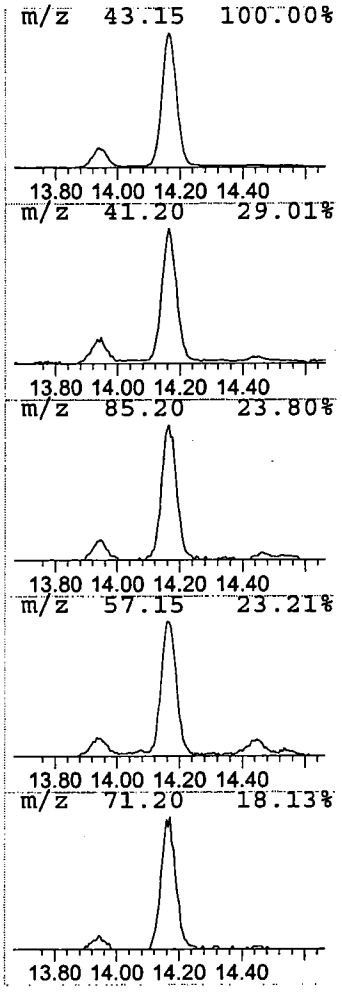
****

Peak Number 5 Hexane, 3-ethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.17	6.81	5044730	Chlorobenzene d5	14.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3-ethyl-	114	C8H18	000619-99-8	90
2	Octane, 4-methyl-	128	C9H20	002216-34-4	87
3	Octane, 4-methyl-	128	C9H20	002216-34-4	87
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
5	Octane	114	C8H18	000111-65-9	78





8107

Library Search Compound Report

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0194.D
Acq On : 12 Aug 2005 17:44
Operator : JBS
Sample : 4581595 DF500 500CC
Misc :
ALS Vial : 46 Sample Multiplier: 1

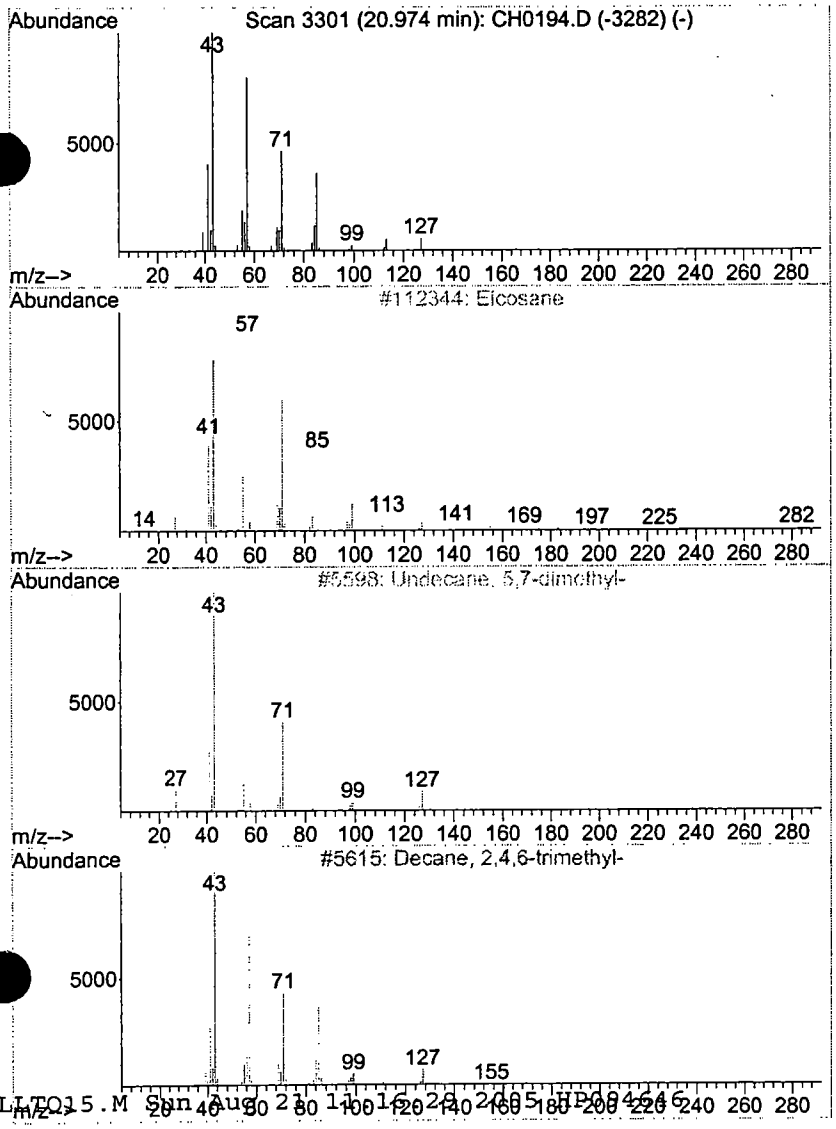
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M [redacted]
Quant Title :

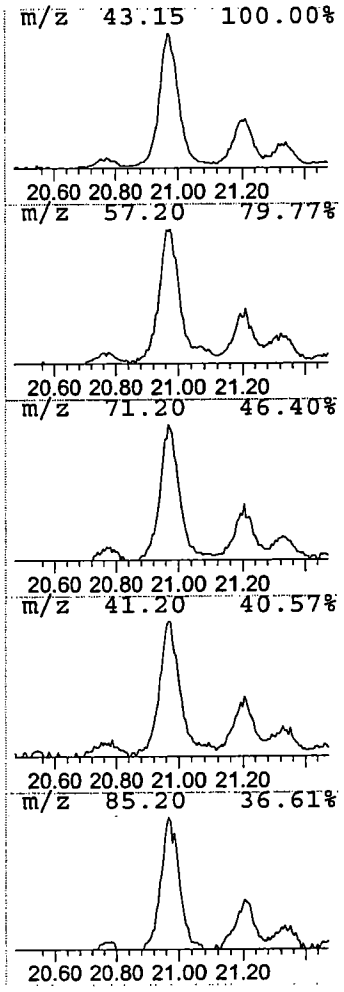
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 7 Eicosane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.97	3.62	2683370	Chlorobenzene d5	14.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	78
2	Undecane, 5,7-dimethyl-	184	C13H28	017312-83-3	78
3	Decane, 2,4,6-trimethyl-	184	C13H28	062108-27-4	78
4	Undecane, 3,7-dimethyl-	184	C13H28	017301-29-0	72
5	Octane, 3,4,5,6-tetramethyl-	170	C12H26	062185-21-1	72





Library Search Compound Report

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0194.D
Acq On : 12 Aug 2005 17:44
Operator : JBS
Sample : 4581595 DF500 500CC
Misc :
ALS Vial : 46 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

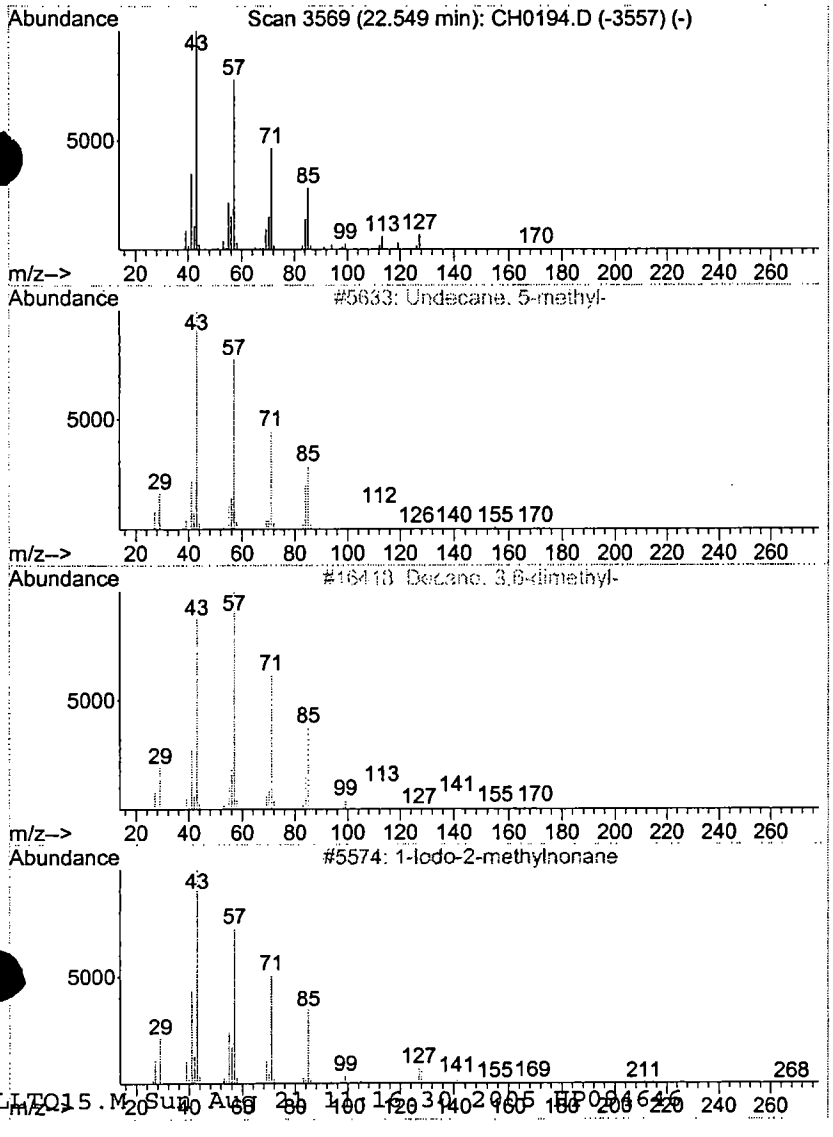
[redacted]

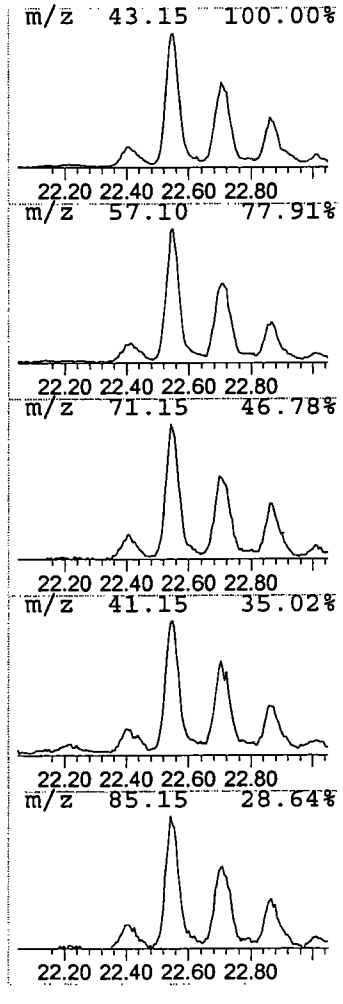
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 8 Undecane, 5-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.55	5.42	4011160	Chlorobenzene d5	14.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 5-methyl-	170	C12H26	001632-70-8	76
2	Decane, 3,6-dimethyl-	170	C12H26	017312-53-7	76
3	1-Iodo-2-methylnonane	268	C10H21I	1000101-47-9	72
4	Octane, 2,4,6-trimethyl-	156	C11H24	062016-37-9	64
5	Undecane, 3,7-dimethyl-	184	C13H28	017301-29-0	64





Library Search Compound Report

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0194.D
Acq On : 12 Aug 2005 17:44
Operator : JBS
Sample : 4581595 DF500 500CC
Misc :
ALS Vial : 46 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

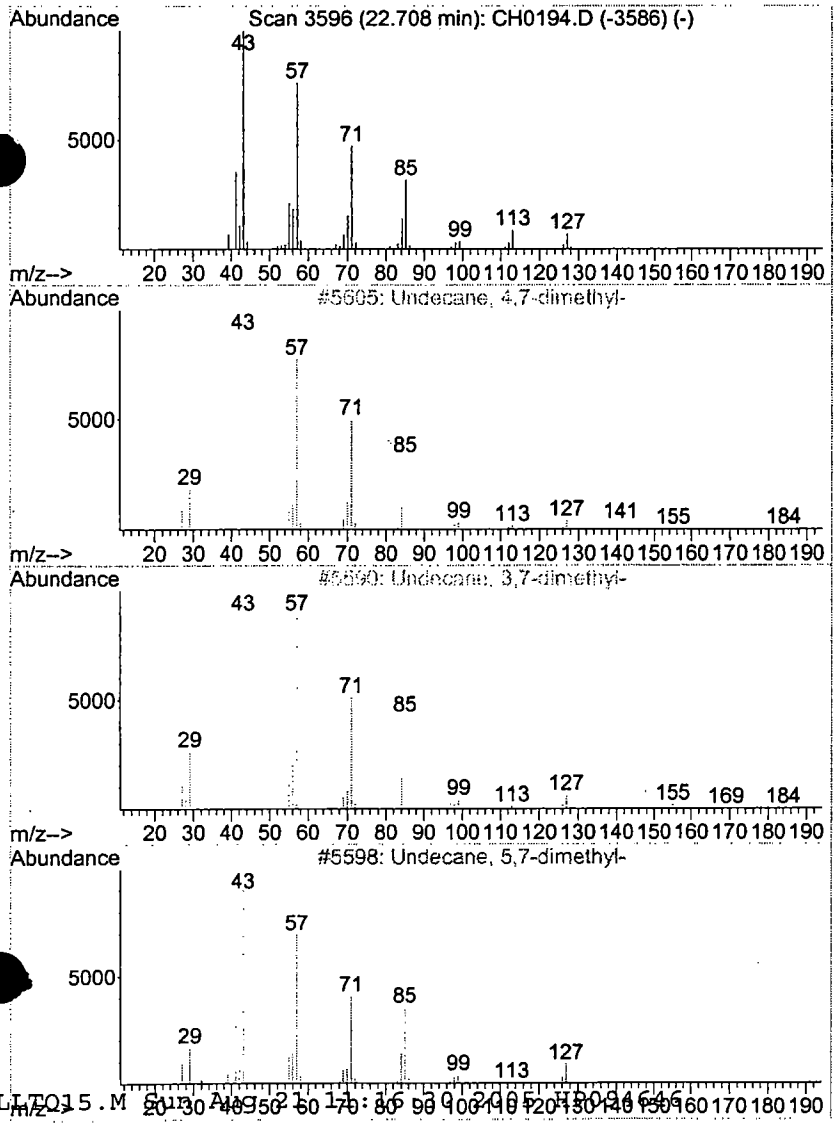
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

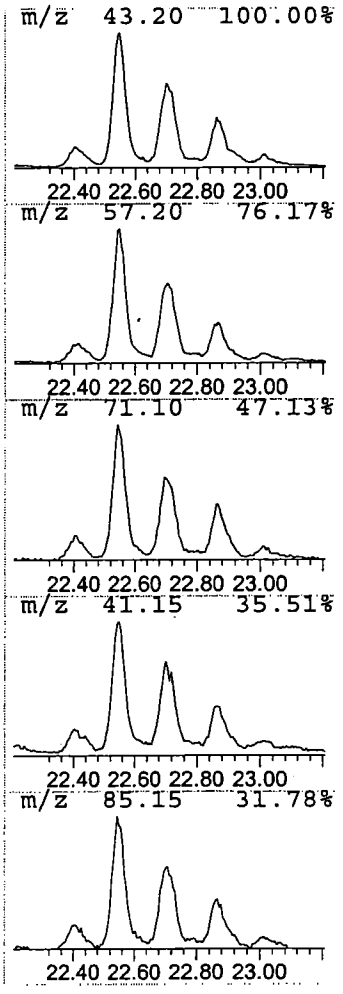
[redacted]

****
Peak Number 9 Undecane, 4,7-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.70	5.23	3875280	Chlorobenzene d5	14.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 4,7-dimethyl-	184	C13H28	017301-32-5	90
2	Undecane, 3,7-dimethyl-	184	C13H28	017301-29-0	78
3	Undecane, 5,7-dimethyl-	184	C13H28	017312-83-3	64
4	Undecane, 2,4-dimethyl-	184	C13H28	017312-80-0	64
5	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	59





Library Search Compound Report

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0194.D
Acq On : 12 Aug 2005 17:44
Operator : JBS
Sample : 4581595 DF500 500CC
Misc :
ALS Vial : 46 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

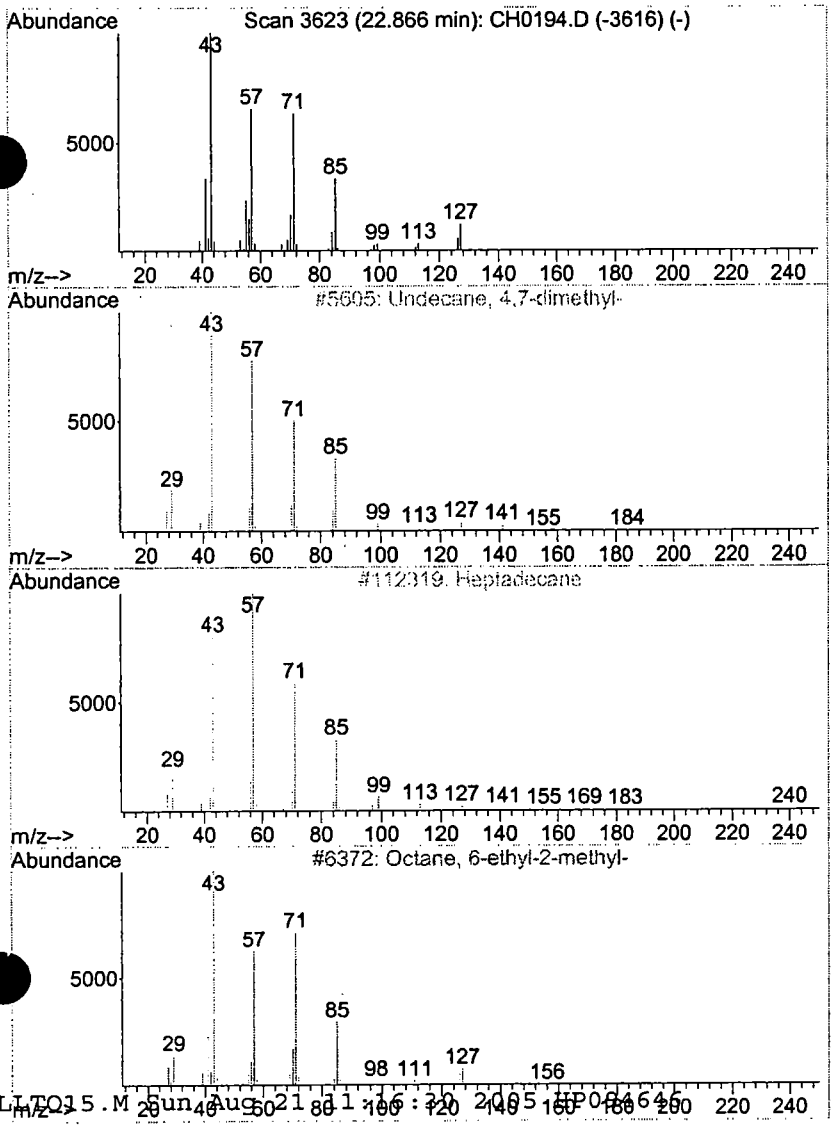
[redacted]

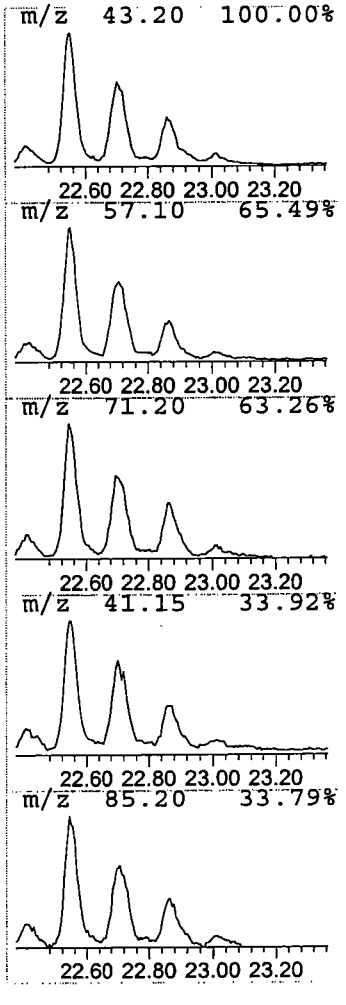
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 10 Undecane, 4,7-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.86	2.10	1551430	Chlorobenzene d5	14.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 4,7-dimethyl-	184	C13H28	017301-32-5	72
2	Heptadecane	240	C17H36	000629-78-7	72
3	Octane, 6-ethyl-2-methyl-	156	C11H24	062016-19-7	72
4	Decane, 3-methyl-	156	C11H24	013151-34-3	64
5	Tetradecane	198	C14H30	000629-59-4	59





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0194.D
Acq On : 12 Aug 2005 17:44
Operator : JBS
Sample : 4581595 DF500 500CC
Misc :
ALS Vial : 46 Sample Multiplier: 1

ORIGINAL

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

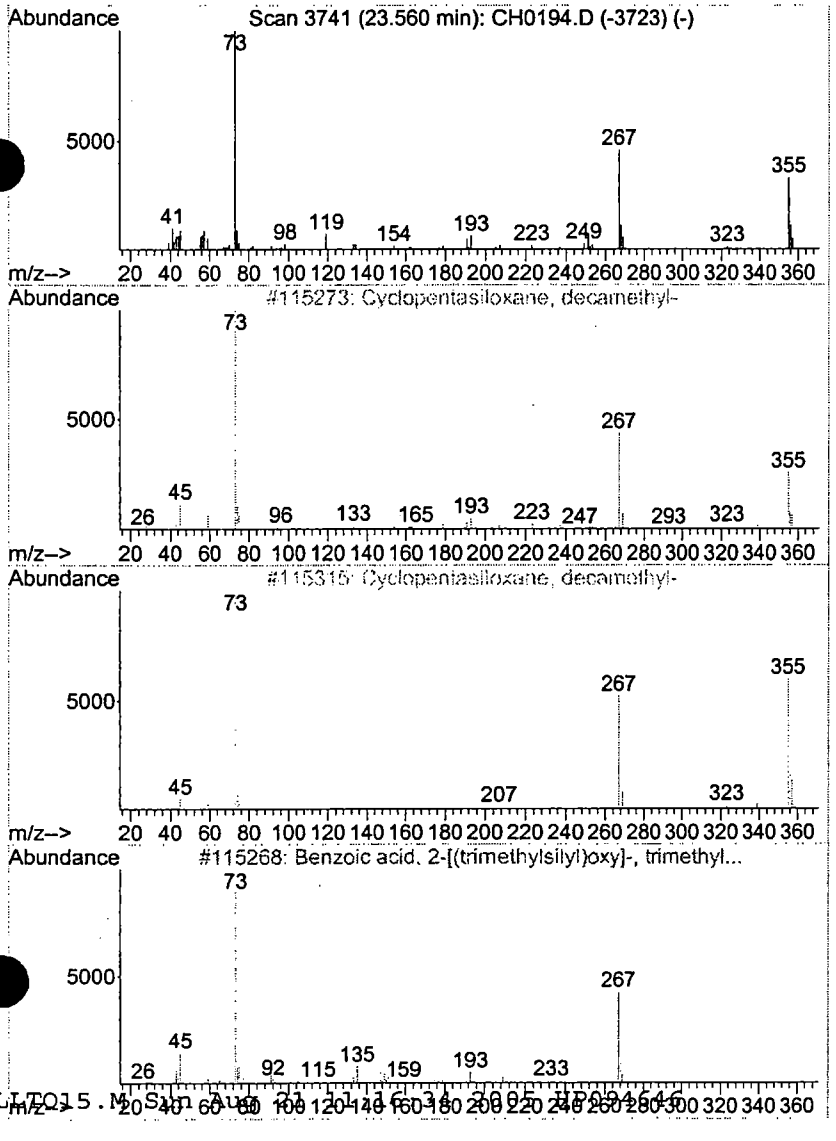
[redacted]

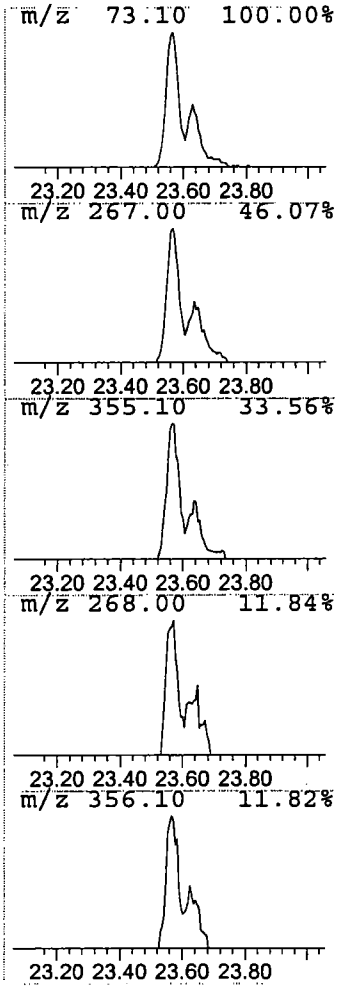
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 11 Cyclopentasiloxane, decamet... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.56	2.62	1937080	Chlorobenzene d5	14.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentasiloxane, decamethyl-	370	C10H30O5Si5	000541-02-6	91
2	Cyclopentasiloxane, decamethyl-	370	C10H30O5Si5	000541-02-6	83
3	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	43
4	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	37
5	Benzoic acid, 2,6-bis[(trimethyl...	370	C16H30O4Si3	003782-85-2	37





0112

Library Search Compound Report

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0194.D
Acq On : 12 Aug 2005 17:44
Operator : JBS
Sample : 4581595 DF500 500CC
Misc :
ALS Vial : 46 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

[redacted]

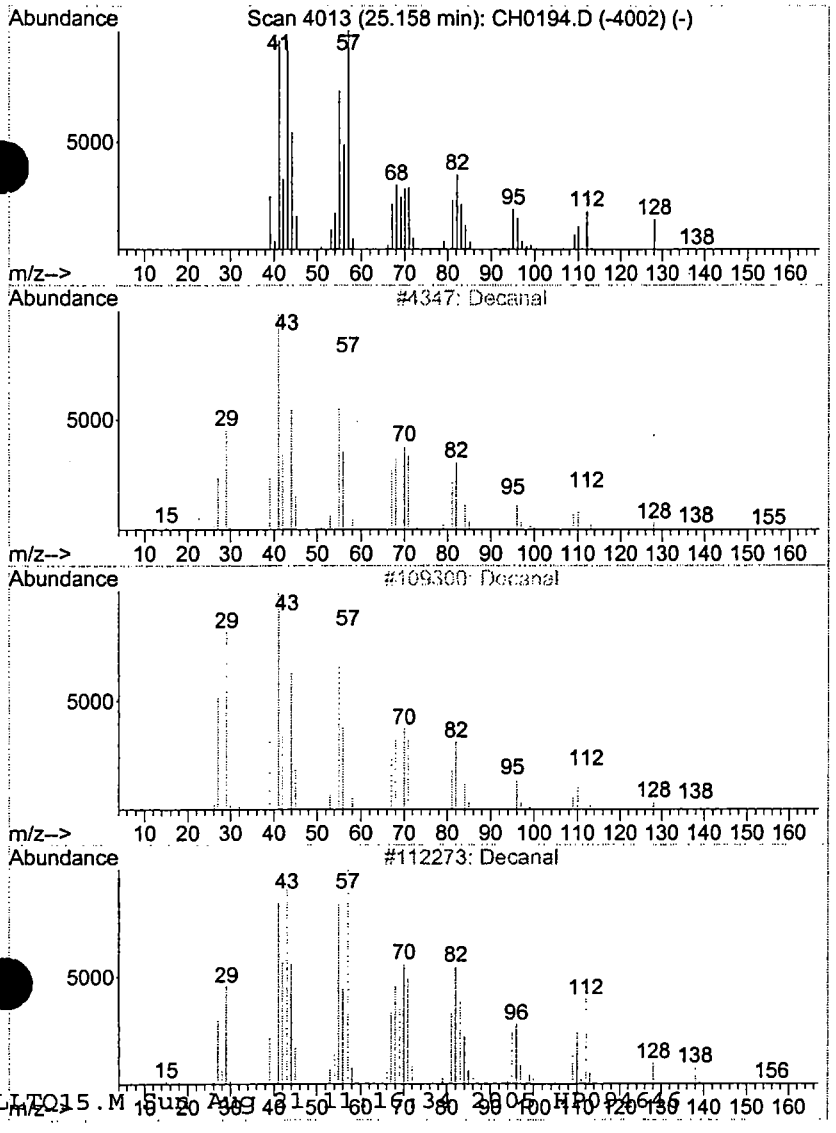
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

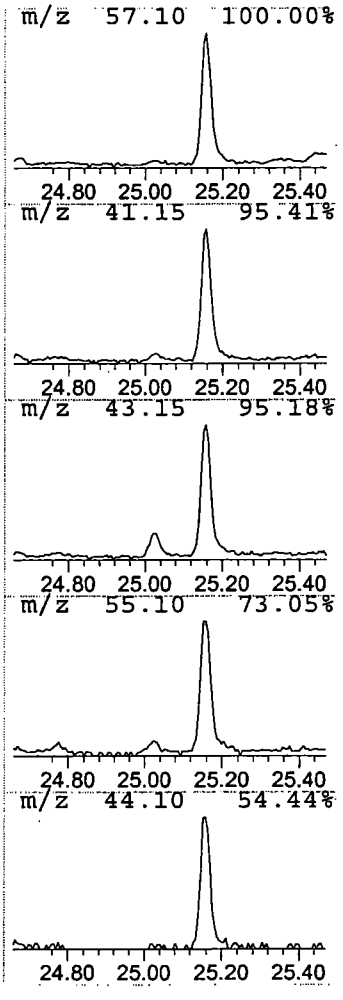
****

Peak Number 12 Decanal Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.16	2.32	1715050	Chlorobenzene d5	14.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decanal	156	C10H20O	000112-31-2	58
2	Decanal	156	C10H20O	000112-31-2	52
3	Decanal	156	C10H20O	000112-31-2	52
4	Cyclooctane	112	C8H16	000292-64-8	42
5	cis-1-Butyl-2-methylcyclopropane	112	C8H16	038851-69-3	38





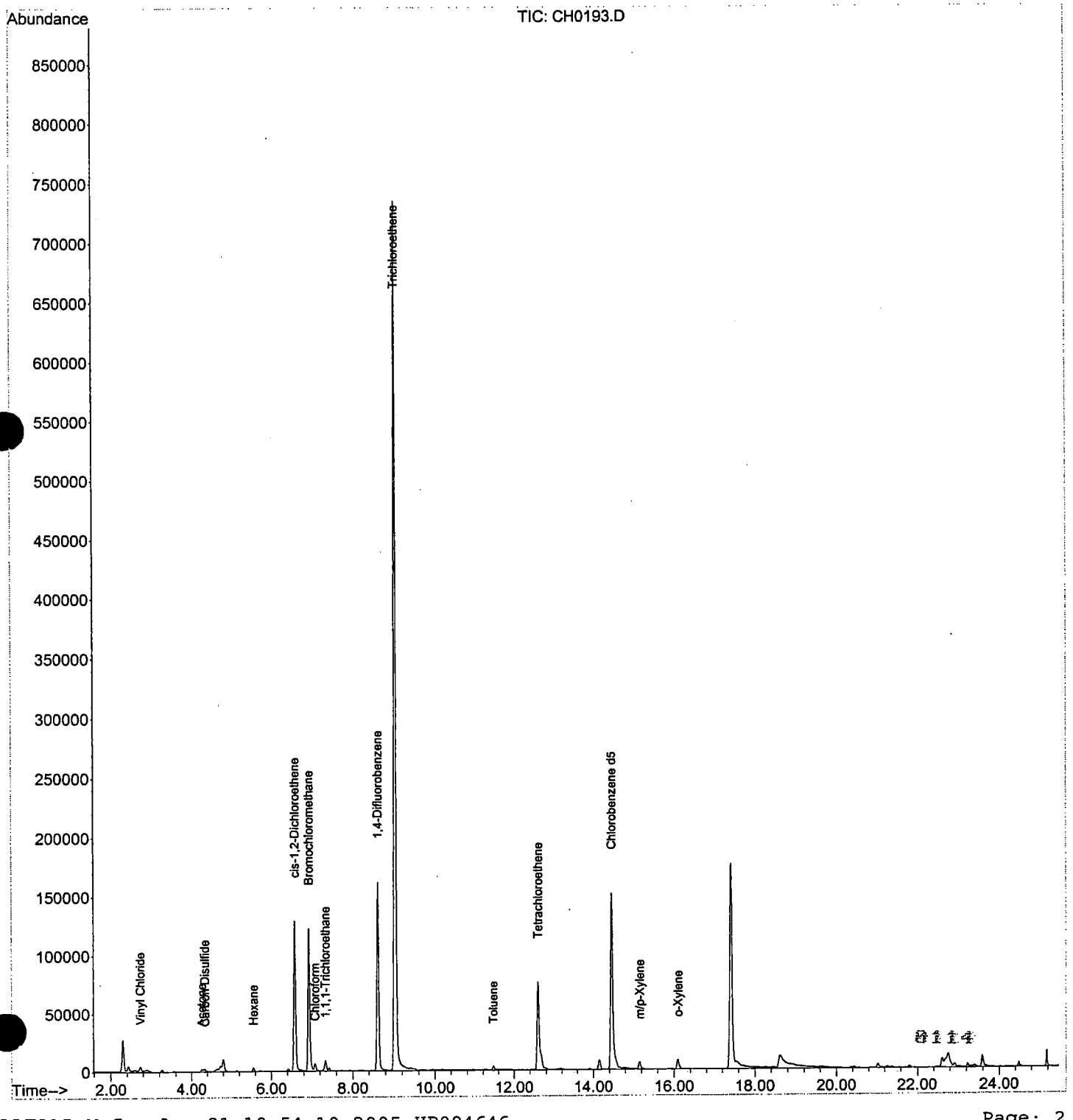
8113

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG12\
Data File : CH0193.D
Acq On : 12 Aug 2005 17:08
Operator : JBS
Sample : 4581595 DF500 50CC
Misc :
ALS Vial : 45 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 21 10:54:02 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG12\
Data File : CH0193.D
Acq On : 12 Aug 2005 17:08
Operator : JBS
Sample : 4581595 DF500 50CC
Misc :
ALS Vial : 45 Sample Multiplier: 1

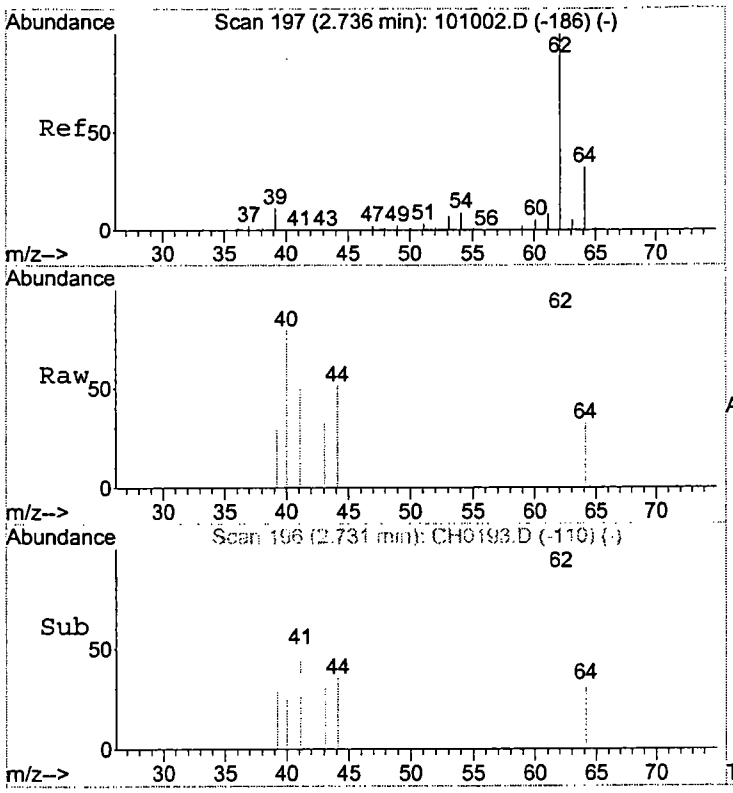
ORIGINAL

Quant Time: Aug 21 10:54:02 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.94	130	617368	10.000			-0.01
37) 1,4-Difluorobenzene	8.62	114	2073752	10.000			-0.01
51) Chlorobenzene d5	14.45	117	1955025	10.000			-0.02

Target Compounds							Qvalue
7) Vinyl Chloride	2.73	62	26350	0.429	PPB	#	44
17) Acetone	4.27	43	73492	0.742	PPB	#	39
19) Carbon Disulfide	4.34	76	48967	0.351	PPB	#	66
27) Hexane	5.56	57	22792	0.213	PPB	#	54
30) cis-1,2-Dichloroethene	6.58	61	1274941	14.222	PPB		94
34) Chloroform	7.09	83	68096	0.576	PPB	#	79
35) 1,1,1-Trichloroethane	7.34	97	93252	0.660	PPB		98
42) Trichloroethene	9.03	130	4182718	43.397	PPB		96
52) Toluene	11.46	91	51042	0.265	PPB		99
57) Tetrachloroethene	12.60	166	418028	3.598	PPB		94
64) m/p-Xylene	15.16	91	97550	0.490	PPB		87
65) o-Xylene	16.10	91	128185	0.687	PPB		92

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

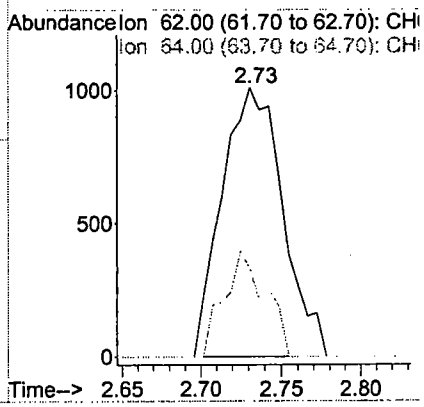


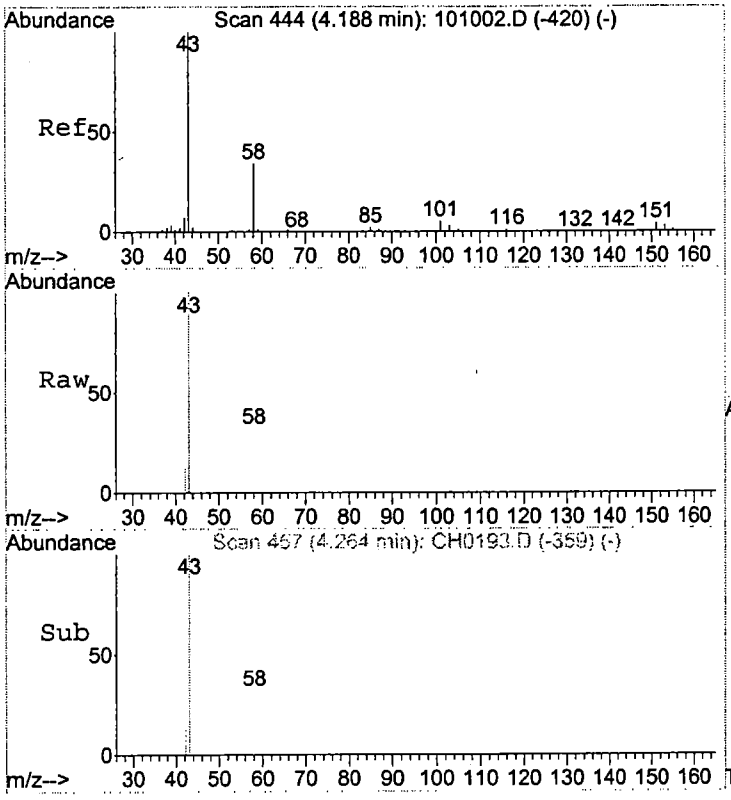
#7
Vinyl Chloride
Concen: 0.43 PPB
RT: 2.73 min Scan# 196
Delta R.T. 0.01 min
Lab File: CH0193.D
Acq: 12 Aug 2005 17:08

Tgt Ion: 62 Resp: 26350

Ion	Ratio	Lower	Upper
62	100		
64	0.0	24.6	36.8#

ORIGINAL

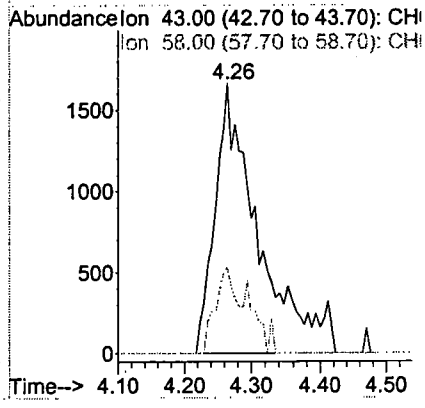




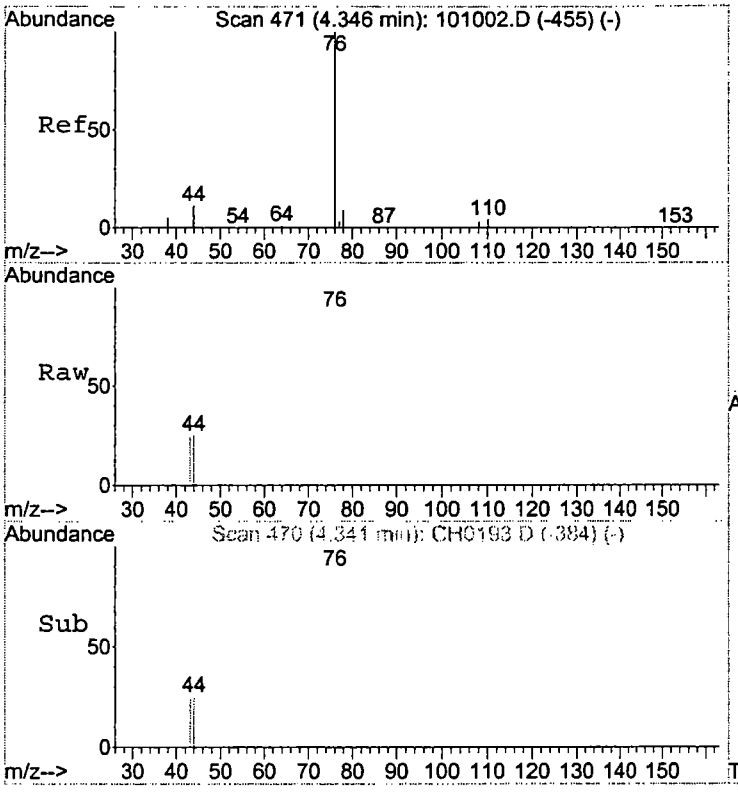
#17
Acetone
Concen: 0.74 PPB
RT: 4.27 min Scan# 457
Delta R.T. 0.08 min
Lab File: CH0193.D
Acq: 12 Aug 2005 17:08

Tgt Ion: 43 Resp: 73492

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.2	42.4#



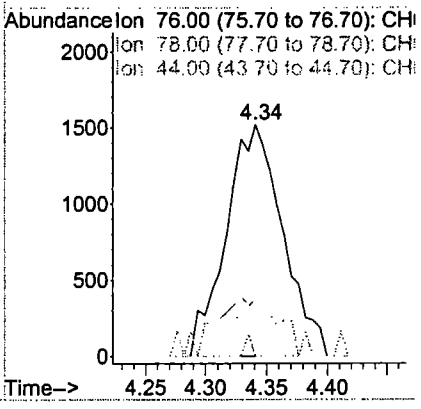
ORIGINAL

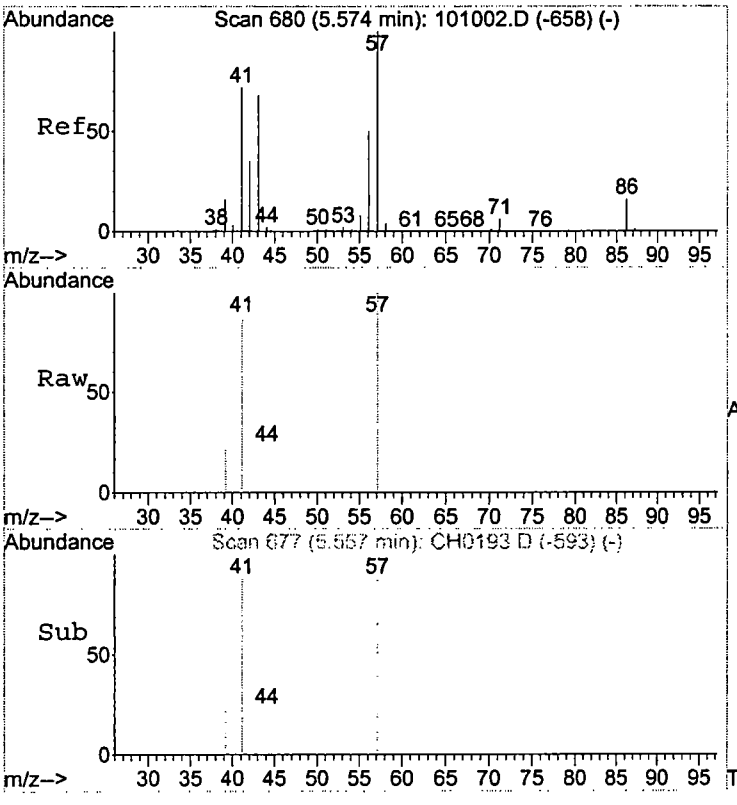


#19
Carbon Disulfide
Concen: 0.35 PPB
RT: 4.34 min Scan# 470
Delta R.T. 0.01 min
Lab File: CH0193.D
Acq: 12 Aug 2005 17:08

Tgt Ion: 76 Resp: 48967

Ion	Ratio	Lower	Upper
76	100		
78	0.0	7.4	11.0#
44	0.0	13.6	20.4#

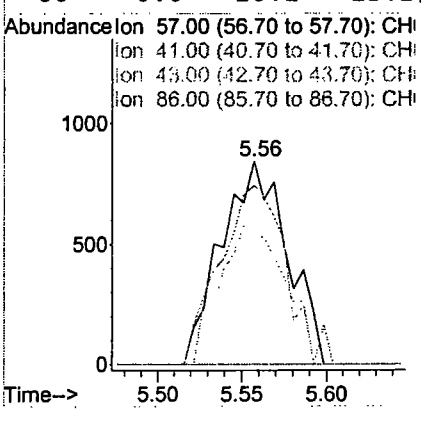




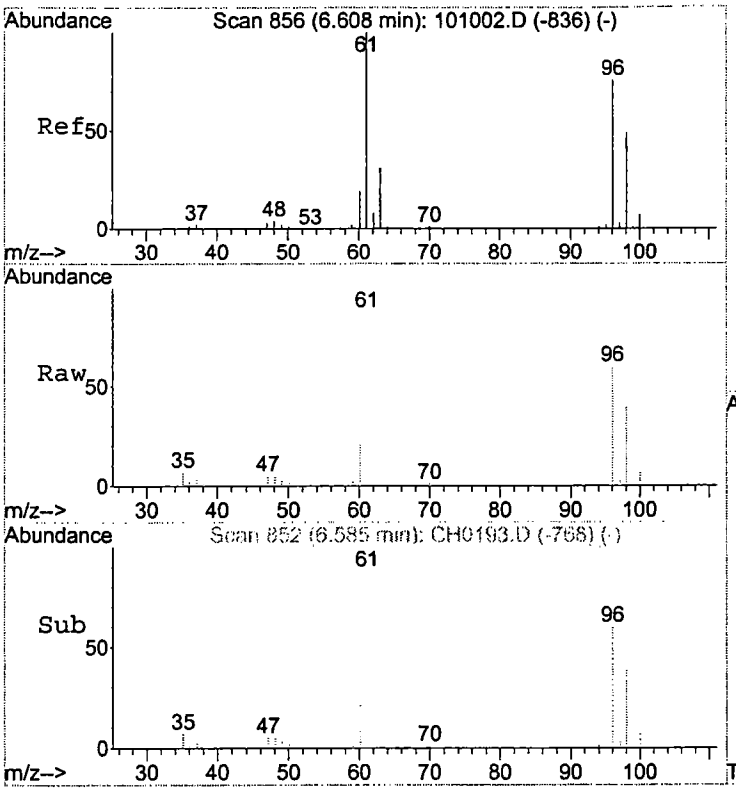
#27
Hexane
Concen: 0.21 PPB
RT: 5.56 min Scan# 677
Delta R.T. -0.00 min
Lab File: CH0193.D
Acq: 12 Aug 2005 17:08

Tgt Ion: 57 Resp: 22792

Ion	Ratio	Lower	Upper
57	100		
41	88.2	60.4	90.6
43	0.0	53.3	79.9#
86	0.0	10.2	15.2#



8117

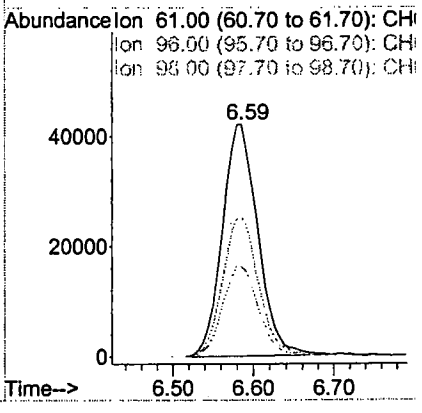


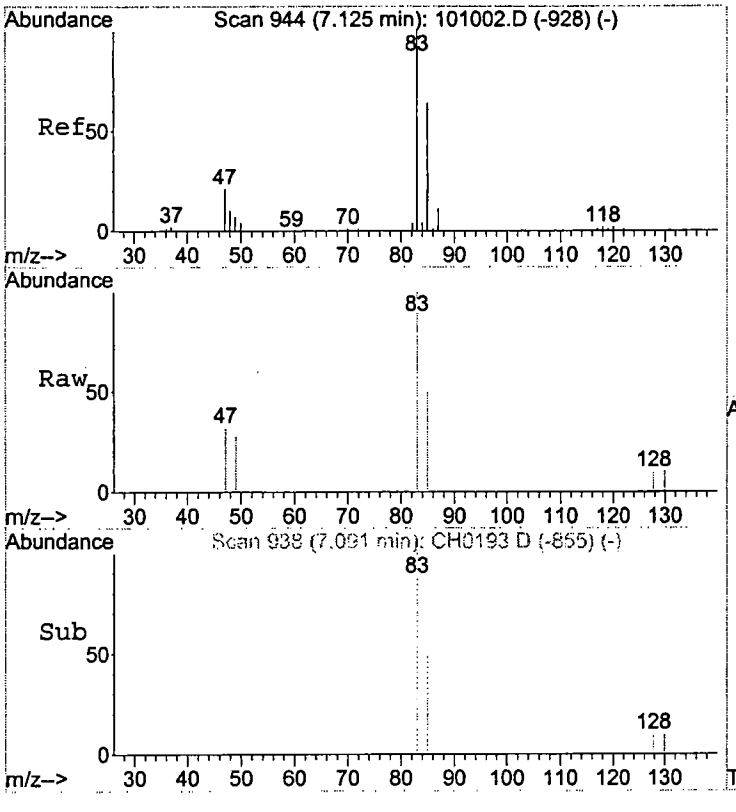
#30
cis-1,2-Dichloroethene
Concen: 14.22 PPB
RT: 6.58 min Scan# 852
Delta R.T. -0.01 min
Lab File: CH0193.D
Acq: 12 Aug 2005 17:08

ORIGINAL

Tgt Ion: 61 Resp: 1274941

Ion	Ratio	Lower	Upper
61	100		
96	61.0	53.8	80.8
98	40.7	34.8	52.2

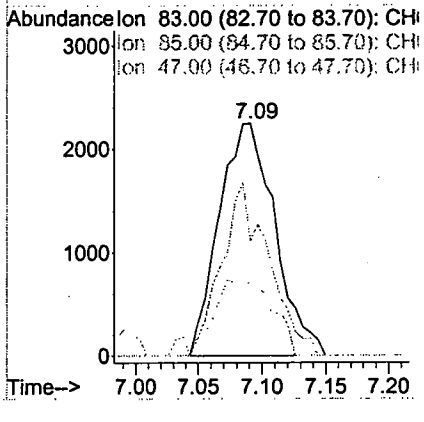




#34
Chloroform
Concen: 0.58 PPB
RT: 7.09 min Scan# 938
Delta R.T. -0.02 min
Lab File: CH0193.D
Acq: 12 Aug 2005 17:08

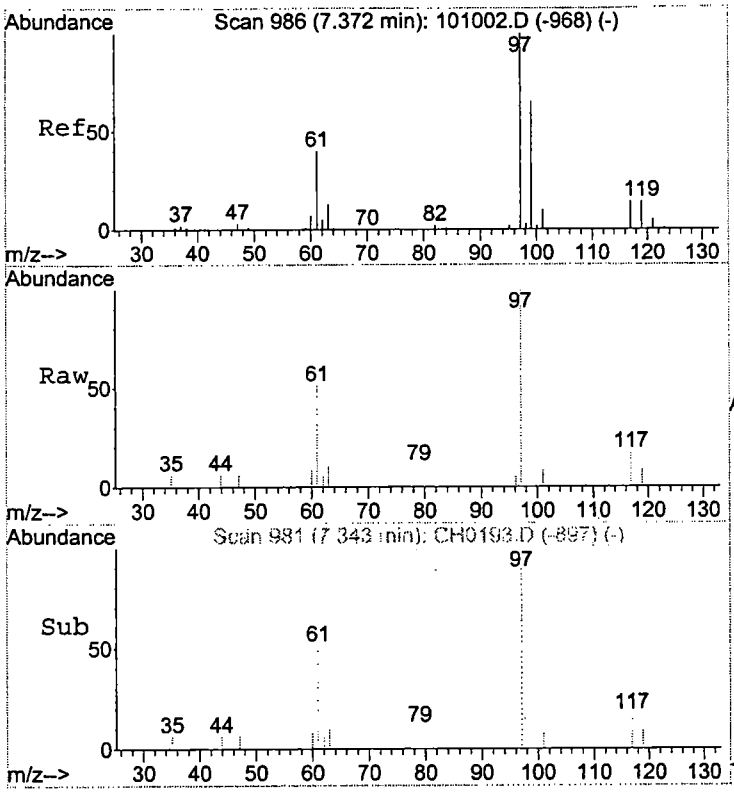
Tgt Ion: 83 Resp: 68096

Ion	Ratio	Lower	Upper
83	100		
85	63.0	54.9	82.3
47	0.0	23.1	34.7#



0118

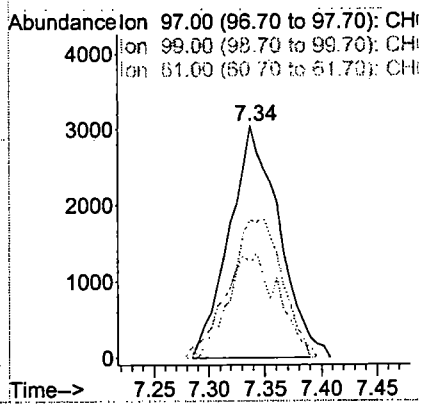
ORIGINAL

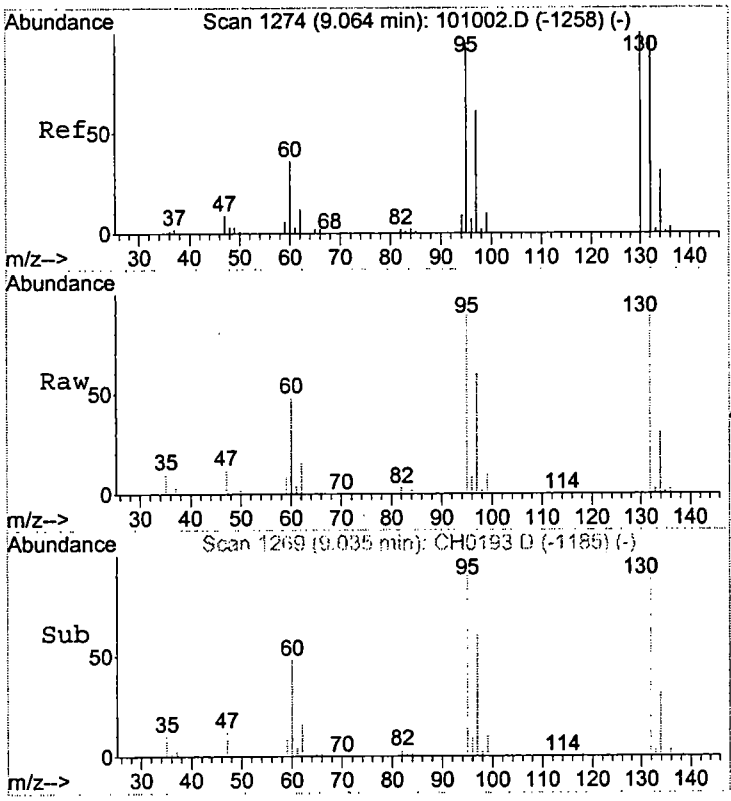


#35
1,1,1-Trichloroethane
Concen: 0.66 PPB
RT: 7.34 min Scan# 981
Delta R.T. -0.01 min
Lab File: CH0193.D
Acq: 12 Aug 2005 17:08

Tgt Ion: 97 Resp: 93252

Ion	Ratio	Lower	Upper
97	100		
99	63.2	51.4	77.0
61	44.5	36.6	55.0

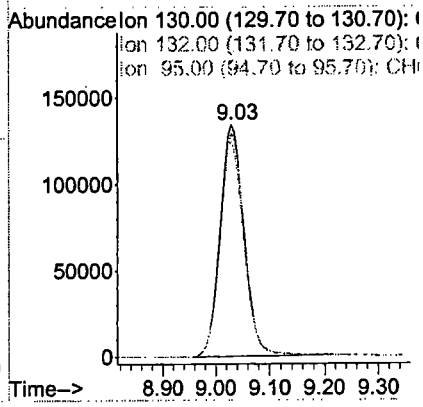




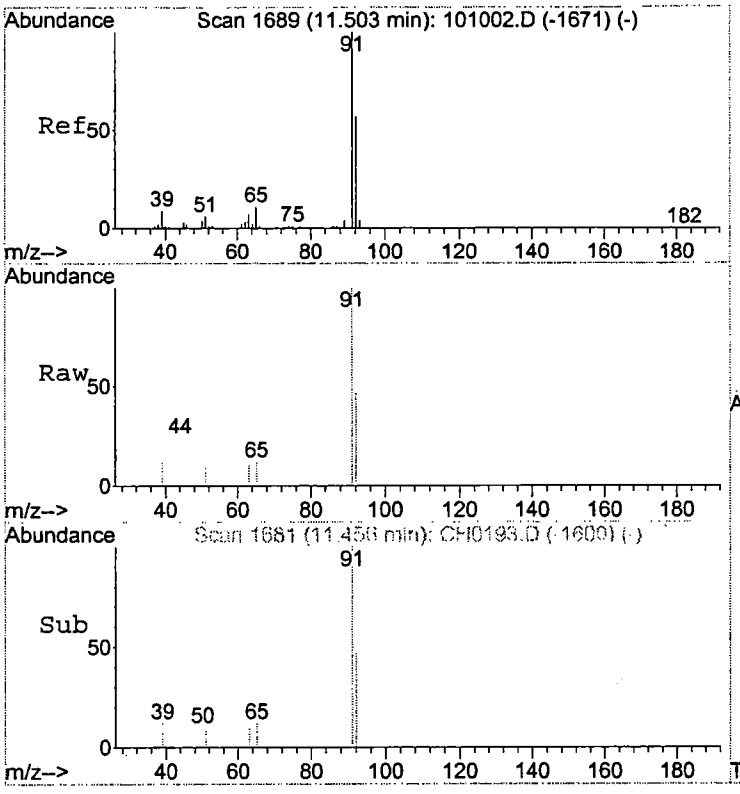
#42
Trichloroethene
Concen: 43.40 PPB
RT: 9.03 min Scan# 1269
Delta R.T. -0.01 min
Lab File: CH0193.D
Acq: 12 Aug 2005 17:08

Tgt Ion:130 Resp: 4182718

Ion	Ratio	Lower	Upper
130	100		
132	96.3	77.6	116.4
95	92.2	67.4	101.2



0119

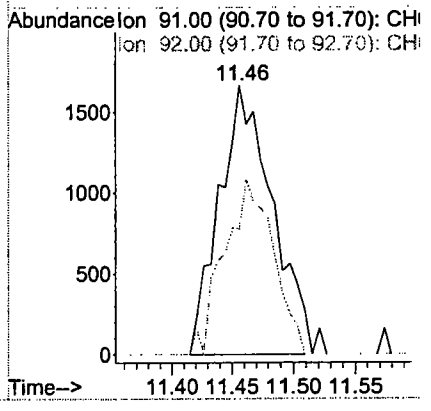


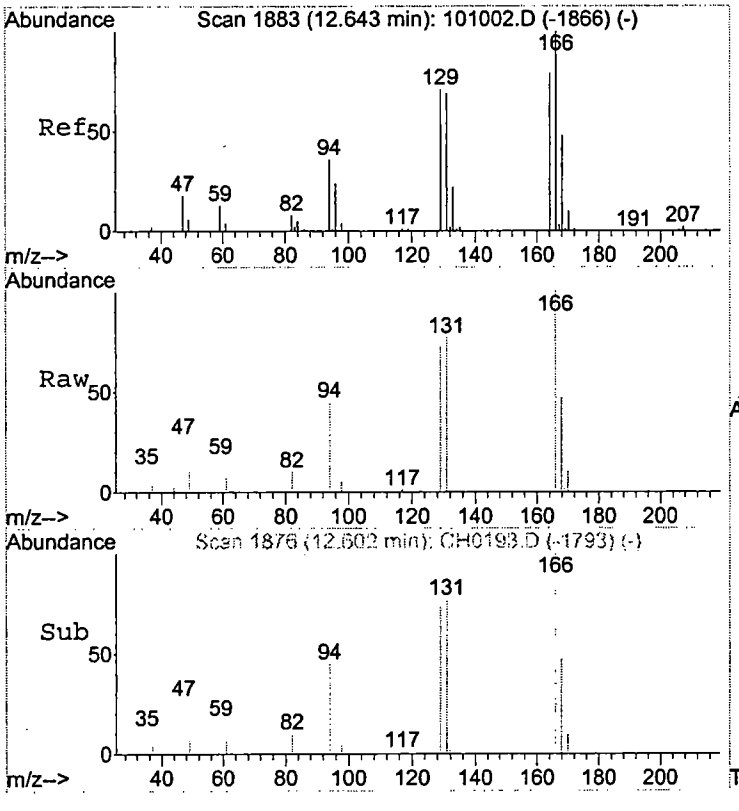
#52
Toluene
Concen: 0.27 PPB
RT: 11.46 min Scan# 1681
Delta R.T. -0.02 min
Lab File: CH0193.D
Acq: 12 Aug 2005 17:08

Tgt Ion: 91 Resp: 51042

Ion	Ratio	Lower	Upper
91	100		
92	59.5	47.2	70.8

ORIGINAL

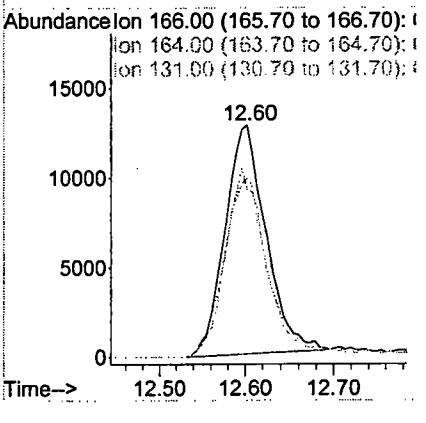




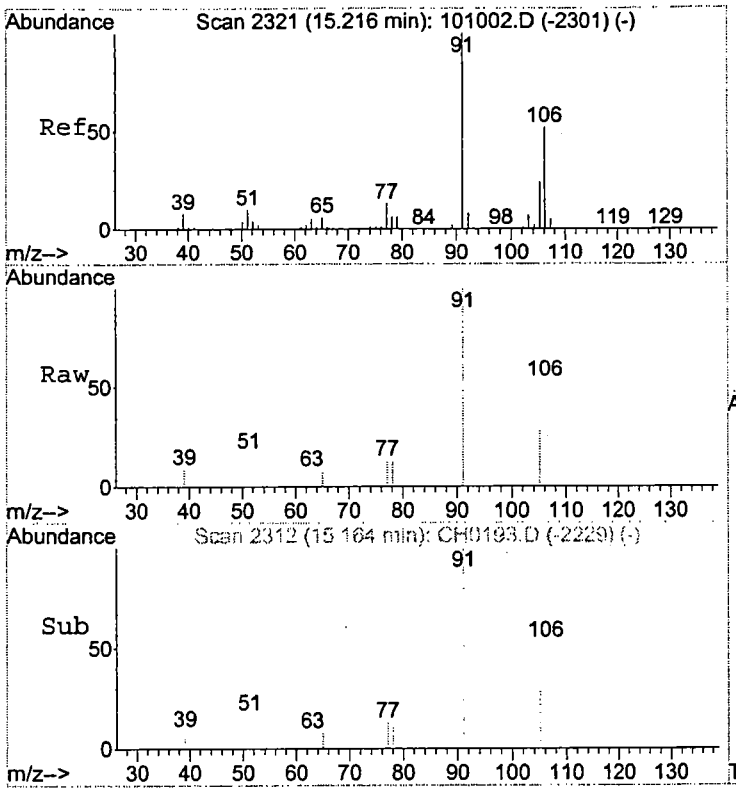
#57
Tetrachloroethene
Concen: 3.60 PPB
RT: 12.60 min Scan# 1876
Delta R.T. -0.01 min
Lab File: CH0193.D
Acq: 12 Aug 2005 17:08

Tgt Ion:166 Resp: 418028

Ion	Ratio	Lower	Upper
166	100		
164	83.8	63.2	94.8
131	78.7	59.0	88.4



8128

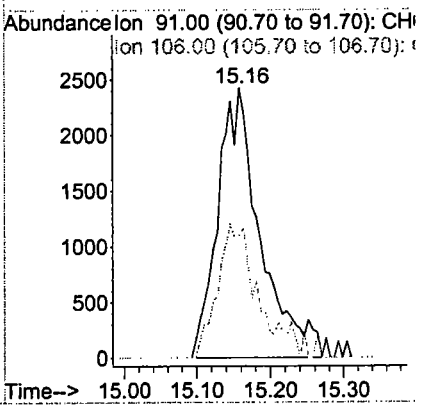


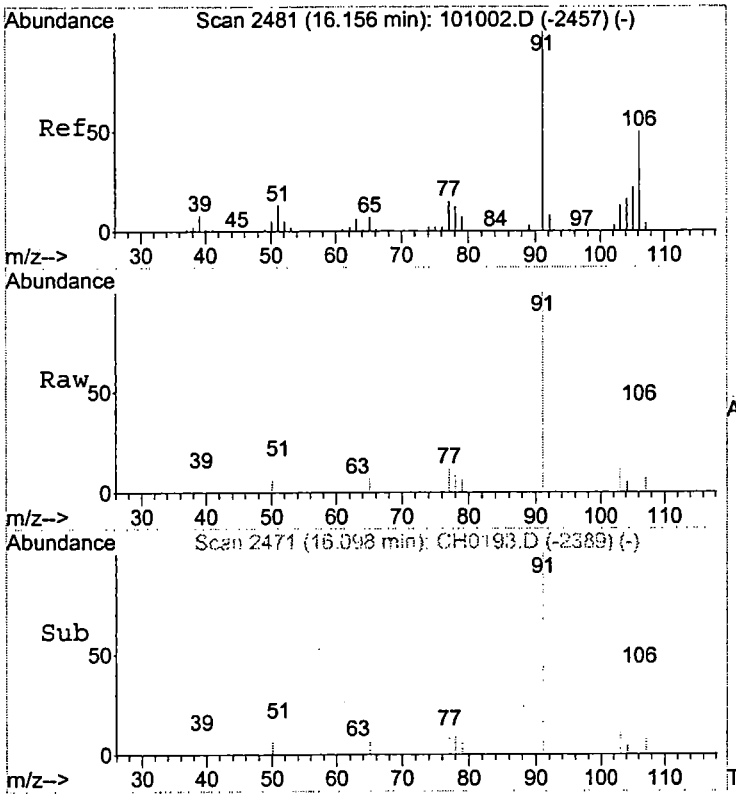
#64
m/p-Xylene
Concen: 0.49 PPB
RT: 15.16 min Scan# 2312
Delta R.T. -0.01 min
Lab File: CH0193.D
Acq: 12 Aug 2005 17:08

ORIGINAL

Tgt Ion: 91 Resp: 97550

Ion	Ratio	Lower	Upper
91	100		
106	44.5	43.1	64.7

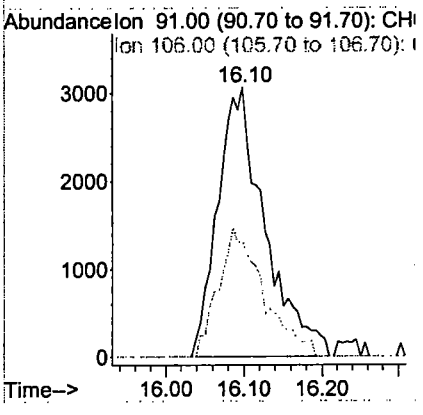




#65
o-Xylene
Concen: 0.69 PPB
RT: 16.10 min Scan# 2471
Delta R.T. -0.02 min
Lab File: CH0193.D
Acq: 12 Aug 2005 17:08

Tgt Ion: 91 Resp: 128185

Ion	Ratio	Lower	Upper
91	100		
106	46.0	41.1	61.7



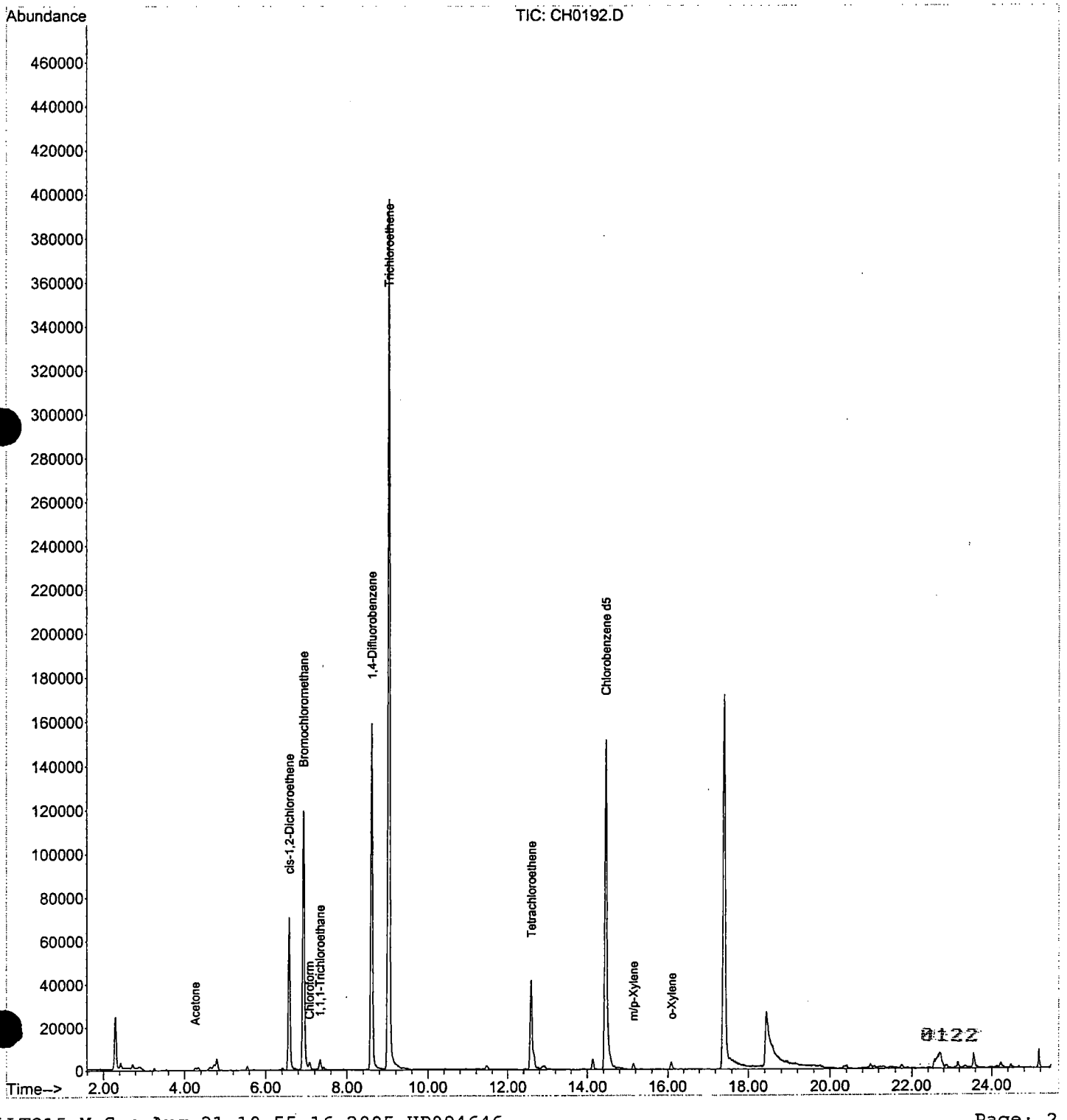
0121

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG12\
Data File : CH0192.D
Acq On : 12 Aug 2005 16:31
Operator : JBS
Sample : 4581595 DF500 25CC
Misc :
ALS Vial : 44 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 21 10:55:06 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration



0122

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG12\
Data File : CH0192.D
Acq On : 12 Aug 2005 16:31
Operator : JBS
Sample : 4581595 DF500 25CC
Misc :
ALS Vial : 44 Sample Multiplier: 1

ORIGINAL

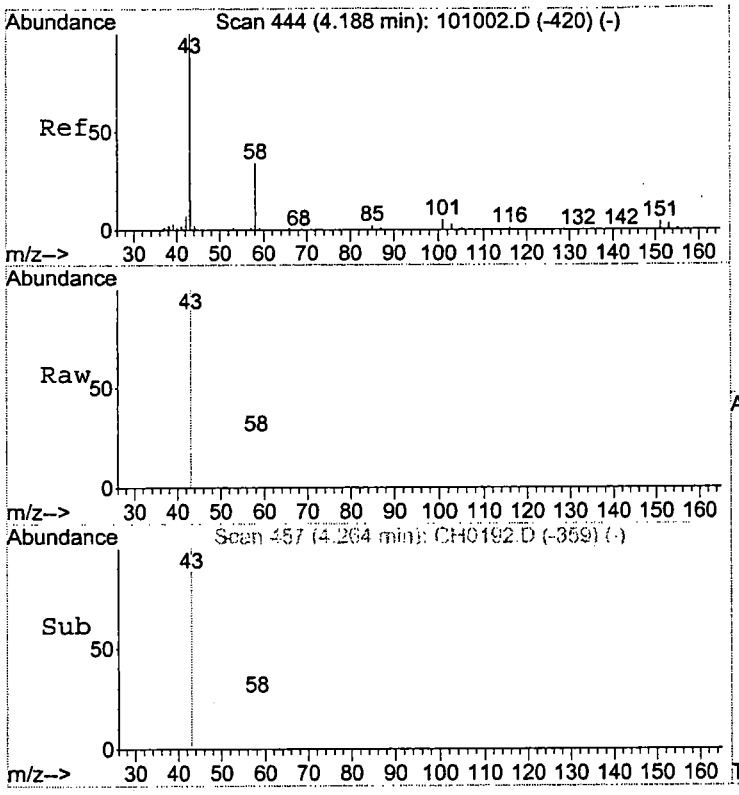
Quant Time: Aug 21 10:55:06 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.93	130	606607	10.000	-0.02
37) 1,4-Difluorobenzene	8.61	114	2081888	10.000	-0.02
51) Chlorobenzene d5	14.45	117	1899783	10.000	-0.03

Target Compounds						Qvalue
17) Acetone	4.27	43	45594	0.468 PPB	#	39
30) cis-1,2-Dichloroethene	6.58	61	715375	8.122 PPB		96
34) Chloroform	7.08	83	36582	0.315 PPB	#	24
35) 1,1,1-Trichloroethane	7.34	97	51325	0.370 PPB	#	69
42) Trichloroethene	9.03	130	2266925	23.428 PPB		96
57) Tetrachloroethene	12.59	166	252253	2.234 PPB		92
64) m/p-Xylene	15.15	91	45511	0.235 PPB		88
65) o-Xylene	16.09	91	60445	0.333 PPB	#	83

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

0123

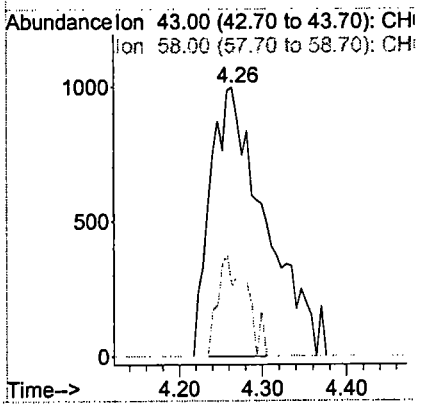


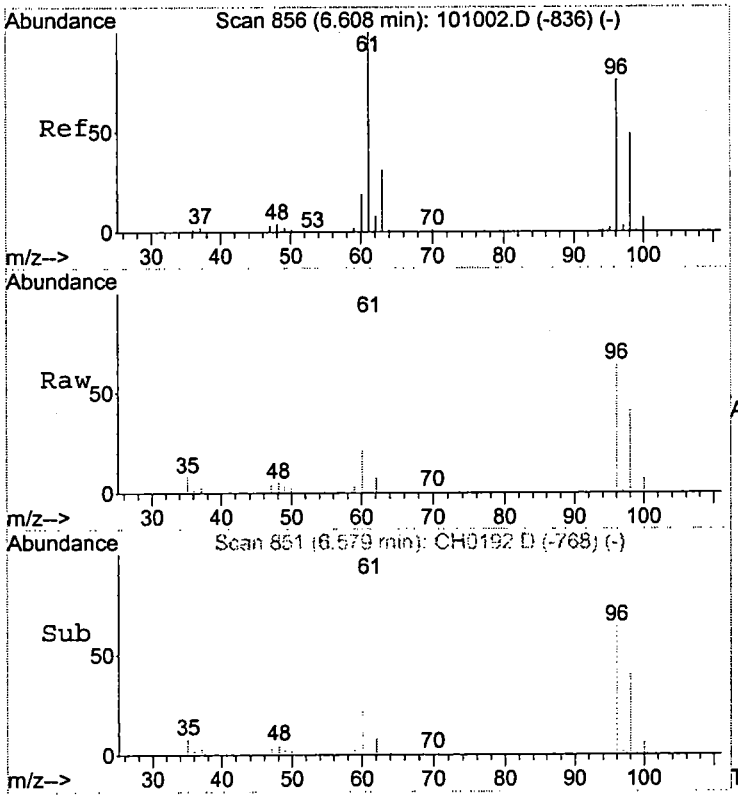
#17
Acetone
Concen: 0.47 PPB
RT: 4.27 min Scan# 457
Delta R.T. 0.08 min
Lab File: CH0192.D
Acq: 12 Aug 2005 16:31

ORIGINAL

Tgt Ion: 43 Resp: 45594

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.2	42.4#

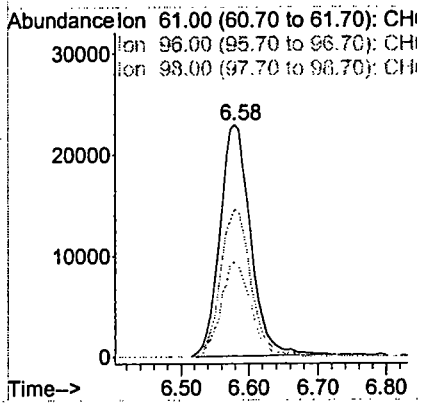




#30
cis-1,2-Dichloroethene
Concen: 8.12 PPB
RT: 6.58 min Scan# 851
Delta R.T. -0.01 min
Lab File: CH0192.D
Acq: 12 Aug 2005 16:31

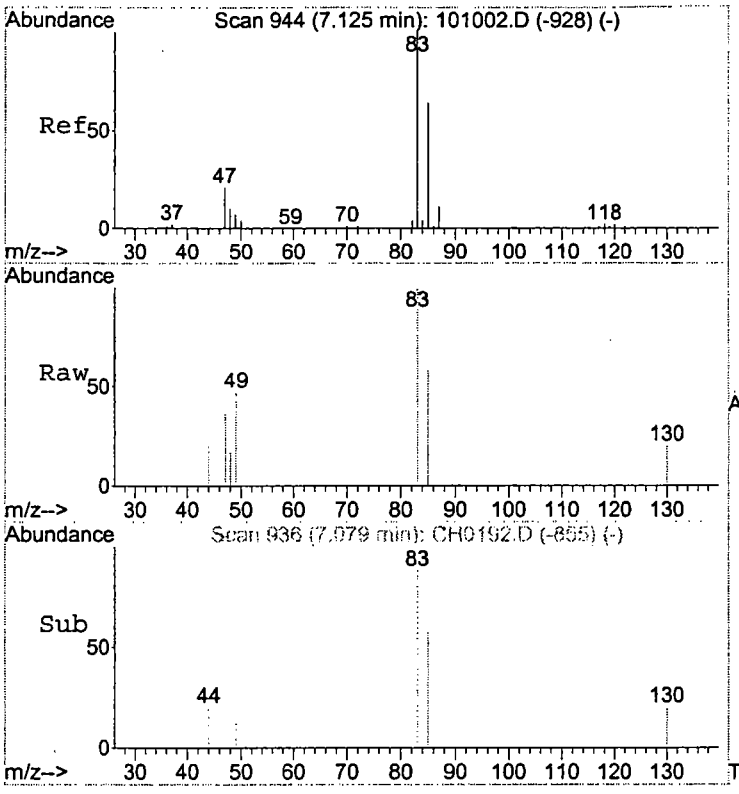
Tgt Ion: 61 Resp: 715375

Ion	Ratio	Lower	Upper
61	100		
96	64.1	53.8	80.8
98	40.3	34.8	52.2



8124

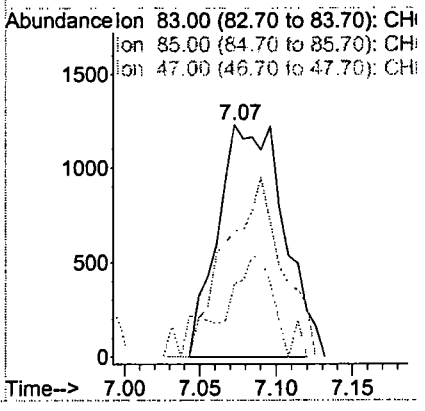
ORIGINAL

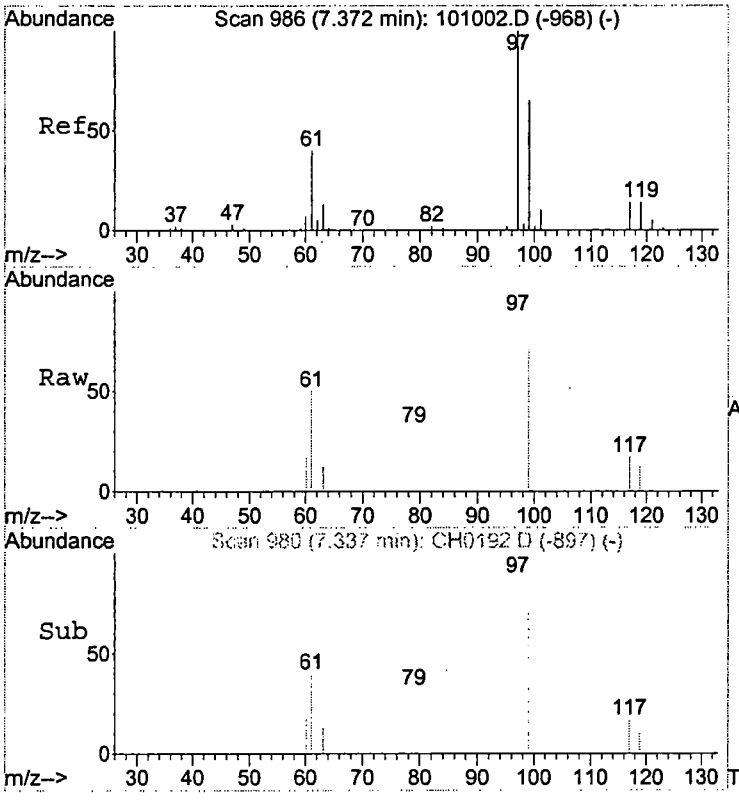


#34
Chloroform
Concen: 0.31 PPB
RT: 7.08 min Scan# 936
Delta R.T. -0.03 min
Lab File: CH0192.D
Acq: 12 Aug 2005 16:31

Tgt Ion: 83 Resp: 36582

Ion	Ratio	Lower	Upper
83	100		
85	0.0	54.9	82.3#
47	0.0	23.1	34.7#

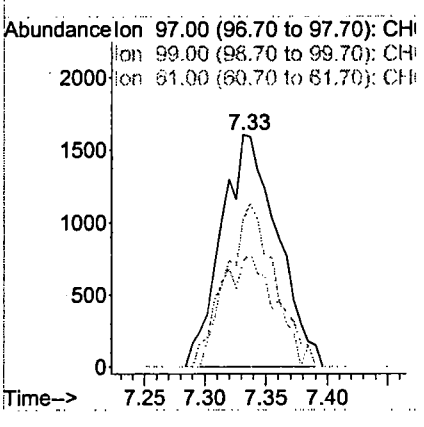




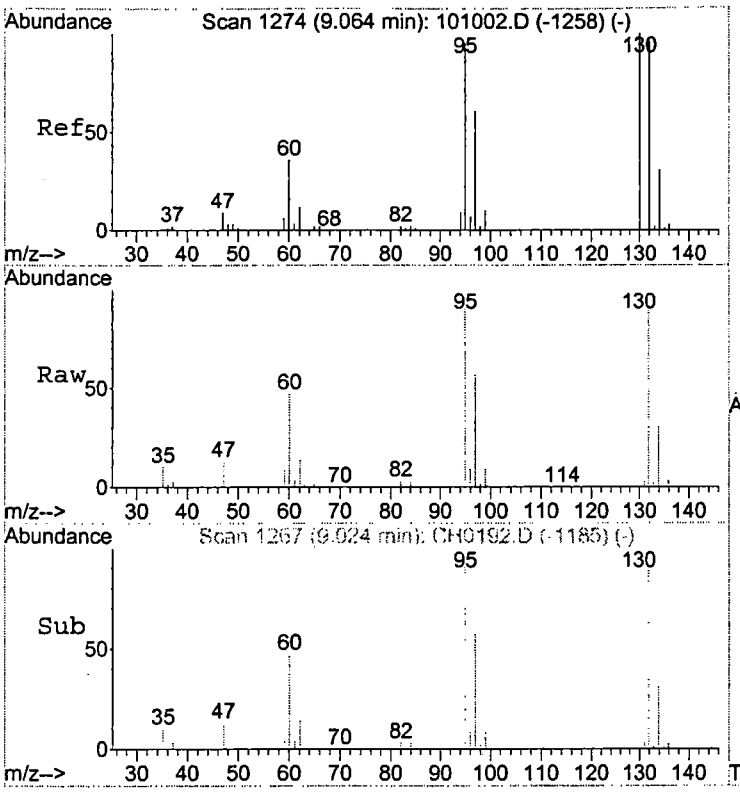
#35
1,1,1-Trichloroethane
Concen: 0.37 PPB
RT: 7.34 min Scan# 980
Delta R.T. -0.01 min
Lab File: CH0192.D
Acq: 12 Aug 2005 16:31

Tgt Ion: 97 Resp: 51325

Ion	Ratio	Lower	Upper
97	100		
99	61.9	51.4	77.0
61	0.0	36.6	55.0#



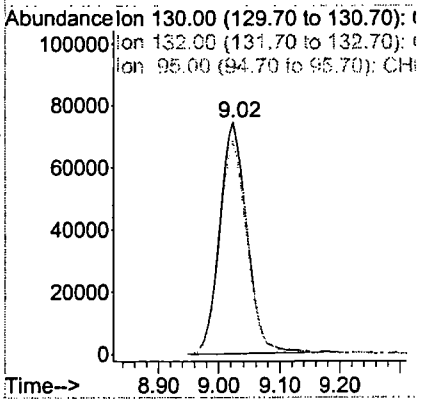
0125



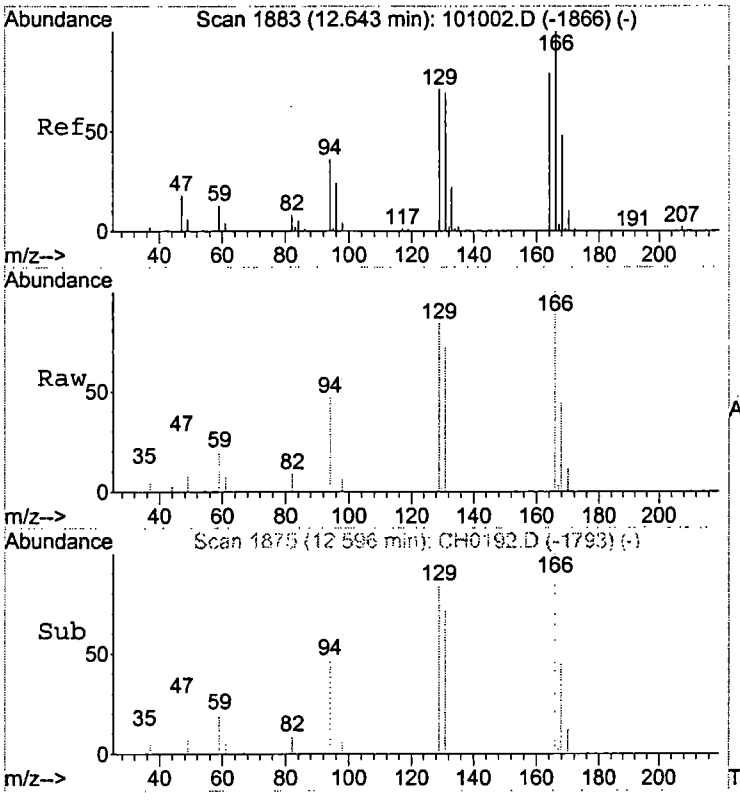
#42
Trichloroethene
Concen: 23.43 PPB
RT: 9.03 min Scan# 1267
Delta R.T. -0.02 min
Lab File: CH0192.D
Acq: 12 Aug 2005 16:31

Tgt Ion:130 Resp: 2266925

Ion	Ratio	Lower	Upper
130	100		
132	96.8	77.6	116.4
95	91.3	67.4	101.2



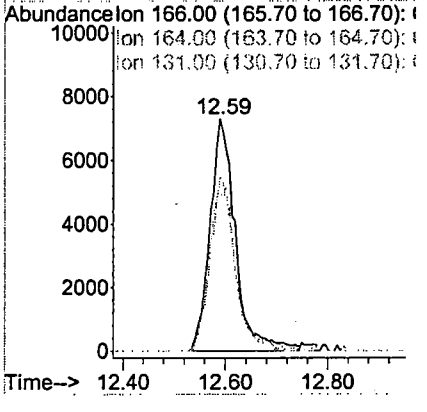
ORIGINAL



#57
Tetrachloroethene
Concen: 2.23 PPB
RT: 12.59 min Scan# 1875
Delta R.T. -0.02 min
Lab File: CH0192.D
Acq: 12 Aug 2005 16:31

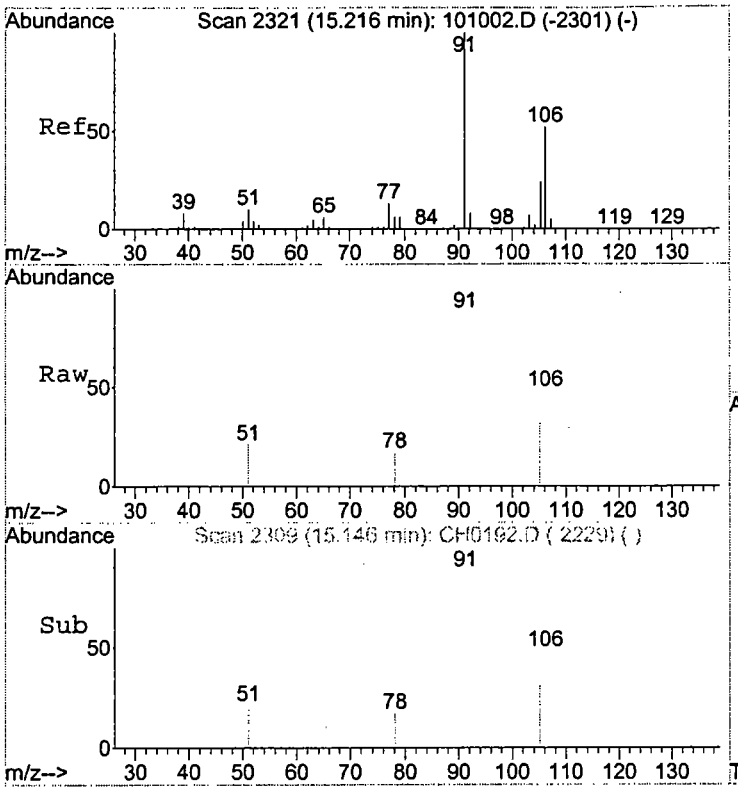
Tgt Ion:166 Resp: 252253

Ion	Ratio	Lower	Upper
166	100		
164	67.8	63.2	94.8
131	71.1	59.0	88.4



8126

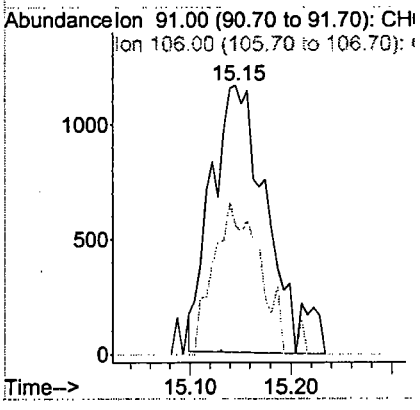
ORIGINAL

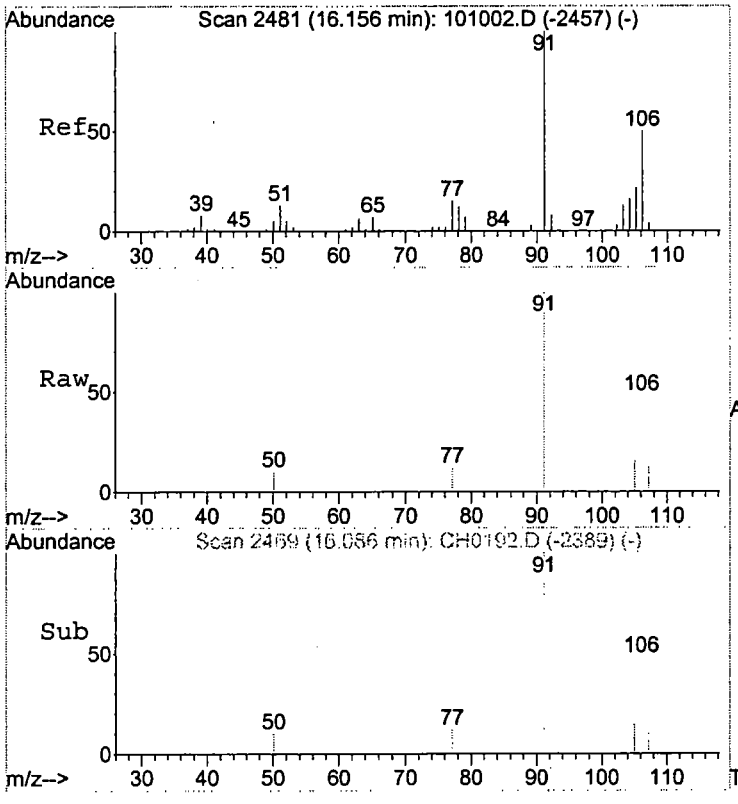


#64
m/p-Xylene
Concen: 0.24 PPB
RT: 15.15 min Scan# 2309
Delta R.T. -0.03 min
Lab File: CH0192.D
Acq: 12 Aug 2005 16:31

Tgt Ion: 91 Resp: 45511

Ion	Ratio	Lower	Upper
91	100		
106	45.6	43.1	64.7

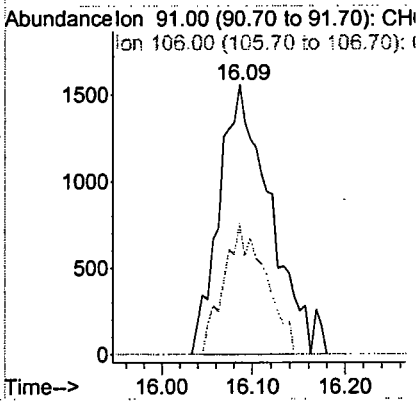




#65
o-Xylene
Concen: 0.33 PPB
RT: 16.09 min Scan# 2469
Delta R.T. -0.03 min
Lab File: CH0192.D
Acq: 12 Aug 2005 16:31

Tgt Ion: 91 Resp: 60445

Ion	Ratio	Lower	Upper
91	100		
106	39.7	41.1	61.7#



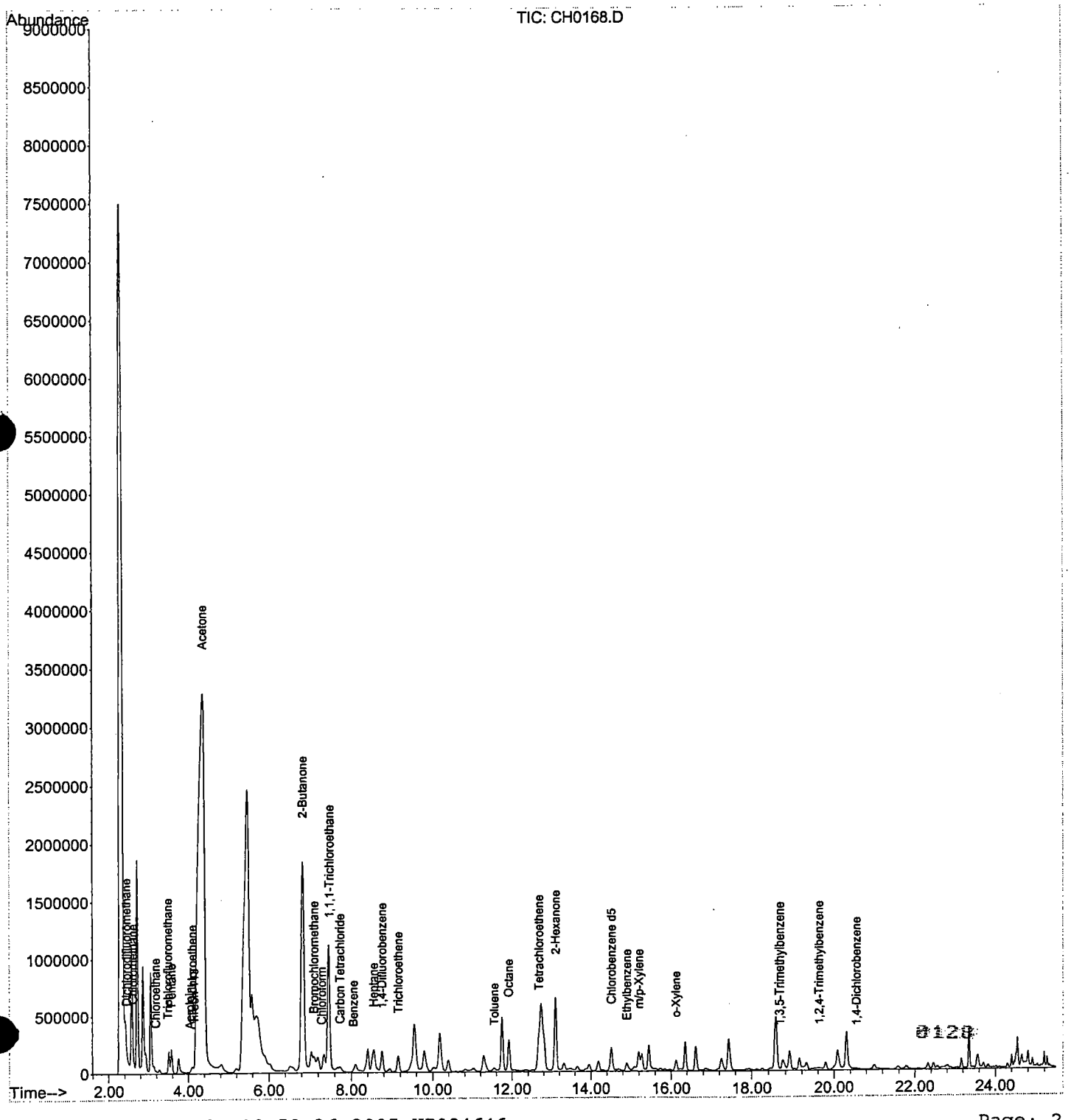
0127

Quantitation Report (QT Reviewed)

ORIGINAL

Data Path : C:\MSDChem\1\DATA\AUG10\
Data File : CH0168.D
Acq On : 11 Aug 2005 11:08
Operator : RDG
Sample : 4581596 500CC
Misc :
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Aug 21 10:59:25 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ORIGINAL

Data Path : C:\MSDChem\1\DATA\AUG10\
Data File : CH0168.D
Acq On : 11 Aug 2005 11:08
Operator : RDG
Sample : 4581596 500CC
Misc :
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Aug 21 10:59:25 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Bromochloromethane	7.11	130	824510	10.000		0.16
37) 1,4-Difluorobenzene	8.76	114	2794022	10.000		0.13
51) Chlorobenzene d5	14.52	117	2561665	10.000		0.04

Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.45	85	128712	0.561 PPB		100
6) Chloromethane	2.62	50	689838	5.539 PPB	#	89
10) Chloroethane	3.19	64	79963	2.226 PPB		98
12) Trichlorofluoromethane	3.48	101	55820	0.221 PPB		99
13) Pentane	3.57	43	2078457	11.873 PPB		97
14) Acrolein	4.03	56	358579	16.331 PPB	#	15
15) 1,1-Dichloroethene	4.11	61	253792	1.835 PPB		97
16) Freon 113	4.14	103	24337	0.235 PPB		95
17) Acetone	4.36	43	232417980m	1757.030 PPB		
31) 2-Butanone	6.83	72	11654718	453.488 PPB	#	81
34) Chloroform	7.28	83	124664	0.789 PPB	#	24
35) 1,1,1-Trichloroethane	7.48	97	35928	0.190 PPB	#	23
36) Carbon Tetrachloride	7.73	117	581098	2.518 PPB		98
39) Benzene	8.05	78	136748	0.729 PPB	#	73
41) Heptane	8.55	43	3051055	16.644 PPB	#	88
42) Trichloroethene	9.15	130	990130	7.625 PPB		98
52) Toluene	11.55	91	338248	1.341 PPB		95
53) Octane	11.92	43	2856519	13.278 PPB		99
57) Tetrachloroethene	12.67	166	1071449	7.039 PPB		97
58) 2-Hexanone	13.10	43	9909013	55.435 PPB		99
63) Ethylbenzene	14.90	91	951186	3.118 PPB		98
64) m/p-Xylene	15.20	91	1982114	7.598 PPB		94
65) o-Xylene	16.14	91	1074512	4.396 PPB		94
73) 1,3,5-Trimethylbenzene	18.66	105	85974	0.250 PPB		100
75) 1,2,4-Trimethylbenzene	19.61	105	146355	0.389 PPB		88
77) 1,4-Dichlorobenzene	20.55	146	71388	0.253 PPB	#	74

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

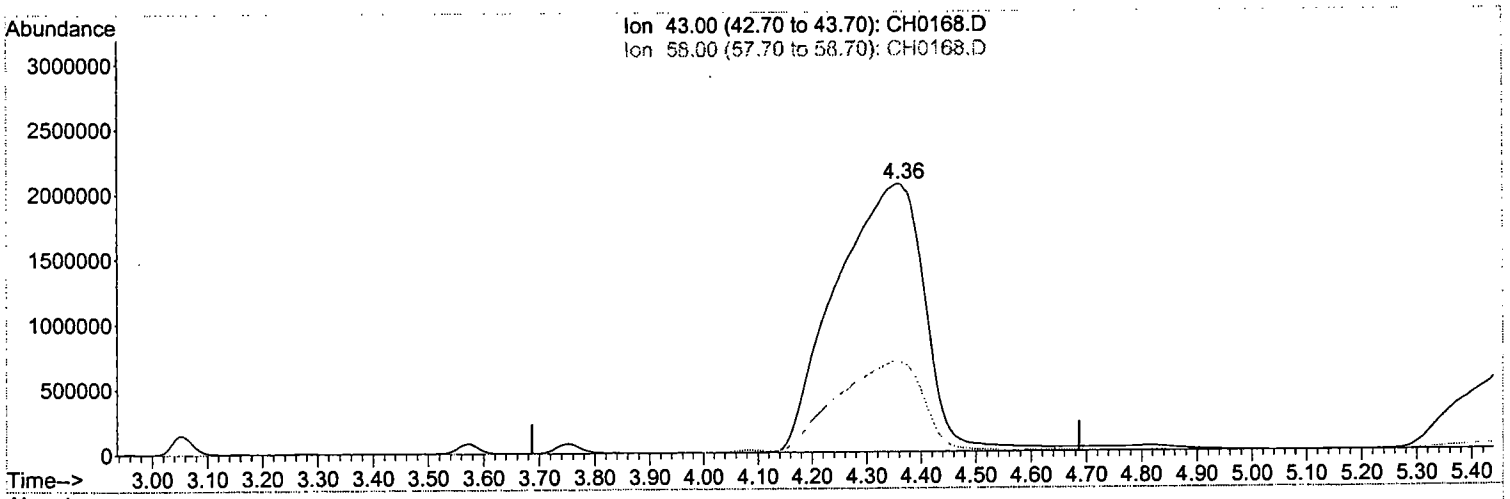
8129

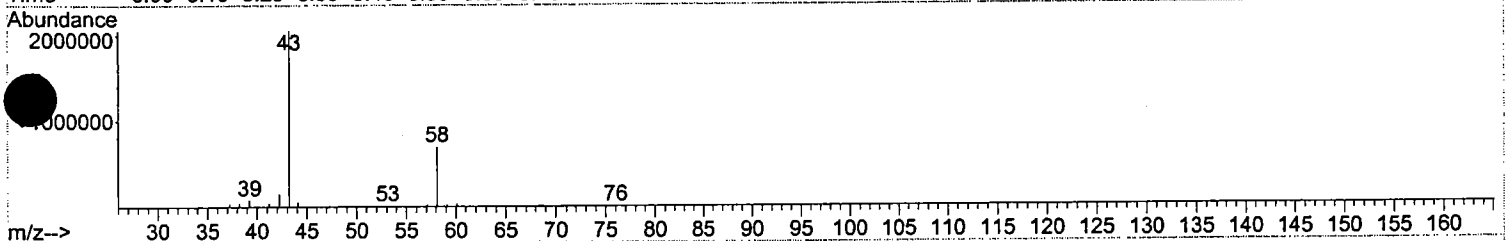
Quantitation Report (Qedit)

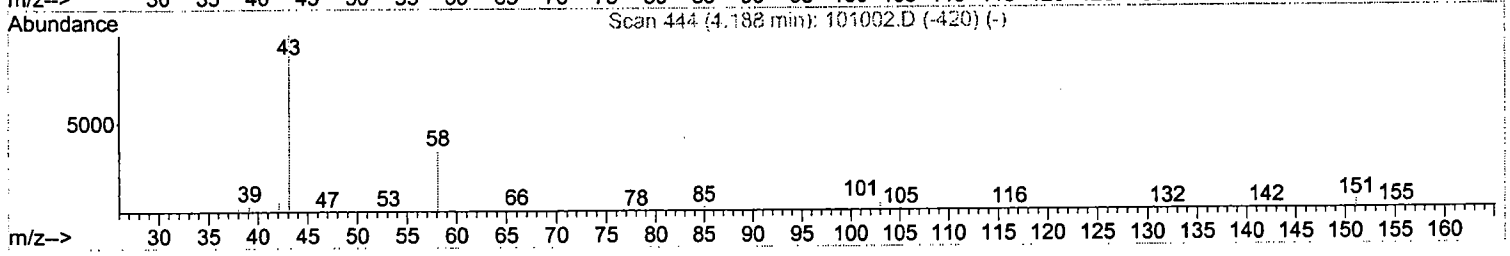
Data Path : C:\MSDChem\1\DATA\AUG10\
Data File : CH0168.D
Acq On : 11 Aug 2005 11:08
Operator : RDG
Sample : 4581596 500CC
Misc :
ALS Vial : 38 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 11 11:34:27 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration







TIC: CH0168.D

(17) Acetone

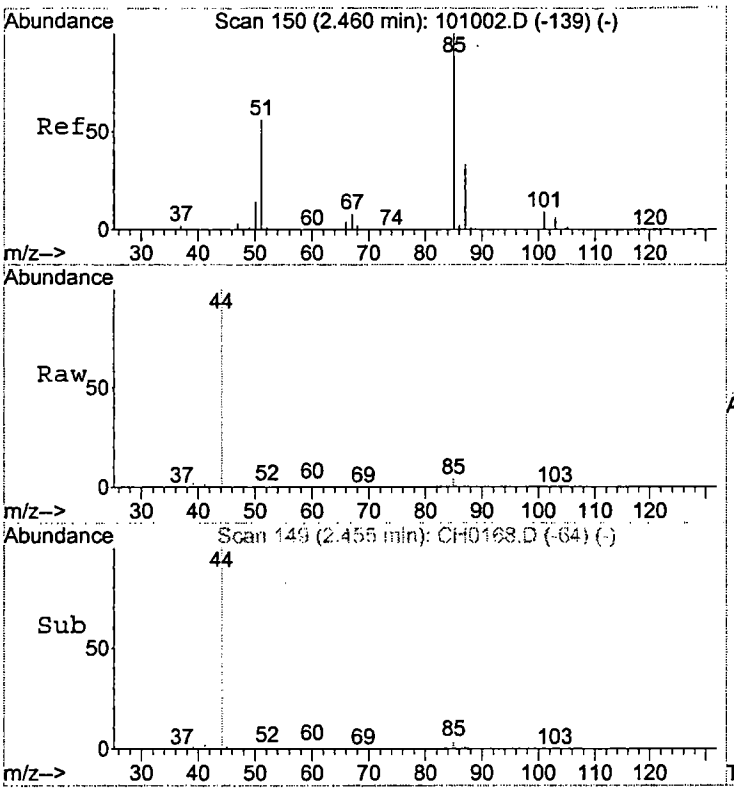
4.358min (+0.171) 1757.03PPB m

response 232417980

Ion	Exp%	Act%
43.00	100	100
58.00	35.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

MS Spec
KS 1509 3/20/05

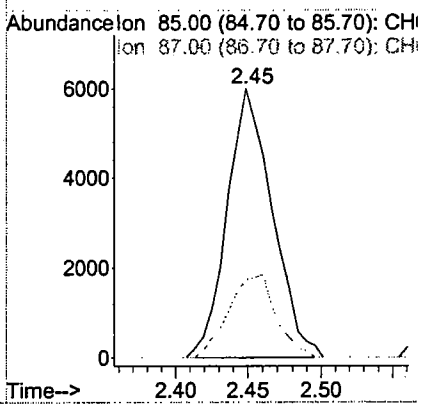
ORIGINAL

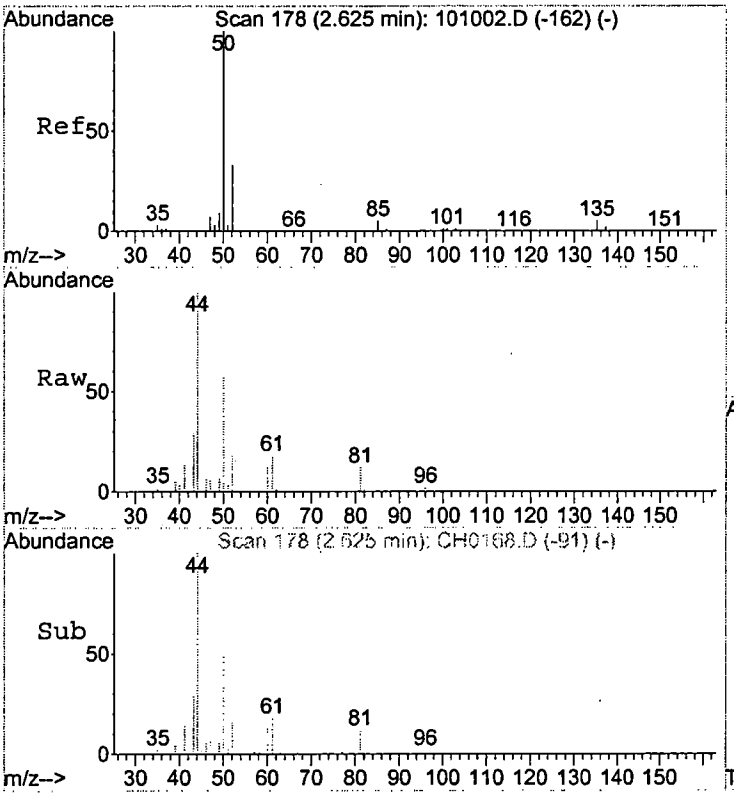


#3
Dichlorodifluoromethane
Concen: 0.56 PPB
RT: 2.45 min Scan# 149
Delta R.T. -0.00 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

Tgt Ion: 85 Resp: 128712

Ion	Ratio	Lower	Upper
85	100		
87	32.2	25.8	38.8

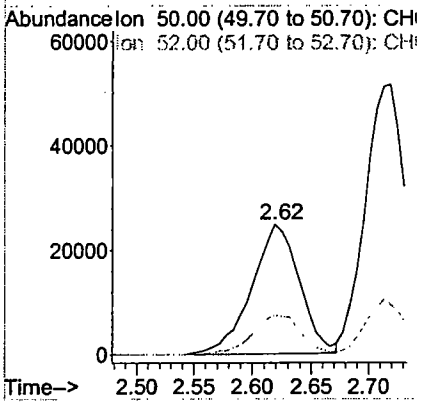




#6
Chloromethane
Concen: 5.54 PPB
RT: 2.62 min Scan# 178
Delta R.T. 0.01 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

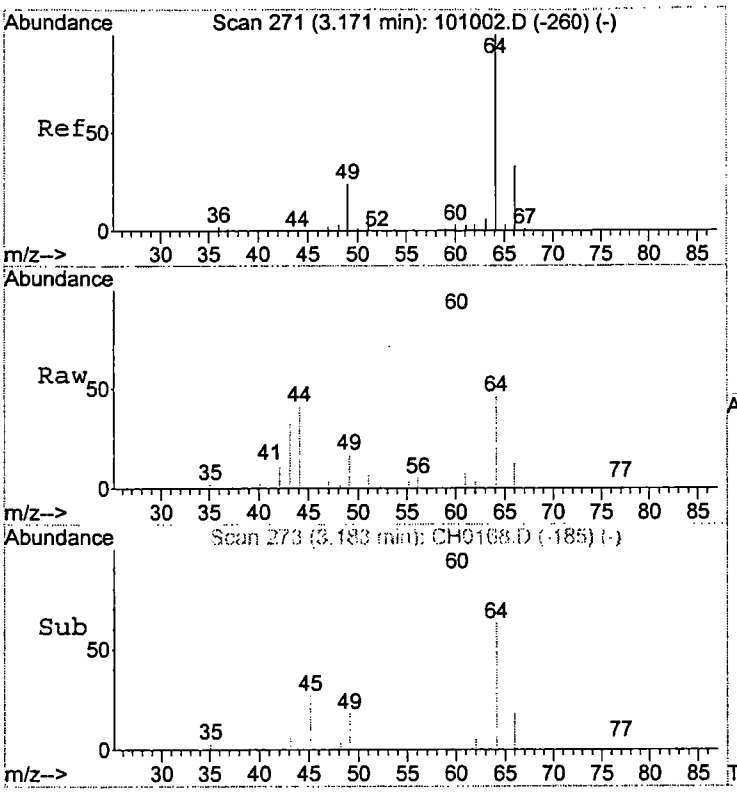
Tgt Ion: 50 Resp: 689838

Ion	Ratio	Lower	Upper
50	100		
52	31.7	21.0	31.4#



0131

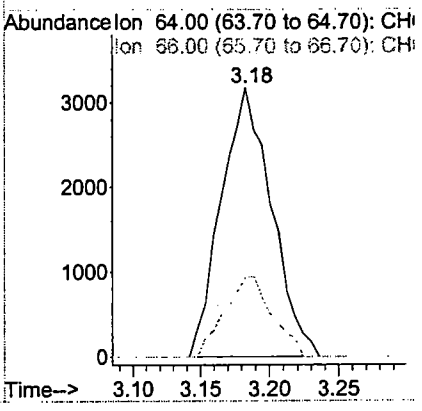
ORIGINAL

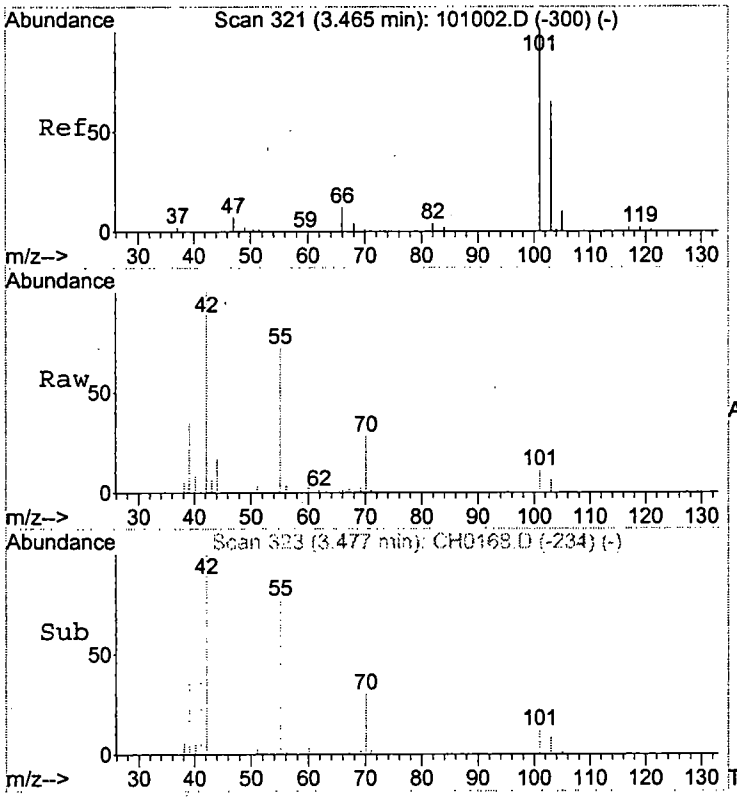


#10
Chloroethane
Concen: 2.23 PPB
RT: 3.19 min Scan# 273
Delta R.T. 0.02 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

Tgt Ion: 64 Resp: 79963

Ion	Ratio	Lower	Upper
64	100		
66	28.1	23.3	34.9

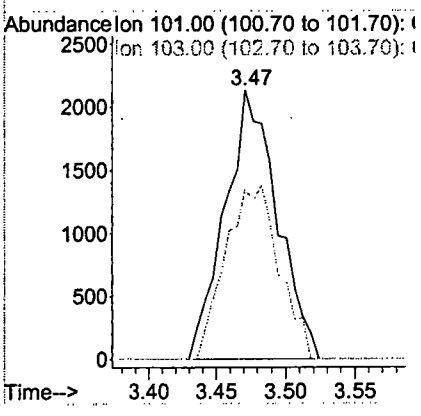




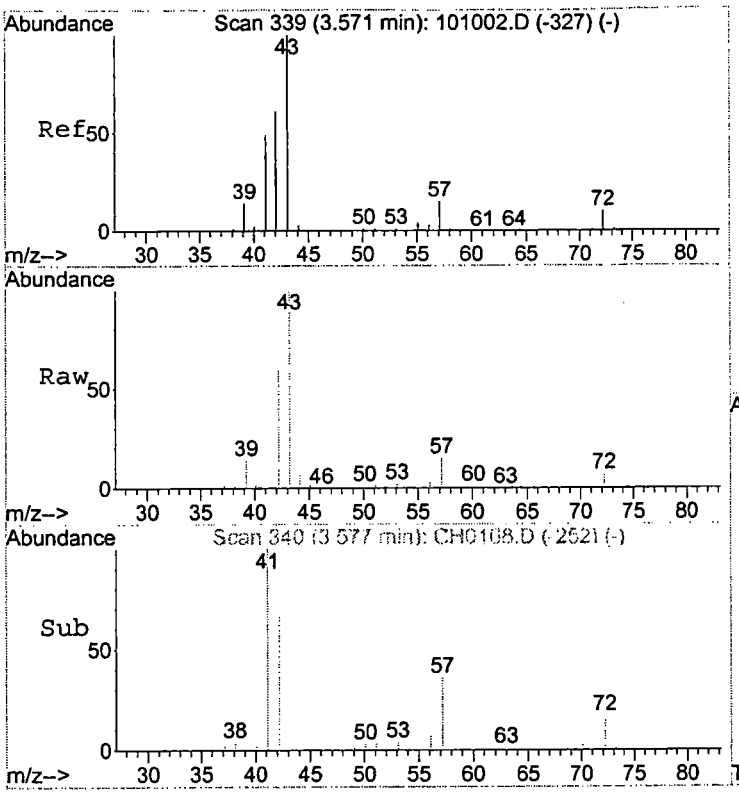
#12
Trichlorofluoromethane
Concen: 0.22 PPB
RT: 3.48 min Scan# 323
Delta R.T. 0.02 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

Tgt Ion:101 Resp: 55820

Ion	Ratio	Lower	Upper
101	100		
103	66.3	52.2	78.4



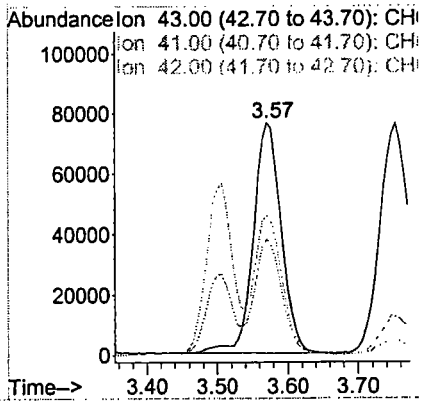
8132



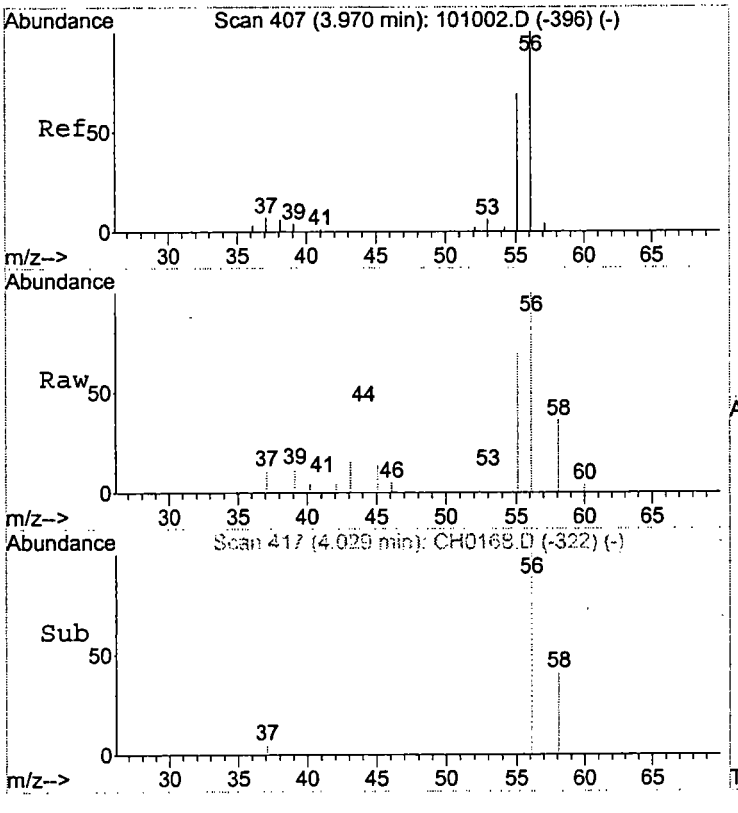
#13
Pentane
Concen: 11.87 PPB
RT: 3.57 min Scan# 340
Delta R.T. 0.01 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

Tgt Ion: 43 Resp: 2078457

Ion	Ratio	Lower	Upper
43	100		
41	50.3	37.7	56.5
42	60.9	47.8	71.8



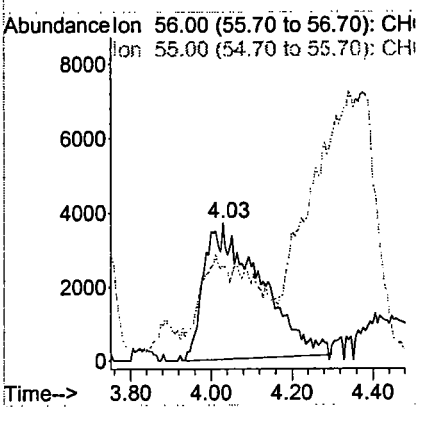
ORIGINAL



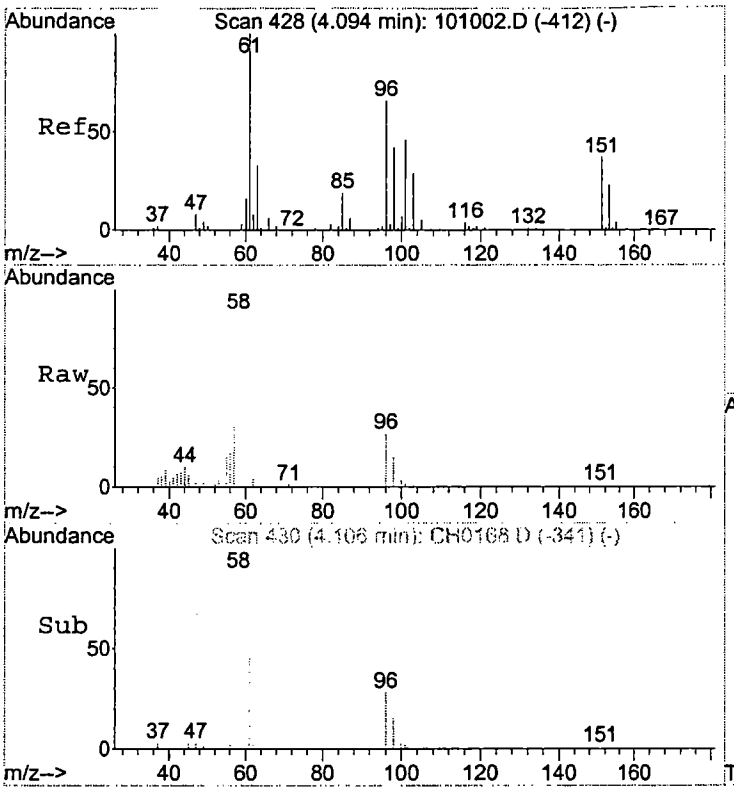
#14
Acrolein
Concen: 16.33 PPB
RT: 4.03 min Scan# 417
Delta R.T. 0.06 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

Tgt Ion: 56 Resp: 358579

Ion	Ratio	Lower	Upper
56	100		
55	0.0	55.9	83.9#



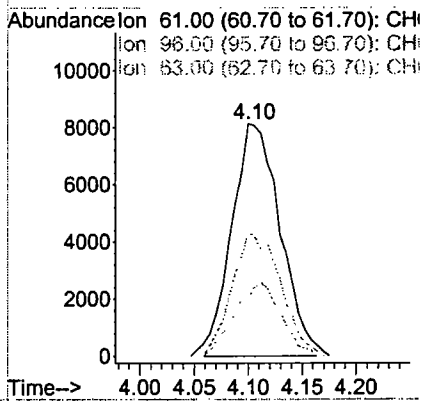
0133



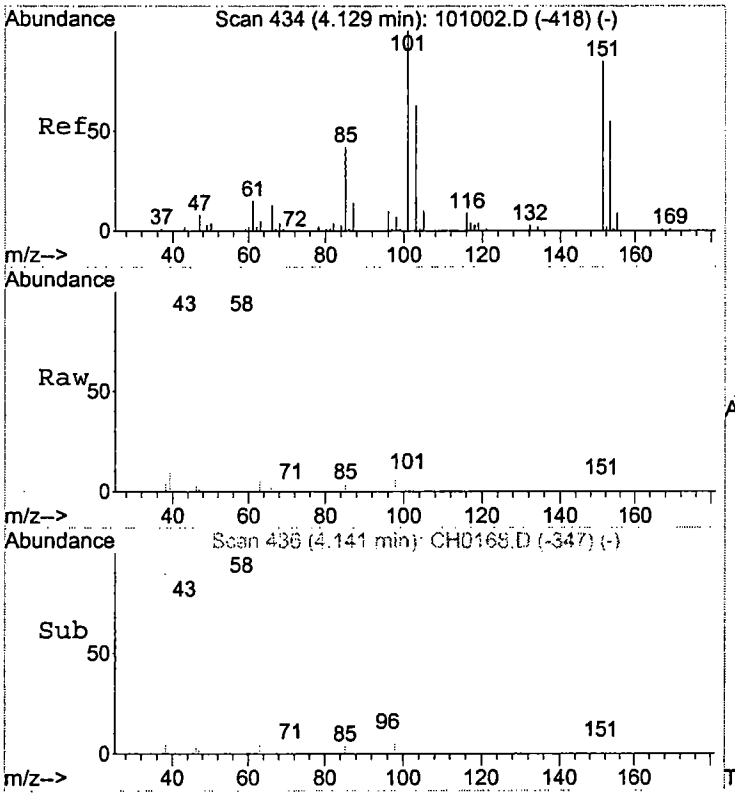
#15
1,1-Dichloroethene
Concen: 1.84 PPB
RT: 4.11 min Scan# 430
Delta R.T. 0.02 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

Tgt Ion: 61 Resp: 253792

Ion	Ratio	Lower	Upper
61	100		
96	52.9	44.5	66.7
63	29.9	24.4	36.6



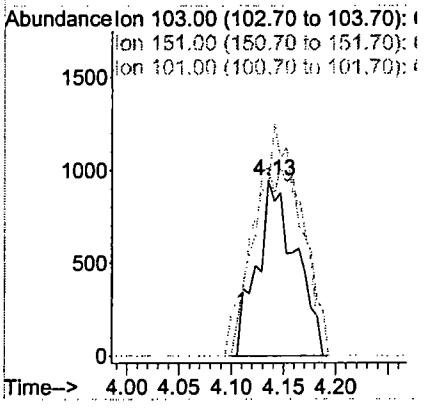
ORIGINAL



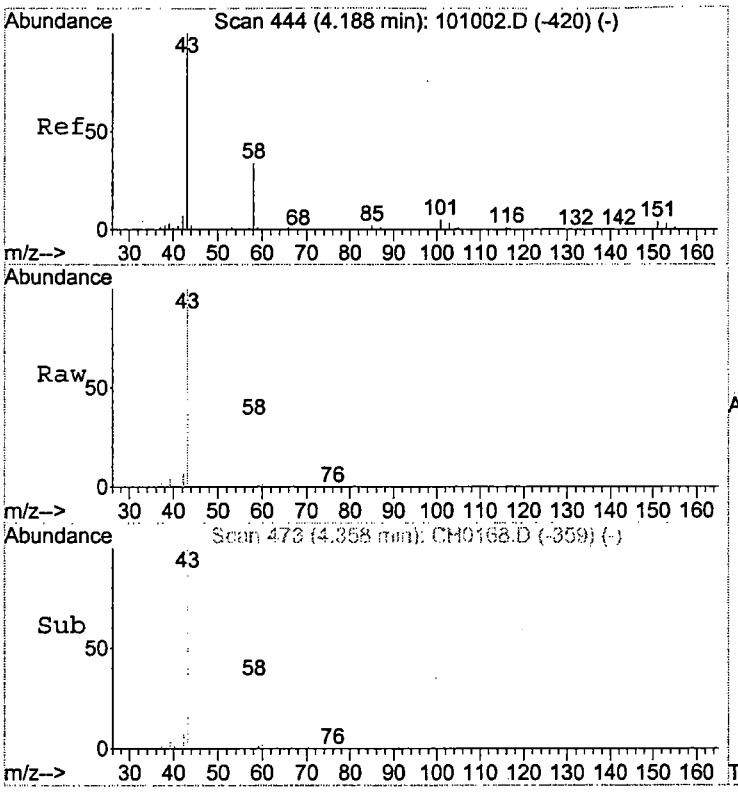
#16
Freon 113
Concen: 0.23 PPB
RT: 4.14 min Scan# 436
Delta R.T. 0.02 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

Tgt Ion:103 Resp: 24337

Ion	Ratio	Lower	Upper
103	100		
151	145.1	107.8	161.8
101	157.2	124.7	187.1



0134

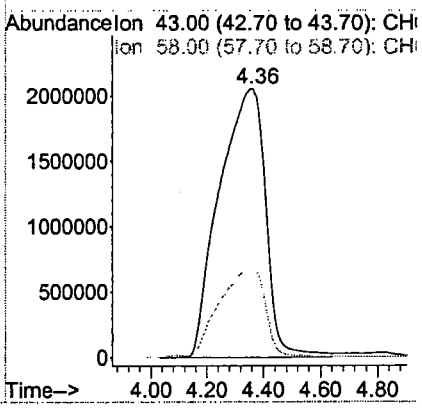


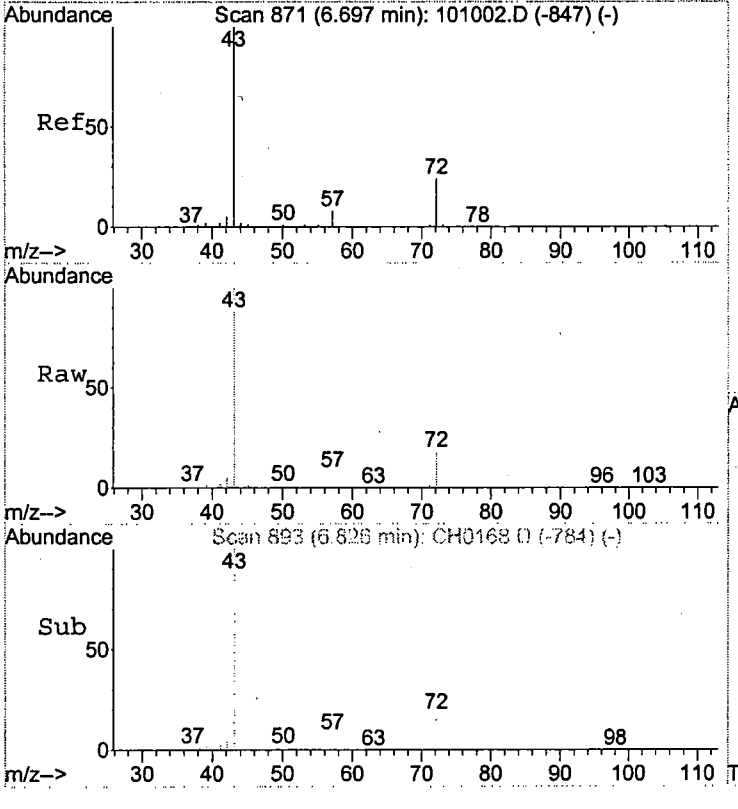
#17
Acetone
Concen: 1757.03 PPB m
RT: 4.36 min Scan# 473
Delta R.T. 0.17 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

Tgt Ion: 43 Resp:232417980

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.2	42.4#

ORIGINAL

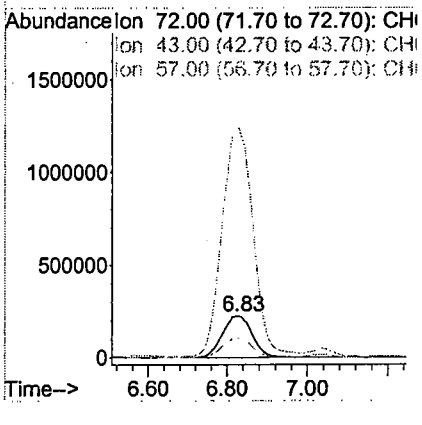




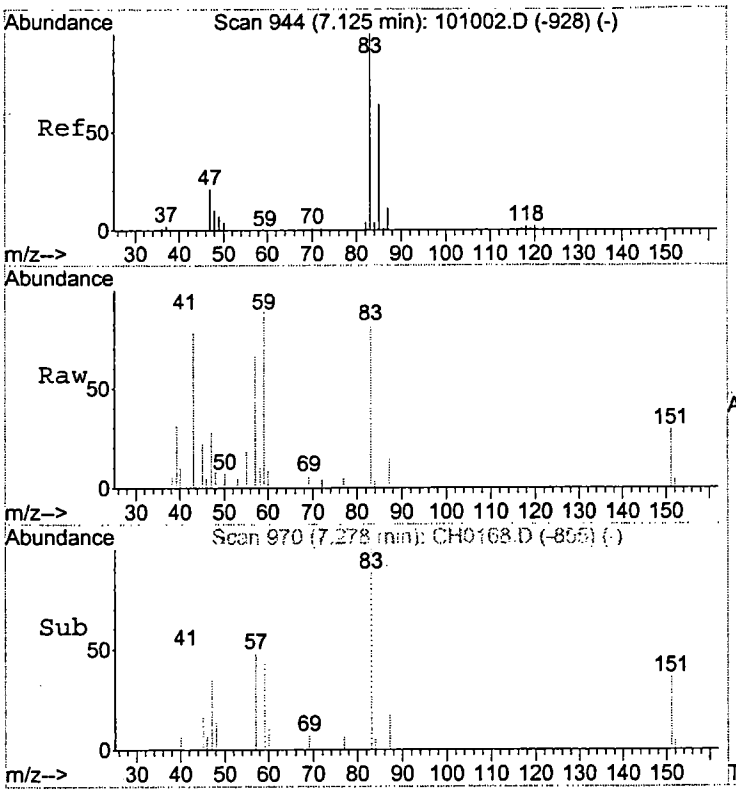
#31
2-Butanone
Concen: 453.49 PPB
RT: 6.83 min Scan# 893
Delta R.T. 0.14 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

Tgt Ion: 72 Resp:11654718

Ion	Ratio	Lower	Upper
72	100		
43	573.0	415.1	622.7
57	46.7	28.9	43.3#



0135

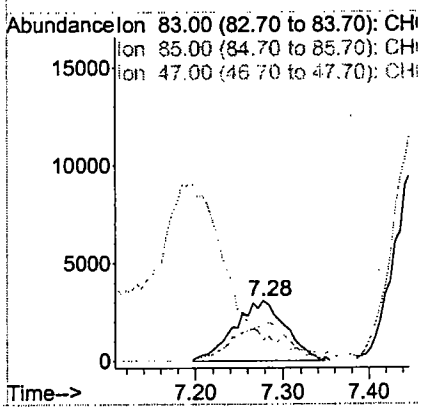


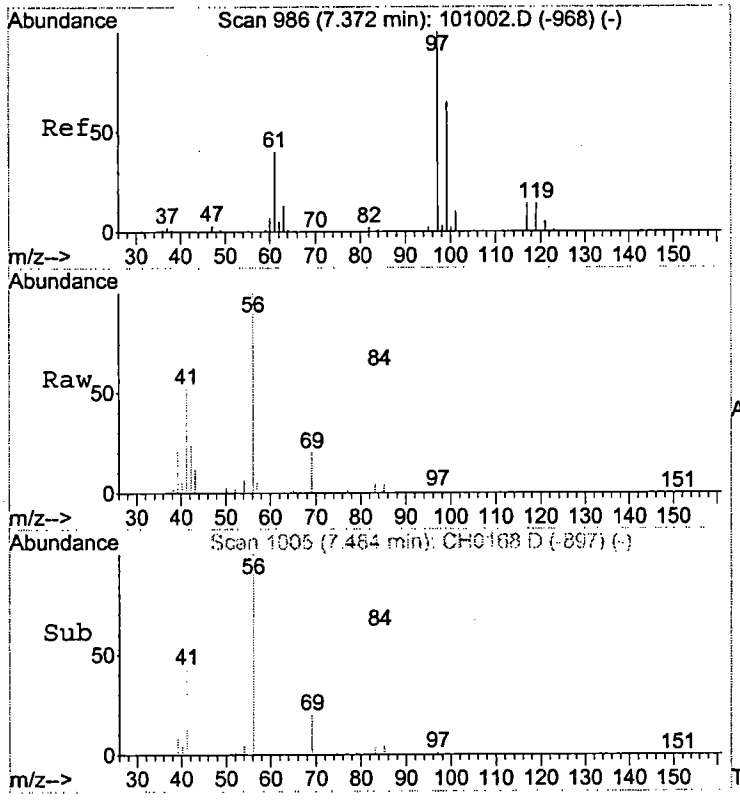
#34
Chloroform
Concen: 0.79 PPB
RT: 7.28 min Scan# 970
Delta R.T. 0.18 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

ORIGINAL

Tgt Ion: 83 Resp: 124664

Ion	Ratio	Lower	Upper
83	100		
85	0.0	54.9	82.3#
47	0.0	23.1	34.7#

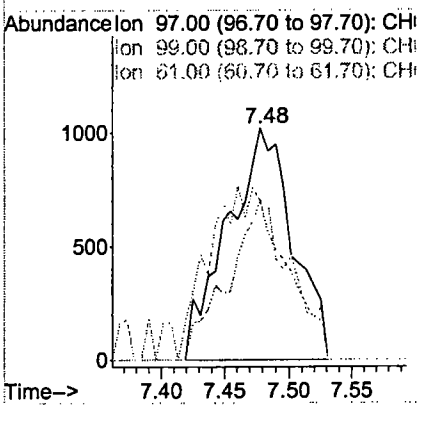




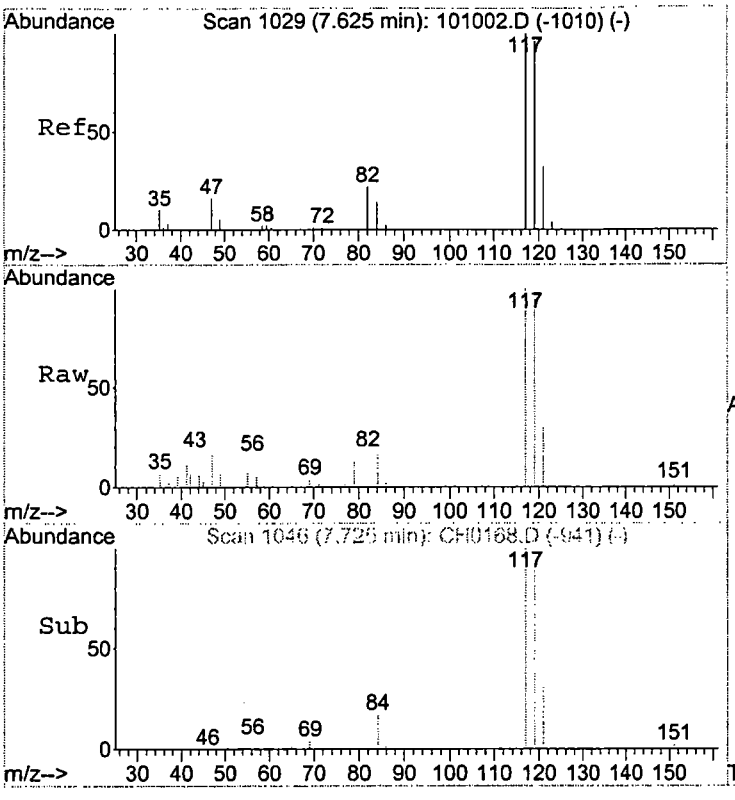
#35
1,1,1-Trichloroethane
Concen: 0.19 PPB
RT: 7.48 min Scan# 1005
Delta R.T. 0.13 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

Tgt Ion: 97 Resp: 35928

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.4	77.0#
61	0.0	36.6	55.0#



0136

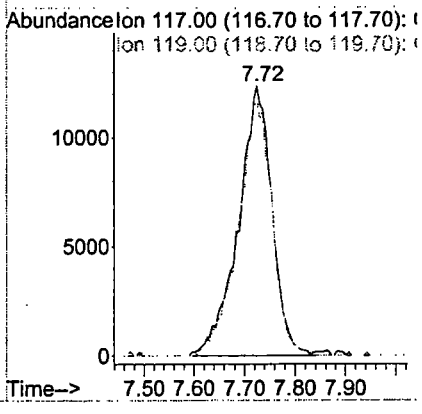


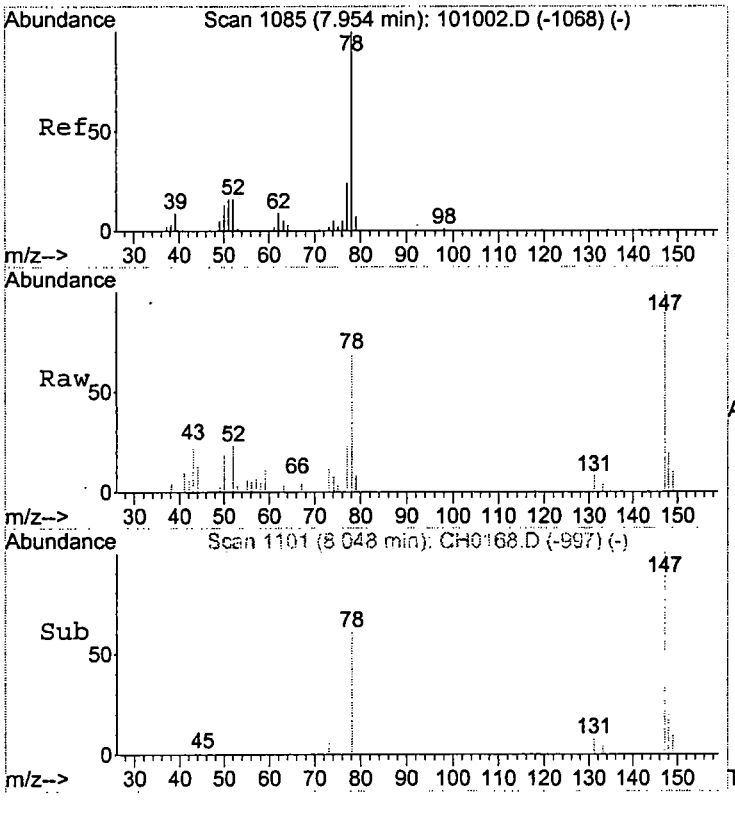
#36
Carbon Tetrachloride
Concen: 2.52 PPB
RT: 7.73 min Scan# 1046
Delta R.T. 0.12 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

ORIGINAL

Tgt Ion:117 Resp: 581098

Ion	Ratio	Lower	Upper
117	100		
119	95.2	77.6	116.4

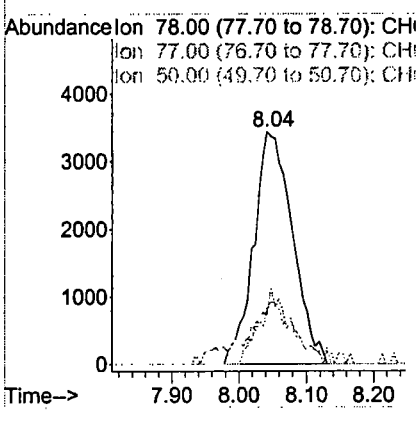




#39
Benzene
Concen: 0.73 PPB
RT: 8.05 min Scan# 1101
Delta R.T. 0.11 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

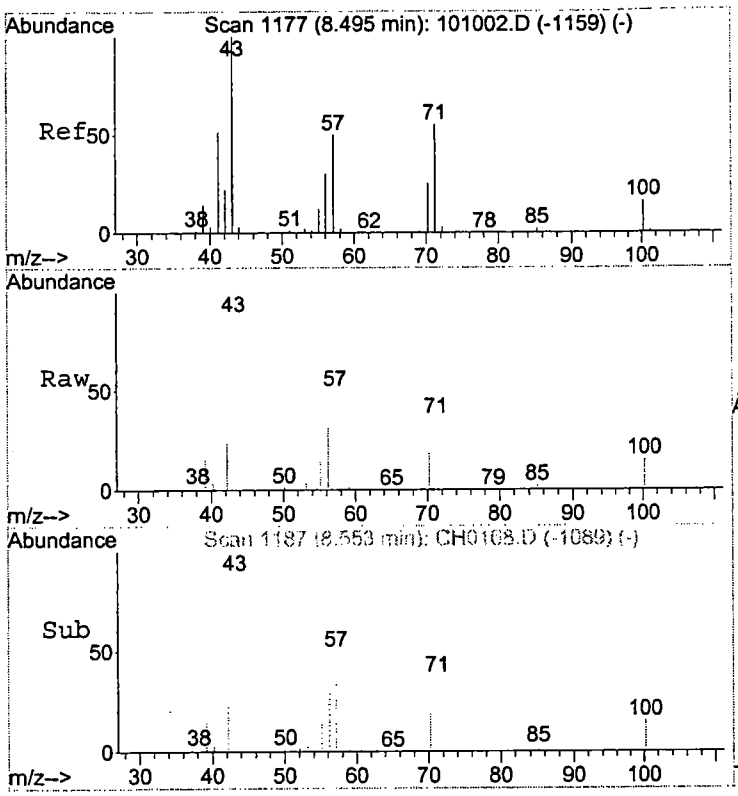
Tgt Ion: 78 Resp: 136748

Ion	Ratio	Lower	Upper
78	100		
77	28.4	18.6	27.8#
50	0.0	16.9	25.3#



0137

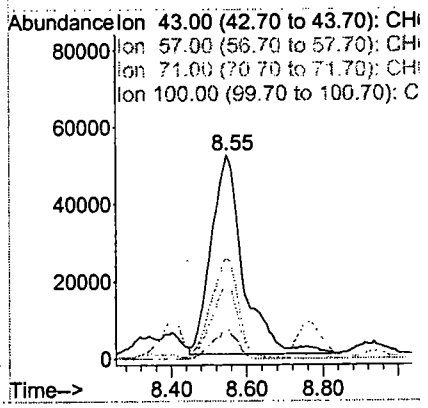
ORIGINAL

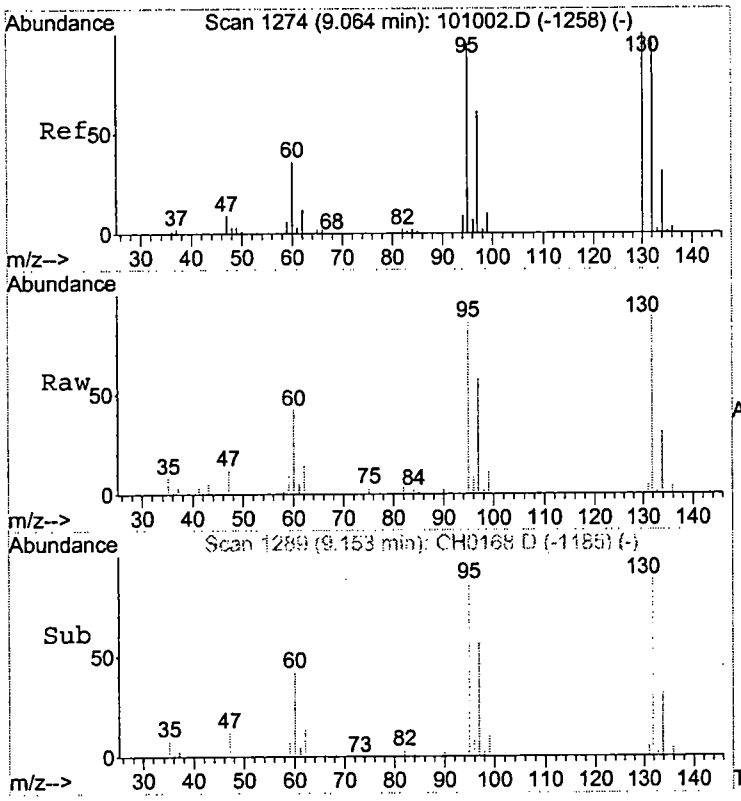


#41
Heptane
Concen: 16.64 PPB
RT: 8.55 min Scan# 1187
Delta R.T. 0.07 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

Tgt Ion: 43 Resp: 3051055

Ion	Ratio	Lower	Upper
43	100		
57	41.1	39.4	59.2
71	30.2	30.1	45.1
100	11.2	11.7	17.5#

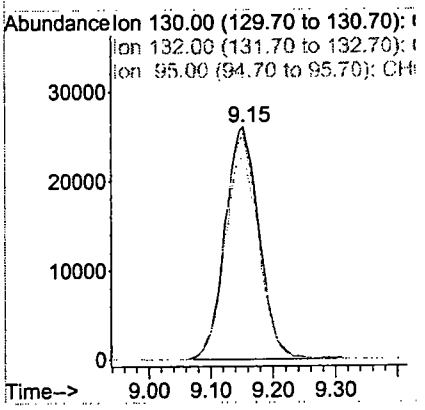




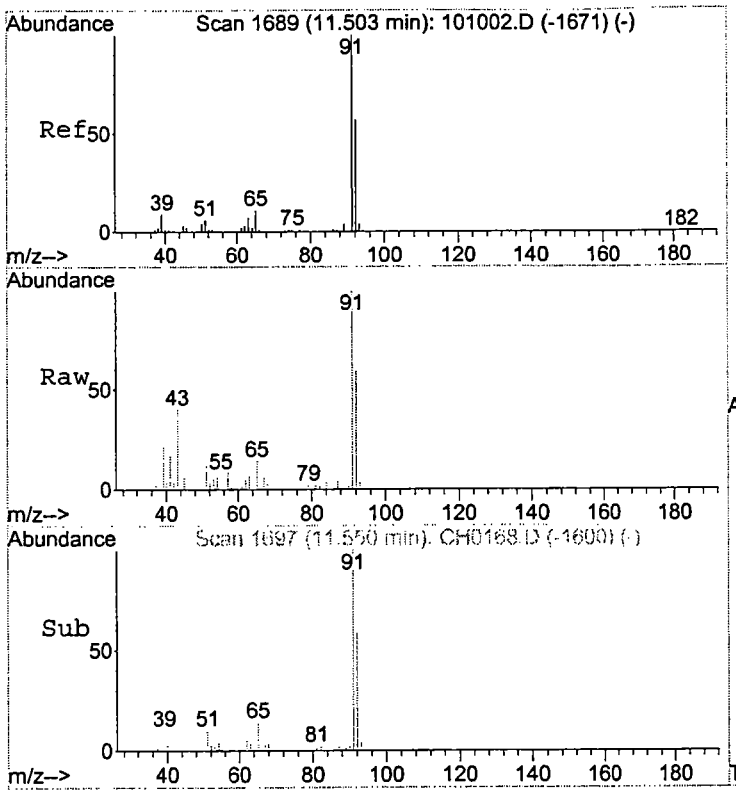
#42
Trichloroethene
Concen: 7.62 PPB
RT: 9.15 min Scan# 1289
Delta R.T. 0.11 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

Tgt Ion:130 Resp: 990130

Ion	Ratio	Lower	Upper
130	100		
132	96.8	77.6	116.4
95	88.4	67.4	101.2



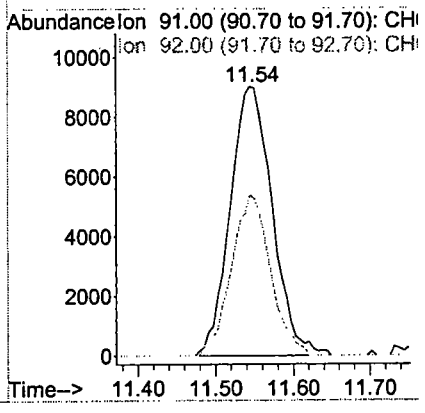
0138

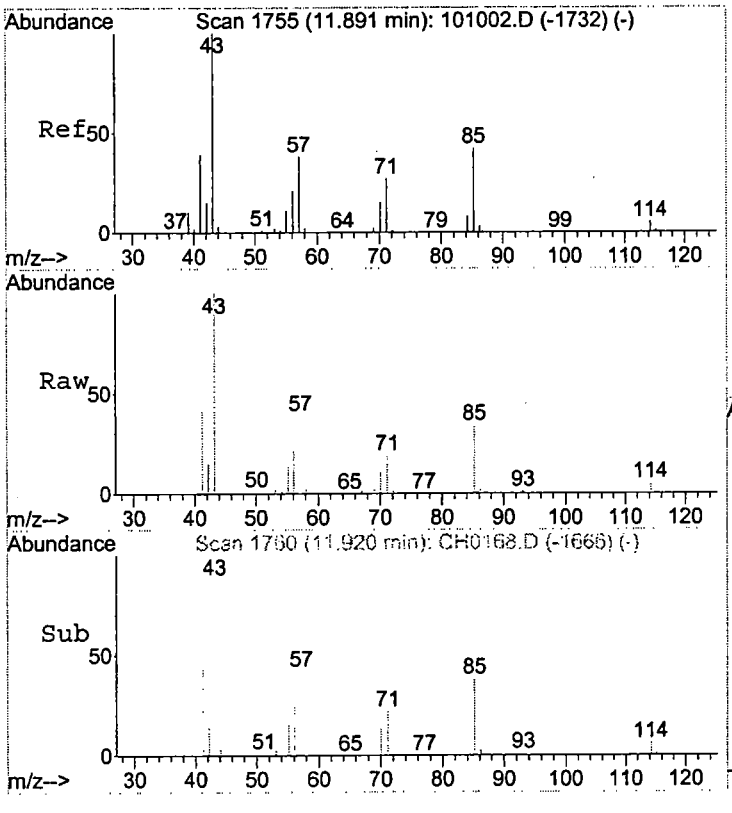


#52
Toluene
Concen: 1.34 PPB
RT: 11.55 min Scan# 1697
Delta R.T. 0.07 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

Tgt Ion: 91 Resp: 338248

Ion	Ratio	Lower	Upper
91	100		
92	55.4	47.2	70.8

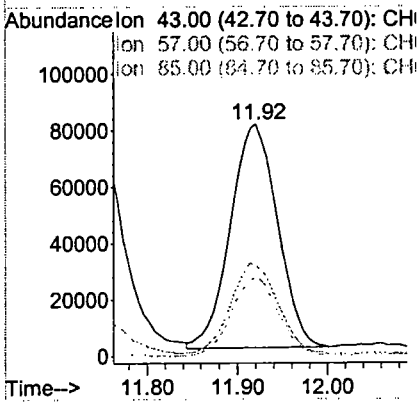


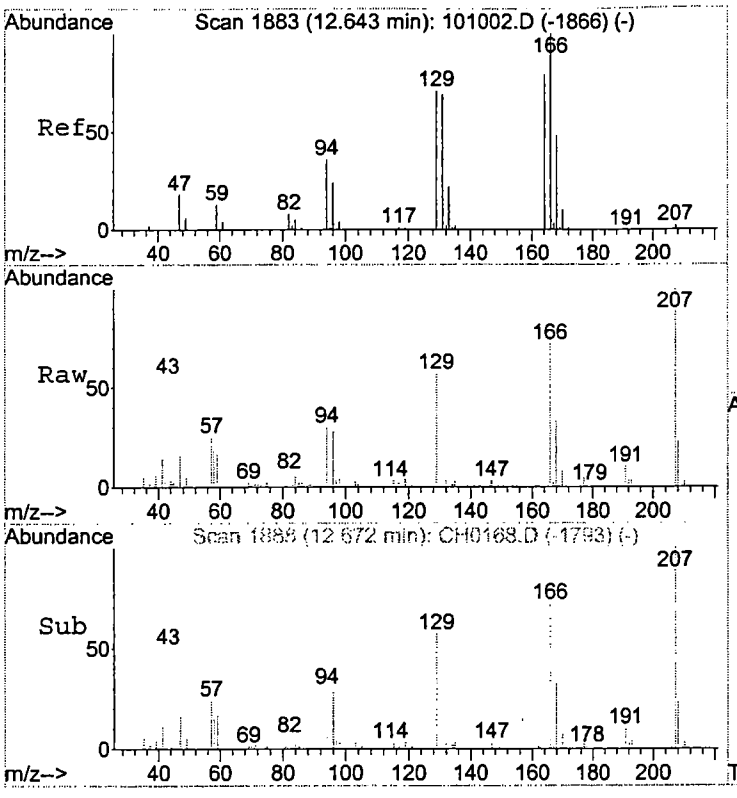


#53
Octane
Concen: 13.28 PPB
RT: 11.92 min Scan# 1760
Delta R.T. 0.05 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

Tgt Ion: 43 Resp: 2856519

Ion	Ratio	Lower	Upper
43	100		
57	41.0	32.2	48.4
85	34.8	28.1	42.1

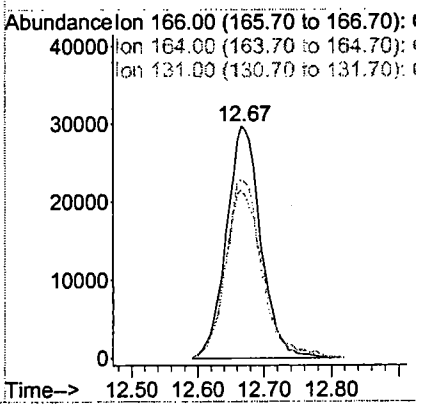




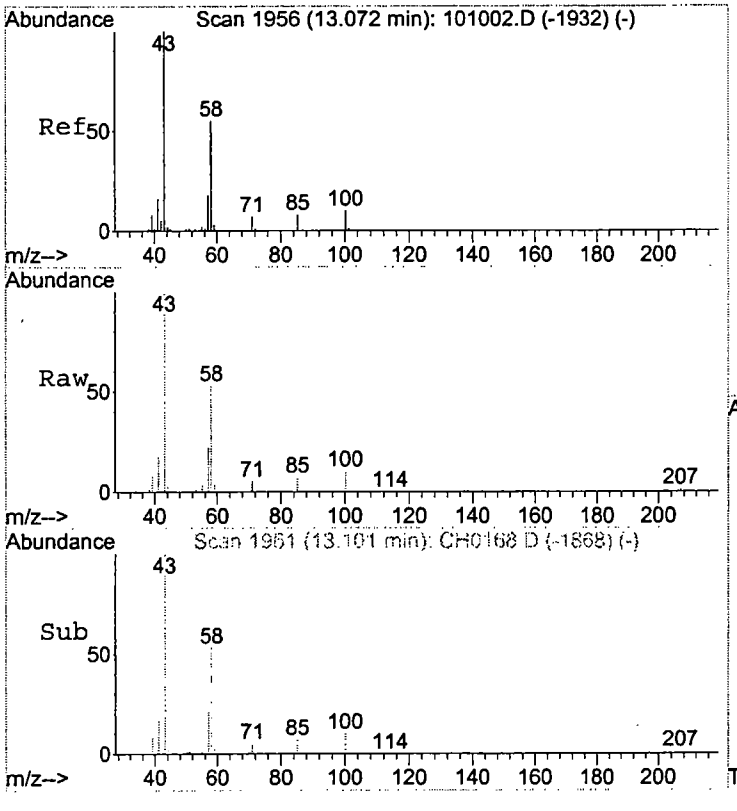
#57
Tetrachloroethene
Concen: 7.04 PPB
RT: 12.67 min Scan# 1888
Delta R.T. 0.06 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

Tgt Ion:166 Resp: 1071449

Ion	Ratio	Lower	Upper
166	100		
164	81.8	63.2	94.8
131	76.1	59.0	88.4



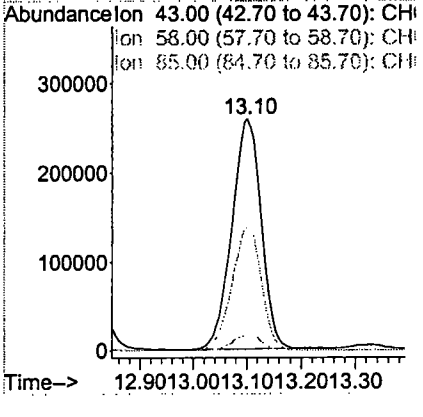
ORIGINAL

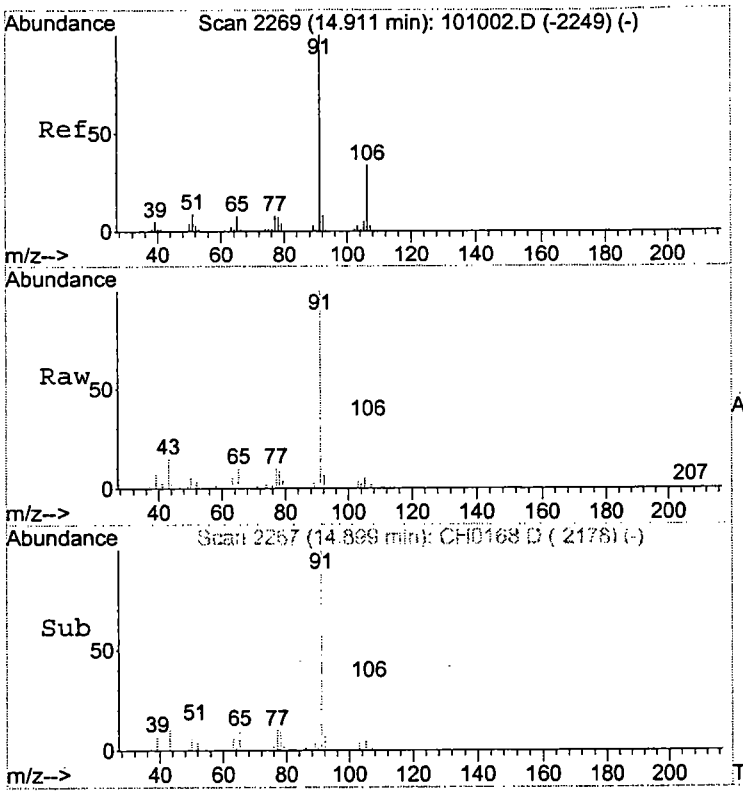


#58
2-Hexanone
Concen: 55.43 PPB
RT: 13.10 min Scan# 1961
Delta R.T. 0.05 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

Tgt Ion: 43 Resp: 9909013

Ion	Ratio	Lower	Upper
43	100		
58	53.9	42.6	63.8
85	7.1	5.8	8.6

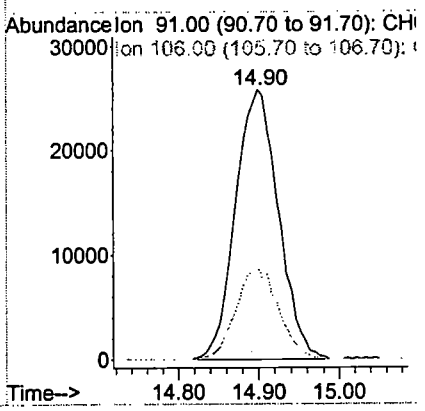




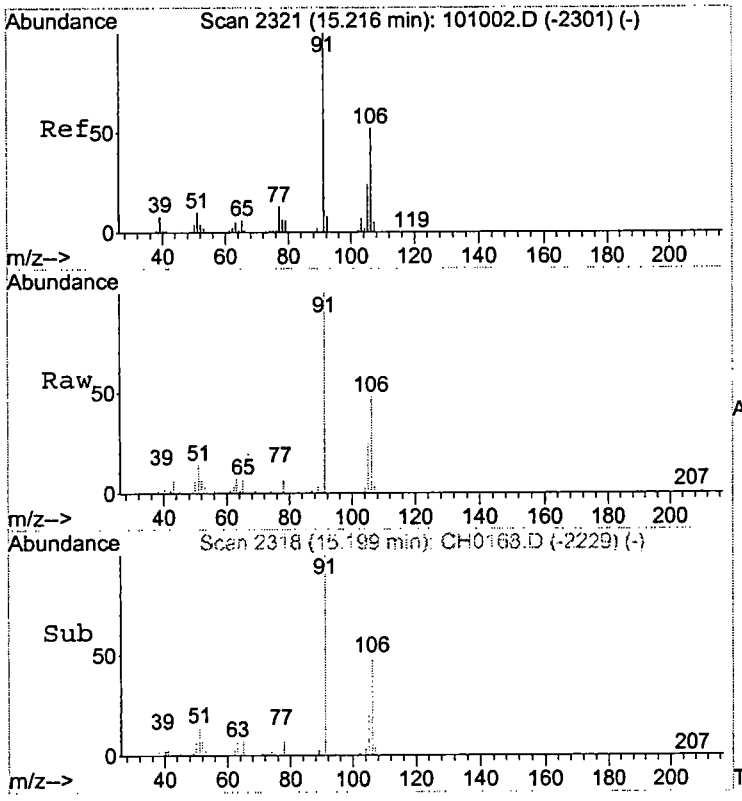
#63
Ethylbenzene
Concen: 3.12 PPB
RT: 14.90 min Scan# 2267
Delta R.T. 0.03 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

Tgt Ion: 91 Resp: 951186

Ion	Ratio	Lower	Upper
91	100		
106	33.7	27.7	41.5



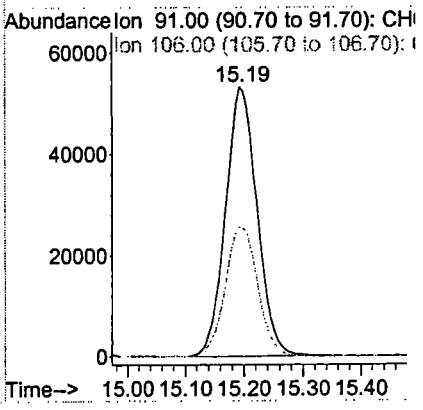
ORIGINAL



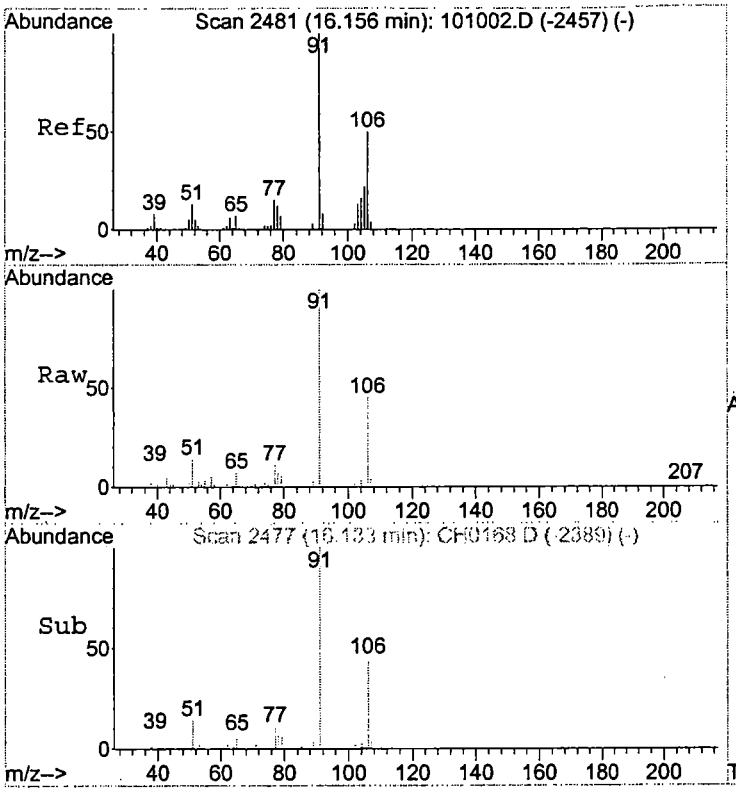
#64
m/p-Xylene
Concen: 7.60 PPB
RT: 15.20 min Scan# 2318
Delta R.T. 0.02 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

Tgt Ion: 91 Resp: 1982114

Ion	Ratio	Lower	Upper
91	100		
106	49.7	43.1	64.7



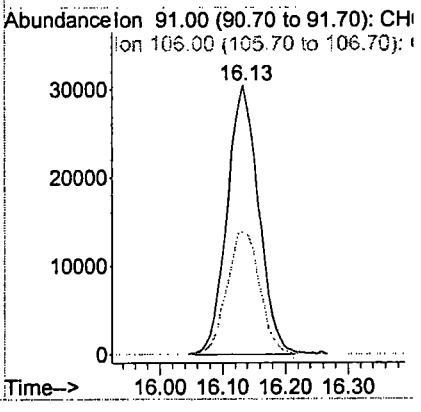
0141



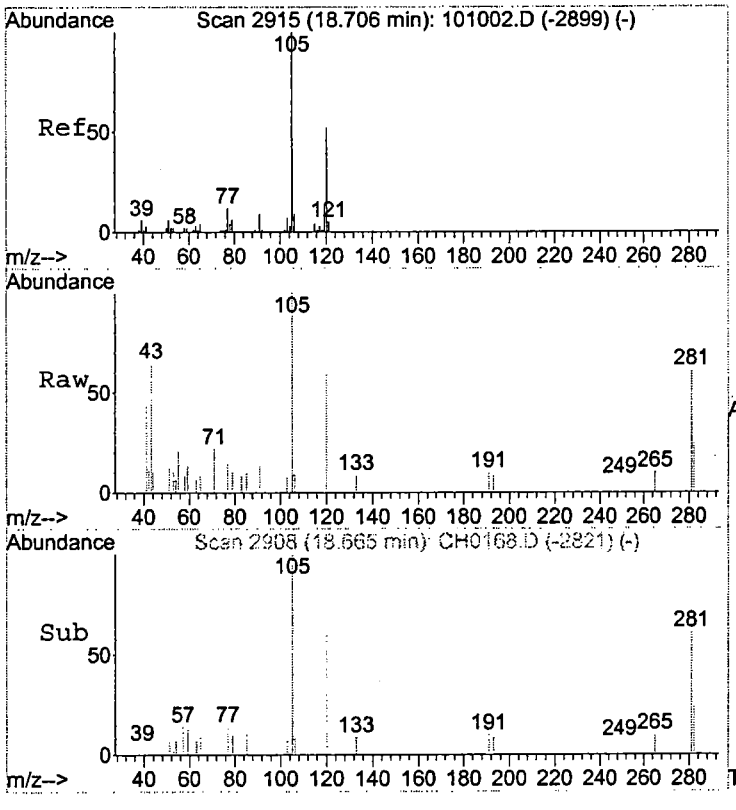
#65
o-Xylene
Concen: 4.40 PPB
RT: 16.14 min Scan# 2477
Delta R.T. 0.02 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

Tgt Ion: 91 Resp: 1074512

Ion	Ratio	Lower	Upper
91	100		
106	47.5	41.1	61.7



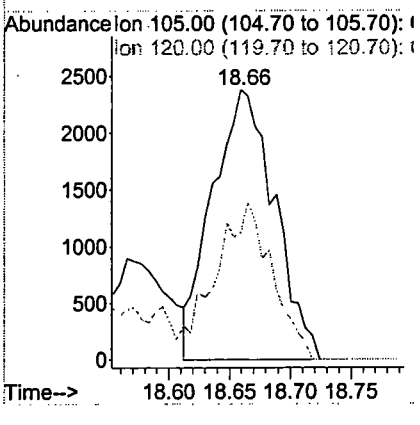
ORIGINAL



#73
1,3,5-Trimethylbenzene
Concen: 0.25 PPB
RT: 18.66 min Scan# 2908
Delta R.T. 0.01 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

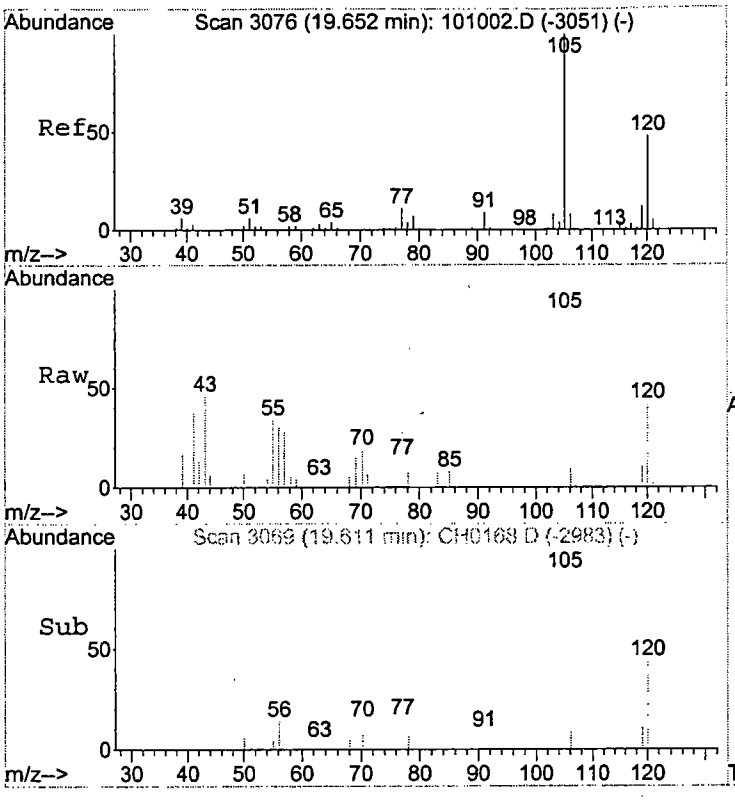
Tgt Ion:105 Resp: 85974

Ion	Ratio	Lower	Upper
105	100		
120	52.8	42.2	63.4



0142

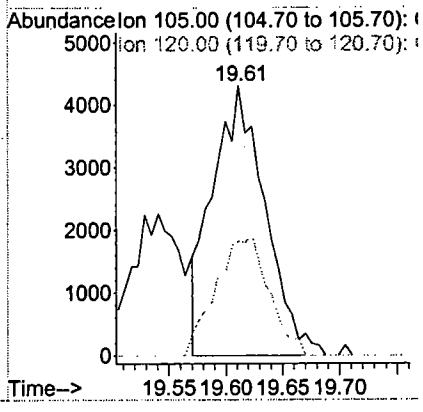
ORIGINAL

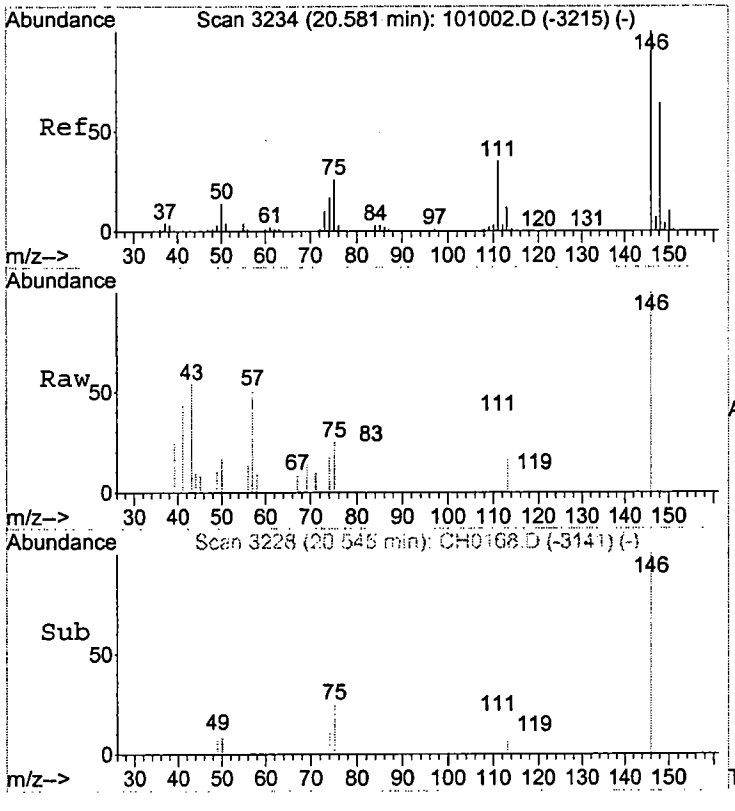


#75
1,2,4-Trimethylbenzene
Concen: 0.39 PPB
RT: 19.61 min Scan# 3069
Delta R.T. 0.01 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

Tgt Ion:105 Resp: 146355

Ion	Ratio	Lower	Upper
105	100		
120	42.2	40.5	60.7

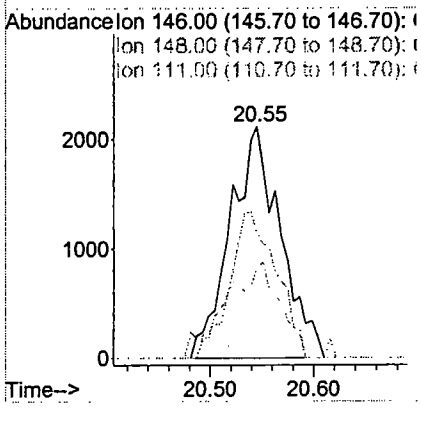




#77
1,4-Dichlorobenzene
Concen: 0.25 PPB
RT: 20.55 min Scan# 3228
Delta R.T. 0.01 min
Lab File: CH0168.D
Acq: 11 Aug 2005 11:08

Tgt Ion:146 Resp: 71388

Ion	Ratio	Lower	Upper
146	100		
148	60.2	52.0	78.0
111	0.0	29.0	43.4#



8143

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

ORIGINAL

Sample No.: TOE32 Date Collected: 08/10/05 Date Received: 08/11/05
Lab Sample ID: 4581596 Date Analyzed: 08/11/05 Time Analyzed: 11:08
Canister ID: SUMMA0190 Pressure Rec'd: 14.0 psia Final Pressure: 28.1 psia
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP0946 Lab File ID: C:\MSDCHEM\1\DATA\AUG10\CH0168.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
115-11-7	1-Propene, 2-methyl-	2.72	89	J
75-07-0	Acetaldehyde	2.86	52	J
57-14-7	Unknown	3.06	43	J
75-91-2	Unknown	5.47	390	J
110-54-3	Unknown	5.58	55	J
60-35-5	Unknown	5.70	110	J
107-87-9	Unknown ketone	9.55	35	J
75-97-8	Unknown ketone	10.18	24	J
541-05-9	Siloxane	12.73	57	J
556-67-2	Siloxane	18.58	23	J

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.

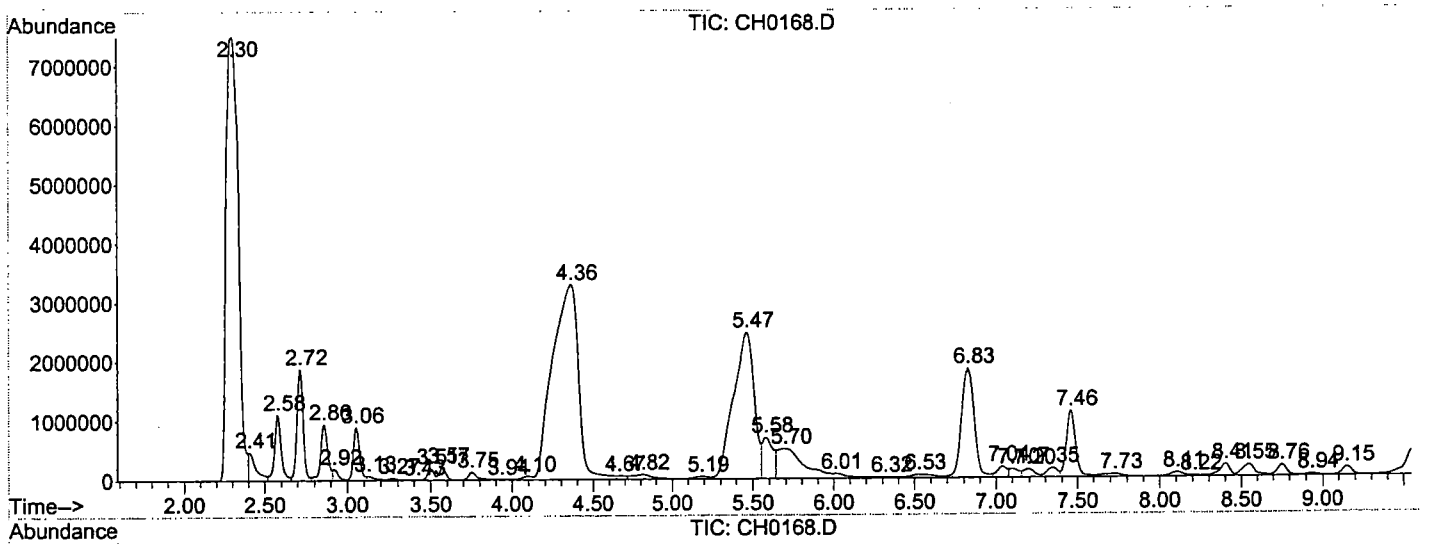
LSC Report - Integrated Chromatogram

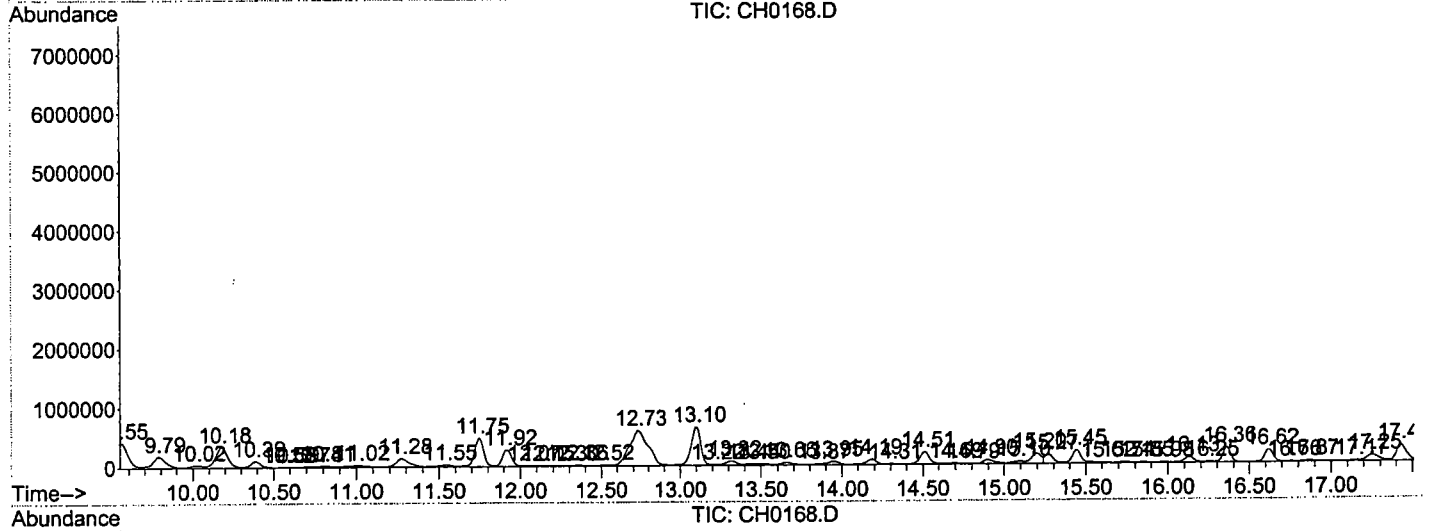
Data Path : C:\MSDCHEM\1\DATA\AUG10\
Data File : CH0168.D
Acq On : 11 Aug 2005 11:08
Operator : RDG
Sample : 4581596 500CC
Misc :
ALS Vial : 38 Sample Multiplier: 1

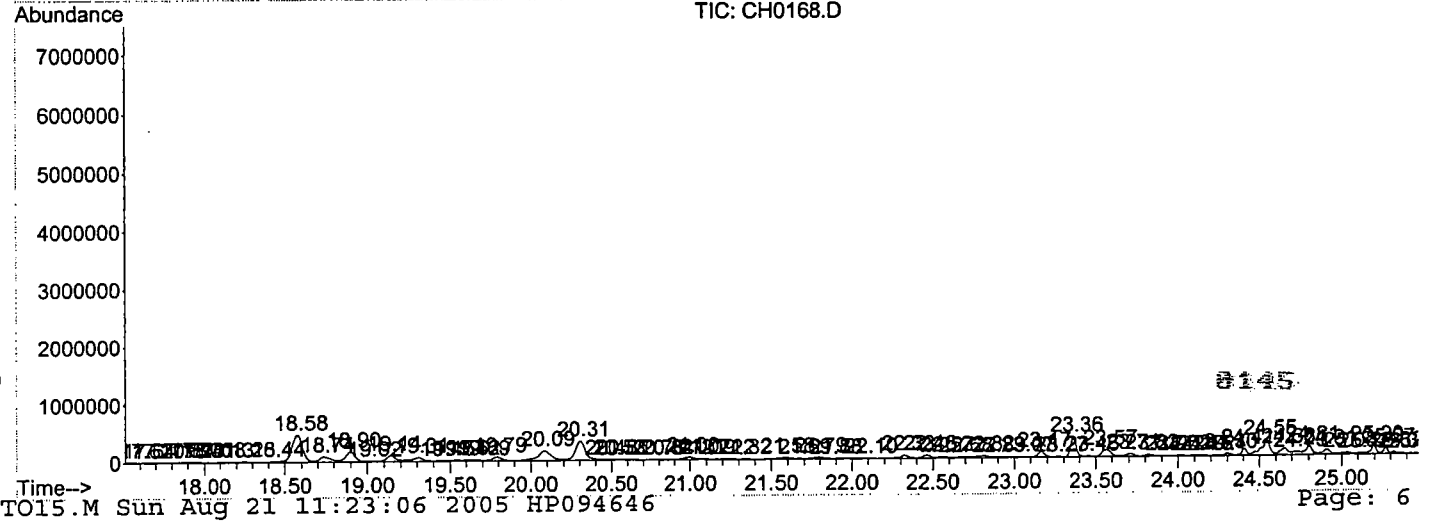
ORIGINAL

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e







B145

Library Search Compound Report

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG10\
Data File : CH0168.D
Acq On : 11 Aug 2005 11:08
Operator : RDG
Sample : 4581596 500CC
Misc :
ALS Vial : 38 Sample Multiplier: 1

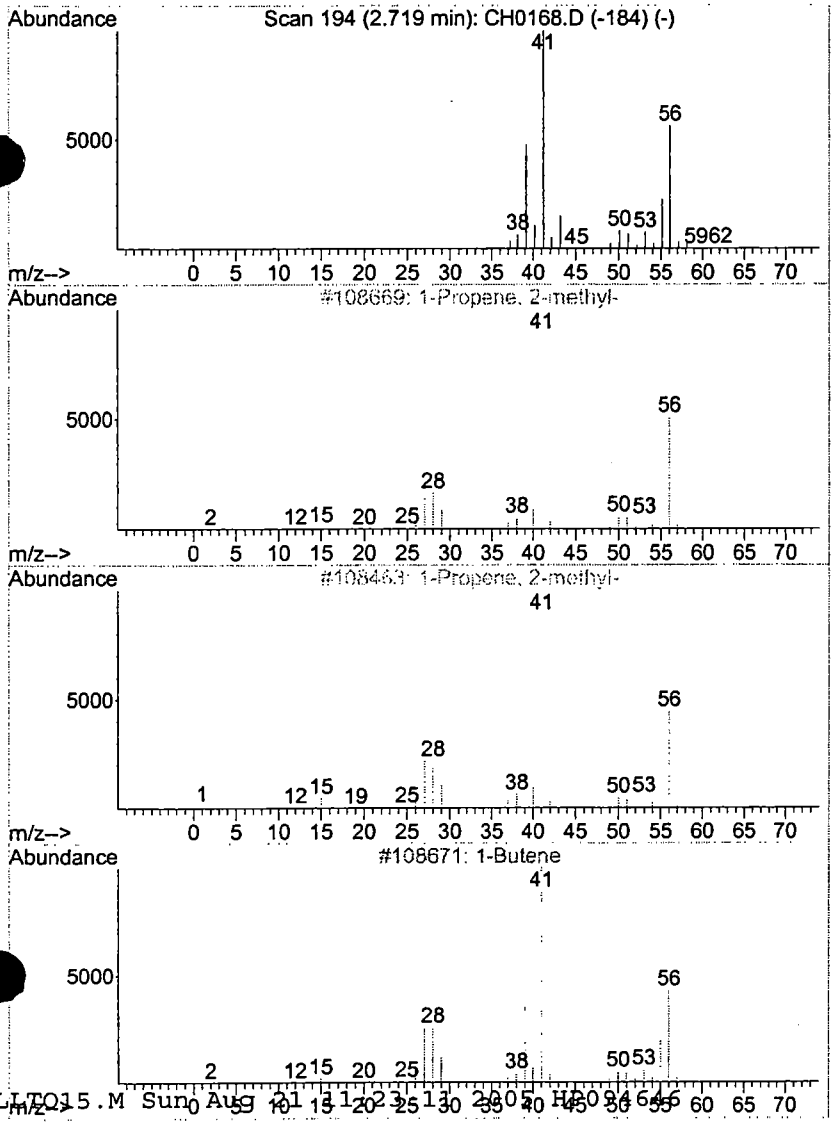
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

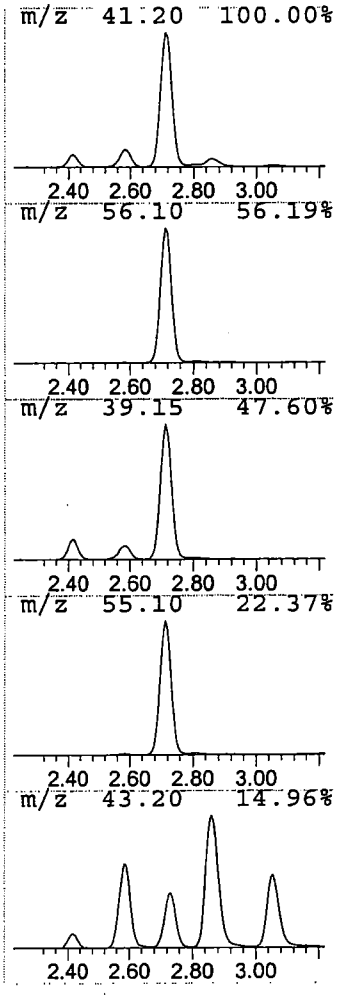
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 2 1-Propene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.72	88.85	49621000	Bromochloromethane	7.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 2-methyl-	56	C4H8	000115-11-7	90
2	1-Propene, 2-methyl-	56	C4H8	000115-11-7	90
3	1-Butene	56	C4H8	000106-98-9	87
4	1-Butene	56	C4H8	000106-98-9	87
5	1-Butene	56	C4H8	000106-98-9	87





0146

Library Search Compound Report

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG10\
Data File : CH0168.D
Acq On : 11 Aug 2005 11:08
Operator : RDG
Sample : 4581596 500CC
Misc :
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

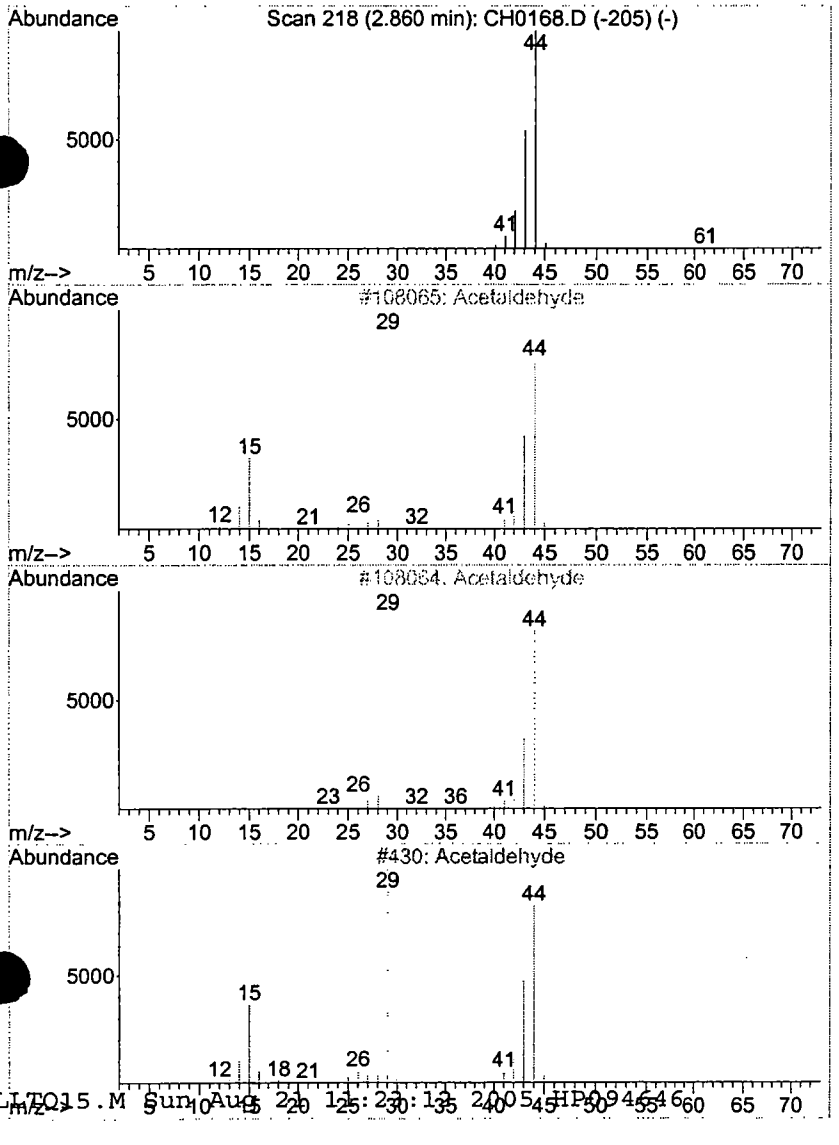
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

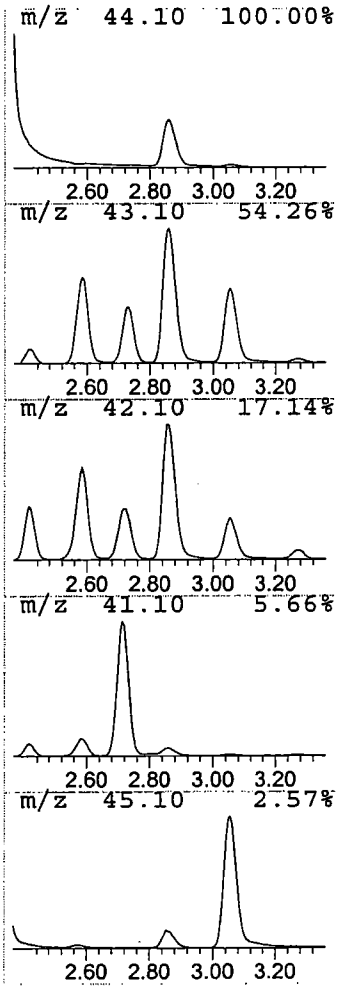
****

Peak Number 3 Acetaldehyde Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.86	51.55	28788400	Bromochloromethane	7.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetaldehyde	44	C2H4O	000075-07-0	74
2	Acetaldehyde	44	C2H4O	000075-07-0	74
3	Acetaldehyde	44	C2H4O	000075-07-0	74
4	Acetaldehyde	44	C2H4O	000075-07-0	7
5	Ethylene oxide	44	C2H4O	000075-21-8	5





0147

Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\AUG10\
Data File : CH0168.D
Acq On : 11 Aug 2005 11:08
Operator : RDG
Sample : 4581596 500CC
Misc :
ALS Vial : 38 Sample Multiplier: 1

ORIGINAL

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

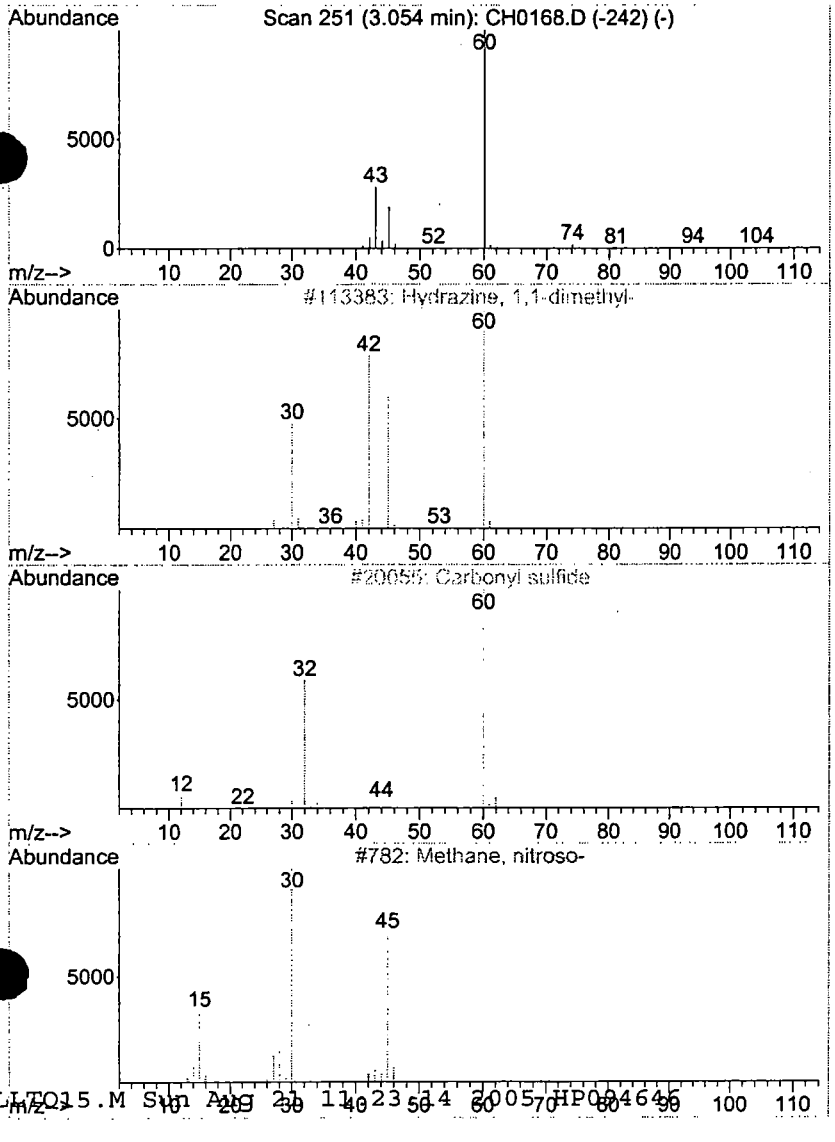
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

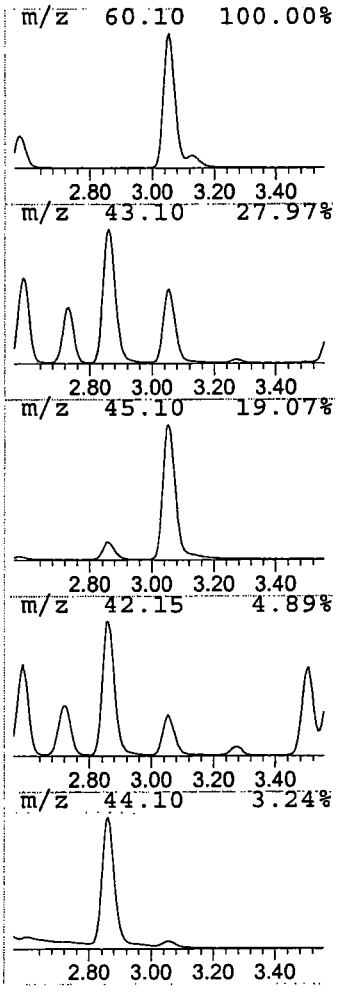
[redacted]

****
Peak Number 4 Hydrazine, 1,1-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.06	43.16	24103900	Bromochloromethane	7.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hydrazine, 1,1-dimethyl-	60	C2H8N2	000057-14-7	5
2	Carbonyl sulfide	60	COS	000463-58-1	5
3	Methane, nitroso-	45	CH3NO	000865-40-7	4
4	1-Propanol	60	C3H8O	000071-23-8	4
5	Thiirane	60	C2H4S	000420-12-2	4





Library Search Compound Report

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG10\
Data File : CH0168.D
Acq On : 11 Aug 2005 11:08
Operator : RDG
Sample : 4581596 500CC
Misc :
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

[redacted]

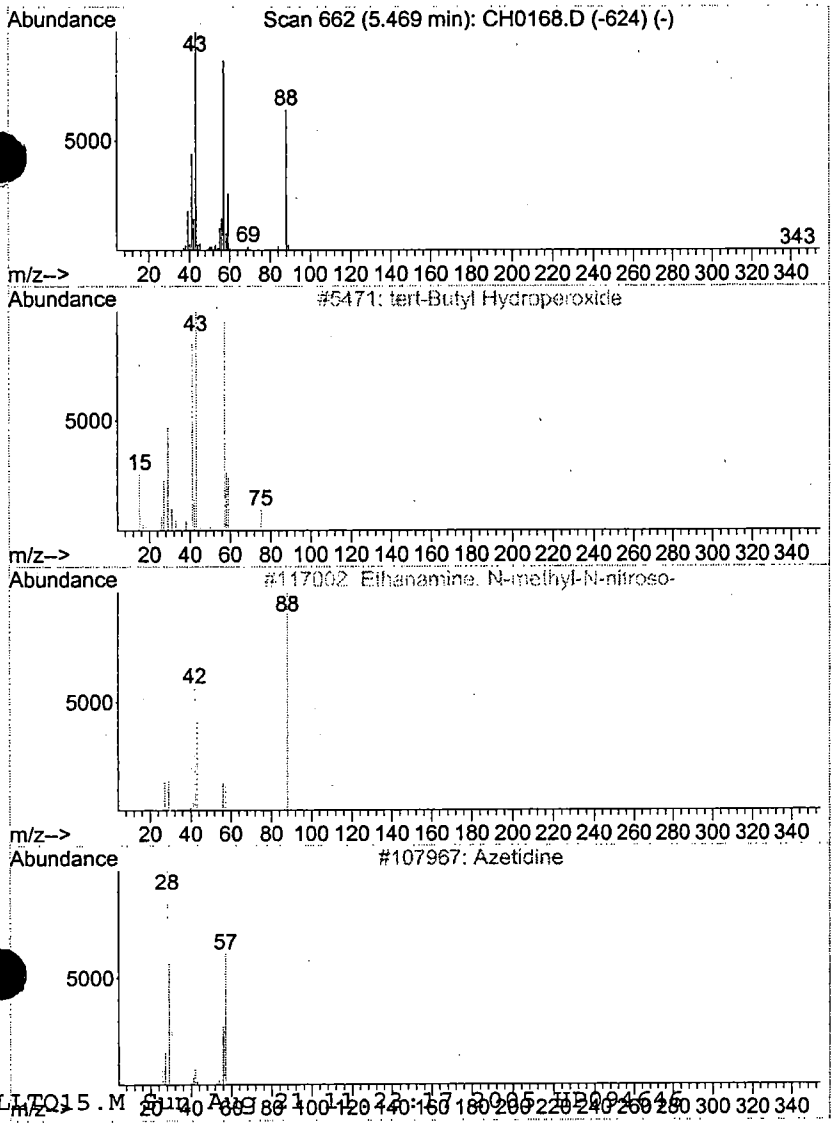
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

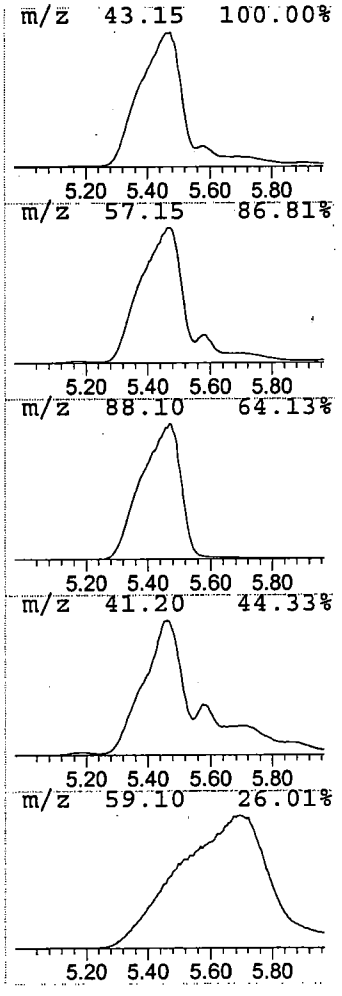
****

Peak Number 5 tert-Butyl Hydroperoxide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.47	387.42	216367000	Bromochloromethane	7.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	tert-Butyl Hydroperoxide	90	C4H10O2	000075-91-2	23
2	Ethanamine, N-methyl-N-nitroso-	88	C3H8N2O	010595-95-6	23
3	Azetidine	57	C3H7N	000503-29-7	9
4	1,3-Dioxolan-2-one	88	C3H4O3	000096-49-1	9
5	1,3-Dioxolan-2-one	88	C3H4O3	000096-49-1	9





0149

Library Search Compound Report

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG10\
Data File : CH0168.D
Acq On : 11 Aug 2005 11:08
Operator : RDG
Sample : 4581596 500CC
Misc :
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

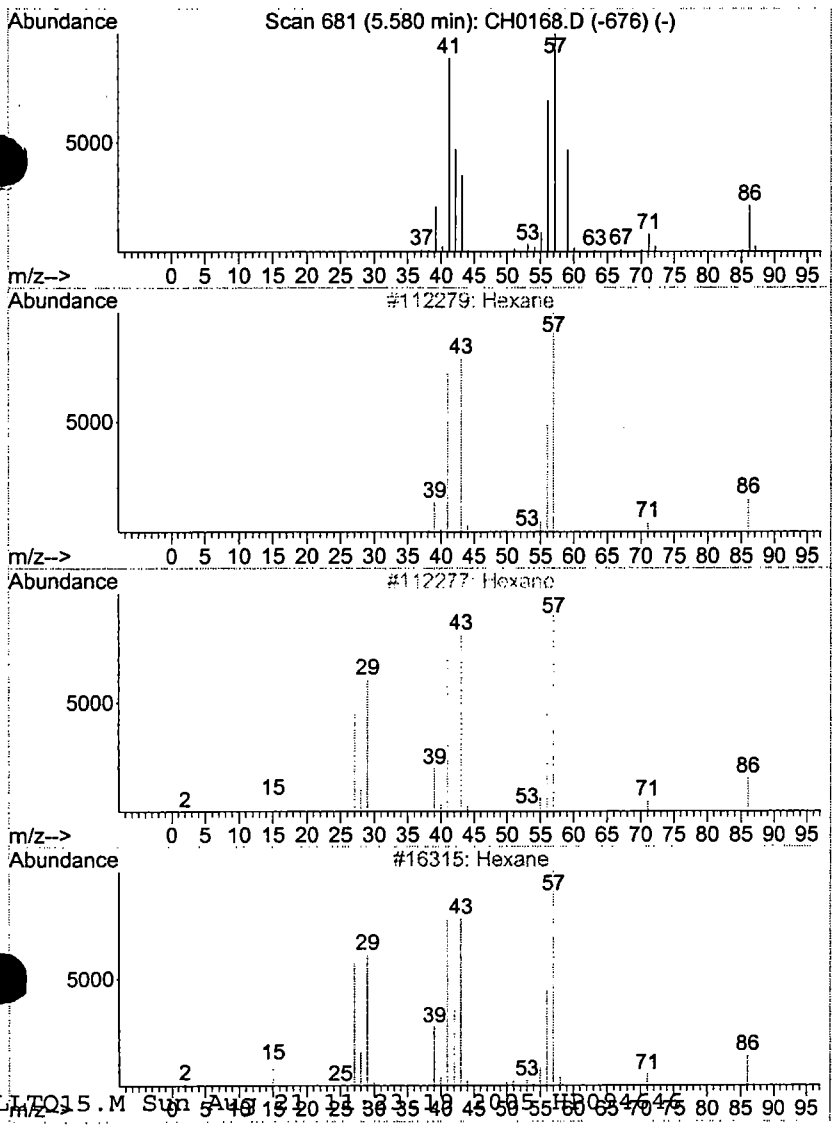
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

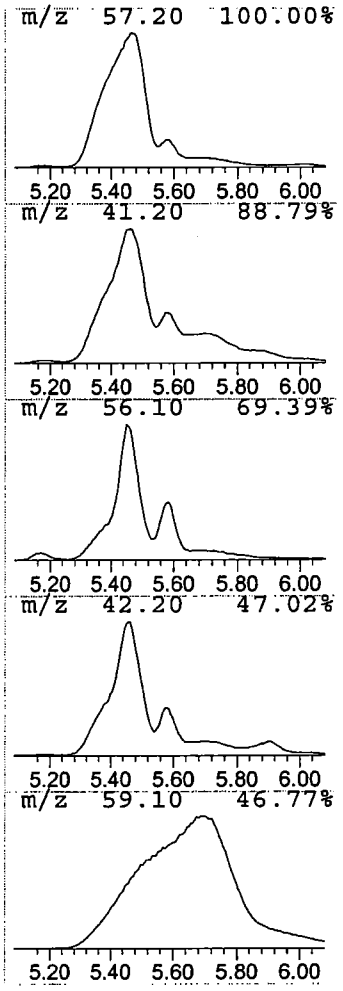
[redacted]

****
Peak Number 6 Hexane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.58	55.07	30753800	Bromochloromethane	7.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane	86	C6H14	000110-54-3	64
2	Hexane	86	C6H14	000110-54-3	50
3	Hexane	86	C6H14	000110-54-3	40
4	Hexane	86	C6H14	000110-54-3	38
5	Butyl aldoxime, 2-methyl-, anti-	101	C5H11NO	049805-55-2	38





0150

Library Search Compound Report

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG10\
Data File : CH0168.D
Acq On : 11 Aug 2005 11:08
Operator : RDG
Sample : 4581596 500CC
Misc :
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

[redacted]

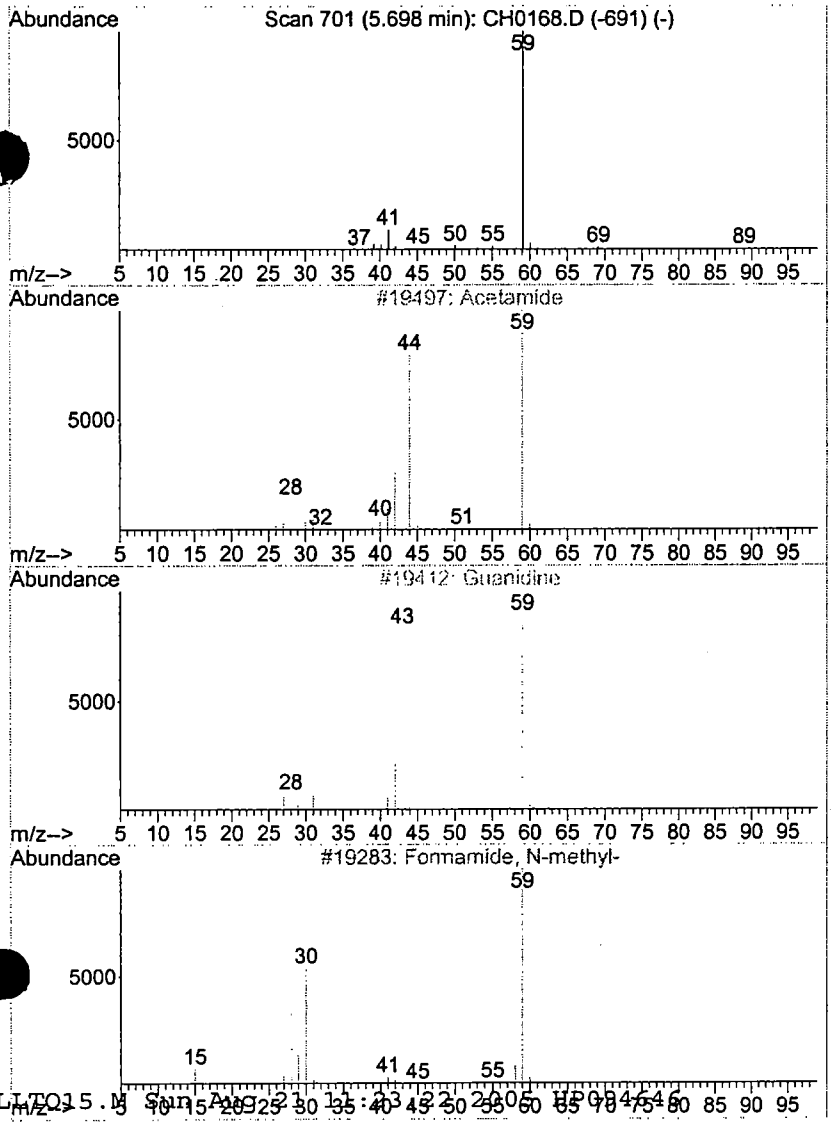
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

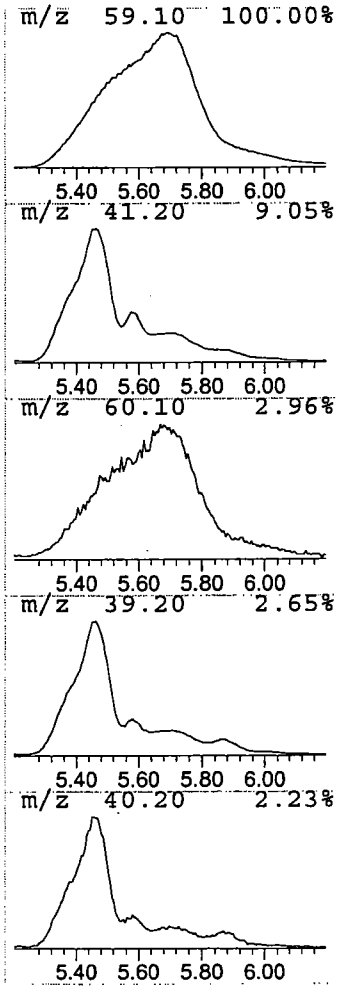
****

Peak Number 7 Acetamide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.70	105.96	59173700	Bromochloromethane	7.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetamide	59	C2H5NO	000060-35-5	7
2	Guanidine	59	CH5N3	000113-00-8	5
3	Formamide, N-methyl-	59	C2H5NO	000123-39-7	4
4	Propanoic acid, 2-hydroxy-2-meth...	118	C5H10O3	002110-78-3	4
5	Acetaldoxime	59	C2H5NO	000107-29-9	4





0151

Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\AUG10\
Data File : CH0168.D
Acq On : 11 Aug 2005 11:08
Operator : RDG
Sample : 4581596 500CC
Misc :
ALS Vial : 38 Sample Multiplier: 1

ORIGINAL

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

[redacted]

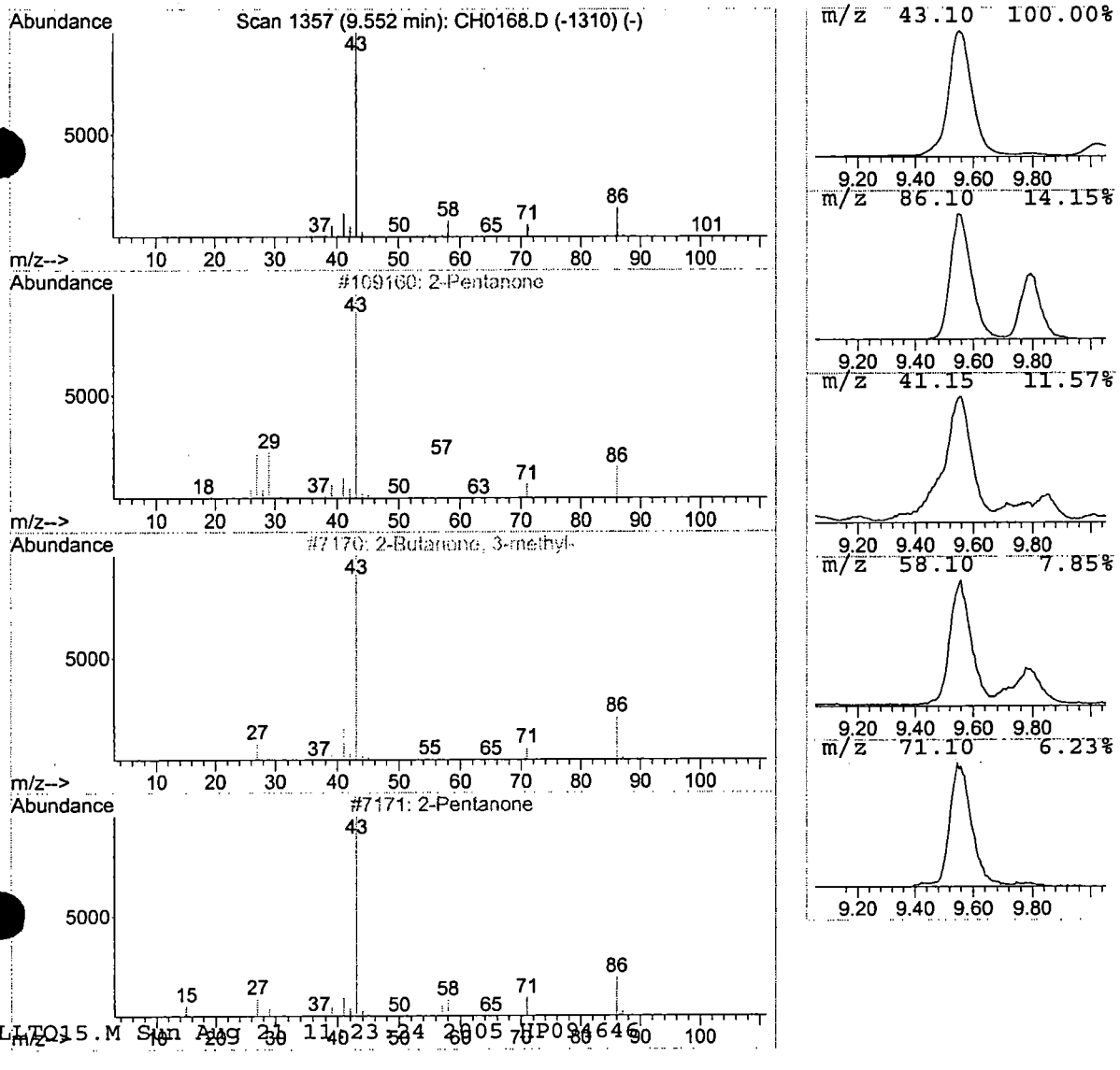
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

****

Peak Number 8 2-Pentanone Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.55	35.42	27383400	1,4-Difluorobenzene	8.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone	86	C5H10O	000107-87-9	72
2	2-Butanone, 3-methyl-	86	C5H10O	000563-80-4	64
3	2-Pentanone	86	C5H10O	000107-87-9	64
4	2-Pentanone	86	C5H10O	000107-87-9	59
5	2-Pentanone	86	C5H10O	000107-87-9	53



0152

Library Search Compound Report

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG10\
Data File : CH0168.D
Acq On : 11 Aug 2005 11:08
Operator : RDG
Sample : 4581596 500CC
Misc :
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

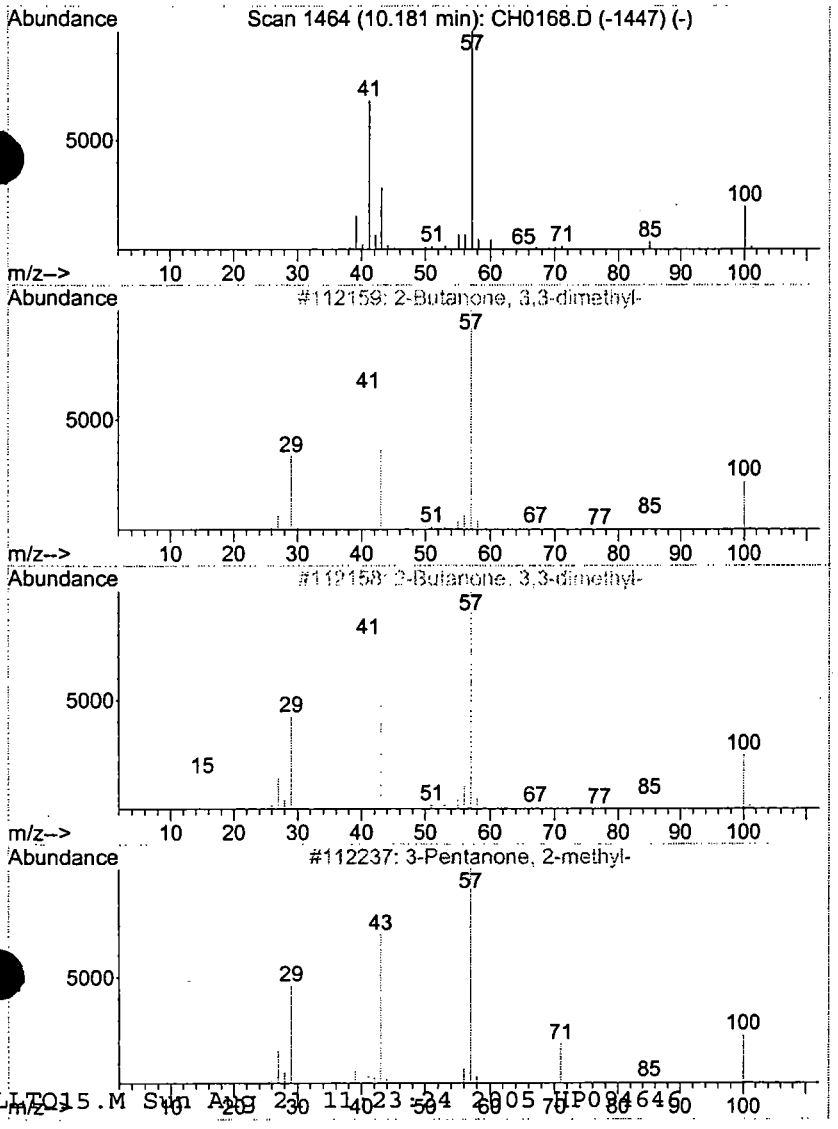
Ketone

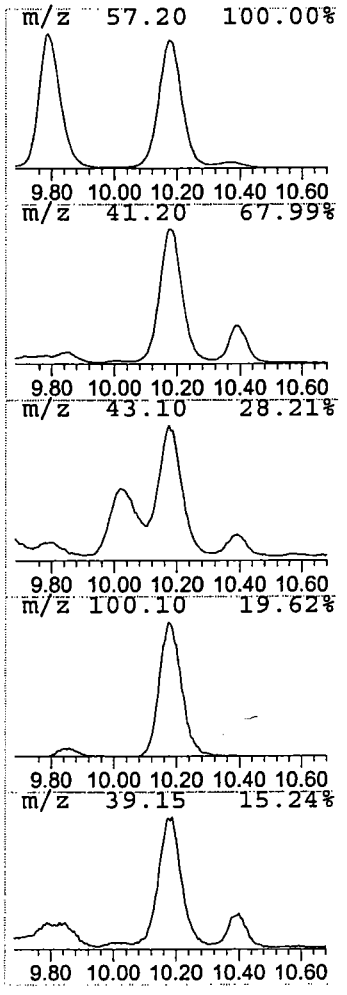
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 9 2-Butanone, 3,3-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.18	24.14	18664000	1,4-Difluorobenzene	8.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Butanone, 3,3-dimethyl-	100	C6H12O	000075-97-8	87
2	2-Butanone, 3,3-dimethyl-	100	C6H12O	000075-97-8	64
3	3-Pentanone, 2-methyl-	100	C6H12O	000565-69-5	58
4	2-Butanone, 3,3-dimethyl-	100	C6H12O	000075-97-8	53
5	3-Pentanone, 2-methyl-	100	C6H12O	000565-69-5	53





0153

Library Search Compound Report

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG10\
Data File : CH0168.D
Acq On : 11 Aug 2005 11:08
Operator : RDG
Sample : 4581596 500CC
Misc :
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

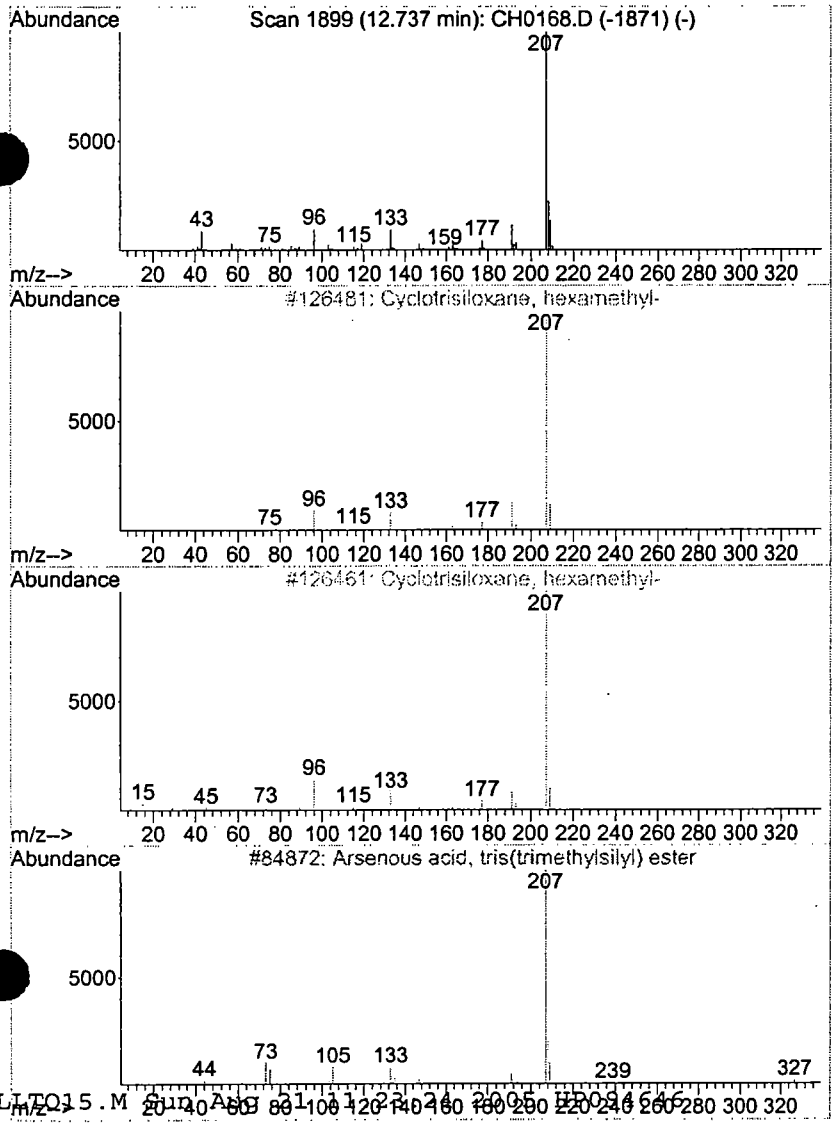
Siloxane

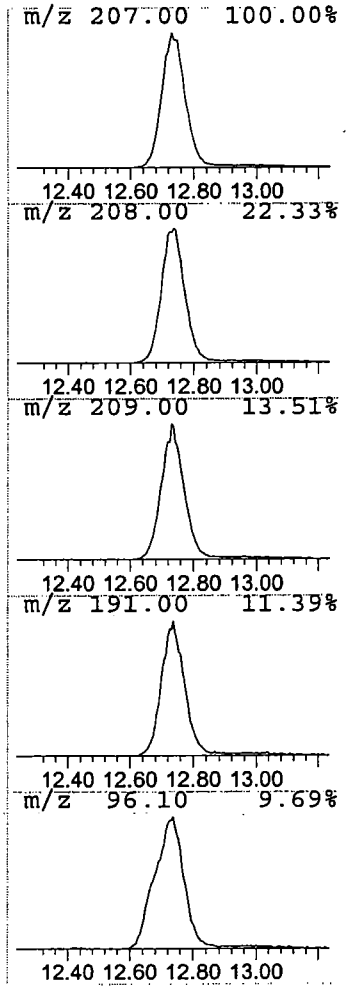
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 11 Cyclotrisiloxane, hexamethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.73	56.58	49848000	Chlorobenzene d5	14.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	91
2	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	80
3	Arsenous acid, tris(trimethylsil...	342	C9H27AsO3Si3	055429-29-3	64
4	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	52
5	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	52





0154

Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\AUG10\
Data File : CH0168.D
Acq On : 11 Aug 2005 11:08
Operator : RDG
Sample : 4581596 500CC
Misc :
ALS Vial : 38 Sample Multiplier: 1

ORIGINAL

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

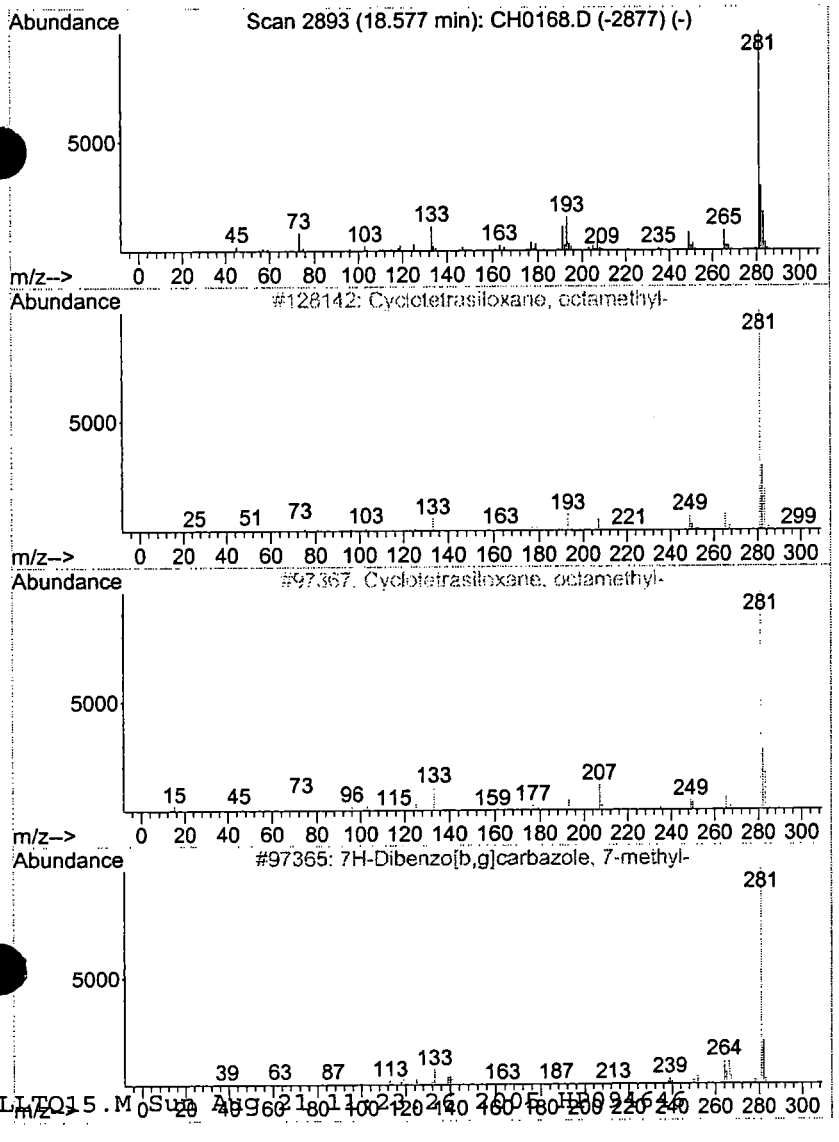
Sparnt

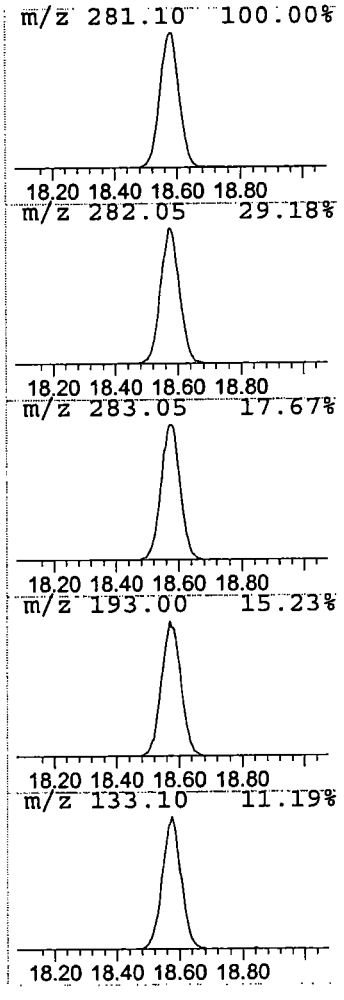
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 12 Cyclotetrasiloxane, octamet... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.58	23.26	20489900	Chlorobenzene d5	14.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	83
2	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	78
3	7H-Dibenzo[b,g]carbazole, 7-methyl-	281	C21H15N	003557-49-1	64
4	5H-Naphtho[2,3-c]carbazole, 5-me...	281	C21H15N	100025-44-3	50
5	Benzene, 1-phenyl-4-(2-cyano-2-p...	281	C21H15N	027869-56-3	50





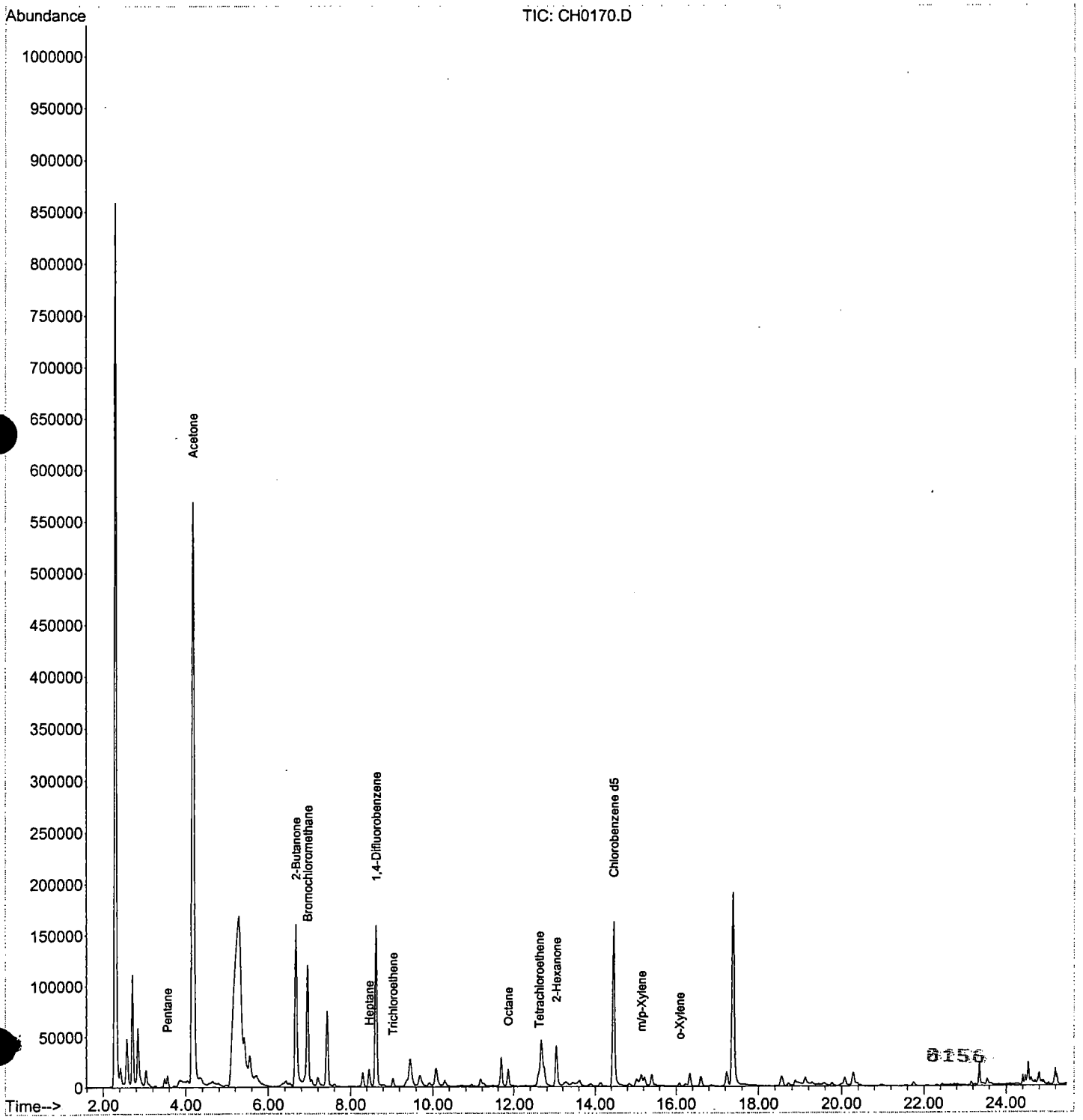
0155

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG10\
Data File : CH0170.D
Acq On : 11 Aug 2005 13:21
Operator : RDG
Sample : 4581596 25CC
Misc :
ALS Vial : 40 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 21 11:02:53 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG10\
Data File : CH0170.D
Acq On : 11 Aug 2005 13:21
Operator : RDG
Sample : 4581596 25CC
Misc :
ALS Vial : 40 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 21 11:02:53 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration

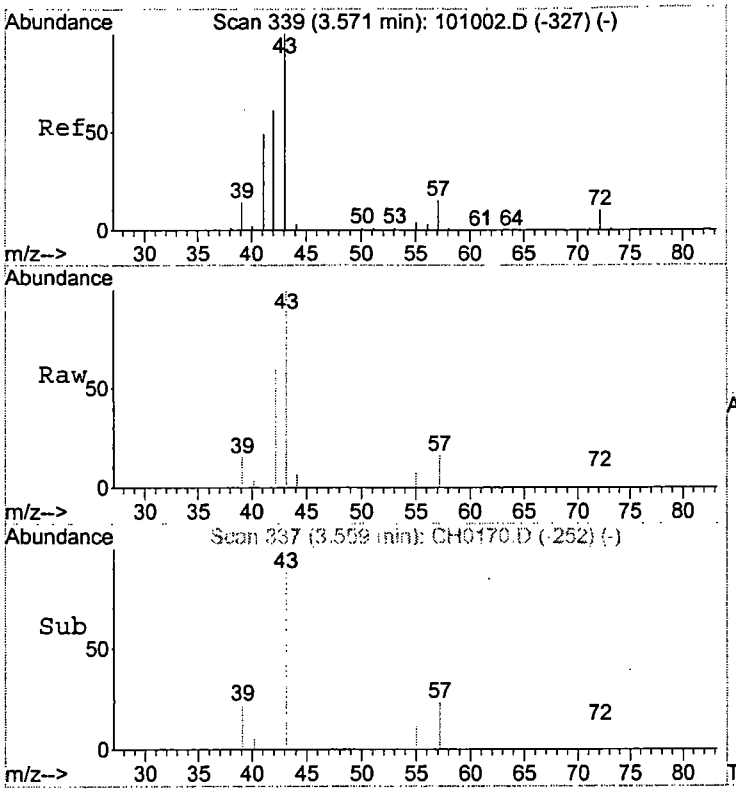
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.95	130	625852	10.000			0.00
37) 1,4-Difluorobenzene	8.63	114	2123785	10.000			0.00
51) Chlorobenzene d5	14.46	117	1955121	10.000			-0.02

Target Compounds							Qvalue
13) Pentane	3.56	43	120374	0.906	PPB		95
17) Acetone	4.17	43	14767434	147.075	PPB		90
31) 2-Butanone	6.66	72	640795	32.848	PPB	#	57
41) Heptane	8.46	43	168803	1.211	PPB	#	82
42) Trichloroethene	9.04	130	48266	0.489	PPB		97
53) Octane	11.86	43	141119	0.859	PPB		96
57) Tetrachloroethene	12.60	166	46730	0.402	PPB		93
58) 2-Hexanone	13.03	43	614166	4.502	PPB	#	91
64) m/p-Xylene	15.15	91	90252	0.453	PPB		89
65) o-Xylene	16.09	91	42352	0.227	PPB	#	26

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

0157

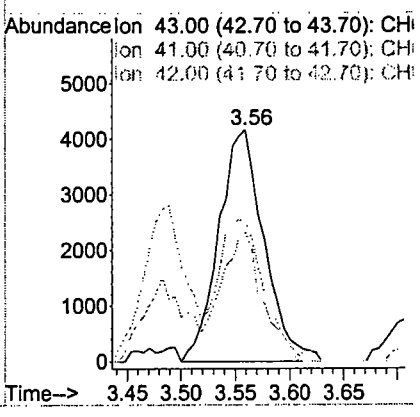
ORIGINAL

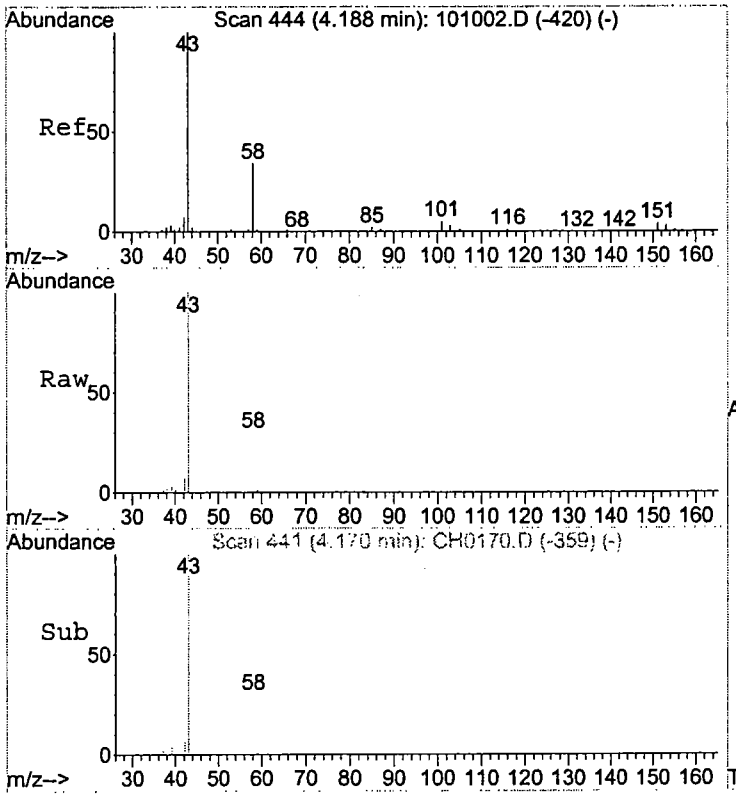


#13
Pentane
Concen: 0.91 PPB
RT: 3.56 min Scan# 337
Delta R.T. -0.00 min
Lab File: CH0170.D
Acq: 11 Aug 2005 13:21

Tgt Ion: 43 Resp: 120374

Ion	Ratio	Lower	Upper
43	100		
41	51.7	37.7	56.5
42	62.4	47.8	71.8

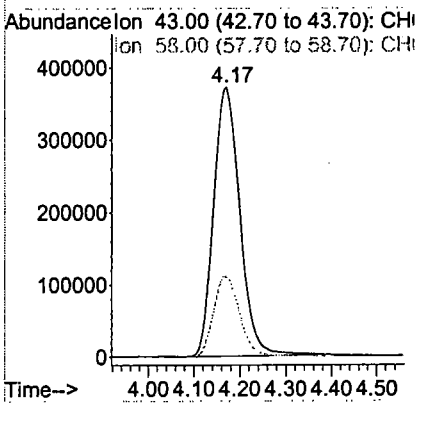




#17
Acetone
Concen: 147.07 PPB
RT: 4.17 min Scan# 441
Delta R.T. -0.02 min
Lab File: CH0170.D
Acq: 11 Aug 2005 13:21

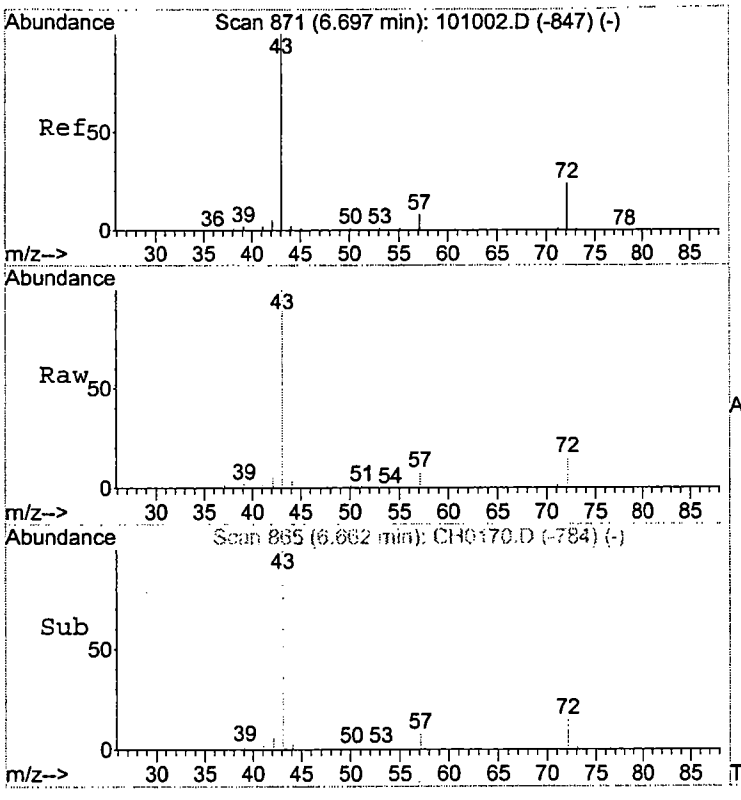
Tgt Ion: 43 Resp:14767434

Ion	Ratio	Lower	Upper
43	100		
58	29.7	28.2	42.4



0158

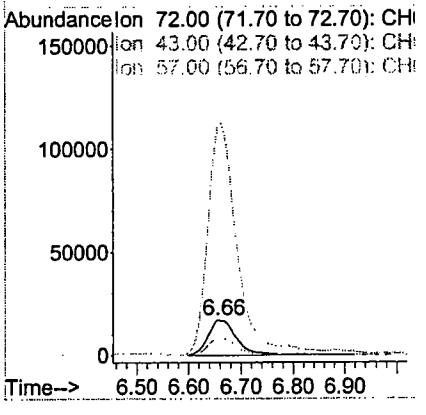
ORIGINAL

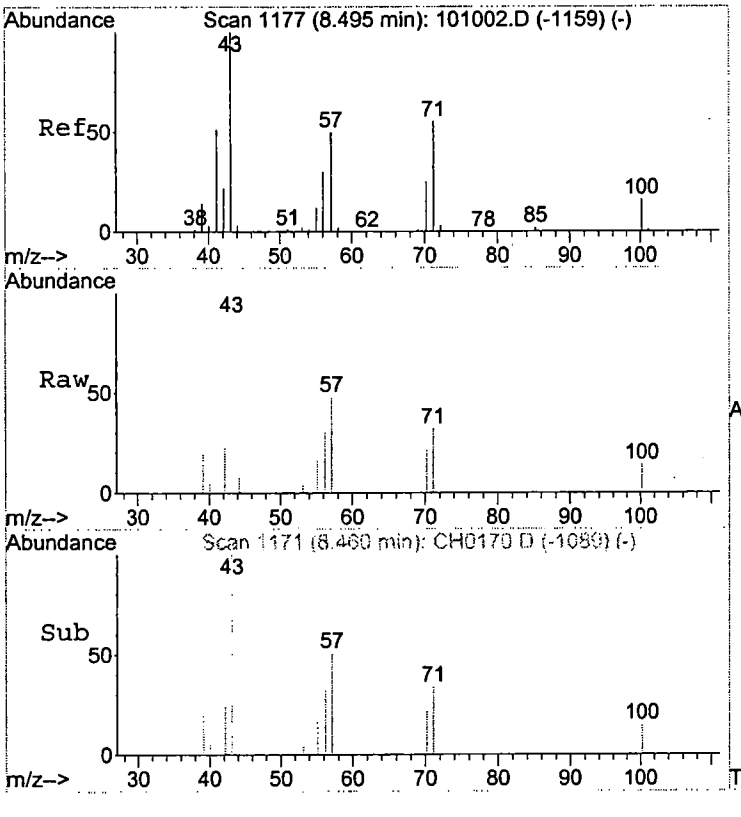


#31
2-Butanone
Concen: 32.85 PPB
RT: 6.66 min Scan# 865
Delta R.T. -0.03 min
Lab File: CH0170.D
Acq: 11 Aug 2005 13:21

Tgt Ion: 72 Resp: 640795

Ion	Ratio	Lower	Upper
72	100		
43	645.0	415.1	622.7#
57	46.3	28.9	43.3#

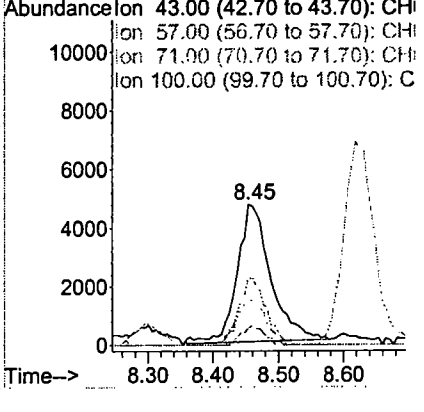




#41
Heptane
Concen: 1.21 PPB
RT: 8.46 min Scan# 1171
Delta R.T. -0.02 min
Lab File: CH0170.D
Acq: 11 Aug 2005 13:21

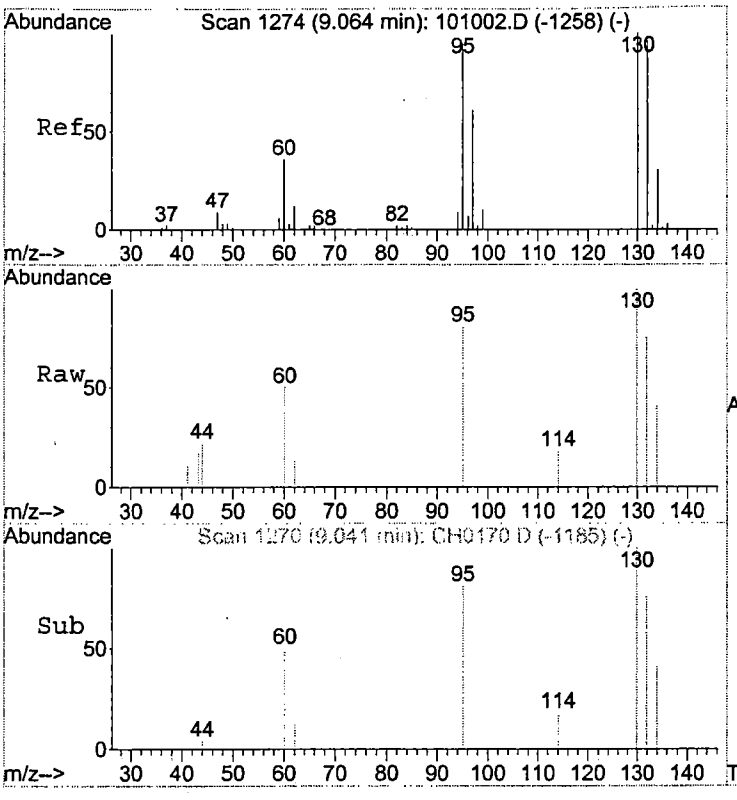
Tgt Ion: 43 Resp: 168803

Ion	Ratio	Lower	Upper
43	100		
57	39.2	39.4	59.2#
71	28.6	30.1	45.1#
100	0.0	11.7	17.5#



8159

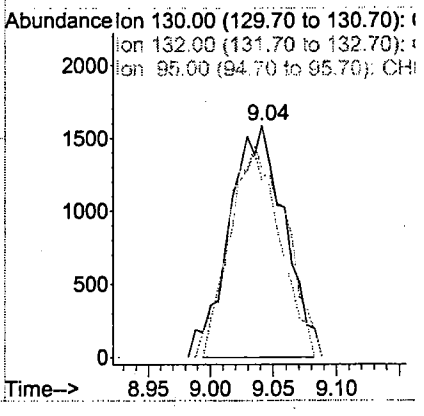
ORIGINAL

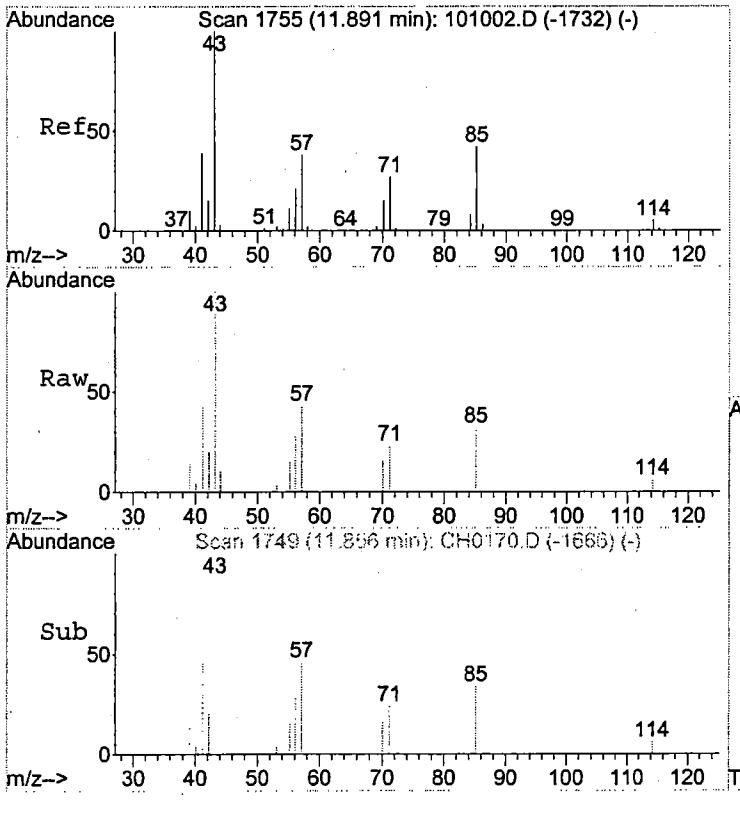


#42
Trichloroethene
Concen: 0.49 PPB
RT: 9.04 min Scan# 1270
Delta R.T. -0.00 min
Lab File: CH0170.D
Acq: 11 Aug 2005 13:21

Tgt Ion:130 Resp: 48266

Ion	Ratio	Lower	Upper
130	100		
132	93.4	77.6	116.4
95	82.8	67.4	101.2

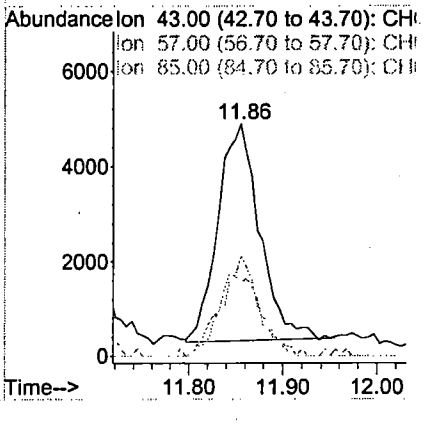




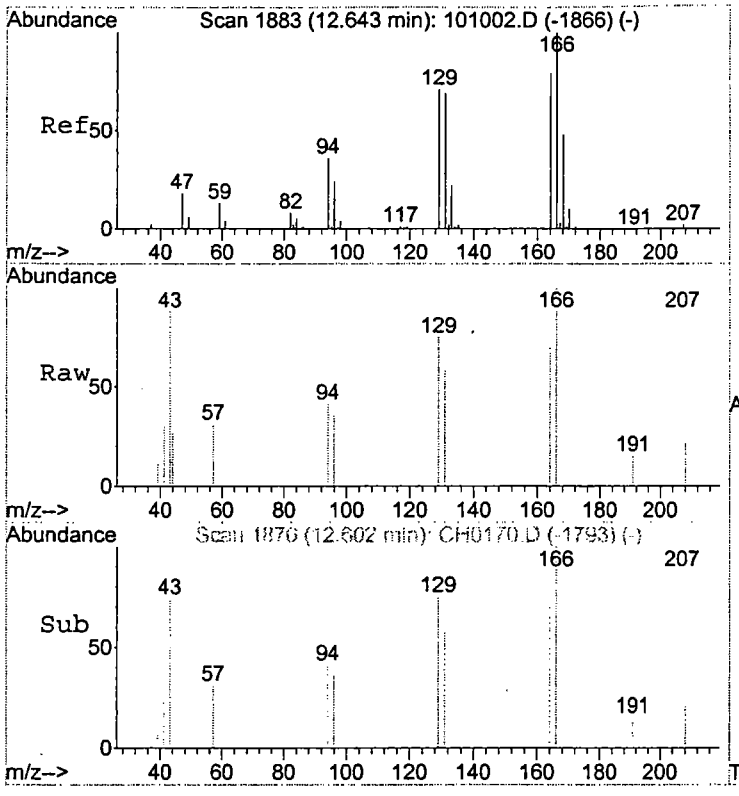
#53
Octane
Concen: 0.86 PPB
RT: 11.86 min Scan# 1749
Delta R.T. -0.01 min
Lab File: CH0170.D
Acq: 11 Aug 2005 13:21

Tgt Ion: 43 Resp: 141119

Ion	Ratio	Lower	Upper
43	100		
57	43.4	32.2	48.4
85	37.0	28.1	42.1



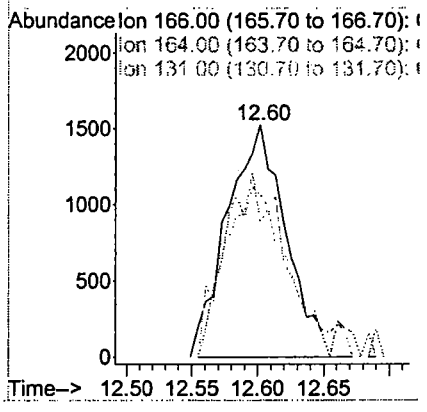
0168

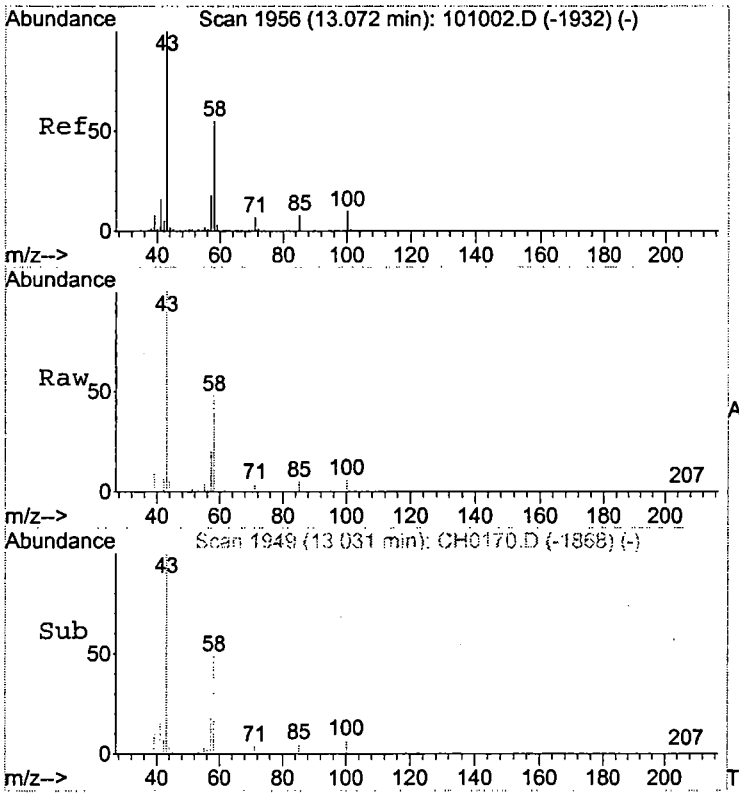


#57
Tetrachloroethene
Concen: 0.40 PPB
RT: 12.60 min Scan# 1876
Delta R.T. -0.01 min
Lab File: CH0170.D
Acq: 11 Aug 2005 13:21

Tgt Ion:166 Resp: 46730

Ion	Ratio	Lower	Upper
166	100		
164	85.2	63.2	94.8
131	68.0	59.0	88.4

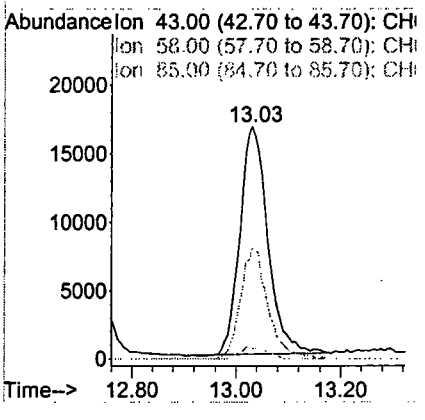




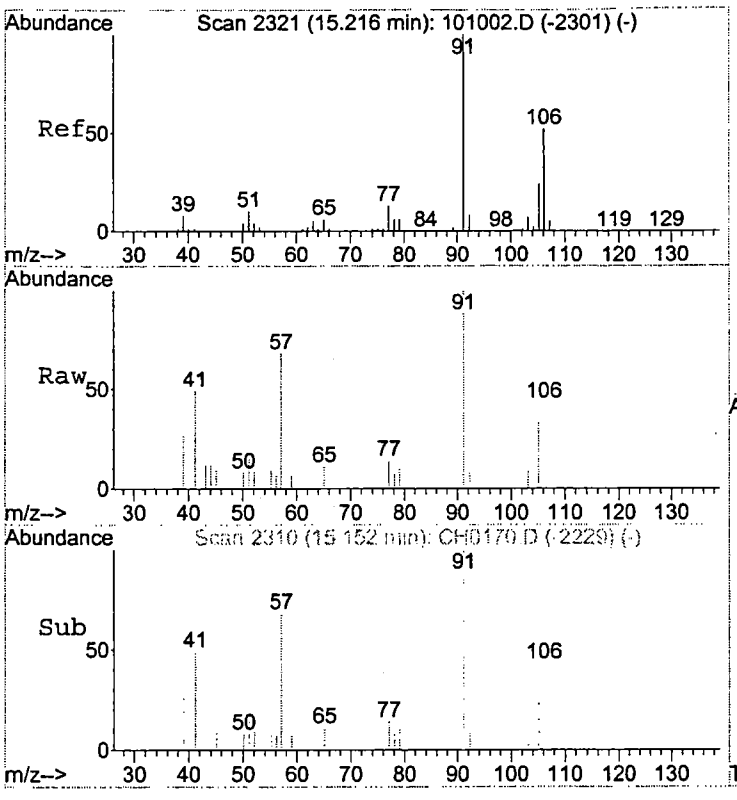
#58
2-Hexanone
Concen: 4.50 PPB
RT: 13.03 min Scan# 1949
Delta R.T. -0.02 min
Lab File: CH0170.D
Acq: 11 Aug 2005 13:21

Tgt Ion: 43 Resp: 614166

Ion	Ratio	Lower	Upper
43	100		
58	48.0	42.6	63.8
85	0.0	5.8	8.6#



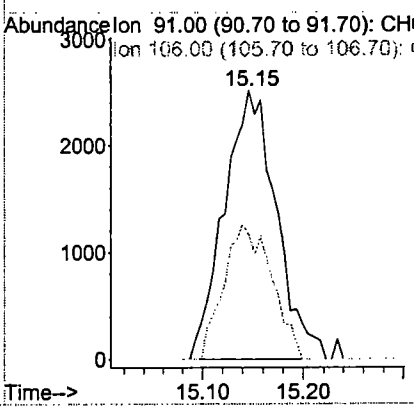
ORIGINAL

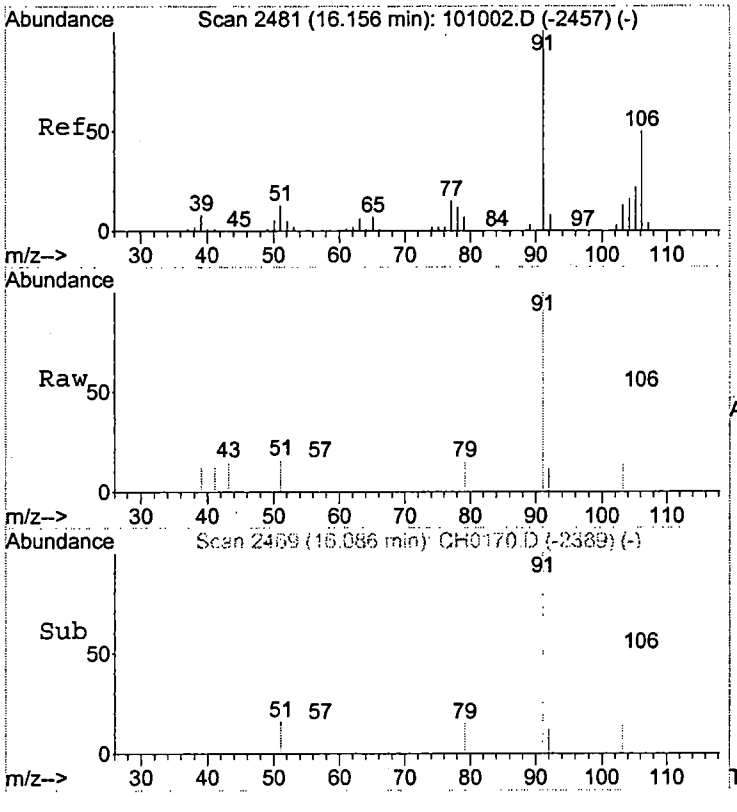


#64
m/p-Xylene
Concen: 0.45 PPB
RT: 15.15 min Scan# 2310
Delta R.T. -0.03 min
Lab File: CH0170.D
Acq: 11 Aug 2005 13:21

Tgt Ion: 91 Resp: 90252

Ion	Ratio	Lower	Upper
91	100		
106	46.2	43.1	64.7

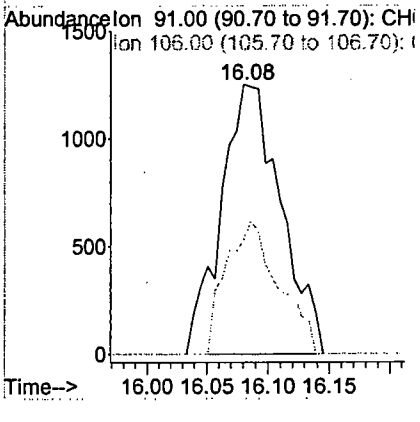




#65
o-Xylene
Concen: 0.23 PPB
RT: 16.09 min Scan# 2469
Delta R.T. -0.03 min
Lab File: CH0170.D
Acq: 11 Aug 2005 13:21

Tgt Ion: 91 Resp: 42352

Ion	Ratio	Lower	Upper
91	100		
106	0.0	41.1	61.7#



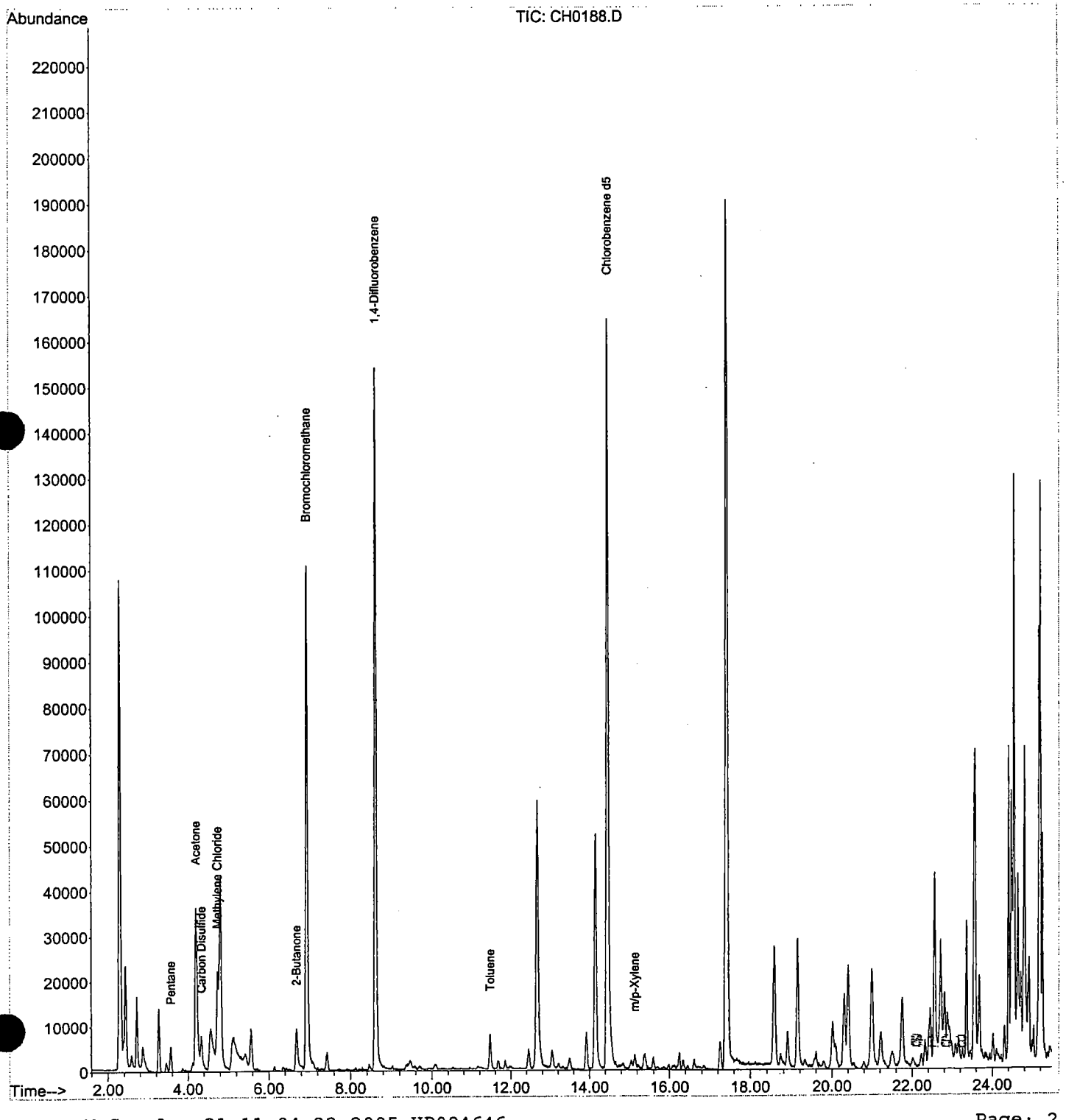
8162

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG12\
Data File : CH0188.D
Acq On : 12 Aug 2005 14:05
Operator : JBS
Sample : 4581596 DF200 250CC
Misc :
ALS Vial : 40 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 21 11:04:02 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG12\
Data File : CH0188.D
Acq On : 12 Aug 2005 14:05
Operator : JBS
Sample : 4581596 DF200 250CC
Misc :
ALS Vial : 40 Sample Multiplier: 1

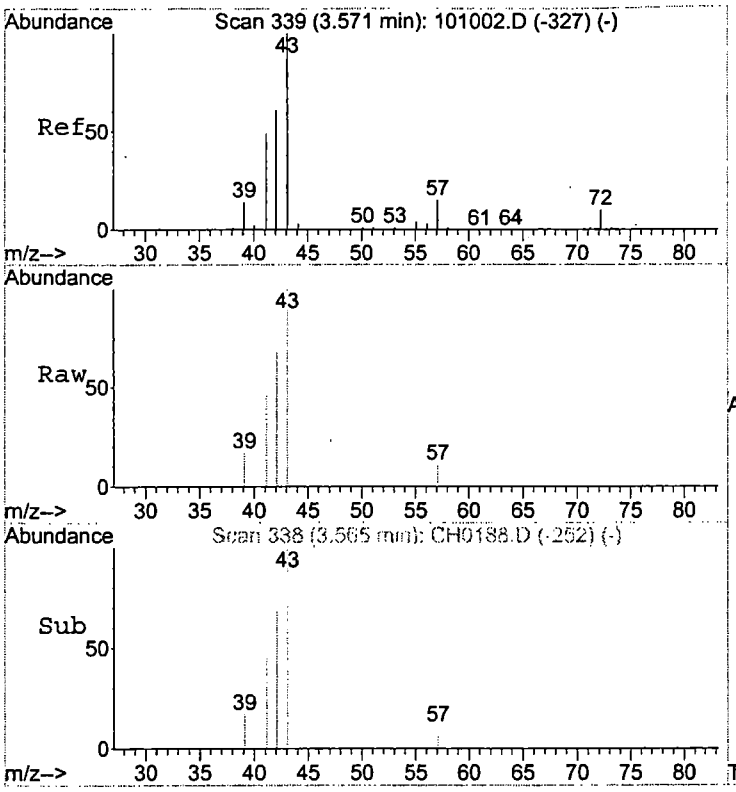
ORIGINAL

Quant Time: Aug 21 11:04:02 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.94	130	598226	10.000			-0.01
37) 1,4-Difluorobenzene	8.61	114	2070914	10.000			-0.01
51) Chlorobenzene d5	14.45	117	1993899	10.000			-0.03
Target Compounds							**Qvalue**
13) Pentane	3.57	43	59105	0.465	PPB	#	25
17) Acetone	4.20	43	1049626	10.936	PPB		88
19) Carbon Disulfide	4.34	76	158146	1.170	PPB	#	78
22) Methylene Chloride	4.73	84	78221	1.983	PPB	#	80
31) 2-Butanone	6.69	72	37969	2.036	PPB	#	97
52) Toluene	11.46	91	112110	0.571	PPB		98
64) m/p-Xylene	15.14	91	43097	0.212	PPB	#	25

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

8164

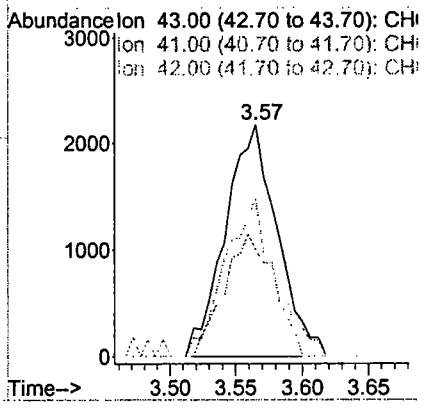


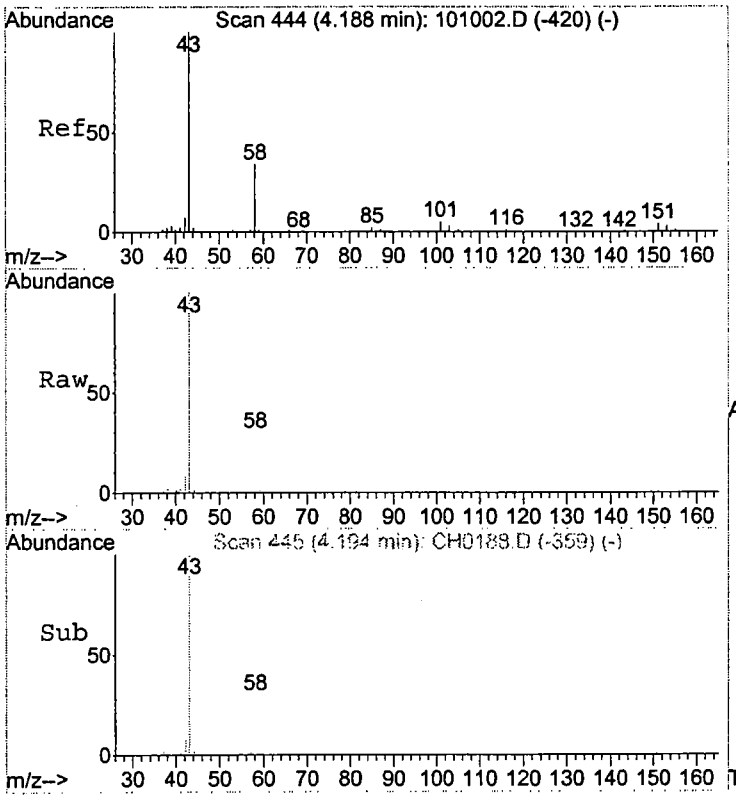
#13
Pentane
Concen: 0.47 PPB
RT: 3.57 min Scan# 338
Delta R.T. 0.00 min
Lab File: CH0188.D
Acq: 12 Aug 2005 14:05

ORIGINAL

Tgt Ion: 43 Resp: 59105

Ion	Ratio	Lower	Upper
43	100		
41	0.0	37.7	56.5#
42	0.0	47.8	71.8#

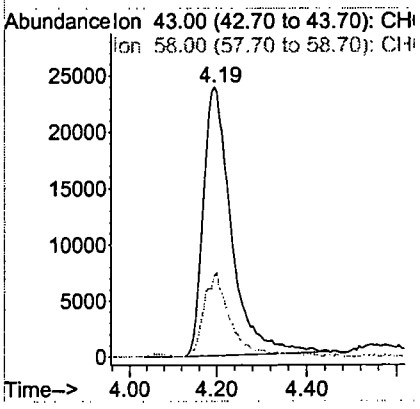




#17
Acetone
Concen: 10.94 PPB
RT: 4.20 min Scan# 445
Delta R.T. 0.01 min
Lab File: CH0188.D
Acq: 12 Aug 2005 14:05

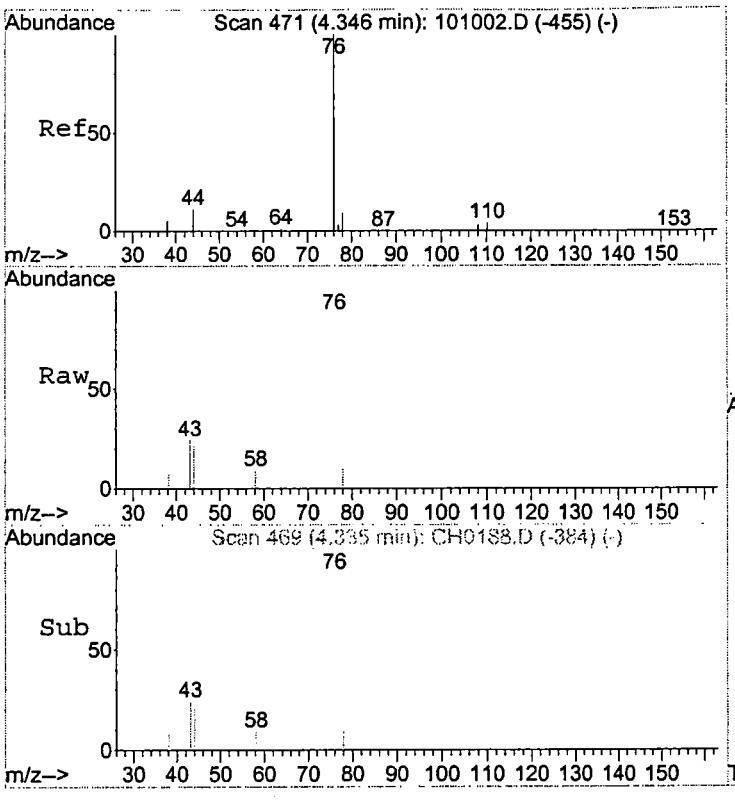
Tgt Ion: 43 Resp: 1049626

Ion	Ratio	Lower	Upper
43	100		
58	28.4	28.2	42.4



0165

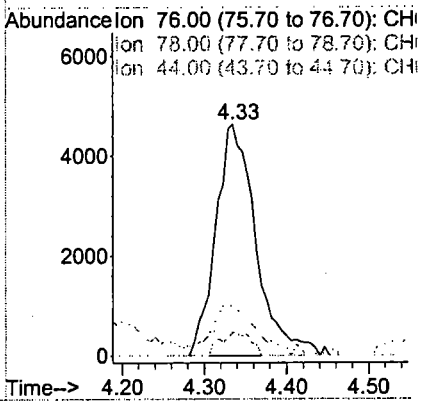
ORIGINAL

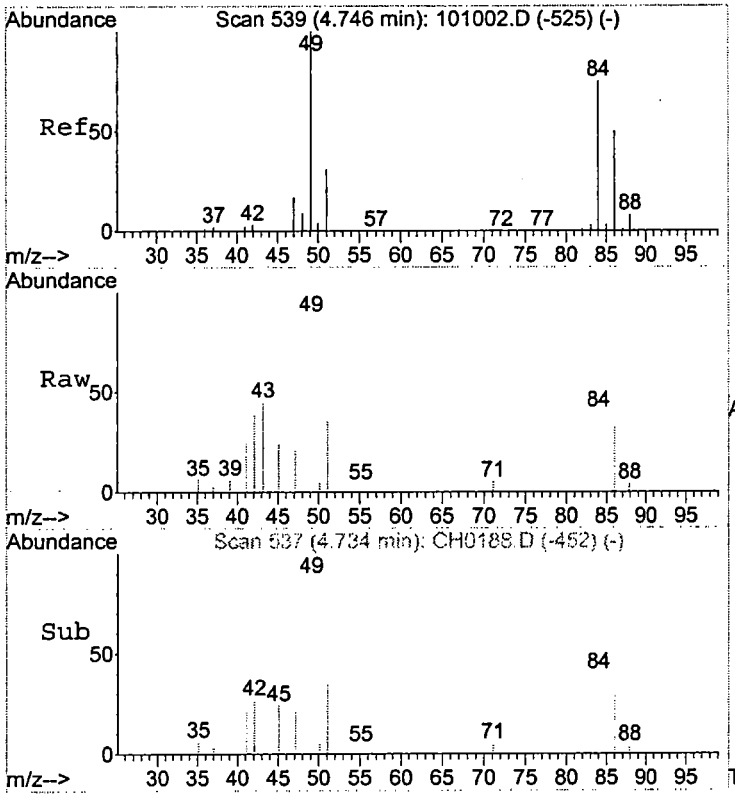


#19
Carbon Disulfide
Concen: 1.17 PPB
RT: 4.34 min Scan# 469
Delta R.T. 0.00 min
Lab File: CH0188.D
Acq: 12 Aug 2005 14:05

Tgt Ion: 76 Resp: 158146

Ion	Ratio	Lower	Upper
76	100		
78	0.0	7.4	11.0#
44	25.9	13.6	20.4#

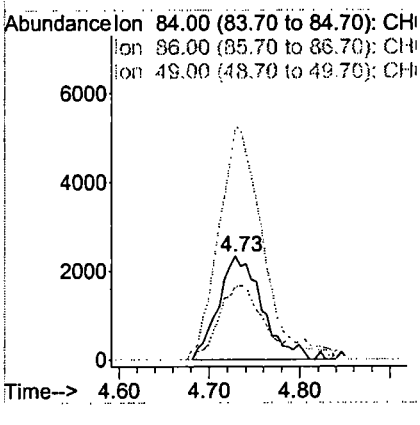




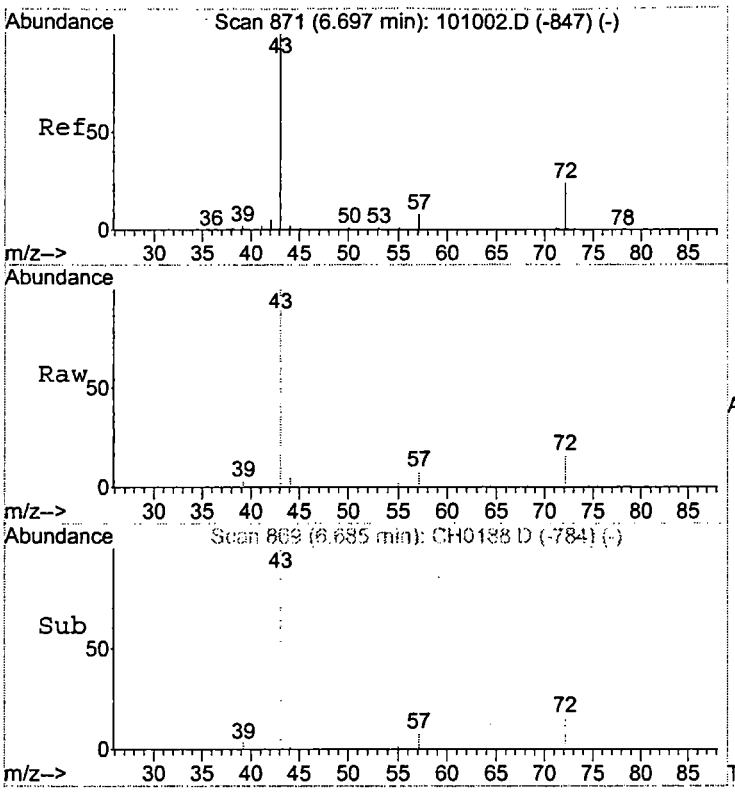
#22
Methylene Chloride
Concen: 1.98 PPB
RT: 4.73 min Scan# 537
Delta R.T. -0.00 min
Lab File: CH0188.D
Acq: 12 Aug 2005 14:05

Tgt Ion: 84 Resp: 78221

Ion	Ratio	Lower	Upper
84	100		
86	54.8	56.4	84.6#
49	225.2	155.8	233.6



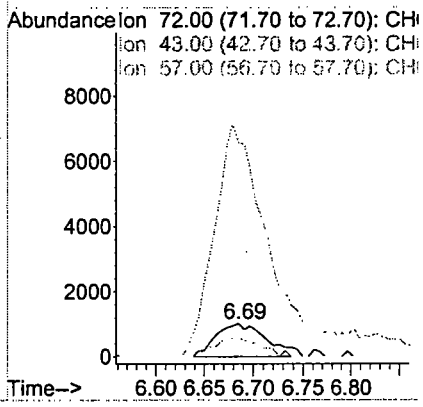
0166



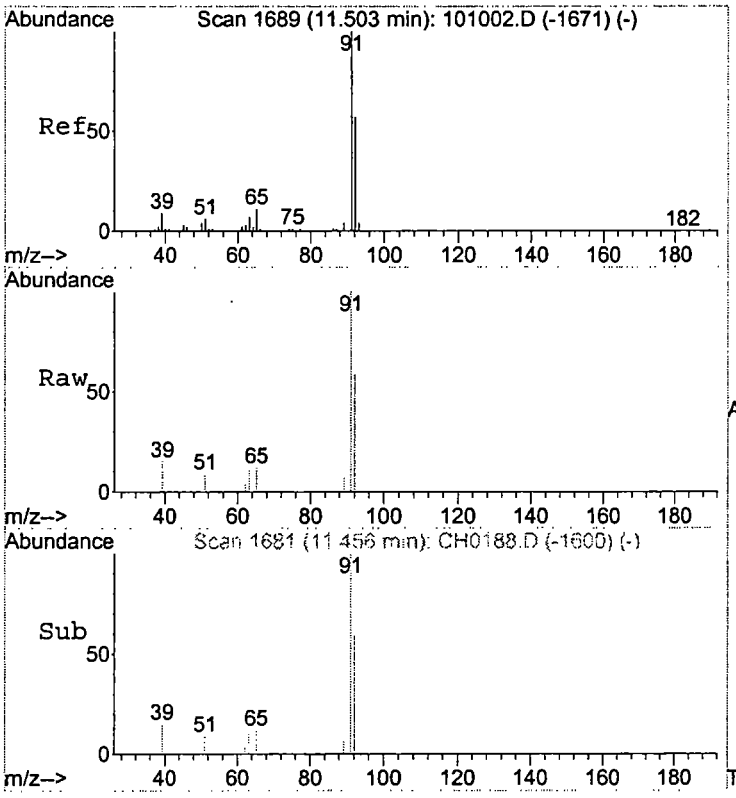
#31
2-Butanone
Concen: 2.04 PPB
RT: 6.69 min Scan# 869
Delta R.T. -0.00 min
Lab File: CH0188.D
Acq: 12 Aug 2005 14:05

Tgt Ion: 72 Resp: 37969

Ion	Ratio	Lower	Upper
72	100		
43	523.9	415.1	622.7
57	49.0	28.9	43.3#



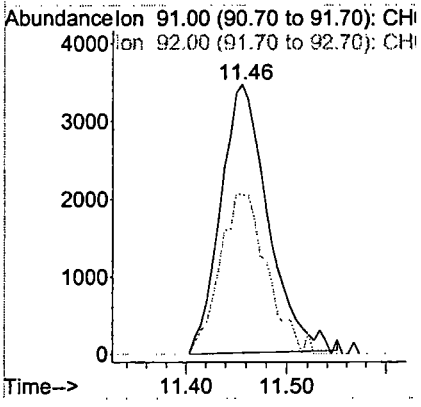
ORIGINAL



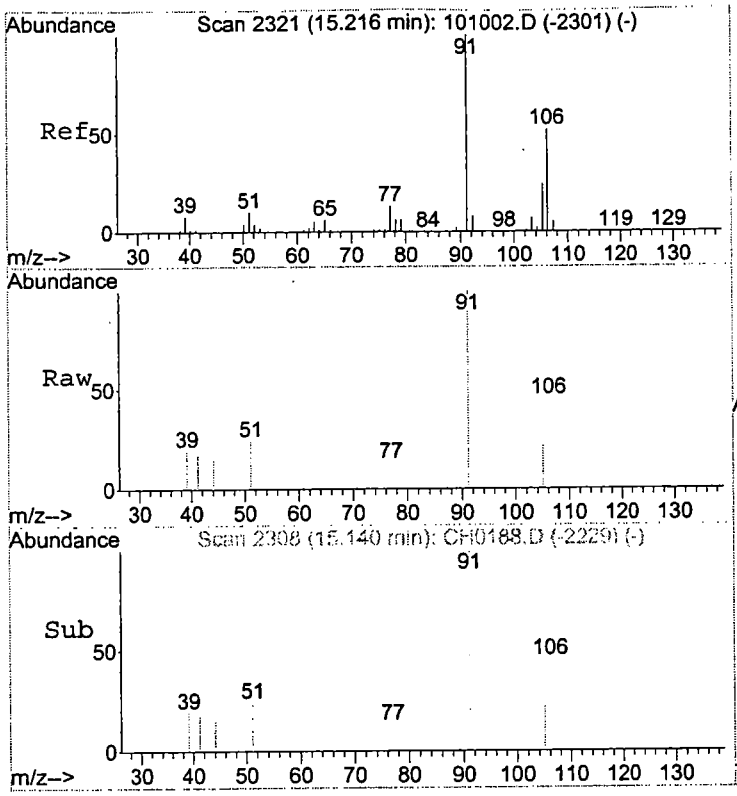
#52
Toluene
Concen: 0.57 PPB
RT: 11.46 min Scan# 1681
Delta R.T. -0.02 min
Lab File: CH0188.D
Acq: 12 Aug 2005 14:05

Tgt Ion: 91 Resp: 112110

Ion	Ratio	Lower	Upper
91	100		
92	57.5	47.2	70.8



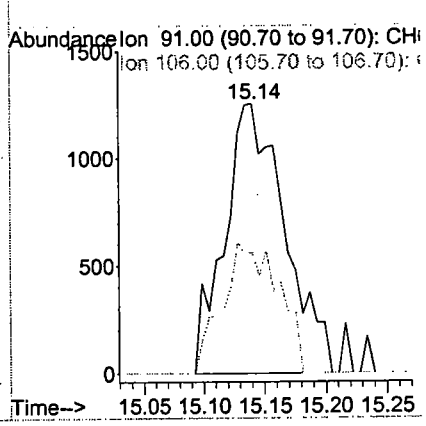
0167



#64
m/p-Xylene
Concen: 0.21 PPB
RT: 15.14 min Scan# 2308
Delta R.T. -0.04 min
Lab File: CH0188.D
Acq: 12 Aug 2005 14:05

Tgt Ion: 91 Resp: 43097

Ion	Ratio	Lower	Upper
91	100		
106	0.0	43.1	64.7#



ORIGINAL

0168

ORIGINAL

Standards Data

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

INITIAL CALIBRATION DATA SHEET

ORIGINAL

Instrument ID: HP09464 Data File Path: C:\MSDCHEM\1\DATA\AUG08

STANDARD	CAL 1	CAL 2	CAL 3	CAL 4	CAL 5		
EPA SAMPLE NO.	VSTD001	VSTD002	VSTD005	VSTD010	VSTD025		
LAB FILE ID	\CH0125.D	\CH0124.D	\CH0123.D	\CH0122.D	\CH0126.D		
DATE INJECTED	08/08/05	08/08/05	08/08/05	08/08/05	08/08/05		
TIME INJECTED	11:05	10:29	09:52	09:07	11:41		
	Relative Response Factor (RRF)						
COMPOUND NAME	CAL 1	CAL 2	CAL 3	CAL 4	CAL 5	MEAN	% RSD
Propene	1.202	1.113	0.971	0.866	0.908	1.012	14
Dichlorodifluoromethane	3.429	3.127	2.676	2.325	2.347	2.781	17
Chlorodifluoromethane	2.485	2.228	1.835	1.653	1.733	1.987	18
Freon 114	3.116	3.007	2.507	2.306	2.280	2.643	15
Chloromethane	1.850	1.717	1.416	1.258	1.312	1.511	17
Vinyl Chloride	1.139	1.097	0.975	0.884	0.883	0.996	12
1,3-Butadiene	2.036	1.925	1.708	1.600	1.656	1.785	10
Bromomethane	1.035	0.938	0.784	0.741	0.719	0.843	16
Chloroethane	0.481	0.476	0.424	0.393	0.404	0.436	9
Dichlorofluoromethane	2.136	1.976	1.629	1.539	1.617	1.780	15
Trichlorofluoromethane	3.874	3.309	2.823	2.626	2.688	3.064	17
Pentane	2.521	2.283	1.952	1.884	1.976	2.123	13
Acrolein	0.218	0.265	0.284	0.271	0.292	0.266	11
1,1-Dichloroethene	2.020	1.827	1.551	1.469	1.519	1.677	14
Freon 113	1.502	1.409	1.160	1.090	1.123	1.257	15
Acetone	1.943	1.671	1.394	1.420	1.593	1.604	14
Methyl Iodide	2.794	2.621	2.275	2.138	2.119	2.390	13
Carbon Disulfide	2.830	2.477	2.109	1.948	1.929	2.259	17
Acetonitrile	1.551	1.652	1.446	1.474	1.656	1.556	6
3-Chloropropene	0.329	0.372	0.331	0.283	0.289	0.321	11
Methylene Chloride	0.798	0.707	0.615	0.582	0.596	0.659	14
tert-Butyl Alcohol	2.130	2.027	1.814	1.688	1.745	1.881	10
Acrylonitrile	1.384	1.181	1.232	1.215	1.375	1.278	7
trans-1,2-Dichloroethene	1.806	1.646	1.392	1.304	1.388	1.507	14
Methyl t-Butyl Ether	2.242	2.083	2.044	1.978	2.135	2.096	5
Hexane	2.038	1.844	1.605	1.538	1.631	1.731	12
1,1-Dichloroethane	2.249	1.962	1.689	1.611	1.718	1.846	14
Vinyl Acetate	2.109	1.915	1.710	2.032	2.643	2.082	17
cis-1,2-Dichloroethene	1.771	1.550	1.331	1.239	1.369	1.452	15
2-Butanone	0.327	0.295	0.291	0.300	0.345	0.312	7
Ethyl Acetate	0.128	0.127	0.128	0.134	0.155	0.134	9
Methyl Acrylate	2.024	1.471	1.679	1.679	1.967	1.764	13
Chloroform	2.355	2.041	1.749	1.645	1.791	1.916	15
1,1,1-Trichloroethane	2.851	2.526	2.037	1.915	2.107	2.287	17
Carbon Tetrachloride	3.459	3.108	2.532	2.315	2.582	2.799	17
1,2-Dichloroethane	0.526	0.457	0.402	0.392	0.441	0.443	12
Benzene	0.772	0.705	0.623	0.609	0.649	0.672	10
Isooctane	1.825	1.636	1.457	1.409	1.551	1.576	10
Heptane	0.741	0.711	0.612	0.572	0.645	0.656	11
Trichloroethene	0.584	0.527	0.418	0.393	0.402	0.465	18
Methyl Acrylate	0.760	0.678	0.629	0.639	0.770	0.695	10

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

INITIAL CALIBRATION DATA SHEET

ORIGINAL

Instrument ID: HP09464 Data File Path: C:\MSDCHEM\1\DATA\AUG08

STANDARD	CAL 1	CAL 2	CAL 3	CAL 4	CAL 5		
EPA SAMPLE NO.	VSTD001	VSTD002	VSTD005	VSTD010	VSTD025		
LAB FILE ID	\CH0125.D	\CH0124.D	\CH0123.D	\CH0122.D	\CH0126.D		
DATE INJECTED	08/08/05	08/08/05	08/08/05	08/08/05	08/08/05		
TIME INJECTED	11:05	10:29	09:52	09:07	11:41		
	Relative Response Factor (RRF)						
COMPOUND NAME	CAL 1	CAL 2	CAL 3	CAL 4	CAL 5	MEAN	% RSD
1,2-Dichloropropane	0.345	0.308	0.285	0.268	0.296	0.301	10
Methyl Methacrylate	0.227	0.210	0.206	0.211	0.248	0.220	8
Dibromomethane	0.425	0.385	0.324	0.326	0.343	0.361	12
1,4-Dioxane	0.111	0.104	0.104	0.101	0.116	0.107	6
Bromodichloromethane	0.796	0.666	0.601	0.577	0.652	0.658	13
cis-1,3-Dichloropropene	0.539	0.514	0.449	0.439	0.492	0.487	9
4-Methyl-2-Pentanone	0.765	0.683	0.611	0.603	0.763	0.685	11
Toluene	1.172	0.973	0.931	0.895	0.954	0.985	11
Octane	0.958	0.884	0.828	0.722	0.808	0.840	10
trans-1,3-Dichloropropene	0.546	0.460	0.448	0.431	0.460	0.469	10
Ethyl Methacrylate	0.453	0.400	0.384	0.396	0.466	0.420	9
1,1,2-Trichloroethane	0.461	0.363	0.364	0.346	0.371	0.381	12
Tetrachloroethene	0.694	0.649	0.569	0.499	0.560	0.594	13
2-Hexanone	0.775	0.726	0.566	0.641	0.780	0.698	13
Dibromochloromethane	0.861	0.757	0.718	0.649	0.693	0.736	11
1,2-Dibromoethane	0.682	0.607	0.580	0.526	0.565	0.592	10
Chlorobenzene	0.942	0.784	0.797	0.731	0.787	0.808	10
1,1,1,2-Tetrachloroethane	0.725	0.665	0.602	0.579	0.613	0.637	9
Ethylbenzene	1.244	1.144	1.146	1.147	1.274	1.191	5
m/p-Xylene	1.079	1.006	0.981	0.952	1.075	1.018	6
o-Xylene	0.926	0.915	0.935	0.926	1.068	0.954	7
Styrene	0.815	0.801	0.792	0.770	0.875	0.811	5
Bromoform	0.916	0.871	0.784	0.745	0.842	0.832	8
Cumene	1.103	1.247	1.311	1.347	1.556	1.313	13
1,1,2,2-Tetrachloroethane	0.729	0.653	0.644	0.594	0.678	0.660	7
1,2,3-Trichloropropane	0.312	0.281	0.273	0.256	0.282	0.281	7
Bromobenzene	0.595	0.603	0.546	0.528	0.602	0.575	6
4-Ethyltoluene	1.433	1.412	1.521	1.538	1.761	1.533	9
1,3,5-Trimethylbenzene	1.226	1.361	1.331	1.300	1.483	1.340	7
Alpha Methyl Styrene	0.593	0.557	0.615	0.638	0.733	0.627	11
1,2,4-Trimethylbenzene	1.505	1.433	1.394	1.418	1.600	1.470	6
1,3-Dichlorobenzene	1.200	1.094	1.007	0.978	1.104	1.076	8
1,4-Dichlorobenzene	1.237	1.157	1.015	0.984	1.119	1.103	9
1,2-Dichlorobenzene	1.123	1.044	0.981	0.925	1.047	1.024	7
Hexachloroethane	0.730	0.637	0.542	0.565	0.646	0.624	12
1,2,4-Trichlorobenzene	0.893	0.859	0.860	0.874	1.035	0.904	8
Hexachlorobutadiene	1.085	1.001	0.920	0.896	1.016	0.984	8

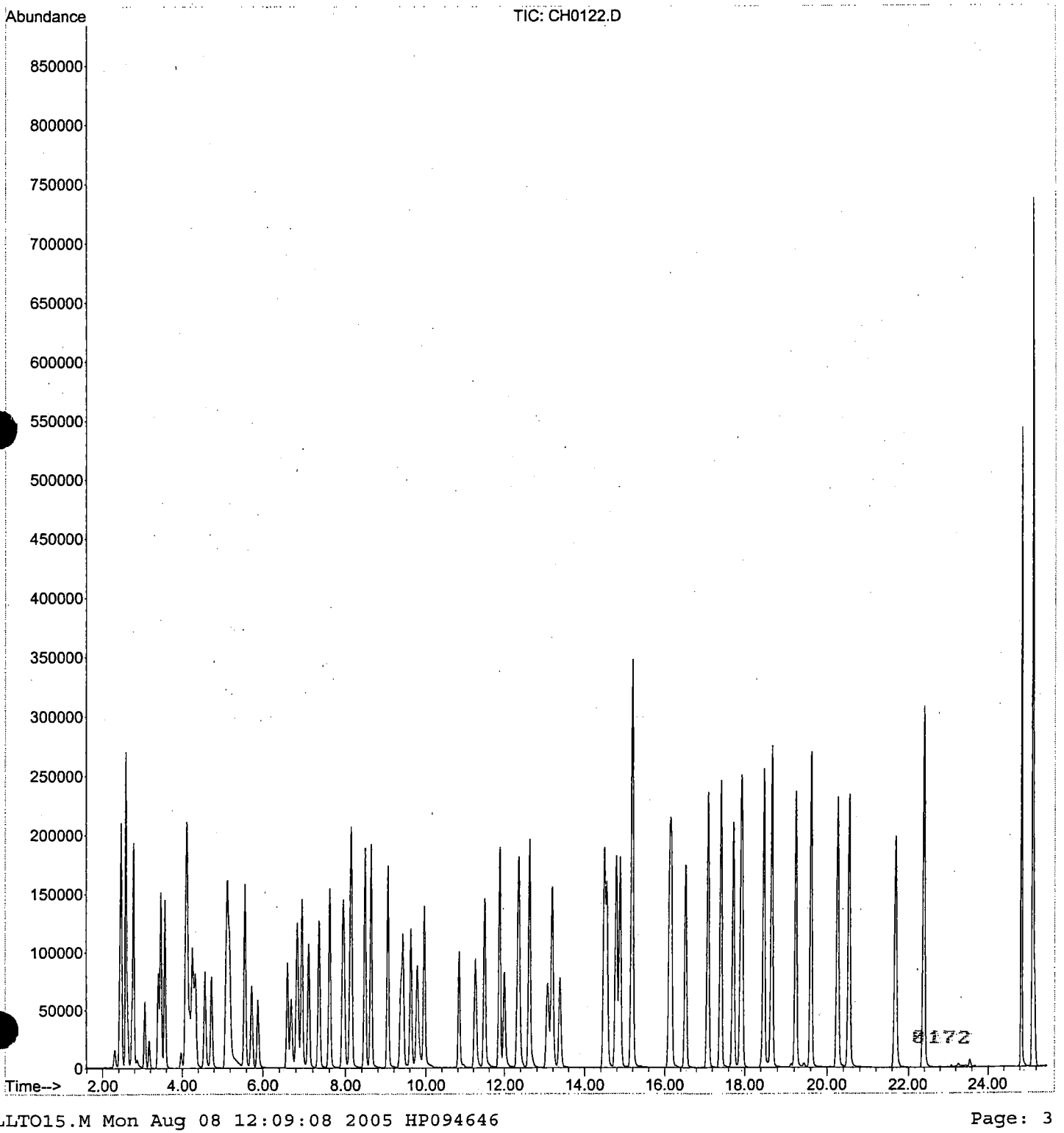
8171

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0122.D
Acq On : 8 Aug 2005 9:07
Operator : JBS
Sample : VSTD010
Misc :
ALS Vial : 21 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 08 11:57:58 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Thu Aug 04 12:14:52 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ORIGINAL

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0122.D
Acq On : 8 Aug 2005 9:07
Operator : JBS
Sample : VSTD010
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 08 11:57:58 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Thu Aug 04 12:14:52 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.95	130	770784	10.000			0.00
37) 1,4-Difluorobenzene	8.63	114	2518913	10.000			0.00
51) Chlorobenzene d5	14.48	117	2359271	10.000			0.00

Target Compounds							Qvalue
2) Propene	2.42	41	670492	11.612	PPB		96
3) Dichlorodifluoromethane	2.45	85	1801416	10.171	PPB		99
4) Chlorodifluoromethane	2.46	51	1274389	11.624	PPB		97
5) Freon 114	2.58	85	1777552	10.367	PPB		97
6) Chloromethane	2.62	50	969883	11.402	PPB		99
7) Vinyl Chloride	2.73	62	681357	10.699	PPB		96
8) 1,3-Butadiene	2.77	54	1239105	12.066	PPB		96
9) Bromomethane	3.06	94	571450	10.136	PPB		100
10) Chloroethane	3.17	64	303141	10.803	PPB		99
11) Dichlorofluoromethane	3.39	67	1192245	10.795	PPB		97
12) Trichlorofluoromethane	3.46	101	2023840	11.139	PPB		99
13) Pentane	3.56	43	1524558	13.445	PPB		98
14) Acrolein	3.97	56	223196	13.391	PPB		98
15) 1,1-Dichloroethene	4.08	61	1132557	11.348	PPB		96
16) Freon 113	4.12	103	840414	10.192	PPB		98
17) Acetone	4.19	43	1165474	13.318	PPB		91
18) Methyl Iodide	4.25	142	1730456	10.229	PPB	#	85
19) Carbon Disulfide	4.34	76	1628942	11.050	PPB		99
20) Acetonitrile	4.57	41	1210185	14.187	PPB		95
21) 3-Chloropropene	4.57	76	218059	10.256	PPB		79
22) Methylene Chloride	4.73	84	448395	10.399	PPB		94
23) tert-Butyl Alcohol	5.11	59	1372293	11.834	PPB	#	100
24) Acrylonitrile	5.10	53	997605	12.623	PPB		98
25) trans-1,2-Dichloroethene	5.13	61	1055216	11.622	PPB		97
26) Methyl t-Butyl Ether	5.18	73	1600632	11.328	PPB		94
27) Hexane	5.56	57	1256457	11.973	PPB		97
28) 1,1-Dichloroethane	5.73	63	1179603	10.318	PPB		99
29) Vinyl Acetate	5.88	43	1636621	14.834	PPB		98
30) cis-1,2-Dichloroethene	6.59	61	907305	10.251	PPB		97
31) 2-Butanone	6.68	72	243084	11.532	PPB	#	61
32) Ethyl Acetate	6.83	70	109274	11.707	PPB		90
33) Methyl Acrylate	6.84	55	1358888	11.729	PPB		100
34) Chloroform	7.11	83	1268004	10.422	PPB		99
35) 1,1,1-Trichloroethane	7.35	97	1476096	10.473	PPB		98
36) Carbon Tetrachloride	7.61	117	1695448	9.983	PPB		100
38) 1,2-Dichloroethane	7.97	62	986672	11.468	PPB		100
39) Benzene	7.94	78	1535133	10.358	PPB		95
40) Isooctane	8.13	57	3727346	11.618	PPB		96
41) Heptane	8.48	43	1526662	12.805	PPB		98
42) Trichloroethene	9.04	130	990394	8.934	PPB		97
43) Ethyl Acrylate	9.37	55	1705414	12.367	PPB		100
44) 1,2-Dichloropropane	9.42	63	674813	10.827	PPB		91
45) Methyl Methacrylate	9.78	69	567336	11.318	PPB	#	85
46) Dibromomethane	9.62	174	874608	9.820	PPB		95 #173
47) 1,4-Dioxane	9.82	88	271773m	10.777	PPB		
48) Bromodichloromethane	9.96	83	1539460	11.443	PPB		97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0122.D
Acq On : 8 Aug 2005 9:07
Operator : JBS
Sample : VSTD010
Misc :
ALS Vial : 21 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 08 11:57:58 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Thu Aug 04 12:14:52 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) cis-1,3-Dichloropropene	10.83	75	995613	9.823	PPB		97
50) 4-Methyl-2-Pentanone	11.24	43	1594624	12.772	PPB		99
52) Toluene	11.48	91	2111129	10.134	PPB		98
53) Octane	11.87	43	1771004	12.092	PPB		99
54) trans-1,3-Dichloropropene	11.99	75	914713	10.080	PPB		98
55) Ethyl Methacrylate	12.33	69	928875	10.526	PPB	#	66
56) 1,1,2-Trichloroethane	12.36	97	775570	9.486	PPB		99
57) Tetrachloroethene	12.62	166	1177443	8.344	PPB		98
58) 2-Hexanone	13.06	43	1588967	14.601	PPB	#	90
59) Dibromochloromethane	13.18	127	1522805	9.756	PPB		99
60) 1,2-Dibromoethane	13.37	107	1241710	9.729	PPB		100
61) Chlorobenzene	14.54	112	1724098	9.347	PPB		96
62) 1,1,1,2-Tetrachloroethane	14.78	131	1298584	9.469	PPB		97
63) Ethylbenzene	14.88	91	2706591	10.389	PPB		98
64) m/p-Xylene	15.18	91	4377679	20.177	PPB		97
65) o-Xylene	16.12	91	2185337	10.582	PPB		98
66) Styrene	16.17	104	1817209	10.385	PPB	#	100
67) Bromoform	16.53	173	1853834	10.276	PPB		99
68) Cumene	17.09	105	3337696	11.682	PPB		98
69) 1,1,2,2-Tetrachloroethane	17.89	83	1470348	11.123	PPB		100
70) 1,2,3-Trichloropropane	17.92	110	633316	11.126	PPB		92
71) Bromobenzene	17.71	156	1321558	10.094	PPB		100
72) 4-Ethyltoluene	18.46	105	3447773	10.462	PPB		99
73) 1,3,5-Trimethylbenzene	18.66	105	3066304	10.809	PPB		97
74) Alpha Methyl Styrene	19.23	118	1580330	11.295	PPB		98
75) 1,2,4-Trimethylbenzene	19.61	105	3178239	10.450	PPB		95
76) 1,3-Dichlorobenzene	20.26	146	2307613	9.916	PPB		98
77) 1,4-Dichlorobenzene	20.53	146	2322701	10.123	PPB		99
78) Benzyl Chloride	16.12	91	2185337	10.582	PPB	#	100
79) 1,2-Dichlorobenzene	21.68	146	2182211	9.878	PPB		98
80) Hexachloroethane	22.39	117	1413210	11.483	PPB	#	95
81) 1,2,4-Trichlorobenzene	24.83	180	2061691	9.982	PPB		99
82) Hexachlorobutadiene	25.12	225	2008087	10.739	PPB		98

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

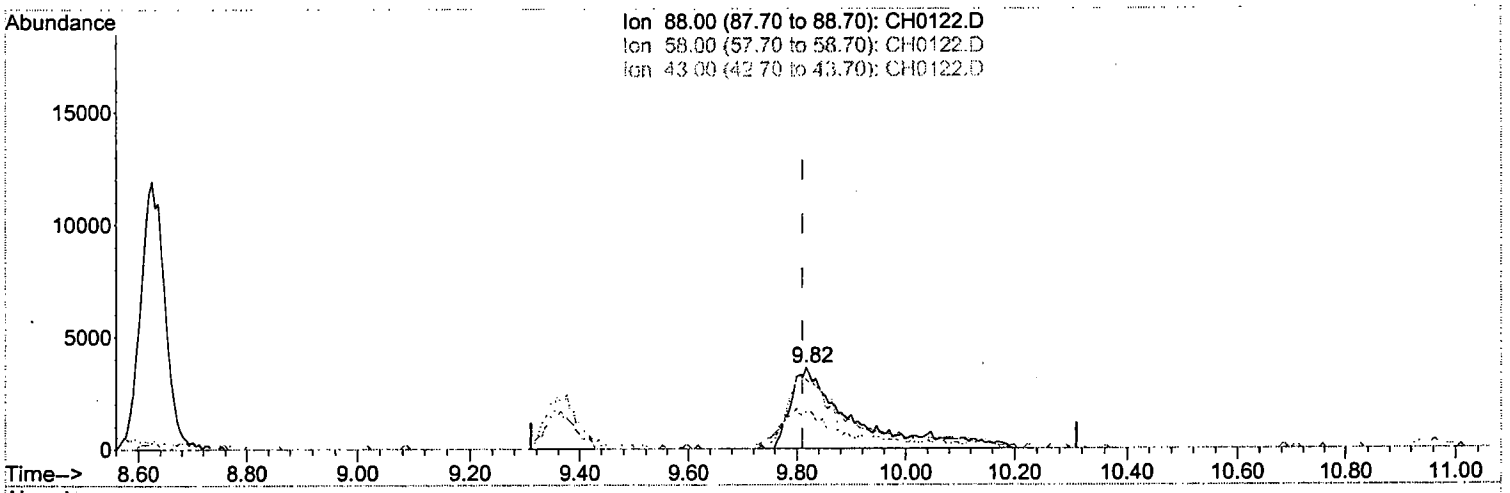
0174

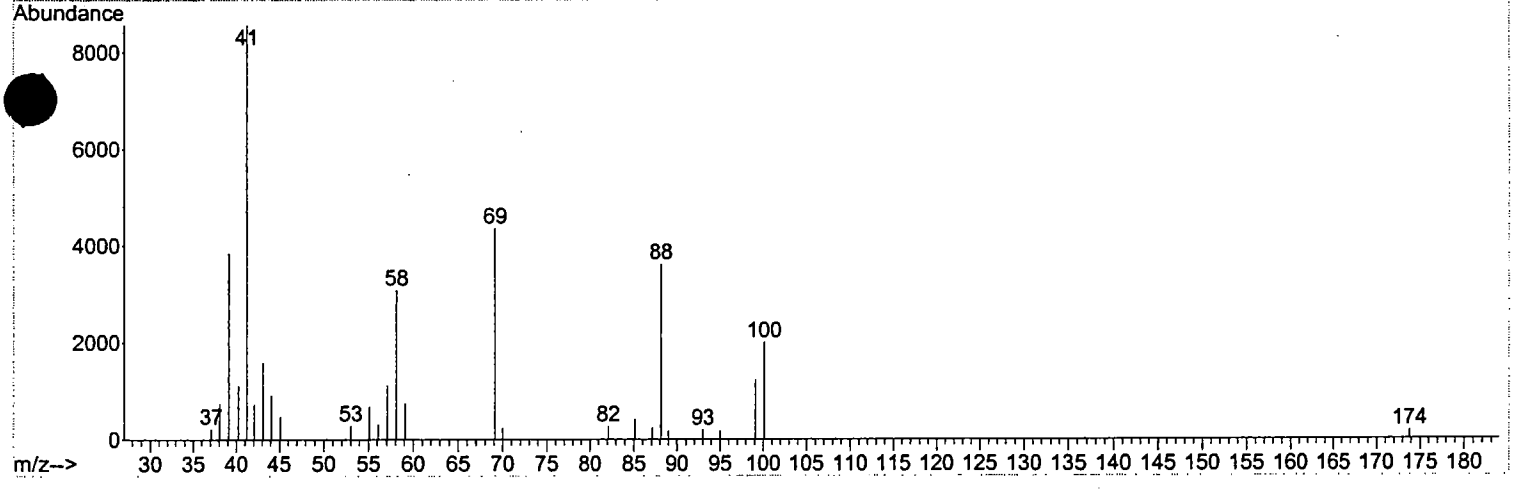
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0122.D
Acq On : 8 Aug 2005 9:07
Operator : JBS
Sample : VSTD010
Misc :
ALS Vial : 21 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 08 09:34:50 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Thu Aug 04 12:14:52 2005
Response via : Initial Calibration





TIC: CH0122.D

(47) 1,4-Dioxane

9.817min (+0.007) 10.78PPB m

response 271773

Ion	Exp%	Act%
88.00	100	100
58.00	91.00	67.56#
43.00	0.80	0.00#
0.00	0.00	0.00

Split peak
KMB 8/9/05

KMB 8/9/05

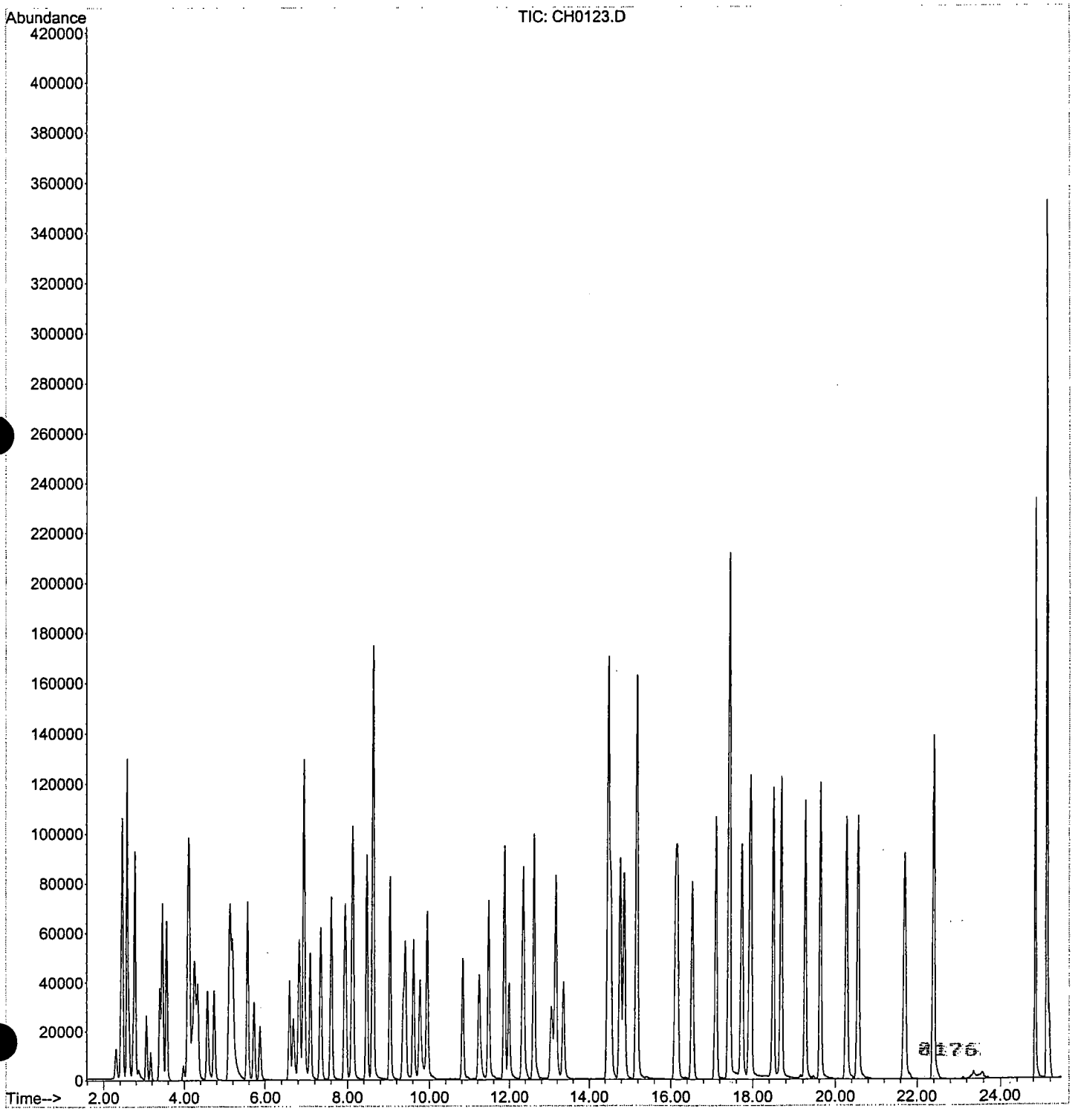
0175

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0123.D
Acq On : 8 Aug 2005 9:52
Operator : JBS
Sample : VSTD005
Misc :
ALS Vial : 21 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 08 11:59:31 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 11:58:29 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0123.D
Acq On : 8 Aug 2005 9:52
Operator : JBS
Sample : VSTD005
Misc :
ALS Vial : 21 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 08 11:59:31 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 11:58:29 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.94	130	687518	10.000			0.00
37) 1,4-Difluorobenzene	8.62	114	2327639	10.000			0.00
51) Chlorobenzene d5	14.47	117	2117411	10.000			-0.01

Target Compounds							Qvalue
2) Propene	2.42	41	335352	6.171	PPB		96
3) Dichlorodifluoromethane	2.45	85	924402	5.668	PPB		100
4) Chlorodifluoromethane	2.46	51	630916	6.124	PPB		97
5) Freon 114	2.58	85	861749	5.497	PPB		97
6) Chloromethane	2.62	50	486654	6.093	PPB		99
7) Vinyl Chloride	2.73	62	335166	5.736	PPB		95
8) 1,3-Butadiene	2.77	54	590053	6.120	PPB		94
9) Bromomethane	3.06	94	269478	5.266	PPB		98
10) Chloroethane	3.17	64	145647	5.690	PPB	#	46
11) Dichlorofluoromethane	3.39	67	562776	5.568	PPB		96
12) Trichlorofluoromethane	3.46	101	970455	5.751	PPB		100
13) Pentane	3.56	43	704538	6.524	PPB		96
14) Acrolein	3.98	56	104371	6.714	PPB		99
15) 1,1-Dichloroethene	4.08	61	533084	5.763	PPB		96
16) Freon 113	4.12	103	398595	5.334	PPB		99
17) Acetone	4.20	43	510380	6.136	PPB		93
18) Methyl Iodide	4.25	142	821170	5.427	PPB	#	85
19) Carbon Disulfide	4.34	76	786536	5.862	PPB		95
20) Acetonitrile	4.57	41	529275	6.534	PPB		92
21) 3-Chloropropene	4.57	76	113863m	5.899	PPB		
22) Methylene Chloride	4.73	84	211297	5.395	PPB		92
23) tert-Butyl Alcohol	5.13	59	657872m	6.198	PPB		
24) Acrylonitrile	5.09	53	451197	6.139	PPB		96
25) trans-1,2-Dichloroethene	5.13	61	502391	6.014	PPB		97
26) Methyl t-Butyl Ether	5.18	73	737596	5.750	PPB	#	89
27) Hexane	5.56	57	584904	6.060	PPB		97
28) 1,1-Dichloroethane	5.72	63	551477	5.268	PPB		99
29) Vinyl Acetate	5.87	43	614407	5.846	PPB	#	78
30) cis-1,2-Dichloroethene	6.59	61	434810	5.364	PPB		93
31) 2-Butanone	6.69	72	105107	5.533	PPB	#	61
32) Ethyl Acetate	6.82	70	46710	5.605	PPB	#	1
33) Methyl Acrylate	6.84	55	606055	5.703	PPB	#	82
34) Chloroform	7.10	83	601085	5.435	PPB		98
35) 1,1,1-Trichloroethane	7.35	97	700304	5.437	PPB		97
36) Carbon Tetrachloride	7.61	117	826764	5.332	PPB		100
38) 1,2-Dichloroethane	7.96	62	468402	5.646	PPB		99
39) Benzene	7.93	78	724674	5.226	PPB		95
40) Isooctane	8.13	57	1780117	5.833	PPB		96
41) Heptane	8.47	43	754892	6.512	PPB		96
42) Trichloroethene	9.04	130	486749	4.762	PPB		97
43) Ethyl Acrylate	9.36	55	776580	5.903	PPB	#	89
44) 1,2-Dichloropropane	9.41	63	332178	5.617	PPB	#	91
45) Methyl Methacrylate	9.77	69	254920	5.437	PPB		89
46) Dibromomethane	9.61	174	401364	4.928	PPB		92
47) 1,4-Dioxane	9.82	88	129509m	5.566	PPB		
48) Bromodichloromethane	9.95	83	741427	5.797	PPB		97

0177

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0123.D
Acq On : 8 Aug 2005 9:52
Operator : JBS
Sample : VSTD005
Misc :
ALS Vial : 21 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 08 11:59:31 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 11:58:29 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) cis-1,3-Dichloropropene	10.82	75	469971	4.903	PPB		94
50) 4-Methyl-2-Pentanone	11.24	43	746489	6.099	PPB		97
52) Toluene	11.47	91	985909	5.230	PPB		99
53) Octane	11.87	43	911266	6.615	PPB		96
54) trans-1,3-Dichloropropene	11.98	75	427148	5.110	PPB		98
55) Ethyl Methacrylate	12.32	69	404636	5.051	PPB	#	92
56) 1,1,2-Trichloroethane	12.35	97	366485	4.948	PPB		99
57) Tetrachloroethene	12.61	166	602453	4.862	PPB		99
58) 2-Hexanone	13.05	43	629524	5.838	PPB	#	93
59) Dibromochloromethane	13.16	127	756719	5.355	PPB		98
60) 1,2-Dibromoethane	13.36	107	614456	5.358	PPB		97
61) Chlorobenzene	14.53	112	843381	5.098	PPB		97
62) 1,1,1,2-Tetrachloroethane	14.76	131	605796	4.886	PPB		97
63) Ethylbenzene	14.86	91	1213038	5.146	PPB		97
64) m/p-Xylene	15.16	91	2025200	10.296	PPB		96
65) o-Xylene	16.11	91	989519	5.286	PPB		97
66) Styrene	16.16	104	838925	5.313	PPB	#	100
67) Bromoform	16.53	173	875358	5.400	PPB		100
68) Cumene	17.10	105	1457271	5.632	PPB		98
69) 1,1,2,2-Tetrachloroethane	17.92	83	716356	5.924	PPB		98
70) 1,2,3-Trichloropropane	17.95	110	303578	5.832	PPB		91
71) Bromobenzene	17.73	156	612877	5.243	PPB		98
72) 4-Ethyltoluene	18.49	105	1529469	5.116	PPB		98
73) 1,3,5-Trimethylbenzene	18.68	105	1408809	5.455	PPB		98
74) Alpha Methyl Styrene	19.26	118	683965	5.375	PPB		96
75) 1,2,4-Trimethylbenzene	19.63	105	1402456	5.029	PPB		96
76) 1,3-Dichlorobenzene	20.27	146	1065620	5.060	PPB		98
77) 1,4-Dichlorobenzene	20.55	146	1074965	5.178	PPB		96
78) Benzyl Chloride	16.11	91	989519	5.286	PPB	#	100
79) 1,2-Dichlorobenzene	21.69	146	1038414	5.193	PPB		98
80) Hexachloroethane	22.40	117	608617	5.371	PPB	#	90
81) 1,2,4-Trichlorobenzene	24.84	180	910479	4.807	PPB		99
82) Hexachlorobutadiene	25.12	225	925293	5.252	PPB		99

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

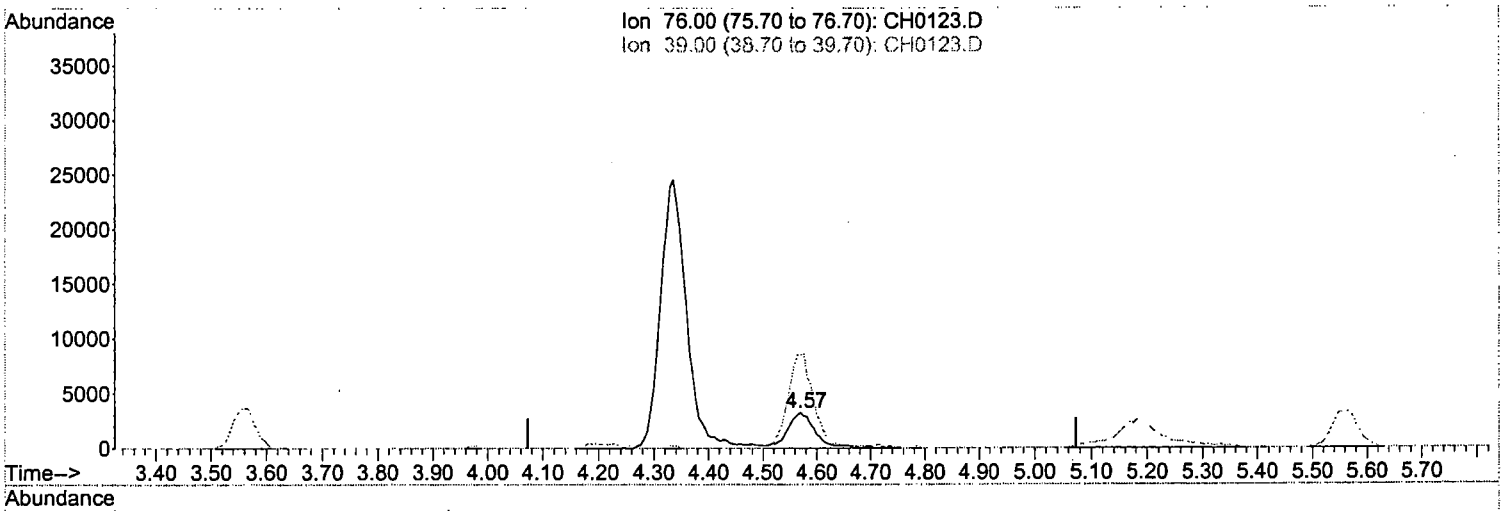
8178

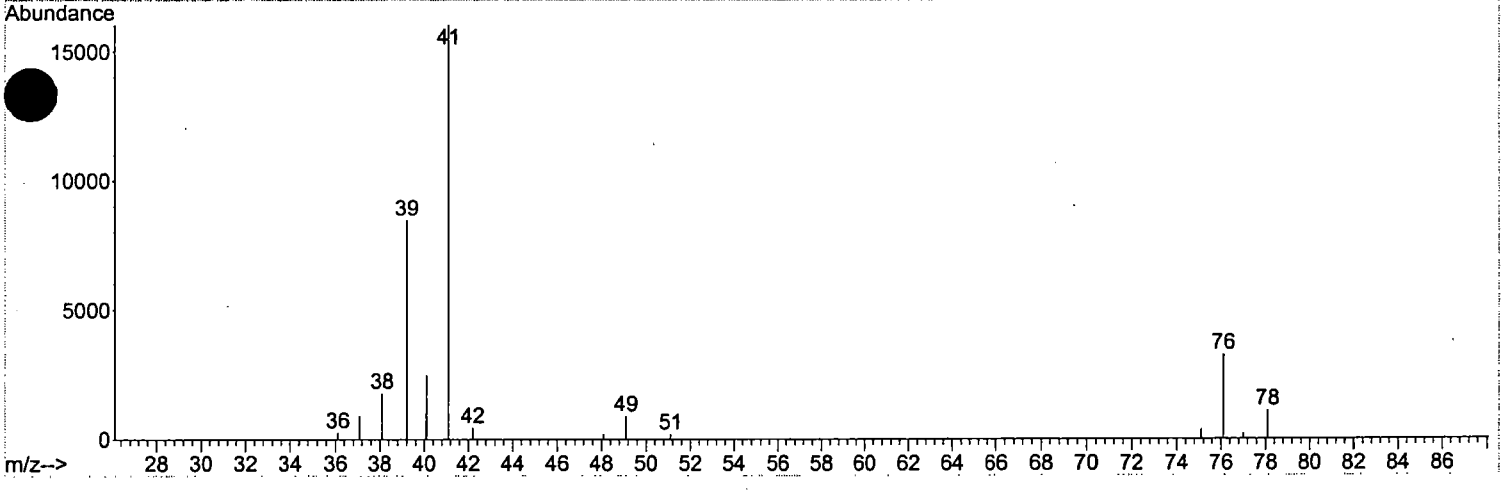
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0123.D
Acq On : 8 Aug 2005 9:52
Operator : JBS
Sample : VSTD005
Misc :
ALS Vial : 21 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 08 11:58:43 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 11:58:29 2005
Response via : Initial Calibration





TIC: CH0123.D

(21) 3-Chloropropene

4.570min (-0.003) 5.90PPB m

response 113863

Ion	Exp%	Act%
76.00	100	100
39.00	244.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

missed peak
[illegible] 8/9/05

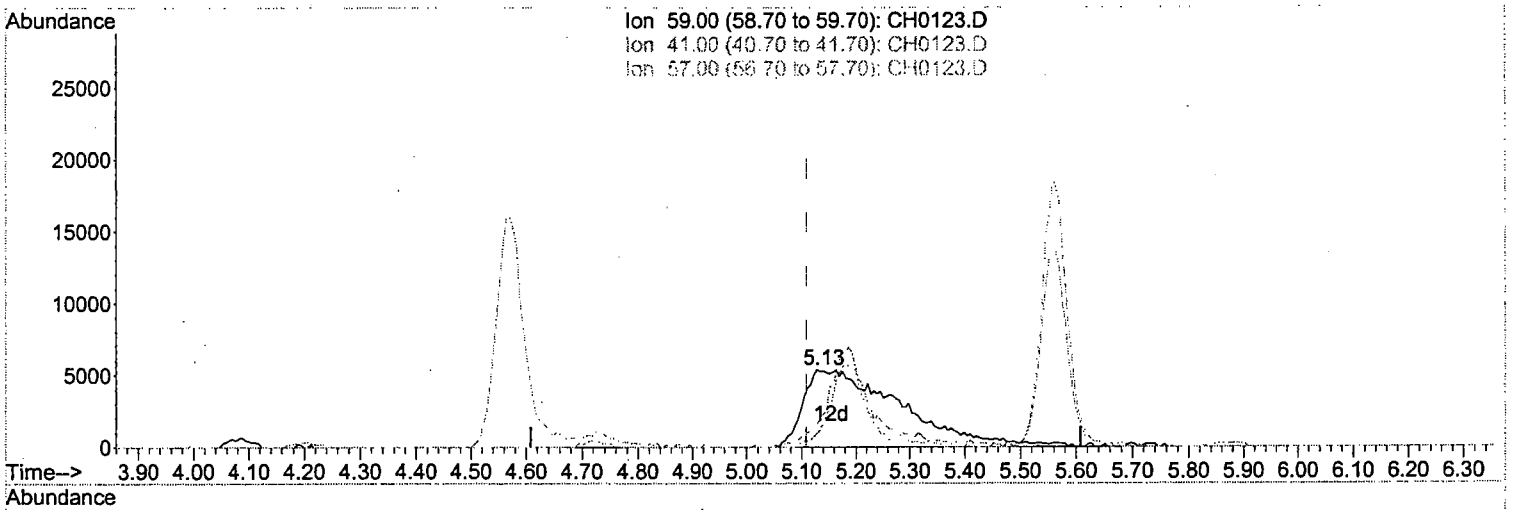
[illegible] 8/9/05 0179

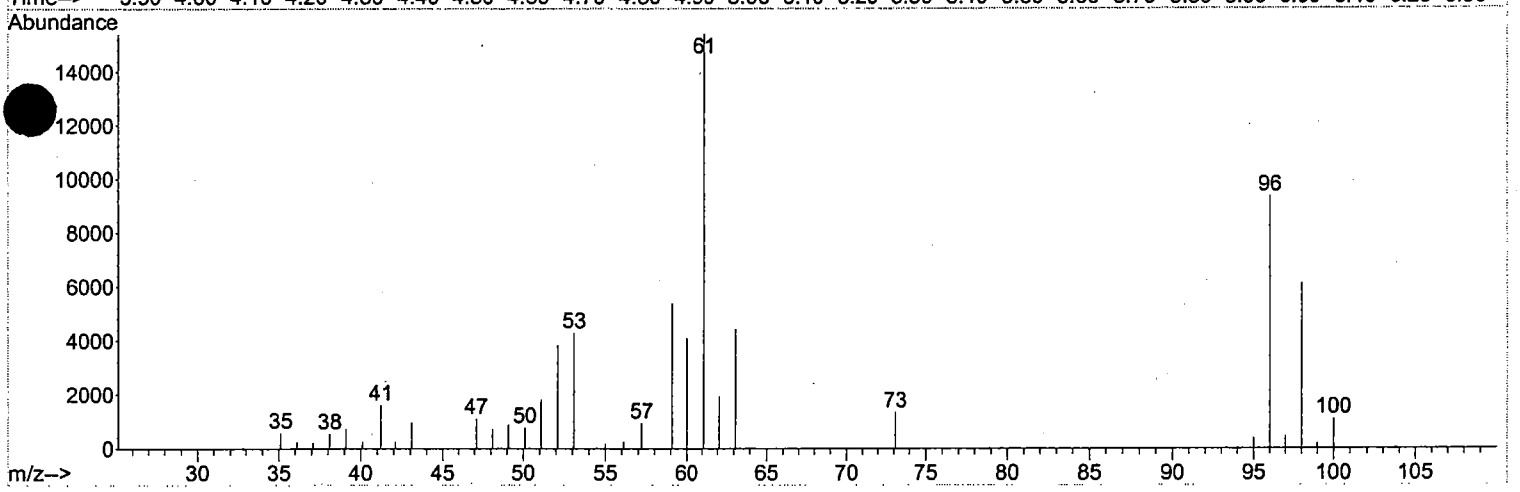
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0123.D
Acq On : 8 Aug 2005 9:52
Operator : JBS
Sample : VSTD005
Misc :
ALS Vial : 21 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 08 11:58:43 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 11:58:29 2005
Response via : Initial Calibration





TIC: CH0123.D

(23) tert-Butyl Alcohol

5.128min (+0.020) 6.20PPB m

response 657872

Ion	Exp%	Act%
59.00	100	100
41.00	0.00	0.00
57.00	0.00	0.00
0.00	0.00	0.00

Spot peak
[illegible] 8/19/05

[illegible] 8/9/05

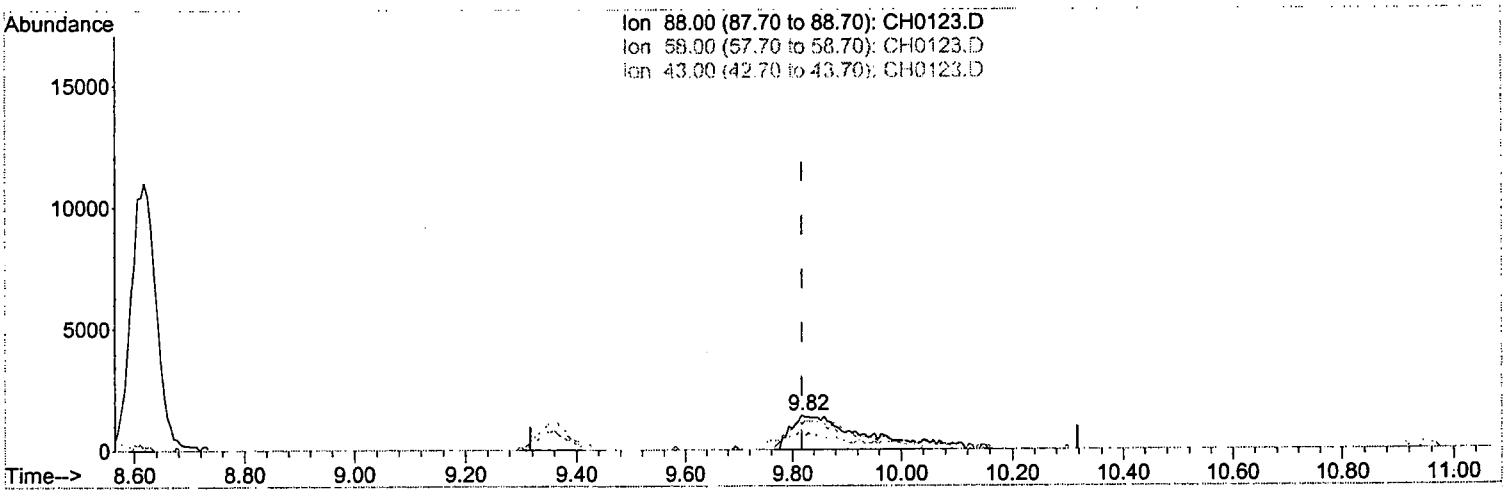
8188

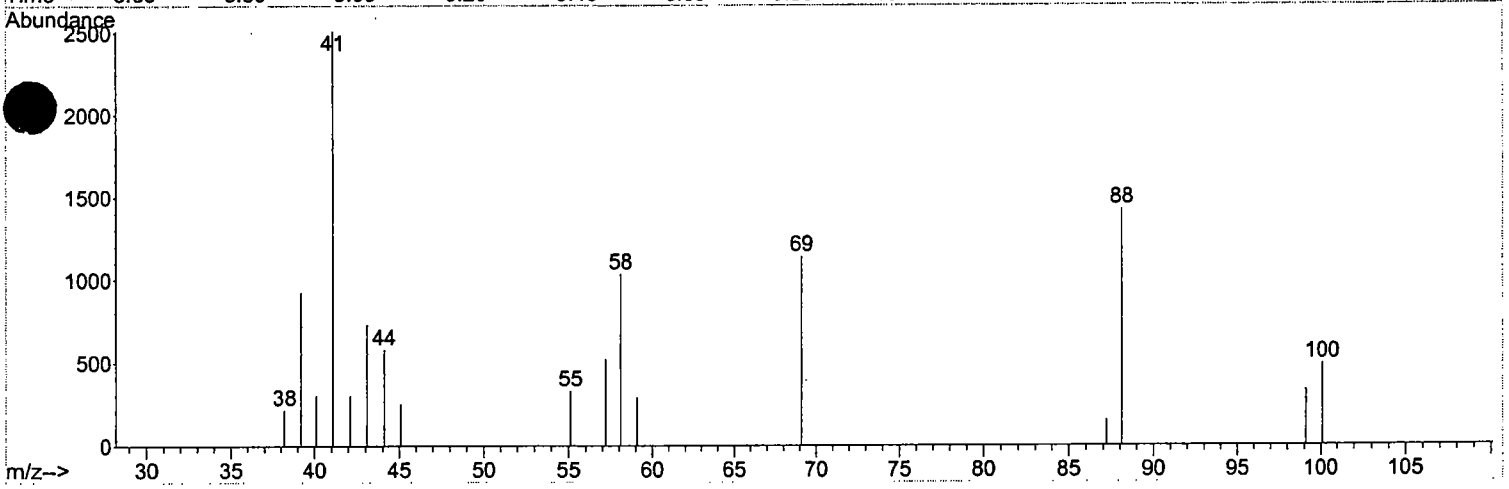
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0123.D
Acq On : 8 Aug 2005 9:52
Operator : JBS
Sample : VSTD005
Misc :
ALS Vial : 21 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 08 11:58:43 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 11:58:29 2005
Response via : Initial Calibration





TIC: CH0123.D

(47) 1,4-Dioxane

9.817min (-0.000) 5.57PPB m

response 129509

Ion	Exp%	Act%
88.00	100	100
58.00	91.00	0.00#
43.00	0.80	0.00#
0.00	0.00	0.00

Spot peak
8/9/05

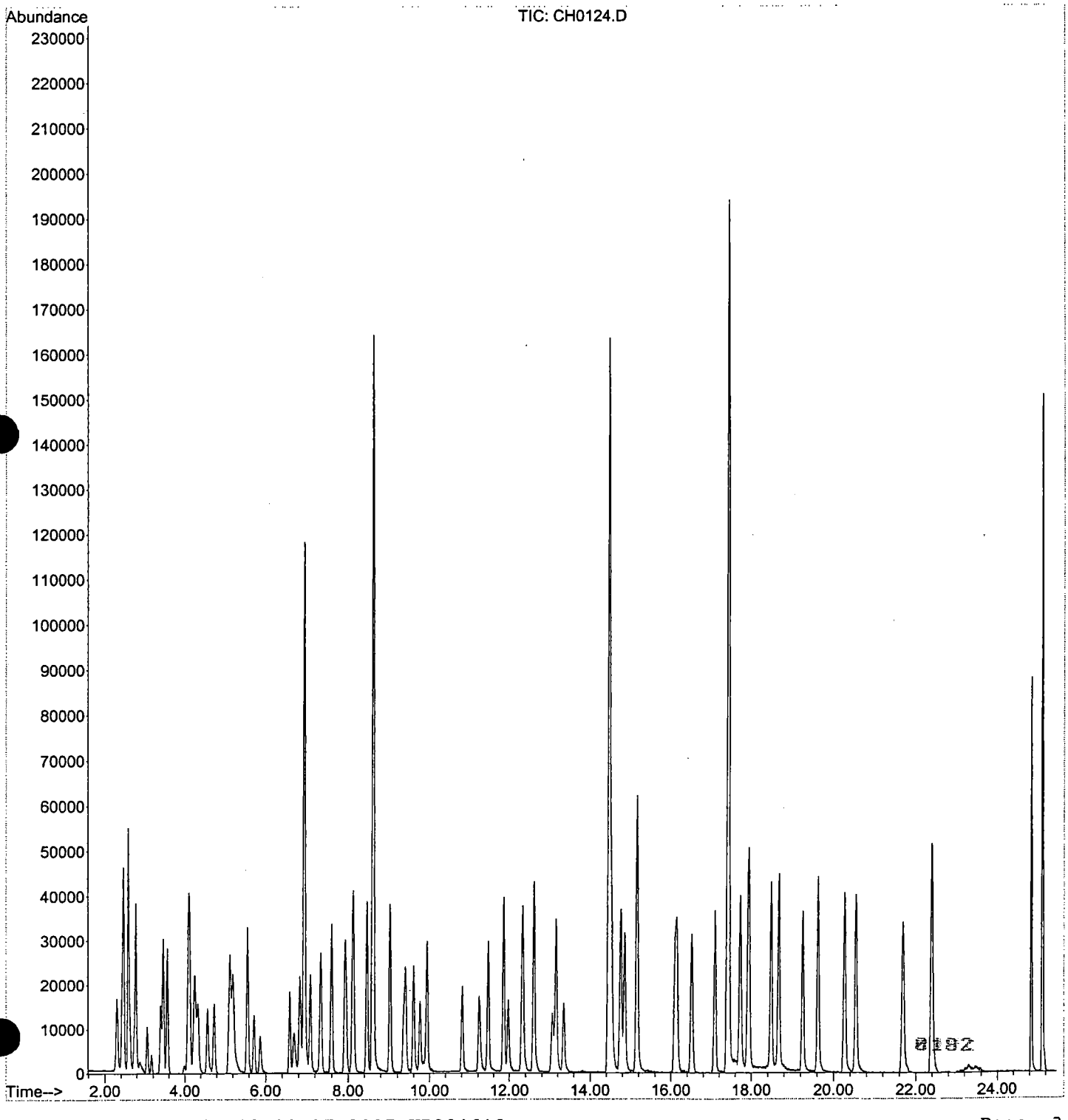
8/4/06 8181

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0124.D
Acq On : 8 Aug 2005 10:29
Operator : JBS
Sample : VSTD002
Misc :
ALS Vial : 22 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 08 12:01:11 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 11:59:55 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0124.D
Acq On : 8 Aug 2005 10:29
Operator : JBS
Sample : VSTD002
Misc :
ALS Vial : 22 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 08 12:01:11 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 11:59:55 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.94	130	612730	10.000			0.00
37) 1,4-Difluorobenzene	8.61	114	2137336	10.000			0.00
51) Chlorobenzene d5	14.46	117	1992951	10.000			0.00

Target Compounds							Qvalue
2) Propene	2.42	41	137069	2.671	PPB		97
3) Dichlorodifluoromethane	2.45	85	385060	2.546	PPB		97
4) Chlorodifluoromethane	2.46	51	273070	2.821	PPB		98
5) Freon 114	2.58	85	368446	2.568	PPB		98
6) Chloromethane	2.62	50	210421	2.806	PPB		98
7) Vinyl Chloride	2.73	62	134377	2.505	PPB		94
8) 1,3-Butadiene	2.77	54	237094	2.639	PPB		93
9) Bromomethane	3.06	94	114988	2.490	PPB		99
10) Chloroethane	3.17	64	58377	2.476	PPB	#	46
11) Dichlorofluoromethane	3.39	67	243405	2.623	PPB	#	97
12) Trichlorofluoromethane	3.46	101	405487	2.596	PPB		99
13) Pentane	3.56	43	293724	2.880	PPB		95
14) Acrolein	3.99	56	34797m	2.368	PPB		
15) 1,1-Dichloroethene	4.08	61	223872	2.619	PPB		95
16) Freon 113	4.12	103	172648	2.541	PPB		97
17) Acetone	4.22	43	218113	2.797	PPB	#	78
18) Methyl Iodide	4.25	142	337276	2.492	PPB	#	83
19) Carbon Disulfide	4.33	76	329335	2.708	PPB	#	91
20) Acetonitrile	4.57	41	215585	2.816	PPB		93
21) 3-Chloropropene	4.57	76	45571m	2.590	PPB		
22) Methylene Chloride	4.73	84	86646	2.436	PPB		85
23) tert-Butyl Alcohol	5.18	59	262098	2.649	PPB	#	100
24) Acrylonitrile	5.10	53	154077	2.260	PPB	#	93
25) trans-1,2-Dichloroethene	5.12	61	211815	2.758	PPB		93
26) Methyl t-Butyl Ether	5.20	73	267966	2.289	PPB	#	57
27) Hexane	5.56	57	239580	2.690	PPB		91
28) 1,1-Dichloroethane	5.72	63	228407	2.391	PPB		100
29) Vinyl Acetate	5.87	43	245271	2.493	PPB	#	78
30) cis-1,2-Dichloroethene	6.59	61	180501	2.420	PPB		95
31) 2-Butanone	6.68	72	37975m	2.206	PPB		
32) Ethyl Acetate	6.83	70	16477m	2.211	PPB		
33) Methyl Acrylate	6.84	55	189274	1.953	PPB	#	72
34) Chloroform	7.09	83	250168	2.479	PPB		99
35) 1,1,1-Trichloroethane	7.34	97	309605	2.635	PPB		98
36) Carbon Tetrachloride	7.60	117	361835	2.540	PPB		99
38) 1,2-Dichloroethane	7.96	62	195300	2.477	PPB		99
39) Benzene	7.92	78	301360	2.329	PPB		95
40) Isooctane	8.13	57	734349	2.535	PPB	#	95
41) Heptane	8.47	43	322118	2.858	PPB	#	96
42) Trichloroethene	9.03	130	225339	2.403	PPB		94
43) Ethyl Acrylate	9.36	55	307034	2.450	PPB	#	82
44) 1,2-Dichloropropane	9.41	63	131645	2.358	PPB		94
45) Methyl Methacrylate	9.76	69	95726	2.195	PPB		93
46) Dibromomethane	9.60	174	175207	2.370	PPB		94
47) 1,4-Dioxane	9.88	88	47422m	2.218	PPB		
48) Bromodichloromethane	9.94	83	301579	2.486	PPB		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0124.D
Acq On : 8 Aug 2005 10:29
Operator : JBS
Sample : VSTD002
Misc :
ALS Vial : 22 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 08 12:01:11 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 11:59:55 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
49) cis-1,3-Dichloropropene	10.81	75	197849	2.184 PPB		94
50) 4-Methyl-2-Pentanone	11.23	43	306706	2.571 PPB	#	87
52) Toluene	11.46	91	387747	2.160 PPB		99
53) Octane	11.86	43	366383	2.656 PPB		96
54) trans-1,3-Dichloropropene	11.98	75	165100	2.054 PPB		95
55) Ethyl Methacrylate	12.32	69	158484	2.084 PPB	#	86
56) 1,1,2-Trichloroethane	12.33	97	137458	1.943 PPB		89
57) Tetrachloroethene	12.60	166	258840	2.242 PPB		99
58) 2-Hexanone	13.05	43	303744	2.835 PPB	#	83
59) Dibromochloromethane	13.15	127	300116	2.220 PPB		97
60) 1,2-Dibromoethane	13.34	107	241885	2.215 PPB		100
61) Chlorobenzene	14.52	112	312491	1.997 PPB	#	85
62) 1,1,1,2-Tetrachloroethane	14.76	131	251733	2.140 PPB	#	74
63) Ethylbenzene	14.86	91	456059	2.043 PPB		96
64) m/p-Xylene	15.15	91	781566	4.169 PPB		97
65) o-Xylene	16.10	91	364862	2.051 PPB		95
66) Styrene	16.15	104	319425	2.125 PPB	#	100
67) Bromoform	16.52	173	366365	2.388 PPB		96
68) Cumene	17.09	105	521966	2.135 PPB		96
69) 1,1,2,2-Tetrachloroethane	17.91	83	273311	2.323 PPB		96
70) 1,2,3-Trichloropropane	17.94	110	117628	2.346 PPB		99
71) Bromobenzene	17.72	156	254932	2.316 PPB		98
72) 4-Ethyltoluene	18.48	105	534508	1.880 PPB		99
73) 1,3,5-Trimethylbenzene	18.67	105	542565	2.197 PPB		90
74) Alpha Methyl Styrene	19.25	118	233090	1.932 PPB		91
75) 1,2,4-Trimethylbenzene	19.62	105	542628	2.039 PPB		95
76) 1,3-Dichlorobenzene	20.27	146	435969	2.179 PPB		98
77) 1,4-Dichlorobenzene	20.55	146	461125	2.334 PPB		95
78) Benzyl Chloride	16.10	91	364862	2.051 PPB	#	100
79) 1,2-Dichlorobenzene	21.70	146	416264	2.178 PPB		97
80) Hexachloroethane	22.40	117	268961	2.483 PPB	#	96
81) 1,2,4-Trichlorobenzene	24.84	180	342312	1.923 PPB		99
82) Hexachlorobutadiene	25.12	225	379090	2.151 PPB		98

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

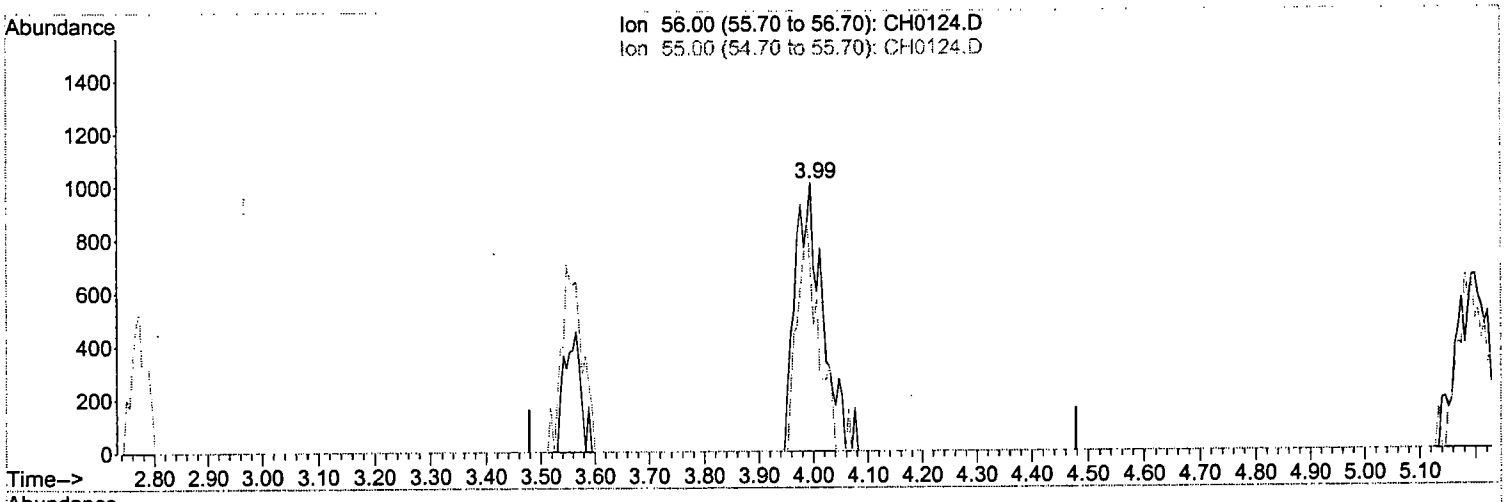
8184

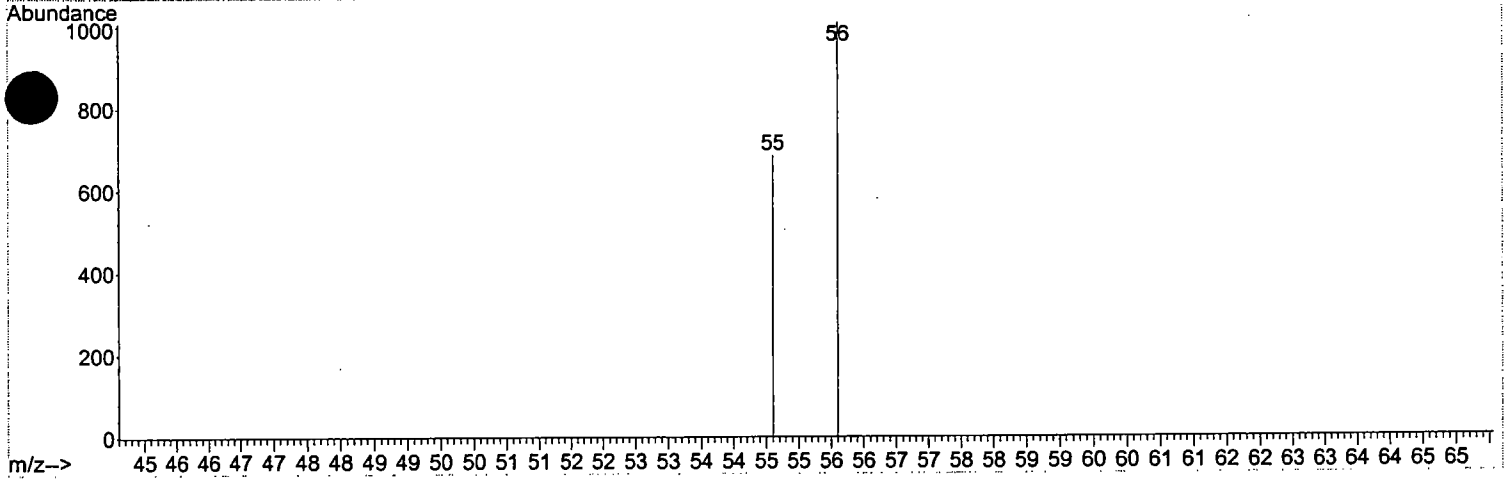
Quantitation Report (Qedit)

ORIGINAL

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0124.D
Acq On : 8 Aug 2005 10:29
Operator : JBS
Sample : VSTD002
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 08 12:00:10 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 11:59:55 2005
Response via : Initial Calibration





TIC: CH0124.D

(14) Acrolein

3.994min (+0.016) 2.37PPB m

response 34797

Ion	Exp%	Act%
56.00	100	100
55.00	69.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Spike peak
8/9/05

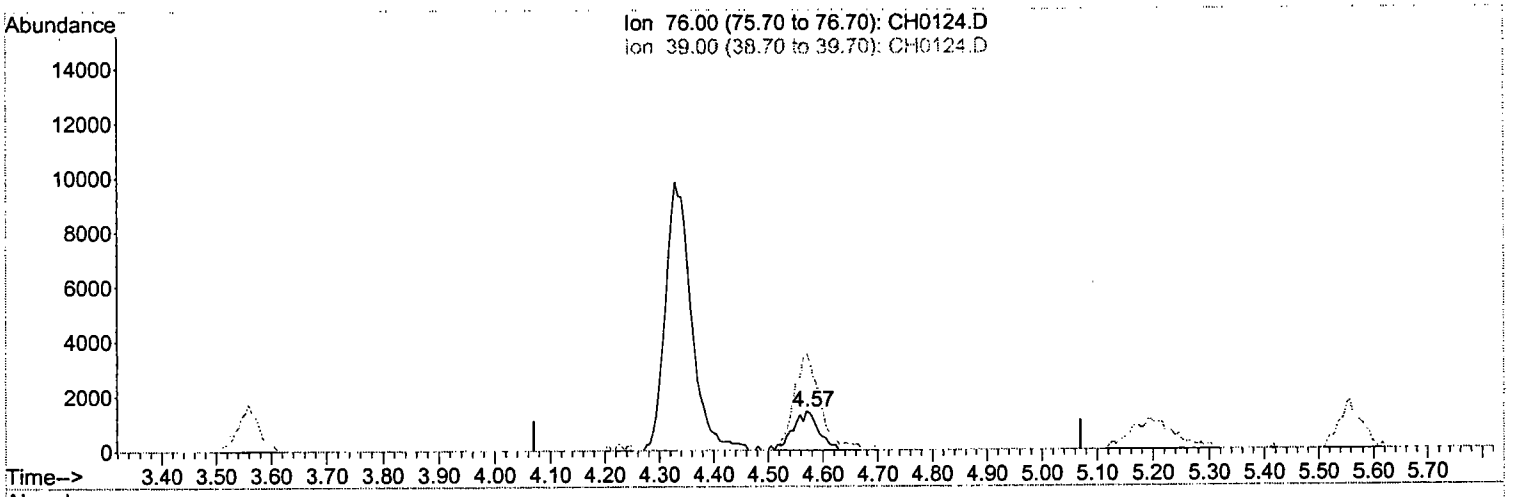
8185

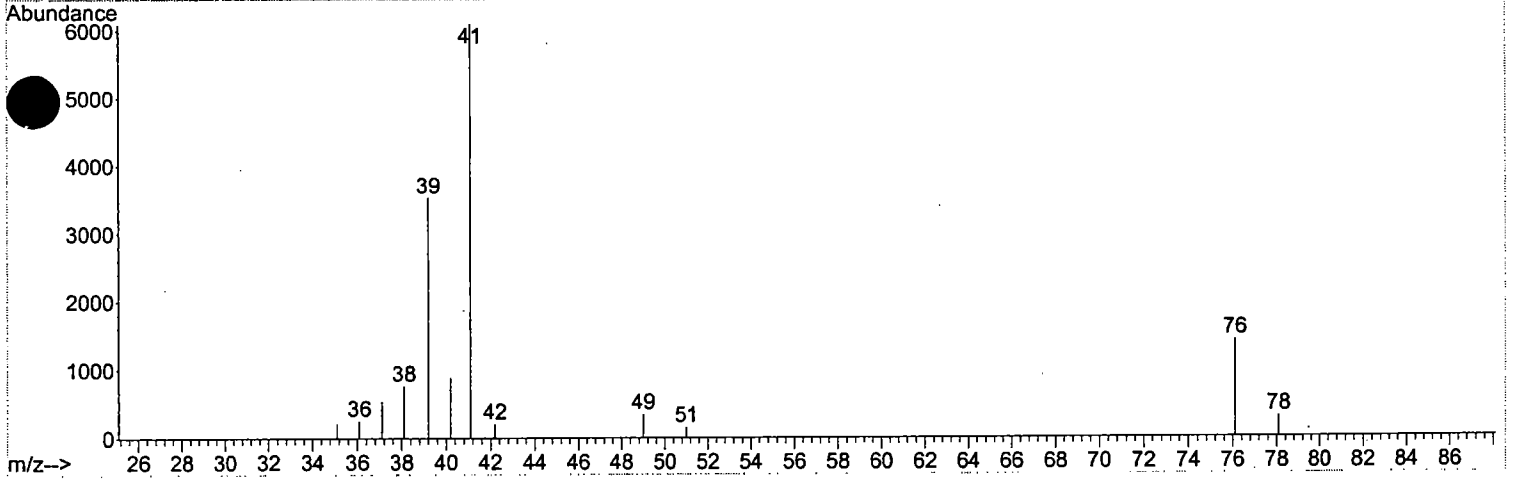
Quantitation Report (Qedit)

ORIGINAL

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0124.D
Acq On : 8 Aug 2005 10:29
Operator : JBS
Sample : VSTD002
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 08 12:00:10 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 11:59:55 2005
Response via : Initial Calibration





TIC: CH0124.D

(21) 3-Chloropropene

4.570min (-0.000) 2.59PPB m

response 45571

Ion	Exp%	Act%
76.00	100	100
39.00	244.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Missed peak
[illegible] 8/9/05

[illegible] 8/9/05

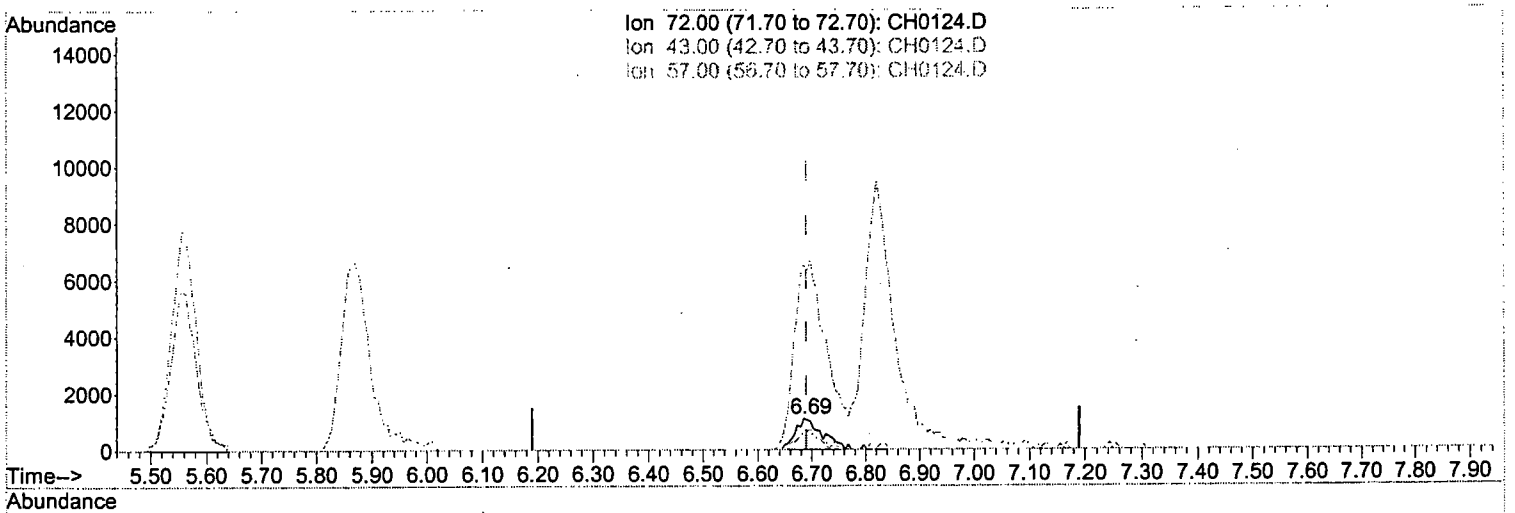
8186

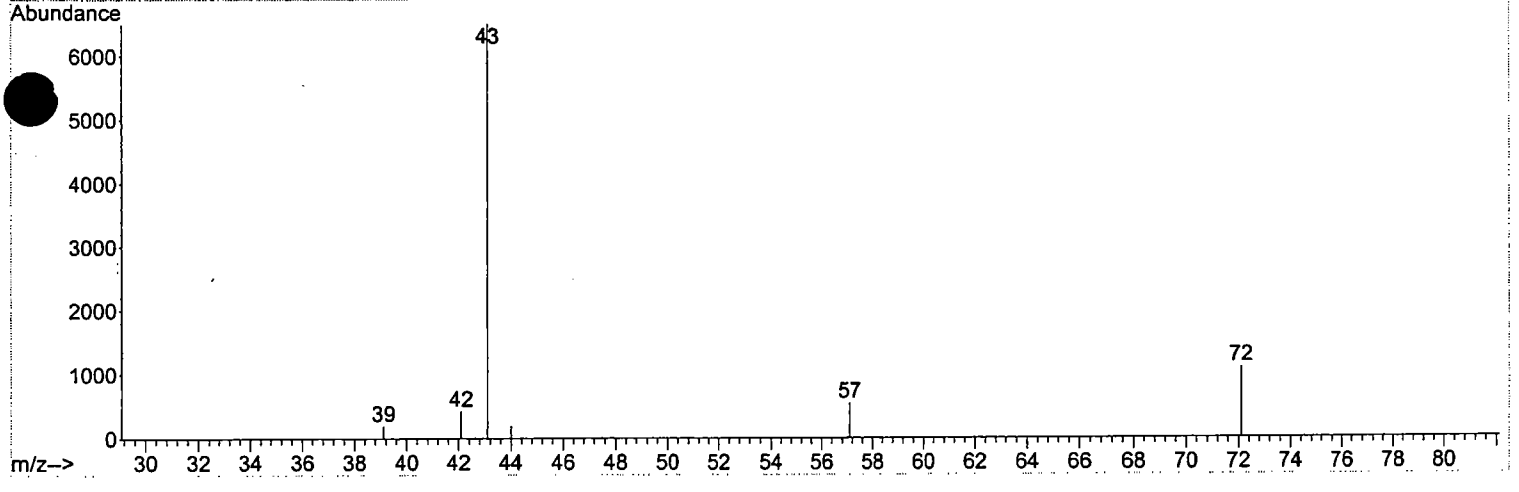
Quantitation Report (Qedit)

ORIGINAL

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0124.D
Acq On : 8 Aug 2005 10:29
Operator : JBS
Sample : VSTD002
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 08 12:00:10 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 11:59:55 2005
Response via : Initial Calibration





TIC: CH0124.D

(31) 2-Butanone

6.685min (-0.005) 2.21PPB m

response 37975

Ion	Exp%	Act%
72.00	100	100
43.00	518.90	705.42#
57.00	36.10	0.00#
0.00	0.00	0.00

Spot peak
mixing 3/9/05

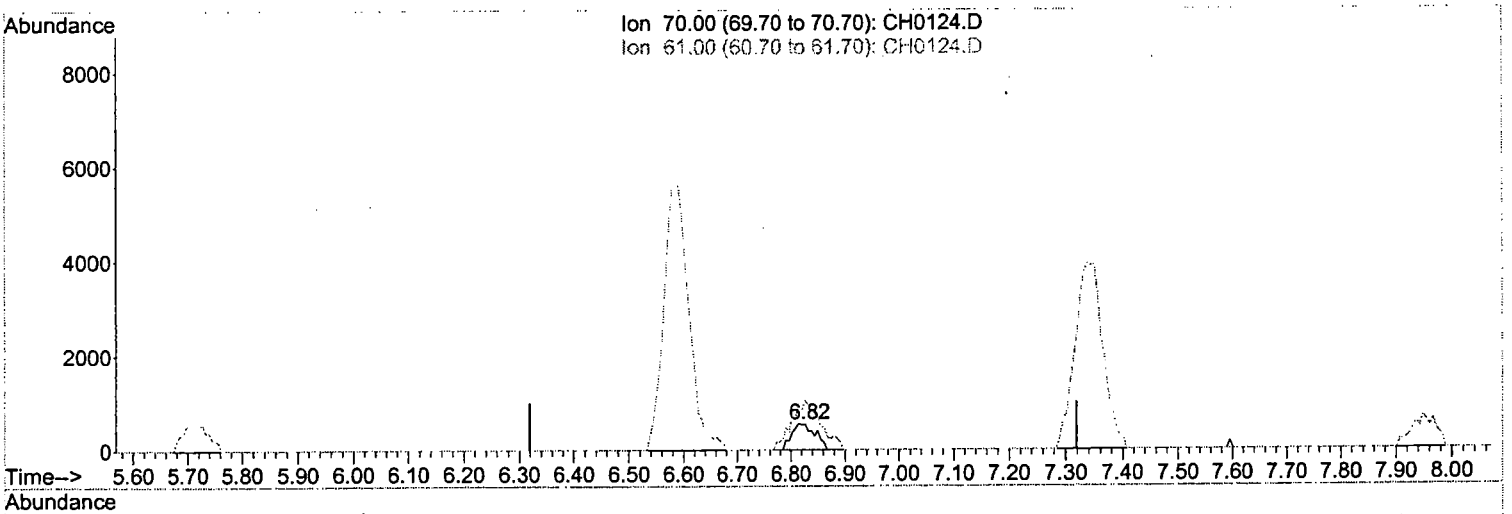
8187

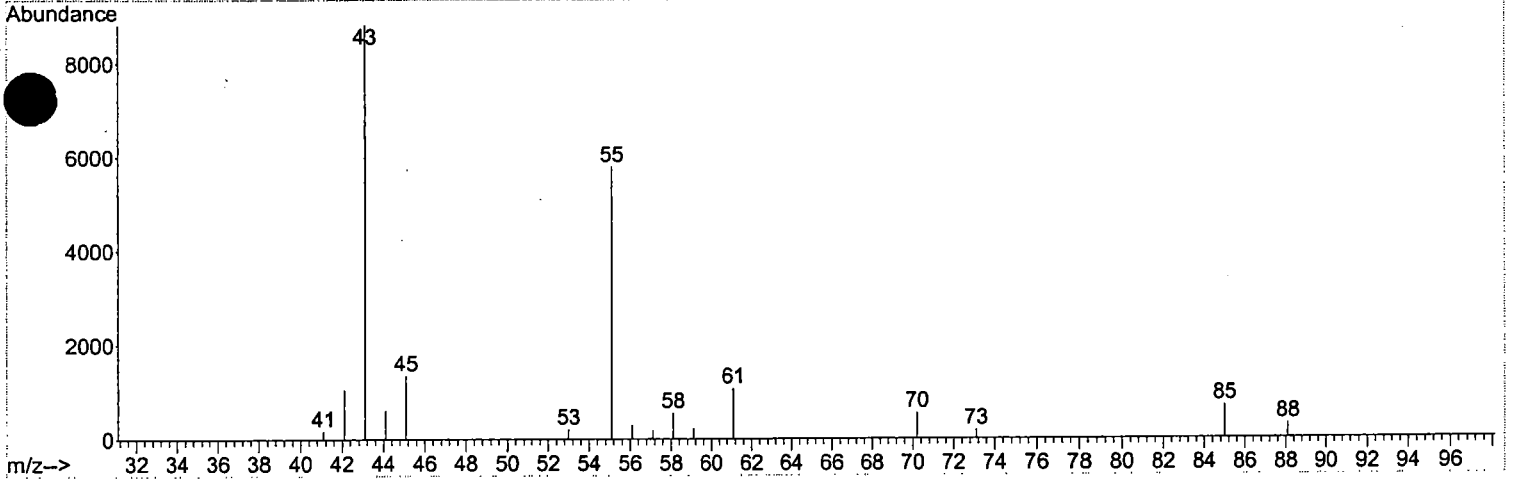
Quantitation Report (Qedit)

ORIGINAL

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0124.D
Acq On : 8 Aug 2005 10:29
Operator : JBS
Sample : VSTD002
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 08 12:00:10 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 11:59:55 2005
Response via : Initial Calibration





TIC: CH0124.D

(32) Ethyl Acetate

6.826min (+0.007) 2.21PPB m

response 16477

Ion	Exp%	Act%
70.00	100	100
61.00	172.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Spectrum 3/7/05

0188

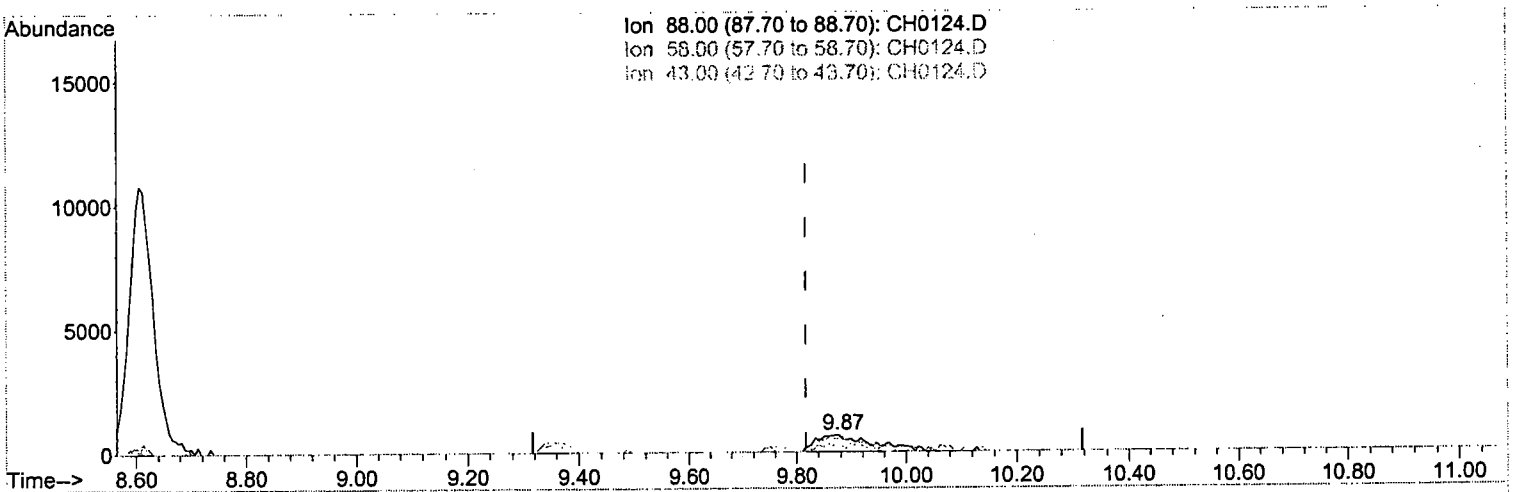
ALLTO15.M Mon Aug 08 12:00:54 2005 HP094646

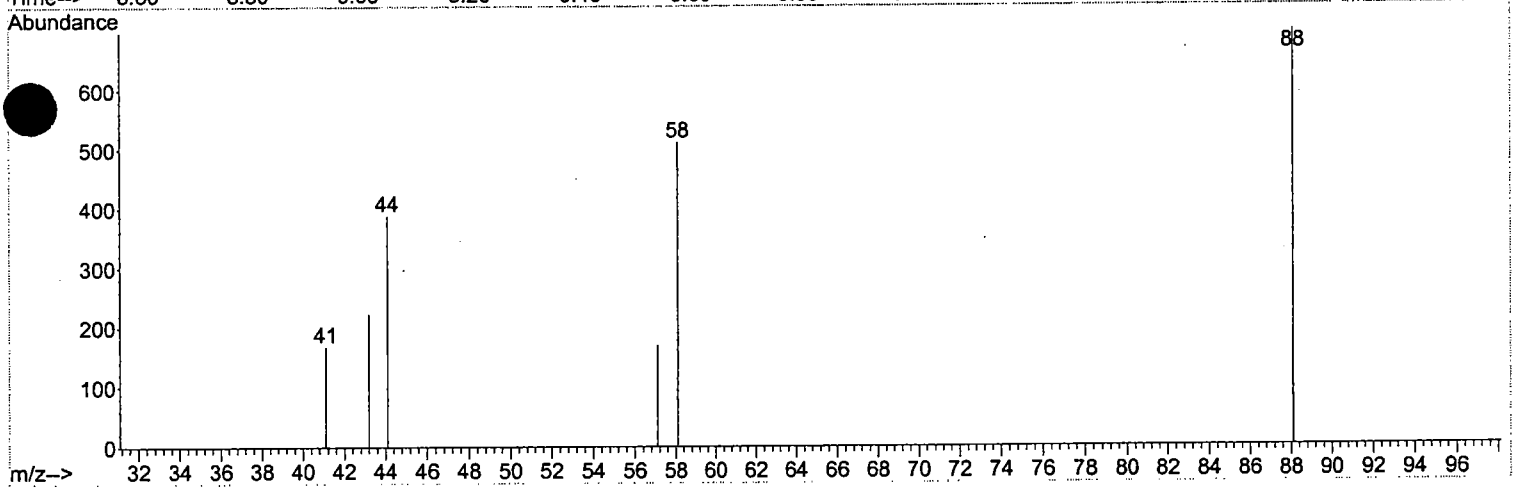
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0124.D
Acq On : 8 Aug 2005 10:29
Operator : JBS
Sample : VSTD002
Misc :
ALS Vial : 22 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 08 12:00:10 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 11:59:55 2005
Response via : Initial Calibration





TIC: CH0124.D

(47) 1,4-Dioxane

9.875min (+0.059) 2.22PPB m

response 47422

Ion	Exp%	Act%
88.00	100	100
58.00	91.00	0.00#
43.00	0.80	0.00#
0.00	0.00	0.00

Spike
JBS 3/9/05

JBS 3/9/05

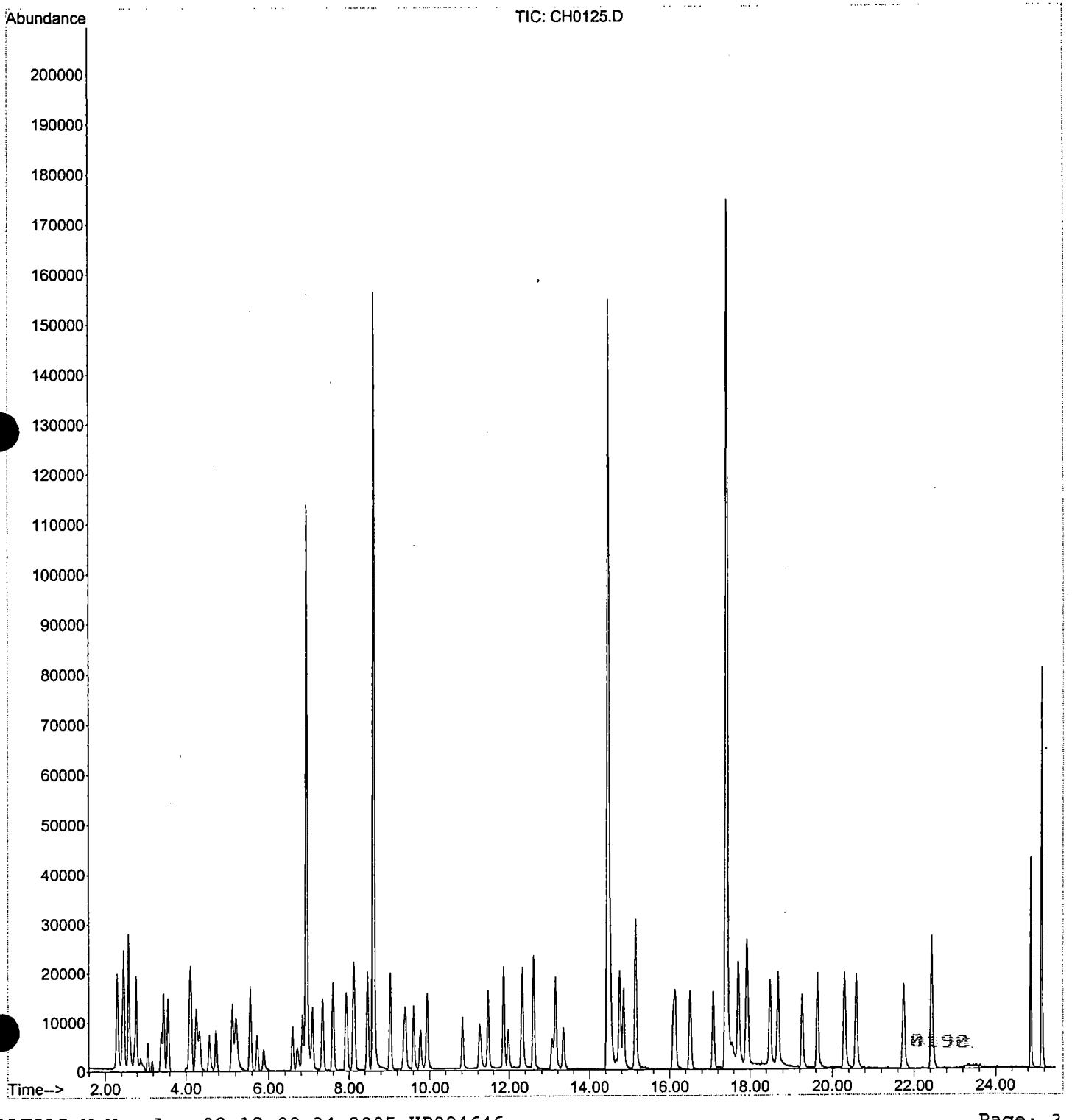
0189

Quantitation Report (QT Reviewed)

ORIGINAL

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0125.D
Acq On : 8 Aug 2005 11:05
Operator : JBS
Sample : VSTD001
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 08 12:02:48 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 12:01:40 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ORIGINAL

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0125.D
Acq On : 8 Aug 2005 11:05
Operator : JBS
Sample : VSTD001
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 08 12:02:48 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 12:01:40 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.93	130	584365	10.000			0.00
37) 1,4-Difluorobenzene	8.61	114	2067826	10.000			0.00
51) Chlorobenzene d5	14.45	117	1882396	10.000			-0.01

Target Compounds							Qvalue
2) Propene	2.42	41	70607	1.347	PPB	#	58
3) Dichlorodifluoromethane	2.45	85	201387	1.336	PPB		99
4) Chlorodifluoromethane	2.46	51	145204	1.438	PPB	#	69
5) Freon 114	2.58	85	182065	1.257	PPB		99
6) Chloromethane	2.61	50	108132	1.384	PPB		100
7) Vinyl Chloride	2.73	62	66566	1.228	PPB	#	44
8) 1,3-Butadiene	2.77	54	119596	1.298	PPB		93
9) Bromomethane	3.05	94	60478	1.307	PPB		98
10) Chloroethane	3.17	64	28134	1.190	PPB	#	46
11) Dichlorofluoromethane	3.40	67	125459	1.332	PPB	#	90
12) Trichlorofluoromethane	3.46	101	226407	1.427	PPB		98
13) Pentane	3.56	43	154712	1.453	PPB		95
14) Acrolein	4.01	56	13657m	0.945	PPB		
15) 1,1-Dichloroethene	4.09	61	118041	1.357	PPB		96
16) Freon 113	4.12	103	87796	1.289	PPB		97
17) Acetone	4.24	43	120938	1.519	PPB	#	82
18) Methyl Iodide	4.25	142	171433	1.286	PPB	#	83
19) Carbon Disulfide	4.34	76	179447	1.463	PPB	#	89
20) Acetonitrile	4.57	41	96527	1.211	PPB	#	77
21) 3-Chloropropene	4.58	76	19239m	1.090	PPB		
22) Methylene Chloride	4.74	84	46618	1.313	PPB		85
23) tert-Butyl Alcohol	5.20	59	131336	1.331	PPB	#	100
24) Acrylonitrile	5.11	53	86163	1.289	PPB	#	76
25) trans-1,2-Dichloroethene	5.13	61	110794	1.412	PPB		93
26) Methyl t-Butyl Ether	5.22	73	137576	1.208	PPB	#	42
27) Hexane	5.56	57	126248	1.408	PPB	#	89
28) 1,1-Dichloroethane	5.72	63	124848	1.300	PPB		100
29) Vinyl Acetate	5.87	43	128776	1.266	PPB	#	78
30) cis-1,2-Dichloroethene	6.58	61	98299	1.303	PPB		92
31) 2-Butanone	6.70	72	20041m	1.209	PPB		
32) Ethyl Acetate	6.83	70	7957m	1.082	PPB		
33) Methyl Acrylate	6.85	55	124180	1.341	PPB	#	72
34) Chloroform	7.09	83	137617	1.364	PPB		98
35) 1,1,1-Trichloroethane	7.34	97	166624	1.397	PPB		98
36) Carbon Tetrachloride	7.60	117	192006	1.320	PPB		98
38) 1,2-Dichloroethane	7.96	62	108679	1.350	PPB		99
39) Benzene	7.93	78	159552	1.232	PPB		95
40) Isooctane	8.12	57	396245	1.344	PPB	#	94
41) Heptane	8.47	43	162426	1.369	PPB	#	58
42) Trichloroethene	9.03	130	120710	1.290	PPB		95
43) Ethyl Acrylate	9.37	55	166658	1.301	PPB	#	82
44) 1,2-Dichloropropane	9.41	63	71428	1.265	PPB	#	89
45) Methyl Methacrylate	9.78	69	49903	1.171	PPB	#	77
46) Dibromomethane	9.61	174	93599	1.287	PPB		93
47) 1,4-Dioxane	9.89	88	24452m	1.184	PPB		
48) Bromodichloromethane	9.94	83	174436	1.427	PPB	#	92

Quantitation Report (QT Reviewed)

ORIGINAL

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0125.D
Acq On : 8 Aug 2005 11:05
Operator : JBS
Sample : VSTD001
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 08 12:02:48 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 12:01:40 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
49) cis-1,3-Dichloropropene	10.81	75	100315	1.096 PPB		91
50) 4-Methyl-2-Pentanone	11.25	43	166086	1.346 PPB	#	80
52) Toluene	11.46	91	220536	1.264 PPB		95
53) Octane	11.85	43	187481	1.344 PPB		99
54) trans-1,3-Dichloropropene	11.97	75	92463	1.179 PPB		99
55) Ethyl Methacrylate	12.32	69	84938	1.171 PPB	#	87
56) 1,1,2-Trichloroethane	12.33	97	82510	1.231 PPB		100
57) Tetrachloroethene	12.60	166	130570	1.182 PPB		97
58) 2-Hexanone	13.06	43	153240	1.384 PPB	#	80
59) Dibromochloromethane	13.15	127	161225	1.236 PPB		97
60) 1,2-Dibromoethane	13.34	107	128458	1.211 PPB		100
61) Chlorobenzene	14.52	112	177412	1.208 PPB	#	87
62) 1,1,1,2-Tetrachloroethane	14.75	131	129696	1.138 PPB	#	50
63) Ethylbenzene	14.86	91	234104	1.100 PPB		95
64) m/p-Xylene	15.15	91	396056	2.194 PPB		87
65) o-Xylene	16.10	91	174362	1.021 PPB		94
66) Styrene	16.15	104	153341	1.061 PPB	#	100
67) Bromoform	16.51	173	182001	1.224 PPB		100
68) Cumene	17.08	105	218088	0.928 PPB	#	97
69) 1,1,2,2-Tetrachloroethane	17.91	83	144055	1.267 PPB		95
70) 1,2,3-Trichloropropane	17.93	110	61662	1.267 PPB		95
71) Bromobenzene	17.71	156	118657	1.126 PPB		91
72) 4-Ethyltoluene	18.49	105	256289	0.946 PPB		98
73) 1,3,5-Trimethylbenzene	18.67	105	230756	0.971 PPB		98
74) Alpha Methyl Styrene	19.27	118	117140	1.040 PPB		97
75) 1,2,4-Trimethylbenzene	19.64	105	269056	1.047 PPB		92
76) 1,3-Dichlorobenzene	20.29	146	225828	1.176 PPB		100
77) 1,4-Dichlorobenzene	20.58	146	232812	1.216 PPB		97
78) Benzyl Chloride	16.10	91	174362	1.021 PPB	#	100
79) 1,2-Dichlorobenzene	21.75	146	211445	1.161 PPB		98
80) Hexachloroethane	22.44	117	145680	1.374 PPB	#	96
81) 1,2,4-Trichlorobenzene	24.87	180	168192	1.003 PPB		96
82) Hexachlorobutadiene	25.14	225	193964	1.145 PPB		99

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

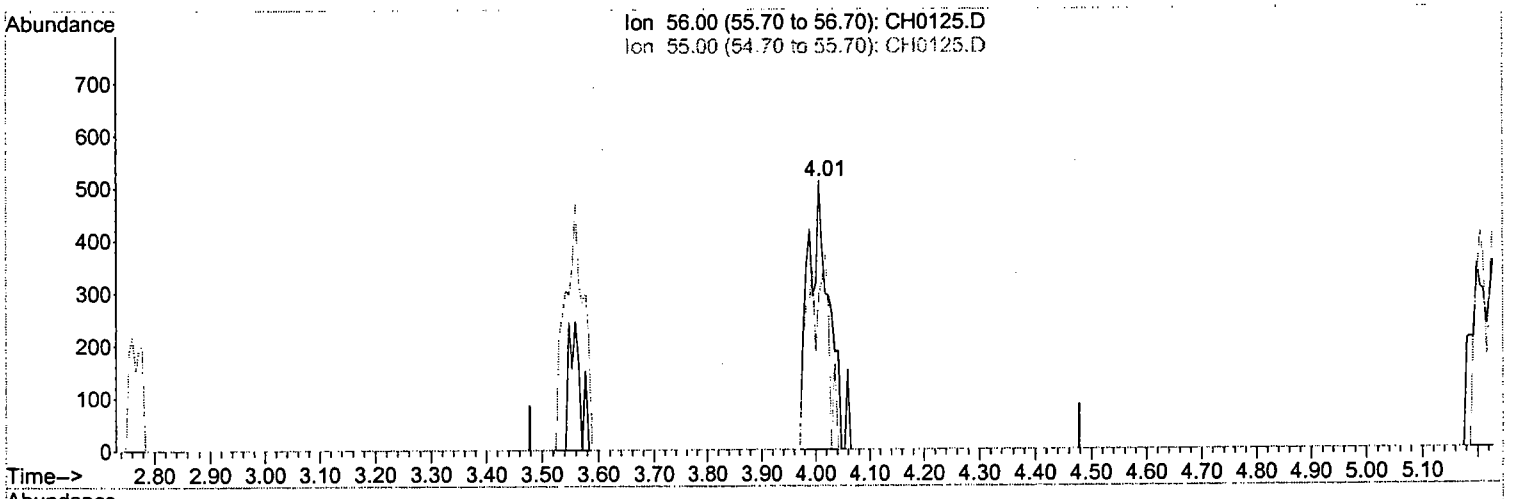
0192

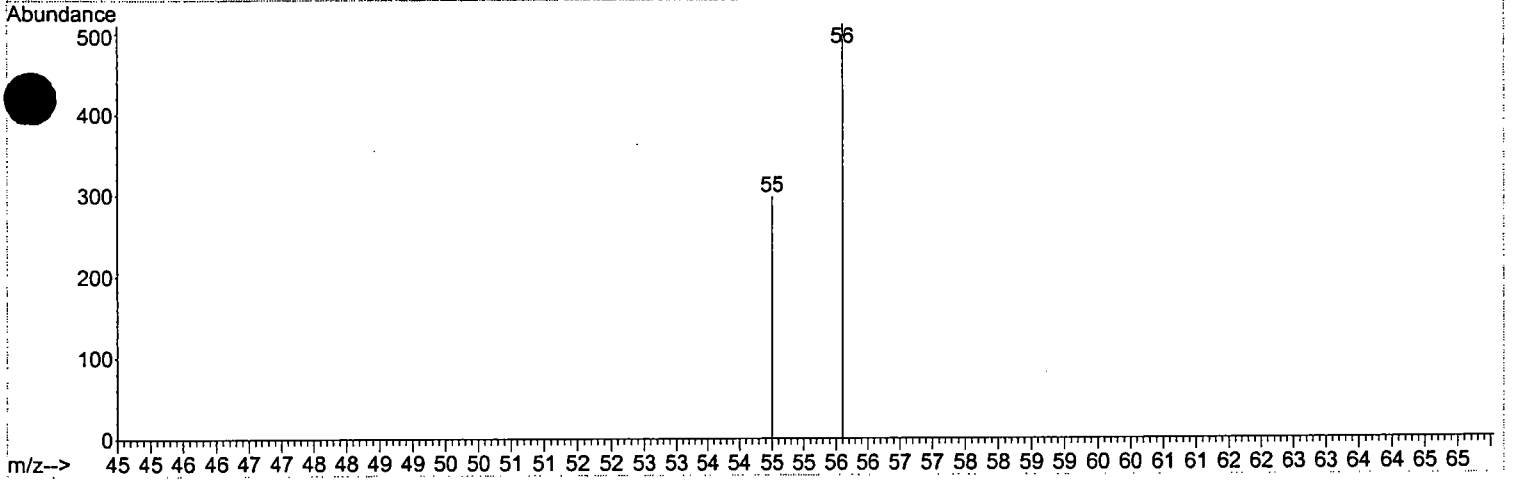
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0125.D
Acq On : 8 Aug 2005 11:05
Operator : JBS
Sample : VSTD001
Misc :
ALS Vial : 23 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 08 12:01:54 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 12:01:40 2005
Response via : Initial Calibration





TIC: CH0125.D

(14) Acrolein

4.006min (+0.028) 0.95PPB m

response 13657

Ion	Exp%	Act%
56.00	100	100
55.00	69.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Sp 3,7-224K
VA152 8/19/05

Form 3B 8/9/05

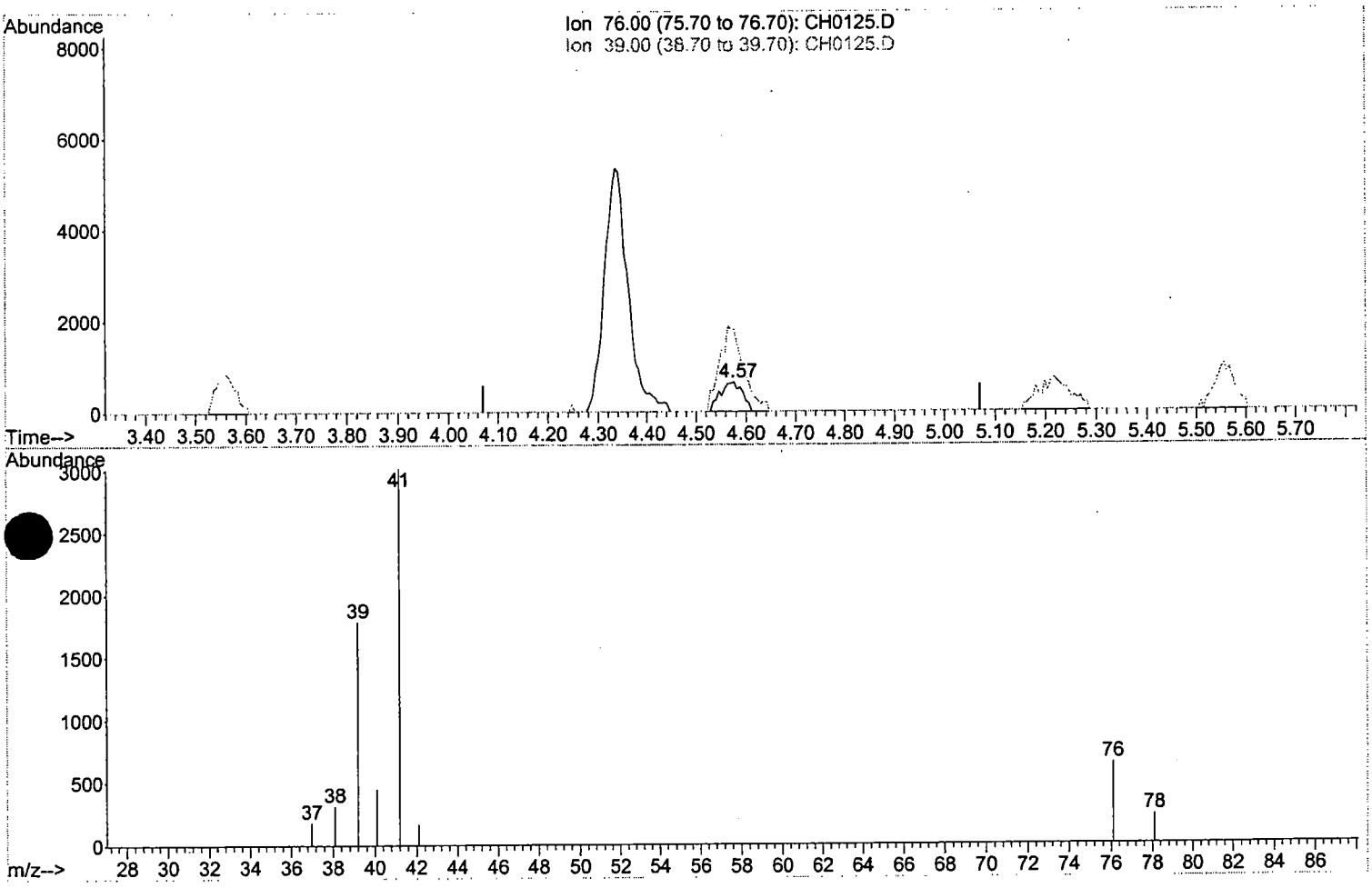
0193

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0125.D
Acq On : 8 Aug 2005 11:05
Operator : JBS
Sample : VSTD001
Misc :
ALS Vial : 23 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 08 12:01:54 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 12:01:40 2005
Response via : Initial Calibration



TIC: CH0125.D

(21) 3-Chloropropene

4.576min (+0.006) 1.09PPB m

response 19239

Ion	Exp%	Act%
76.00	100	100
39.00	244.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

missed peak

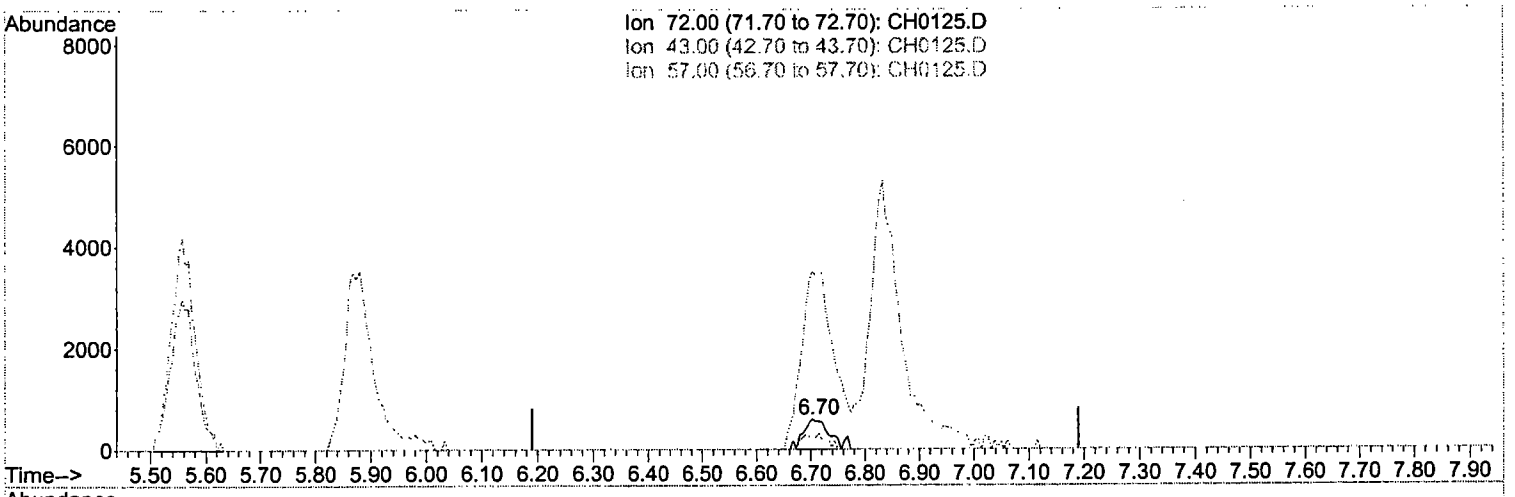
8194

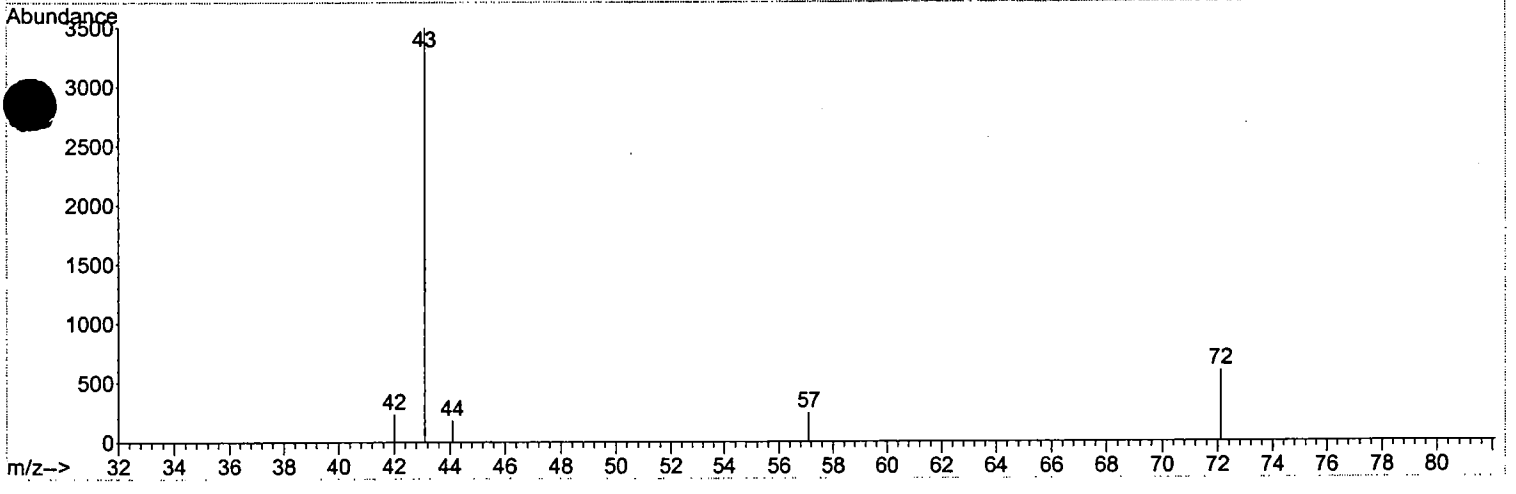
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0125.D
Acq On : 8 Aug 2005 11:05
Operator : JBS
Sample : VSTD001
Misc :
ALS Vial : 23 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 08 12:01:54 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 12:01:40 2005
Response via : Initial Calibration





TIC: CH0125.D

(31) 2-Butanone

6.703min (+0.013) 1.21PPB m

response 20041

Ion	Exp%	Act%
72.00	100	100
43.00	518.90	0.00#
57.00	36.10	0.00#
0.00	0.00	0.00

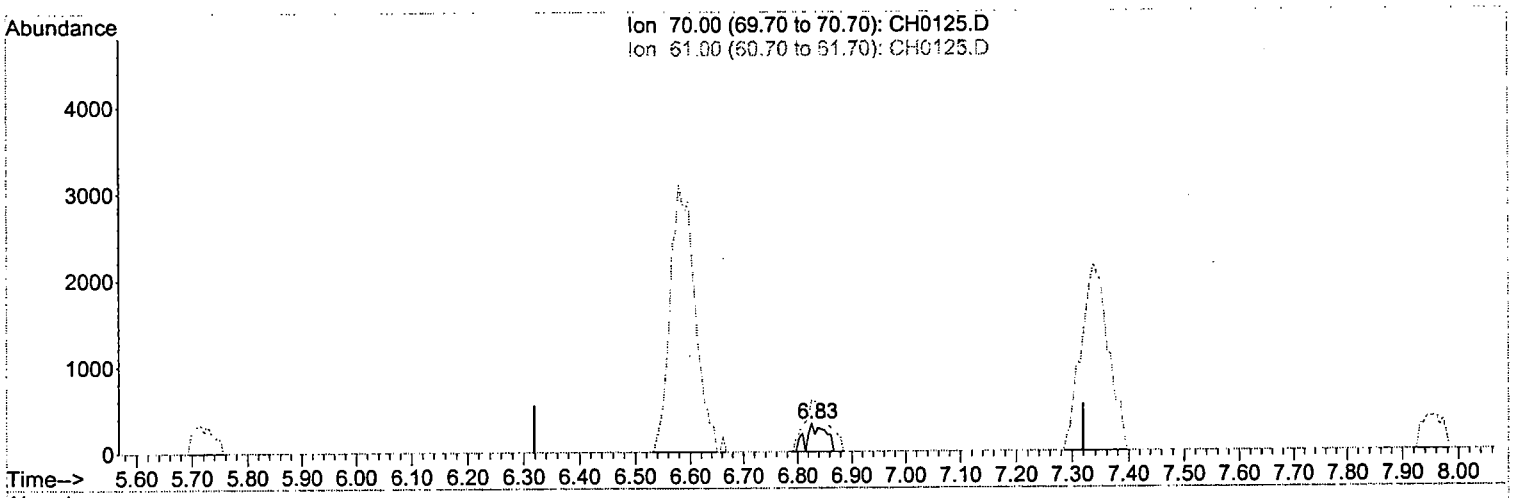
8195

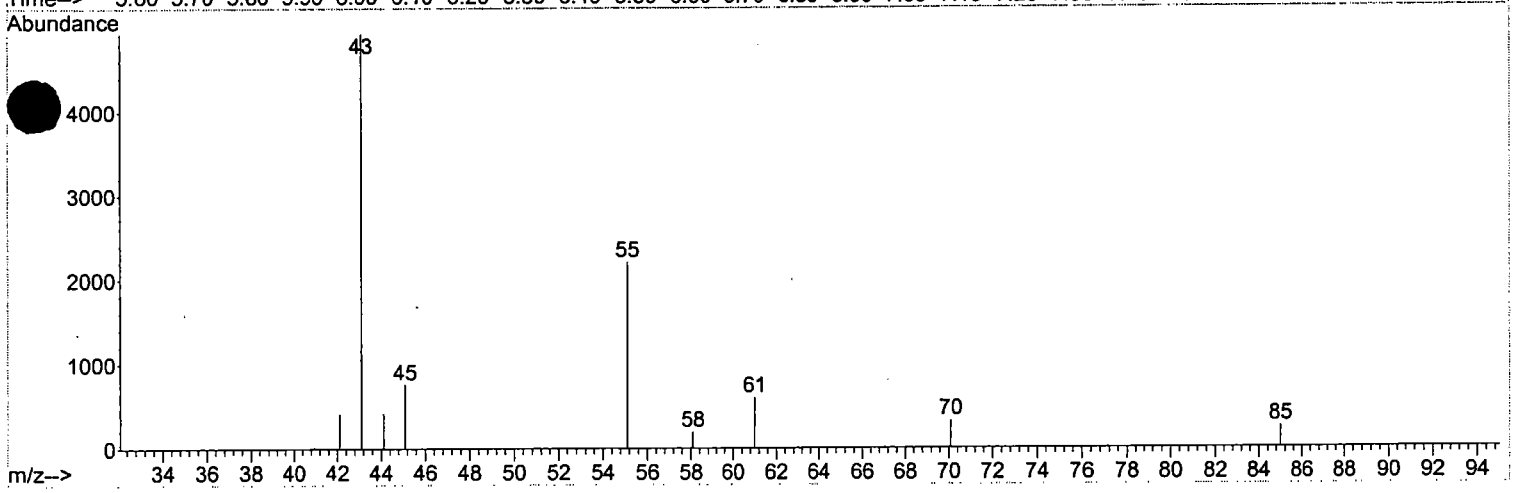
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0125.D
Acq On : 8 Aug 2005 11:05
Operator : JBS
Sample : VSTD001
Misc :
ALS Vial : 23 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 08 12:01:54 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 12:01:40 2005
Response via : Initial Calibration





TIC: CH0125.D

(32) Ethyl Acetate

6.826min (+0.007) 1.08PPB m

response 7957

Ion	Exp%	Act%
70.00	100	100
61.00	172.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Split peak
8/9/05

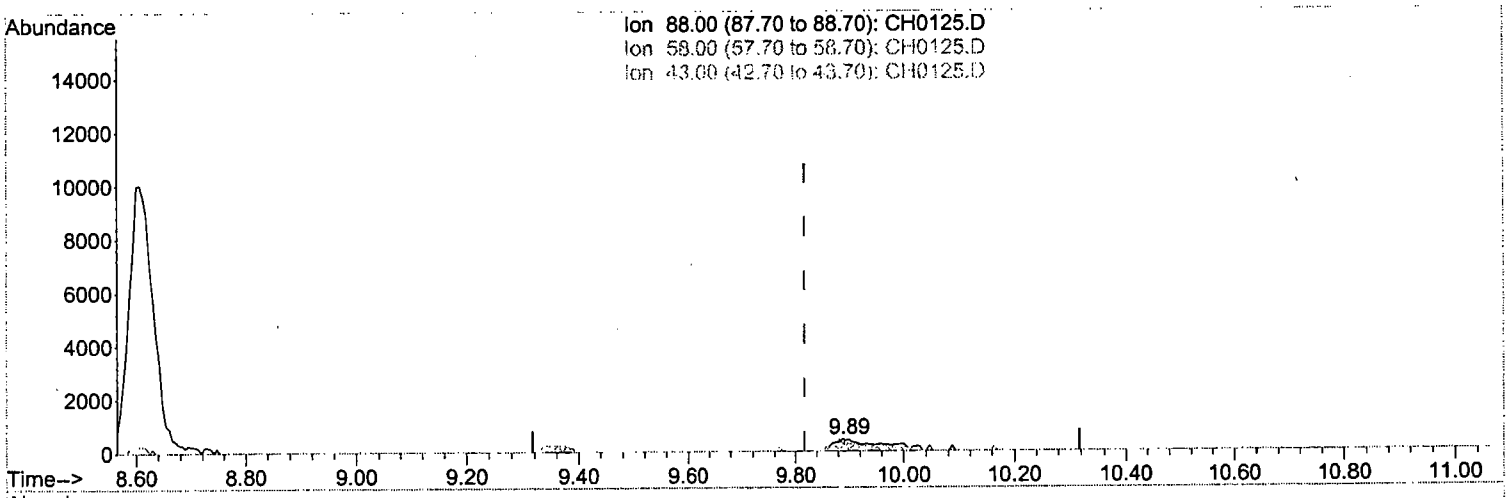
8/9/05 8196

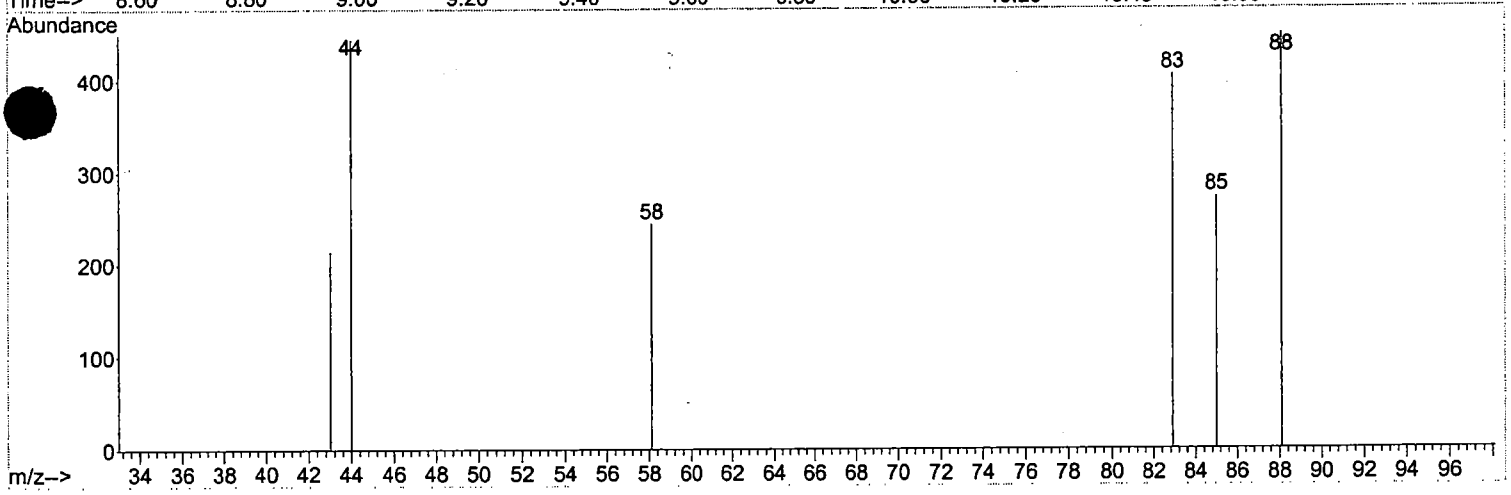
Quantitation Report (Qedit)

ORIGINAL

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0125.D
Acq On : 8 Aug 2005 11:05
Operator : JBS
Sample : VSTD001
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 08 12:01:54 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 12:01:40 2005
Response via : Initial Calibration





TIC: CH0125.D

(47) 1,4-Dioxane

9.887min (+0.071) 1.18PPB m

response 24452

Ion	Exp%	Act%
88.00	100	100
58.00	91.00	0.00#
43.00	0.80	0.00#
0.00	0.00	0.00

Sat peak
3/13/05

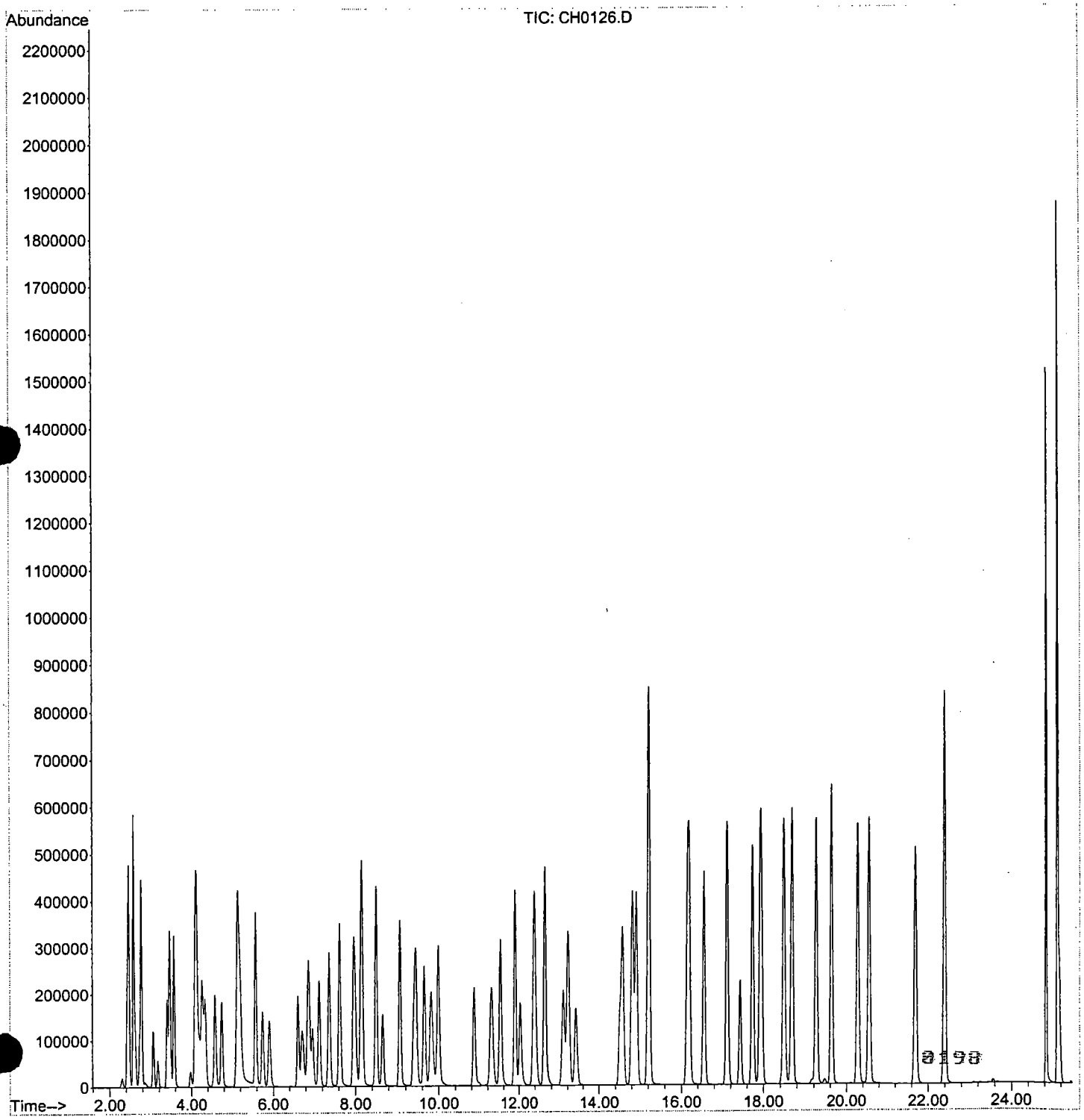
8/9/05 8197

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0126.D
Acq On : 8 Aug 2005 11:41
Operator : JBS
Sample : VSTD025
Misc :
ALS Vial : 24 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 08 12:07:11 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 12:05:41 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ORIGINAL

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0126.D
Acq On : 8 Aug 2005 11:41
Operator : JBS
Sample : VSTD025
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 08 12:07:11 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 12:05:41 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.97	130	672634	10.000			0.03
37) 1,4-Difluorobenzene	8.65	114	2270301	10.000			0.04
51) Chlorobenzene d5	14.51	117	2217582	10.000			0.04

Target Compounds							Qvalue
2) Propene	2.42	41	1534305	22.543	PPB		97
3) Dichlorodifluoromethane	2.45	85	3966429	21.206	PPB		99
4) Chlorodifluoromethane	2.46	51	2914443	21.806	PPB		97
5) Freon 114	2.57	85	3833199	21.562	PPB		100
6) Chloromethane	2.62	50	2205568	21.706	PPB		99
7) Vinyl Chloride	2.73	62	1484620	22.171	PPB		96
8) 1,3-Butadiene	2.77	54	2798589	23.309	PPB		93
9) Bromomethane	3.06	94	1208512	21.302	PPB		98
10) Chloroethane	3.17	64	678855	23.164	PPB		99
11) Dichlorofluoromethane	3.39	67	2733177	22.833	PPB		97
12) Trichlorofluoromethane	3.46	101	4520227	21.933	PPB		99
13) Pentane	3.57	43	3488391	24.427	PPB		98
14) Acrolein	3.98	56	525440	29.333	PPB		99
15) 1,1-Dichloroethene	4.09	61	2553813	22.638	PPB		94
16) Freon 113	4.12	103	1887672	22.331	PPB		99
17) Acetone	4.20	43	2853494	26.443	PPB		90
18) Methyl Iodide	4.26	142	3741907	23.281	PPB	#	81
19) Carbon Disulfide	4.34	76	3520140	23.171	PPB		96
20) Acetonitrile	4.58	41	2965743	28.341	PPB		95
21) 3-Chloropropene	4.58	76	486765	22.548	PPB	#	67
22) Methylene Chloride	4.74	84	1002224	22.595	PPB		87
23) tert-Butyl Alcohol	5.16	59	3095649	24.470	PPB	#	100
24) Acrylonitrile	5.12	53	2462200	28.653	PPB		98
25) trans-1,2-Dichloroethene	5.14	61	2450502	24.174	PPB		95
26) Methyl t-Butyl Ether	5.19	73	3769686	26.736	PPB	#	91
27) Hexane	5.57	57	2907572	24.967	PPB		96
28) 1,1-Dichloroethane	5.74	63	2745139	22.111	PPB		100
29) Vinyl Acetate	5.90	43	4644881	33.169	PPB		97
30) cis-1,2-Dichloroethene	6.61	61	2186464	22.386	PPB		94
31) 2-Butanone	6.72	72	609526	29.072	PPB	#	57
32) Ethyl Acetate	6.86	70	275880	30.517	PPB		83
33) Methyl Acrylate	6.87	55	3472473	29.267	PPB		99
34) Chloroform	7.13	83	3011605	23.366	PPB		99
35) 1,1,1-Trichloroethane	7.37	97	3543696	23.031	PPB		98
36) Carbon Tetrachloride	7.62	117	4124439	21.906	PPB		100
38) 1,2-Dichloroethane	8.00	62	2501127	24.843	PPB		99
39) Benzene	7.96	78	3684967	24.168	PPB	#	95
40) Isooctane	8.15	57	9243602	25.841	PPB		97
41) Heptane	8.50	43	3879788	26.047	PPB		95
42) Trichloroethene	9.07	130	2279173	21.600	PPB		95
43) Ethyl Acrylate	9.41	55	4631805	29.346	PPB		99
44) 1,2-Dichloropropane	9.45	63	1679130	24.612	PPB	#	90
45) Methyl Methacrylate	9.81	69	1498099	29.943	PPB		90
46) Dibromomethane	9.65	174	2073733	25.333	PPB		92 0199
47) 1,4-Dioxane	9.85	88	701775	28.776	PPB	#	91
48) Bromodichloromethane	9.99	83	3924195	26.259	PPB		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\AUG08\
Data File : CH0126.D
Acq On : 8 Aug 2005 11:41
Operator : JBS
Sample : VSTD025
Misc :
ALS Vial : 24 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 08 12:07:11 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 12:05:41 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
49) cis-1,3-Dichloropropene	10.86	75	2514921	22.761 PPB		94
50) 4-Methyl-2-Pentanone	11.29	43	4546764	29.237 PPB		97
52) Toluene	11.51	91	5290736	24.223 PPB		99
53) Octane	11.90	43	4660281	25.023 PPB		98
54) trans-1,3-Dichloropropene	12.03	75	2293007	22.050 PPB		97
55) Ethyl Methacrylate	12.38	69	2570428	27.613 PPB		97
56) 1,1,2-Trichloroethane	12.40	97	1955141	23.128 PPB		99
57) Tetrachloroethene	12.65	166	3104978	23.562 PPB		99
58) 2-Hexanone	13.09	43	4541484	29.349 PPB	#	91
59) Dibromochloromethane	13.21	127	3823432	23.441 PPB		99
60) 1,2-Dibromoethane	13.41	107	3132254	23.852 PPB		99
61) Chlorobenzene	14.58	112	4362305	24.342 PPB		97
62) 1,1,1,2-Tetrachloroethane	14.82	131	3226007	22.842 PPB		96
63) Ethylbenzene	14.91	91	7061910	26.740 PPB		97
64) m/p-Xylene	15.21	91	11620001	51.454 PPB		96
65) o-Xylene	16.15	91	5922719	27.991 PPB		97
66) Styrene	16.20	104	4849170	26.974 PPB	#	100
67) Bromoform	16.56	173	4924824	26.704 PPB		99
68) Cumene	17.11	105	9057853	31.109 PPB		98
69) 1,1,2,2-Tetrachloroethane	17.91	83	3949329	26.998 PPB		100
70) 1,2,3-Trichloropropane	17.95	110	1640552	26.353 PPB		93
71) Bromobenzene	17.73	156	3535438	27.734 PPB		98
72) 4-Ethyltoluene	18.49	105	9275521	27.285 PPB		99
73) 1,3,5-Trimethylbenzene	18.69	105	8222712	27.669 PPB		97
74) Alpha Methyl Styrene	19.26	118	4267393	30.682 PPB		98
75) 1,2,4-Trimethylbenzene	19.63	105	8427140	25.851 PPB		95
76) 1,3-Dichlorobenzene	20.28	146	6120752	25.641 PPB		98
77) 1,4-Dichlorobenzene	20.56	146	6205954	25.381 PPB		99
78) Benzyl Chloride	16.15	91	5922719	27.991 PPB	#	100
79) 1,2-Dichlorobenzene	21.70	146	5807117	25.569 PPB		99
80) Hexachloroethane	22.40	117	3798231	27.444 PPB	#	95
81) 1,2,4-Trichlorobenzene	24.84	180	5738264	27.173 PPB		99
82) Hexachlorobutadiene	25.12	225	5350138	24.421 PPB		99

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

0200

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

ORIGINAL

CONTINUING CALIBRATION DATA SHEET

Instrument ID: HP09464 Data File: C:\MSDCHEM\1\DATA\AUG10\CH0148.D
EPA SAMPLE NO.: VSTD010 DATE INJECTED: 08/10/05 TIME INJECTED: 16:41

COMPOUND NAME	ICAL MEAN RRF	CCAL RRF	%D
Propene	1.012	0.817	-20
Dichlorodifluoromethane	2.781	2.239	-20
Chlorodifluoromethane	1.987	1.602	-20
Freon 114	2.643	2.106	-20
Chloromethane	1.511	1.193	-20
Vinyl Chloride	0.996	0.877	-10
1,3-Butadiene	1.785	1.542	-10
Bromomethane	0.843	0.743	-10
Chloroethane	0.436	0.384	-10
Dichlorofluoromethane	1.780	1.505	-20
Trichlorofluoromethane	3.064	2.575	-20
Pentane	2.123	1.718	-20
Acrolein	0.266	0.238	-10
1,1-Dichloroethene	1.677	1.435	-10
Freon 113	1.257	1.114	-10
Acetone	1.604	1.411	-10
Methyl Iodide	2.390	2.167	-9
Carbon Disulfide	2.259	2.001	-10
Acetonitrile	1.556	1.433	-8
3-Chloropropene	0.321	0.303	-6
Methylene Chloride	0.659	0.575	-10
tert-Butyl Alcohol	1.881	1.338	-30
Acrylonitrile	1.278	1.183	-7
trans-1,2-Dichloroethene	1.507	1.308	-10
Methyl t-Butyl Ether	2.096	1.975	-6
Hexane	1.731	1.478	-10
1,1-Dichloroethane	1.846	1.582	-10
Vinyl Acetate	2.082	1.901	-9
cis-1,2-Dichloroethene	1.452	1.250	-10
2-Butanone	0.312	0.319	2
Ethyl Acetate	0.134	0.144	7
Methyl Acrylate	1.764	1.689	-4
Chloroform	1.916	1.677	-10
1,1,1-Trichloroethane	2.287	1.928	-20
Carbon Tetrachloride	2.799	2.385	-10
1,2-Dichloroethane	0.443	0.381	-10
Benzene	0.672	0.615	-8
Isooctane	1.576	1.374	-10
Heptane	0.656	0.544	-20
Trichloroethene	0.465	0.410	-10
Ethyl Acrylate	0.695	0.652	-6
1,2-Dichloropropane	0.301	0.267	-10
Methyl Methacrylate	0.220	0.221	0
Dibromomethane	0.361	0.336	-7
1,4-Dioxane	0.107	0.086	-20
Bromodichloromethane	0.658	0.575	-10
cis-1,3-Dichloropropene	0.487	0.449	-8

0281

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

ORIGINAL

CONTINUING CALIBRATION DATA SHEET

Instrument ID: HP09464 Data File: C:\MSDCHEM\1\DATA\AUG10\CH0148.D
EPA SAMPLE NO.: VSTD010 DATE INJECTED: 08/10/05 TIME INJECTED: 16:41

COMPOUND NAME	ICAL MEAN RRF	CCAL RRF	%D
4-Methyl-2-Pentanone	0.685	0.594	-10
Toluene	0.985	0.951	-3
Octane	0.840	0.703	-20
trans-1,3-Dichloropropene	0.469	0.438	-7
Ethyl Methacrylate	0.420	0.429	2
1,1,2-Trichloroethane	0.381	0.363	-5
Tetrachloroethene	0.594	0.593	0
2-Hexanone	0.698	0.654	-6
Dibromochloromethane	0.736	0.678	-8
1,2-Dibromoethane	0.592	0.562	-5
Chlorobenzene	0.808	0.786	-3
1,1,1,2-Tetrachloroethane	0.637	0.603	-5
Ethylbenzene	1.191	1.209	1
m/p-Xylene	1.018	1.002	-2
o-Xylene	0.954	0.972	2
Styrene	0.811	0.802	-1
Bromoform	0.832	0.770	-7
Cumene	1.313	1.377	5
1,1,2,2-Tetrachloroethane	0.660	0.610	-8
1,2,3-Trichloropropane	0.281	0.264	-6
Bromobenzene	0.575	0.559	-3
4-Ethyltoluene	1.533	1.566	2
1,3,5-Trimethylbenzene	1.340	1.323	-1
Alpha Methyl Styrene	0.627	0.636	1
1,2,4-Trimethylbenzene	1.470	1.407	-4
1,3-Dichlorobenzene	1.076	0.983	-9
1,4-Dichlorobenzene	1.103	0.980	-10
1,2-Dichlorobenzene	1.024	0.886	-10
Hexachloroethane	0.624	0.536	-10
1,2,4-Trichlorobenzene	0.904	0.730	-20
Hexachlorobutadiene	0.984	0.690	-30

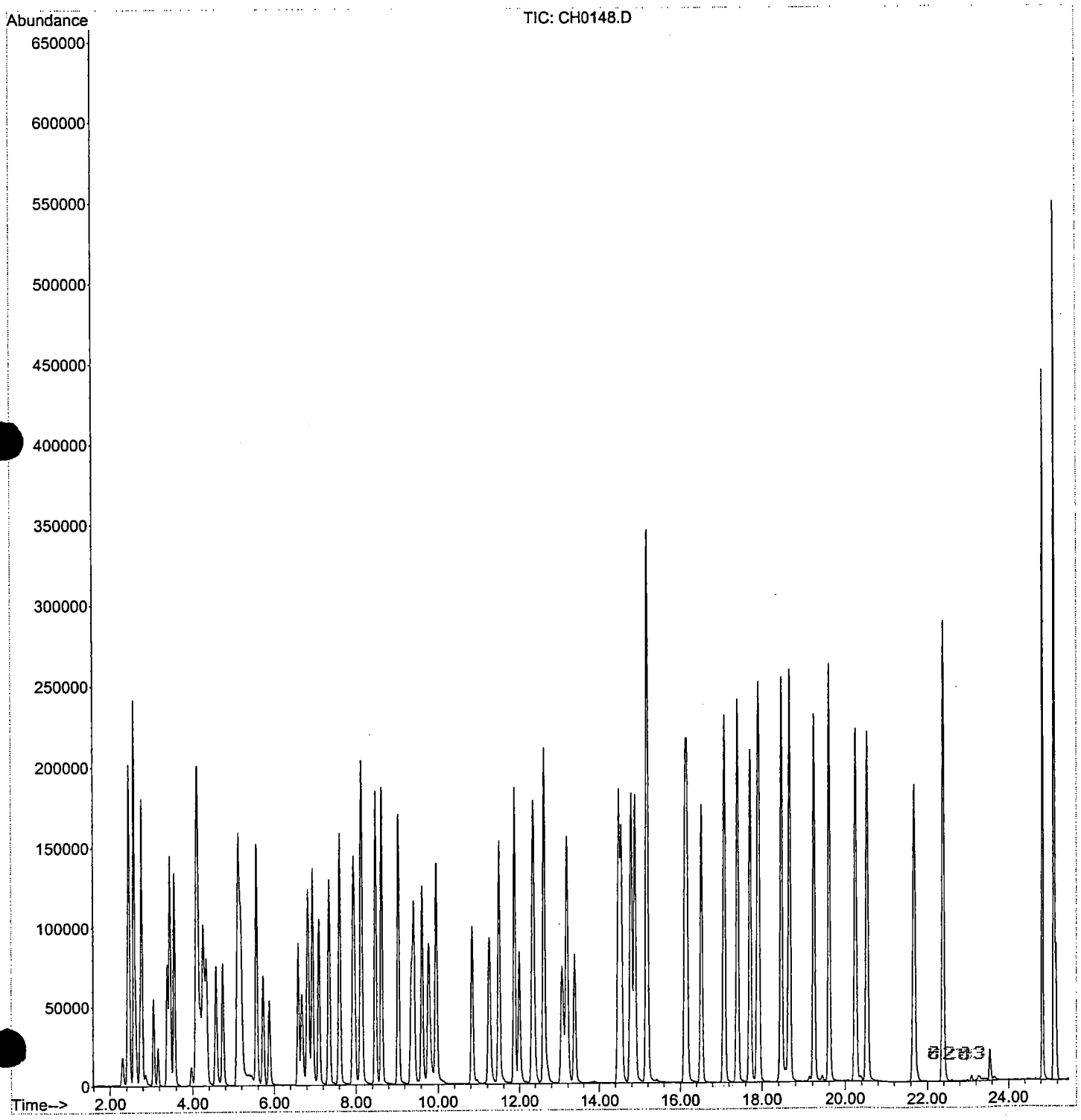
0202

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\AUG10\
Data File : CH0148.D
Acq On : 10 Aug 2005 16:41
Operator : RDG
Sample : VSTD010
Misc :
ALS Vial : 20 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 10 17:07:34 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 12:52:51 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG10\
Data File : CH0148.D
Acq On : 10 Aug 2005 16:41
Operator : RDG
Sample : VSTD010
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 10 17:07:34 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 12:52:51 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.95	130	756144	10.000			0.00
37) 1,4-Difluorobenzene	8.63	114	2535507	10.000			0.00
51) Chlorobenzene d5	14.48	117	2302917	10.000			0.00

Target Compounds							Qvalue
2) Propene	2.42	41	620604	8.111	PPB		97
3) Dichlorodifluoromethane	2.45	85	1701107	8.090	PPB		99
4) Chlorodifluoromethane	2.46	51	1210972	8.060	PPB		96
5) Freon 114	2.58	85	1592291	7.968	PPB		97
6) Chloromethane	2.62	50	901717	7.894	PPB		99
7) Vinyl Chloride	2.73	62	663023	8.808	PPB		95
8) 1,3-Butadiene	2.77	54	1172162	8.684	PPB		97
9) Bromomethane	3.05	94	561846	8.810	PPB		100
10) Chloroethane	3.17	64	289985	8.802	PPB		96
11) Dichlorofluoromethane	3.39	67	1143630	8.499	PPB		98
12) Trichlorofluoromethane	3.46	101	1947020	8.404	PPB		99
13) Pentane	3.56	43	1364136	8.497	PPB		96
14) Acrolein	3.97	56	192284	9.549	PPB		98
15) 1,1-Dichloroethene	4.08	61	1085301	8.558	PPB		96
16) Freon 113	4.12	103	842010	8.861	PPB		98
17) Acetone	4.19	43	1136261	9.367	PPB		92
18) Methyl Iodide	4.25	142	1720216	9.521	PPB	#	87
19) Carbon Disulfide	4.34	76	1641464	9.611	PPB		99
20) Acetonitrile	4.57	41	1154334	9.813	PPB		97
21) 3-Chloropropene	4.57	76	229203	9.445	PPB		97
22) Methylene Chloride	4.73	84	434576	8.715	PPB		95
23) tert-Butyl Alcohol	5.11	59	1067089	7.503	PPB	#	100
24) Acrylonitrile	5.10	53	952583	9.861	PPB		98
25) trans-1,2-Dichloroethene	5.12	61	1038600	9.114	PPB		99
26) Methyl t-Butyl Ether	5.18	73	1567690	9.891	PPB		97
27) Hexane	5.56	57	1185022	9.052	PPB		96
28) 1,1-Dichloroethane	5.72	63	1136736	8.145	PPB		99
29) Vinyl Acetate	5.87	43	1502112	9.542	PPB		98
30) cis-1,2-Dichloroethene	6.59	61	898006	8.179	PPB		98
31) 2-Butanone	6.69	72	253560	10.758	PPB	#	75
32) Ethyl Acetate	6.83	70	115346	11.350	PPB		95
33) Methyl Acrylate	6.84	55	1340968	10.054	PPB	#	82
34) Chloroform	7.11	83	1267846	8.750	PPB		98
35) 1,1,1-Trichloroethane	7.35	97	1457499	8.426	PPB		96
36) Carbon Tetrachloride	7.61	117	1713144	8.094	PPB		99
38) 1,2-Dichloroethane	7.97	62	966161	8.593	PPB		98
39) Benzene	7.94	78	1558702	9.154	PPB		97
40) Isooctane	8.13	57	3657598	9.155	PPB		97
41) Heptane	8.48	43	1460934	8.782	PPB		99
42) Trichloroethene	9.04	130	1039454	8.821	PPB		97
43) Ethyl Acrylate	9.36	55	1752588	9.943	PPB		100
44) 1,2-Dichloropropane	9.42	63	675760	8.869	PPB		90
45) Methyl Methacrylate	9.78	69	596696	10.679	PPB		98
46) Dibromomethane	9.62	174	906878	9.920	PPB		95 0204
47) 1,4-Dioxane	9.82	88	232775	8.547	PPB	#	88
48) Bromodichloromethane	9.96	83	1546731	9.268	PPB		99

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\AUG10\
Data File : CH0148.D
Acq On : 10 Aug 2005 16:41
Operator : RDG
Sample : VSTD010
Misc :
ALS Vial : 20 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 10 17:07:34 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Mon Aug 08 12:52:51 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
49) cis-1,3-Dichloropropene	10.83	75	1025021	8.306 PPB		98
50) 4-Methyl-2-Pentanone	11.24	43	1582209	9.110 PPB		98
52) Toluene	11.48	91	2190910	9.659 PPB		97
53) Octane	11.87	43	1682714	8.700 PPB		96
54) trans-1,3-Dichloropropene	11.99	75	908092	8.409 PPB		94
55) Ethyl Methacrylate	12.33	69	982739	10.166 PPB		91
56) 1,1,2-Trichloroethane	12.36	97	794455	9.050 PPB		99
57) Tetrachloroethene	12.61	166	1365756	9.980 PPB		98
58) 2-Hexanone	13.06	43	1581441	9.841 PPB		94
59) Dibromochloromethane	13.17	127	1554595	9.178 PPB		98
60) 1,2-Dibromoethane	13.37	107	1293389	9.484 PPB		100
61) Chlorobenzene	14.54	112	1809428	9.722 PPB		98
62) 1,1,1,2-Tetrachloroethane	14.78	131	1319444	8.996 PPB		97
63) Ethylbenzene	14.88	91	2783511	10.149 PPB		98
64) m/p-Xylene	15.18	91	4497837	19.179 PPB		97
65) o-Xylene	16.12	91	2238139	10.185 PPB		96
66) Styrene	16.16	104	1847531	9.896 PPB	#	100
67) Bromoform	16.53	173	1870009	9.764 PPB		100
68) Cumene	17.09	105	3328598	11.008 PPB		99
69) 1,1,2,2-Tetrachloroethane	17.89	83	1474737	9.708 PPB		99
70) 1,2,3-Trichloropropane	17.92	110	638709	9.880 PPB		89
71) Bromobenzene	17.71	156	1365769	10.317 PPB		97
72) 4-Ethyltoluene	18.47	105	3426157	9.705 PPB		99
73) 1,3,5-Trimethylbenzene	18.66	105	3046054	9.870 PPB		98
74) Alpha Methyl Styrene	19.24	118	1538163	10.650 PPB		98
75) 1,2,4-Trimethylbenzene	19.61	105	3078461	9.094 PPB		96
76) 1,3-Dichlorobenzene	20.25	146	2264815	9.136 PPB		98
77) 1,4-Dichlorobenzene	20.53	146	2257024	8.889 PPB		99
78) Benzyl Chloride	16.12	91	2238139	10.185 PPB	#	100
79) 1,2-Dichlorobenzene	21.68	146	2041490	8.656 PPB		97
80) Hexachloroethane	22.39	117	1308887	9.107 PPB	#	95
81) 1,2,4-Trichlorobenzene	24.84	180	1681762	8.076 PPB		99
82) Hexachlorobutadiene	25.12	225	1510639	6.670 PPB		99

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

0205

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

CONTINUING CALIBRATION DATA SHEET

ORIGINAL

Instrument ID: HP09464 Data File: C:\MSDCHEM\1\DATA\AUG12\CH0181.D
EPA SAMPLE NO.: VSTD010 DATE INJECTED: 08/12/05 TIME INJECTED: 11:29

COMPOUND NAME	ICAL MEAN RRF	CCAL RRF	%D
Propene	1.012	0.875	-10
Dichlorodifluoromethane	2.781	2.305	-20
Chlorodifluoromethane	1.987	1.722	-10
Freon 114	2.643	2.261	-10
Chloromethane	1.511	1.291	-10
Vinyl Chloride	0.996	0.877	-10
1,3-Butadiene	1.785	1.606	-10
Bromomethane	0.843	0.720	-10
Chloroethane	0.436	0.373	-10
Dichlorofluoromethane	1.780	1.530	-10
Trichlorofluoromethane	3.064	2.673	-10
Pentane	2.123	1.861	-10
Acrolein	0.266	0.247	-7
1,1-Dichloroethene	1.677	1.464	-10
Freon 113	1.257	1.066	-20
Acetone	1.604	1.512	-6
Methyl Iodide	2.390	2.043	-10
Carbon Disulfide	2.259	1.915	-20
Acetonitrile	1.556	1.453	-7
3-Chloropropene	0.321	0.253	-20
Methylene Chloride	0.659	0.553	-20
tert-Butyl Alcohol	1.881	1.768	-6
Acrylonitrile	1.278	1.206	-6
trans-1,2-Dichloroethene	1.507	1.298	-10
Methyl t-Butyl Ether	2.096	1.941	-7
Hexane	1.731	1.497	-10
1,1-Dichloroethane	1.846	1.593	-10
Vinyl Acetate	2.082	2.098	1
cis-1,2-Dichloroethene	1.452	1.247	-10
2-Butanone	0.312	0.281	-10
Ethyl Acetate	0.134	0.133	-1
Methyl Acrylate	1.764	1.713	-3
Chloroform	1.916	1.655	-10
1,1,1-Trichloroethane	2.287	1.937	-20
Carbon Tetrachloride	2.799	2.412	-10
1,2-Dichloroethane	0.443	0.394	-10
Benzene	0.672	0.587	-10
Isooctane	1.576	1.376	-10
Heptane	0.656	0.585	-10
Trichloroethene	0.465	0.370	-20
Ethyl Acrylate	0.695	0.646	-7
1,2-Dichloropropane	0.301	0.271	-10
Methyl Methacrylate	0.220	0.212	-4
Dibromomethane	0.361	0.309	-10
1,4-Dioxane	0.107	0.102	-5
Bromodichloromethane	0.658	0.580	-10
cis-1,3-Dichloropropene	0.487	0.438	-10

0206

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

CONTINUING CALIBRATION DATA SHEET

ORIGINAL

Instrument ID: HP09464 Data File: C:\MSDCHEM\1\DATA\AUG12\CH0181.D
EPA SAMPLE NO.: VSTD010 DATE INJECTED: 08/12/05 TIME INJECTED: 11:29

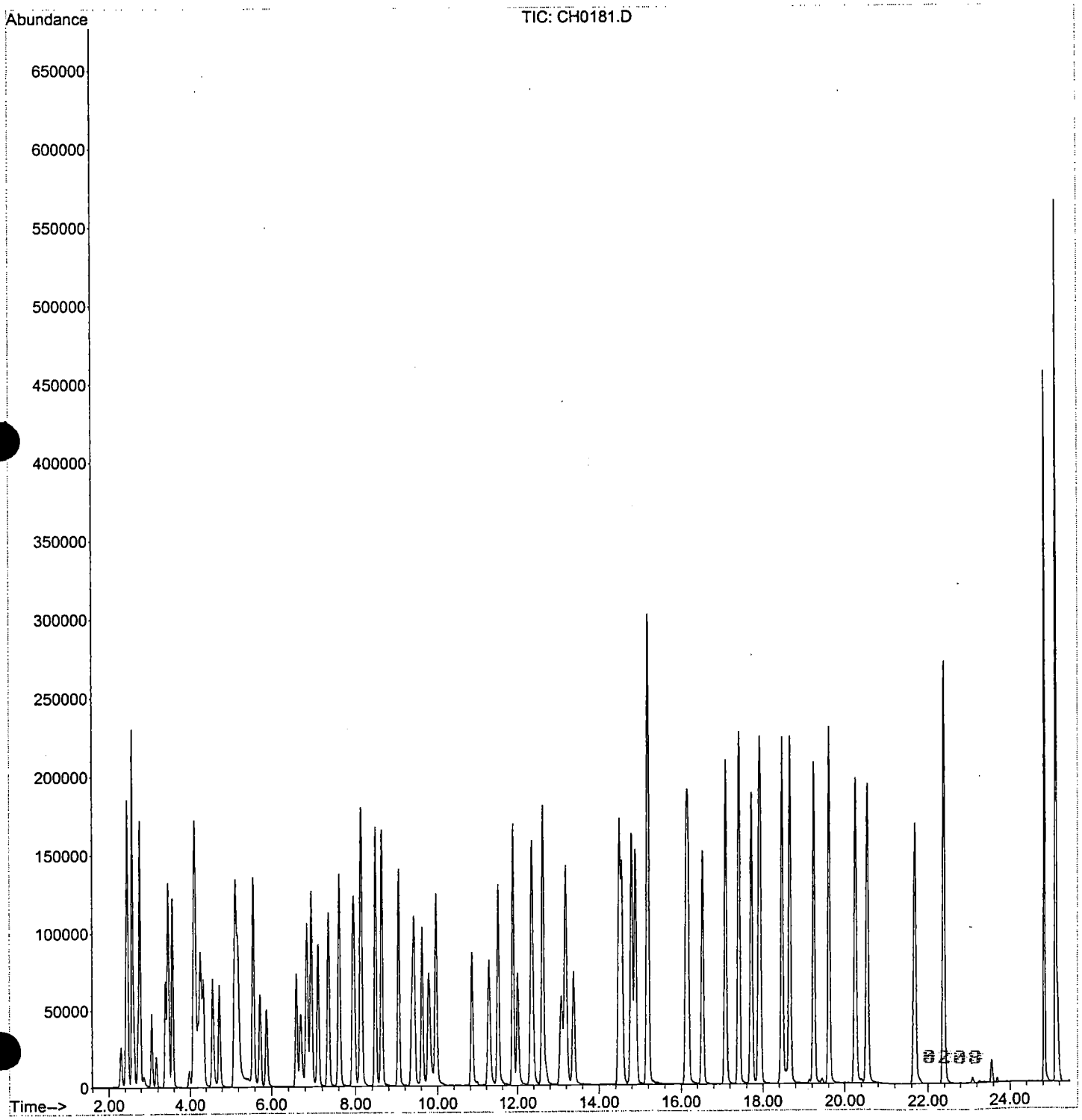
COMPOUND NAME	ICAL MEAN RRF	CCAL RRF	%D
4-Methyl-2-Pentanone	0.685	0.644	-6
Toluene	0.985	0.878	-10
Octane	0.840	0.744	-10
trans-1,3-Dichloropropene	0.469	0.426	-9
Ethyl Methacrylate	0.420	0.391	-7
1,1,2-Trichloroethane	0.381	0.341	-10
Tetrachloroethene	0.594	0.507	-10
2-Hexanone	0.698	0.551	-20
Dibromochloromethane	0.736	0.684	-7
1,2-Dibromoethane	0.592	0.557	-6
Chlorobenzene	0.808	0.708	-10
1,1,1,2-Tetrachloroethane	0.637	0.562	-10
Ethylbenzene	1.191	1.112	-7
m/p-Xylene	1.018	0.933	-8
o-Xylene	0.954	0.917	-4
Styrene	0.811	0.743	-8
Bromoform	0.832	0.725	-10
Cumene	1.313	1.309	0
1,1,2,2-Tetrachloroethane	0.660	0.600	-9
1,2,3-Trichloropropane	0.281	0.257	-9
Bromobenzene	0.575	0.519	-10
4-Ethyltoluene	1.533	1.496	-2
1,3,5-Trimethylbenzene	1.340	1.284	-4
Alpha Methyl Styrene	0.627	0.607	-3
1,2,4-Trimethylbenzene	1.470	1.374	-7
1,3-Dichlorobenzene	1.076	0.939	-10
1,4-Dichlorobenzene	1.103	0.949	-10
1,2-Dichlorobenzene	1.024	0.860	-20
Hexachloroethane	0.624	0.555	-10
1,2,4-Trichlorobenzene	0.904	0.773	-10
Hexachlorobutadiene	0.984	0.748	-20

Quantitation Report (QT Reviewed)

ORIGINAL

Data Path : C:\MSDChem\1\DATA\AUG12\
Data File : CH0181.D
Acq On : 12 Aug 2005 11:29
Operator : JBS
Sample : VSTD010
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 12 11:58:55 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ORIGINAL

Data Path : C:\MSDChem\1\DATA\AUG12\
Data File : CH0181.D
Acq On : 12 Aug 2005 11:29
Operator : JBS
Sample : VSTD010
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 12 11:58:55 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.95	130	662790	10.000			0.00
37) 1,4-Difluorobenzene	8.63	114	2246210	10.000			0.00
51) Chlorobenzene d5	14.48	117	2136962	10.000			0.00

Target Compounds							Qvalue
2) Propene	2.42	41	583105	8.695	PPB		97
3) Dichlorodifluoromethane	2.45	85	1535370	8.331	PPB		99
4) Chlorodifluoromethane	2.46	51	1141108	8.665	PPB		98
5) Freon 114	2.58	85	1498890	8.557	PPB		99
6) Chloromethane	2.61	50	855457	8.544	PPB		99
7) Vinyl Chloride	2.73	62	581536	8.814	PPB		94
8) 1,3-Butadiene	2.77	54	1069981	9.044	PPB		94
9) Bromomethane	3.05	94	477154	8.535	PPB		99
10) Chloroethane	3.17	64	247033	8.554	PPB		97
11) Dichlorofluoromethane	3.39	67	1019249	8.641	PPB		97
12) Trichlorofluoromethane	3.46	101	1771555	8.723	PPB		98
13) Pentane	3.56	43	1294843	9.202	PPB		97
14) Acrolein	3.98	56	175489	9.942	PPB		99
15) 1,1-Dichloroethene	4.08	61	970072	8.727	PPB		94
16) Freon 113	4.12	103	706780	8.485	PPB		99
17) Acetone	4.19	43	1067500	10.039	PPB		90
18) Methyl Iodide	4.25	142	1421771	8.977	PPB	#	82
19) Carbon Disulfide	4.34	76	1377284	9.200	PPB		96
20) Acetonitrile	4.57	41	1025403	9.944	PPB		95
21) 3-Chloropropene	4.57	76	167669	7.882	PPB	#	63
22) Methylene Chloride	4.73	84	366456	8.384	PPB		85
23) tert-Butyl Alcohol	5.14	59	1236106m	9.916	PPB		
24) Acrylonitrile	5.10	53	851211	10.053	PPB		97
25) trans-1,2-Dichloroethene	5.13	61	903590	9.046	PPB		95
26) Methyl t-Butyl Ether	5.18	73	1350987	9.724	PPB		95
27) Hexane	5.56	57	1051901	9.167	PPB		95
28) 1,1-Dichloroethane	5.72	63	1003315	8.201	PPB		99
29) Vinyl Acetate	5.88	43	1453170	10.531	PPB		96
30) cis-1,2-Dichloroethene	6.60	61	785176	8.158	PPB		94
31) 2-Butanone	6.70	72	195804	9.478	PPB	#	50
32) Ethyl Acetate	6.84	70	93550	10.502	PPB	#	1
33) Methyl Acrylate	6.85	55	1191823	10.194	PPB	#	82
34) Chloroform	7.11	83	1096645	8.635	PPB		99
35) 1,1,1-Trichloroethane	7.35	97	1283890	8.468	PPB		99
36) Carbon Tetrachloride	7.61	117	1518683	8.186	PPB		100
38) 1,2-Dichloroethane	7.98	62	885188	8.887	PPB		99
39) Benzene	7.94	78	1317539	8.734	PPB	#	95
40) Isooctane	8.14	57	3246095	9.172	PPB		96
41) Heptane	8.48	43	1393485	9.455	PPB		95
42) Trichloroethene	9.05	130	829983	7.950	PPB		95
43) Ethyl Acrylate	9.38	55	1537882	9.848	PPB		99
44) 1,2-Dichloropropane	9.42	63	609397	9.028	PPB	#	89
45) Methyl Methacrylate	9.79	69	508241	10.267	PPB		90
46) Dibromomethane	9.63	174	740286	9.141	PPB		91 0289
47) 1,4-Dioxane	9.84	88	244366	10.128	PPB	#	91
48) Bromodichloromethane	9.96	83	1380359	9.336	PPB		99

Quantitation Report (QT Reviewed)

ORIGINAL

Data Path : C:\MSDChem\1\DATA\AUG12\
Data File : CH0181.D
Acq On : 12 Aug 2005 11:29
Operator : JBS
Sample : VSTD010
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 12 11:58:55 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
49) cis-1,3-Dichloropropene	10.84	75	885978	8.104 PPB		92
50) 4-Methyl-2-Pentanone	11.26	43	1517768	9.864 PPB		96
52) Toluene	11.49	91	1875771	8.912 PPB		100
53) Octane	11.88	43	1654549	9.219 PPB		98
54) trans-1,3-Dichloropropene	12.00	75	818366	8.167 PPB		100
55) Ethyl Methacrylate	12.34	69	830861	9.262 PPB		95
56) 1,1,2-Trichloroethane	12.37	97	691476	8.488 PPB		100
57) Tetrachloroethene	12.62	166	1082850	8.527 PPB		98
58) 2-Hexanone	13.08	43	1236878	8.295 PPB		98
59) Dibromochloromethane	13.18	127	1454725	9.255 PPB		98
60) 1,2-Dibromoethane	13.38	107	1189358	9.398 PPB		99
61) Chlorobenzene	14.55	112	1512639	8.759 PPB		95
62) 1,1,1,2-Tetrachloroethane	14.79	131	1141857	8.390 PPB		96
63) Ethylbenzene	14.88	91	2375556	9.334 PPB		97
64) m/p-Xylene	15.18	91	3887773	17.865 PPB		96
65) o-Xylene	16.13	91	1960037	9.613 PPB		97
66) Styrene	16.17	104	1587011	9.161 PPB	#	100
67) Bromoform	16.53	173	1635142	9.201 PPB		99
68) Cumene	17.10	105	2936167	10.465 PPB		98
69) 1,1,2,2-Tetrachloroethane	17.90	83	1347403	9.558 PPB		99
70) 1,2,3-Trichloropropane	17.93	110	575589	9.595 PPB		90
71) Bromobenzene	17.72	156	1175742	9.571 PPB		97
72) 4-Ethyltoluene	18.47	105	3036482	9.269 PPB		99
73) 1,3,5-Trimethylbenzene	18.66	105	2744375	9.583 PPB		97
74) Alpha Methyl Styrene	19.24	118	1362225	10.164 PPB		97
75) 1,2,4-Trimethylbenzene	19.61	105	2789487	8.880 PPB		95
76) 1,3-Dichlorobenzene	20.26	146	2007543	8.727 PPB		98
77) 1,4-Dichlorobenzene	20.54	146	2027676	8.606 PPB		98
78) Benzyl Chloride	16.13	91	1960037	9.613 PPB	#	100
79) 1,2-Dichlorobenzene	21.68	146	1837790	8.397 PPB		96
80) Hexachloroethane	22.39	117	1257089	9.426 PPB	#	96
81) 1,2,4-Trichlorobenzene	24.84	180	1651686	8.548 PPB		99
82) Hexachlorobutadiene	25.12	225	1518463	7.225 PPB		99

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

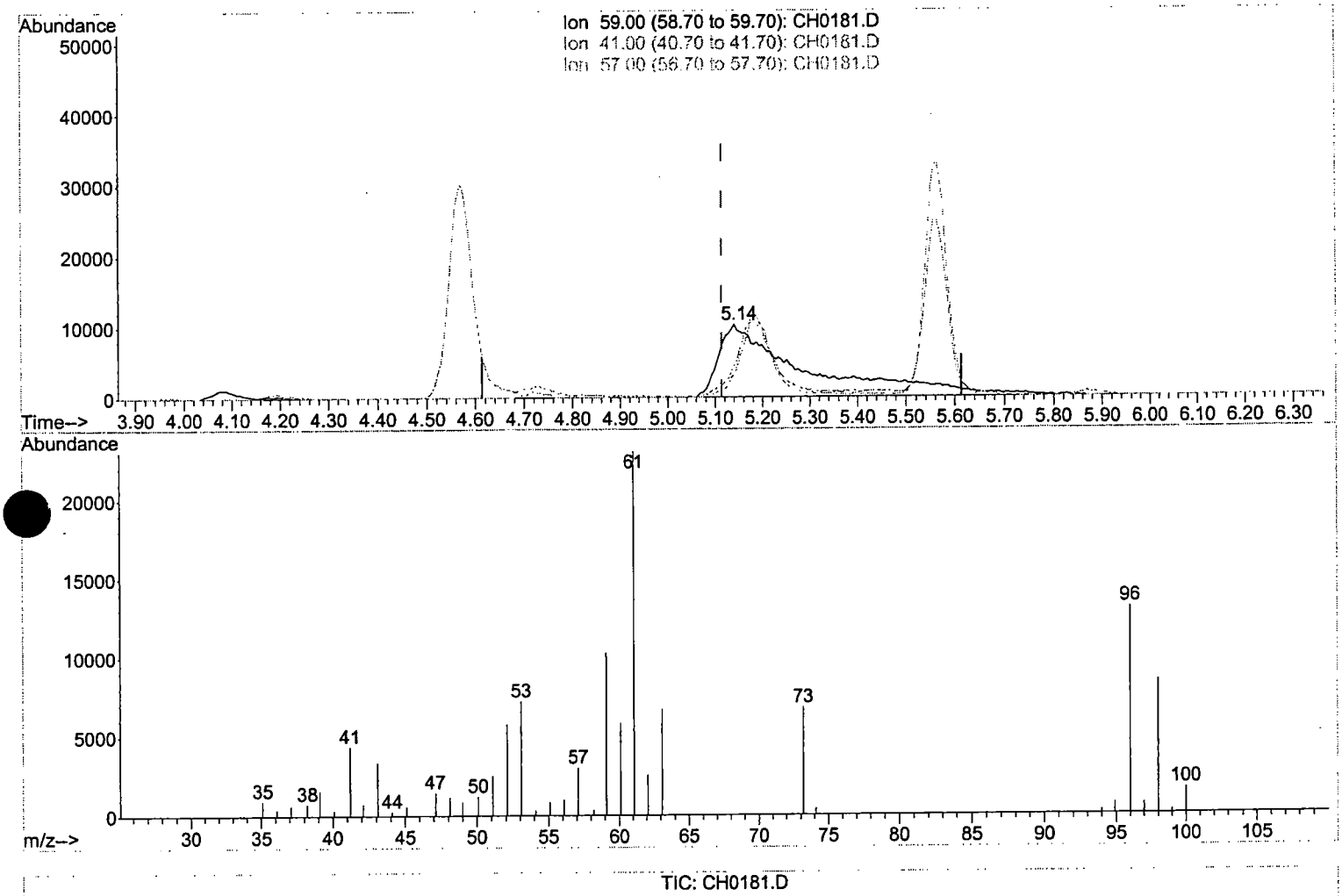
0210

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\AUG12\
Data File : CH0181.D
Acq On : 12 Aug 2005 11:29
Operator : JBS
Sample : VSTD010
Misc :
ALS Vial : 20 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 12 11:54:37 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration



TIC: CH0181.D

(23) tert-Butyl Alcohol

5.140min (+0.026) 9.92PPB m

response 1236106

Ion	Exp%	Act%
59.00	100	100
41.00	0.00	0.00
57.00	0.00	0.00
0.00	0.00	0.00

Spot post
[illegible]
8/12/05

[illegible]
8/22/05

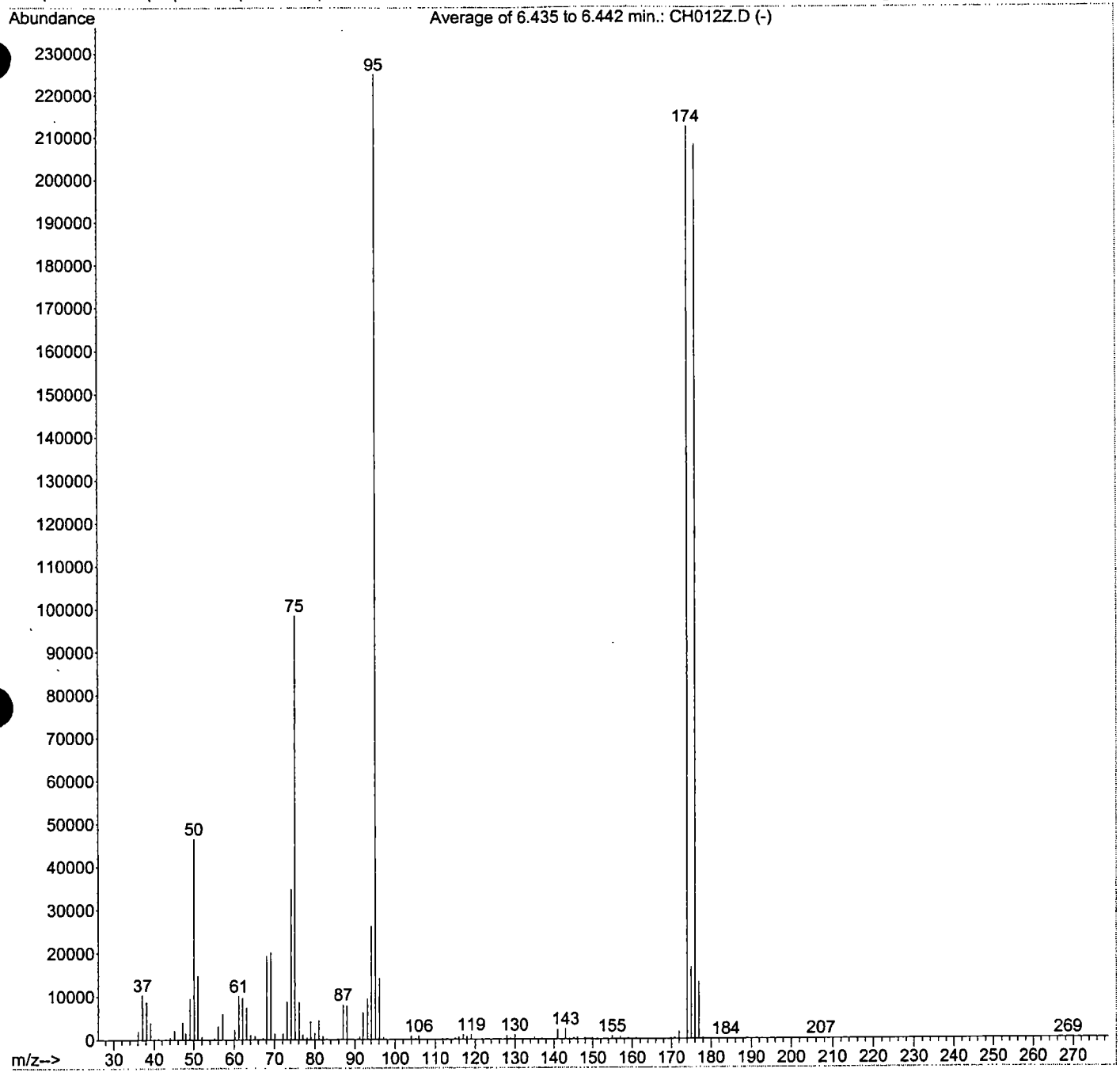
8211

ORIGINAL

Raw QC Data

BFB 624 Results

C:\MSDCHEM\1\DATA\AUG08\CH012Z.D Mon Aug 08 07:52:48 2005 ORIGINAL



Peak Apex is scan: 1046
Average of 3 scans: 1045,1046,1047 minus background scan 1030

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
50	95	15	40	20.7	PASS
75	95	30	60	43.8	PASS
95	95	100	100	100.0	PASS
96	95	5	9	6.3	PASS
173	174	0	2	0.0	PASS
174	95	50	100	94.4	PASS
175	174	5	9	7.8	PASS
176	174	95	101	98.0	PASS
177	176	5	9	6.3	PASS

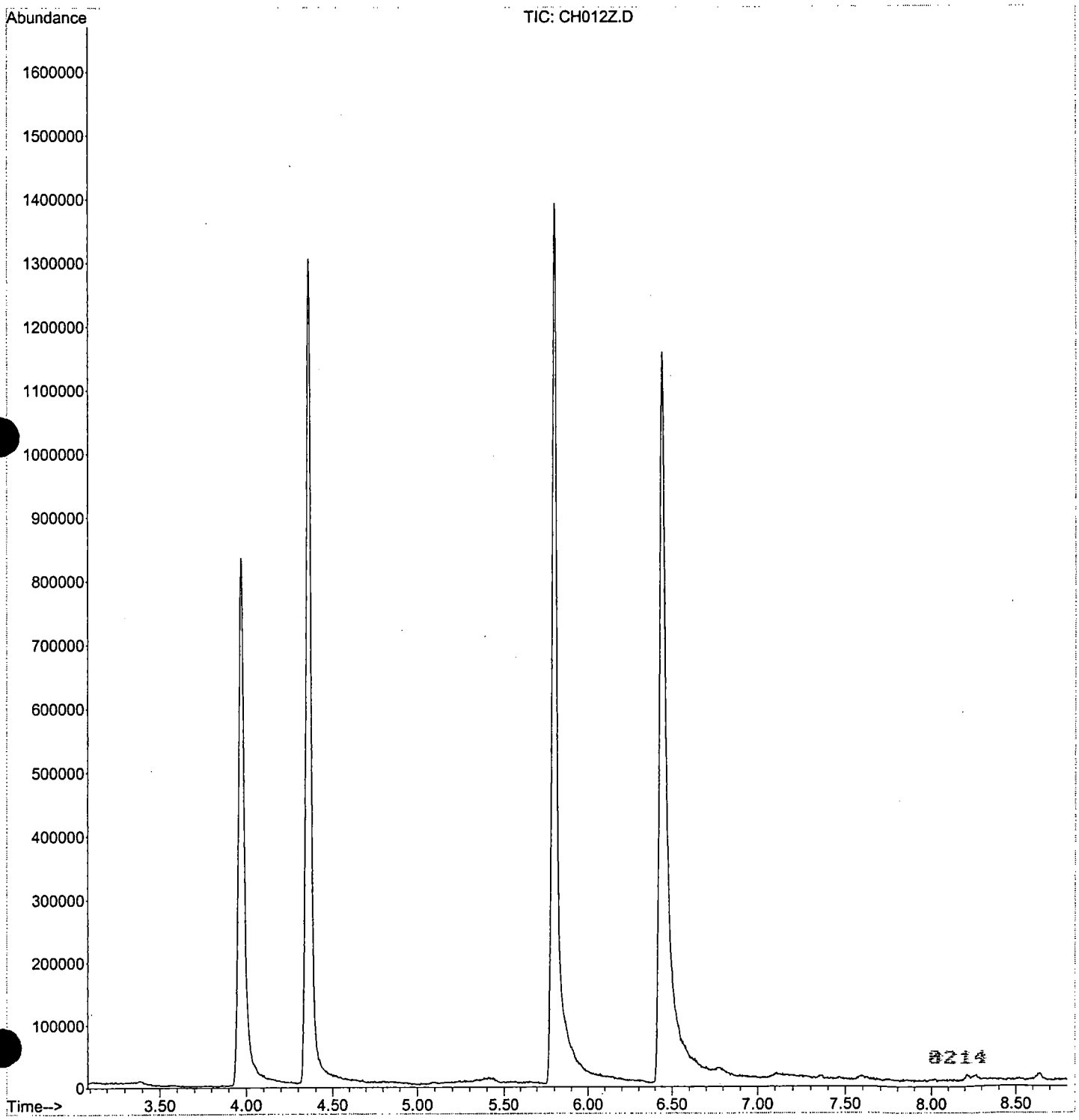
8213

Quantitation Report (Not Reviewed)

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG08\
Data File : CH012Z.D
Acq On : 8 Aug 2005 7:43
Operator : JBS
Sample : BFB
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 08 07:52:46 2005
Quant Method : C:\MSDCHEM\1\METHODS\BFB5973.M
Quant Title :
QLast Update : Thu Feb 17 14:59:05 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG08\
Data File : CH012Z.D
Acq On : 8 Aug 2005 7:43
Operator : JBS
Sample : BFB
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 08 07:52:46 2005
Quant Method : C:\MSDCHEM\1\METHODS\BFB5973.M
Quant Title :
QLast Update : Thu Feb 17 14:59:05 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)

Target Compounds					Qvalue
1) BFB	6.44	95	6978070	No Calib	

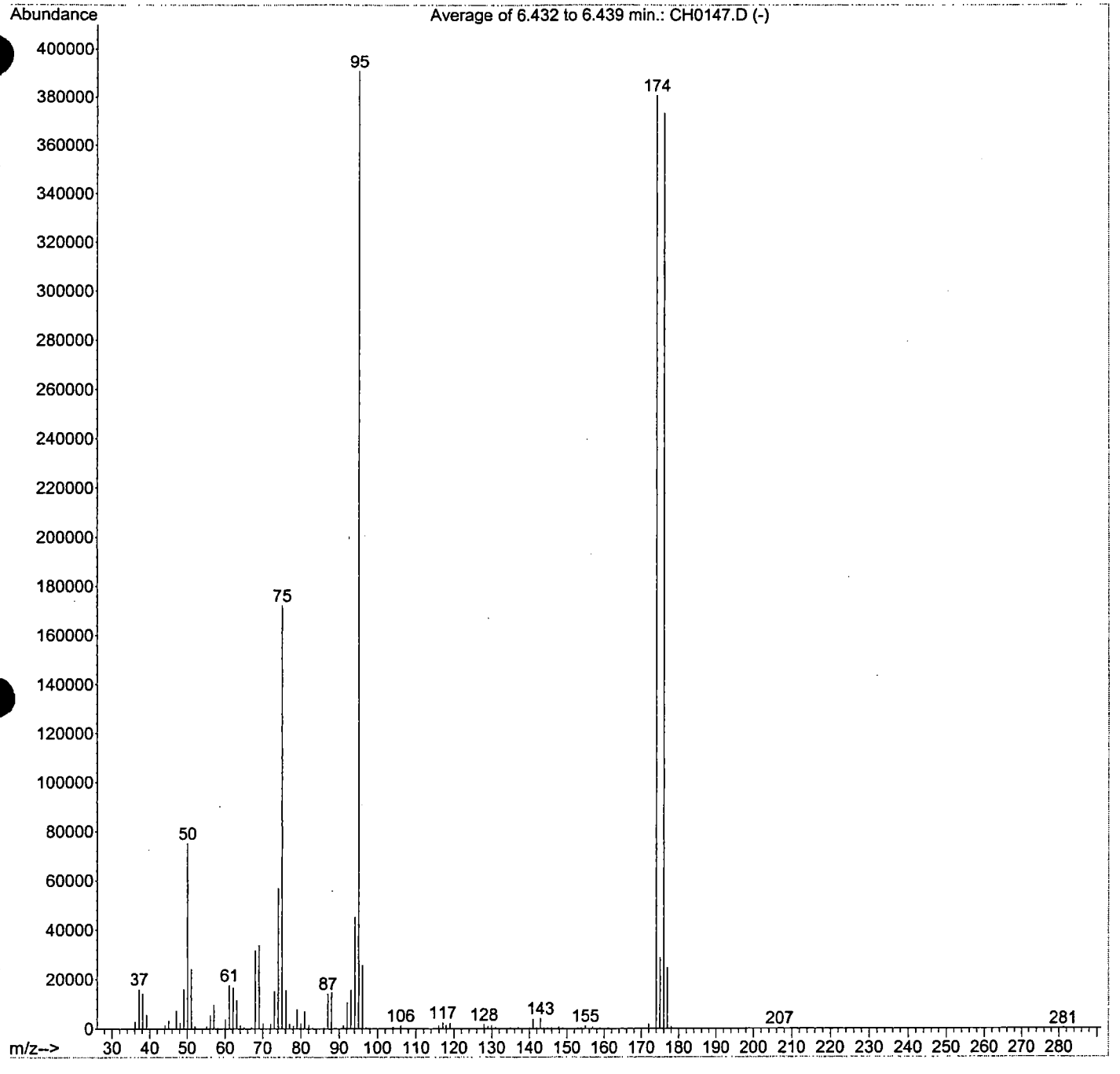
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8215

BFB 624 Results

ORIGINAL

C:\MSDCHEM\1\DATA\AUG10\CH0147.D Wed Aug 10 15:56:16 2005



Peak Apex is scan: 1045
Average of 3 scans: 1044,1045,1046 minus background scan 1030

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
50	95	15	40	19.2	PASS
75	95	30	60	44.0	PASS
95	95	100	100	100.0	PASS
96	95	5	9	6.6	PASS
173	174	0	2	0.0	PASS
174	95	50	100	97.4	PASS
175	174	5	9	7.5	PASS
176	174	95	101	98.0	PASS
177	176	5	9	6.6	PASS

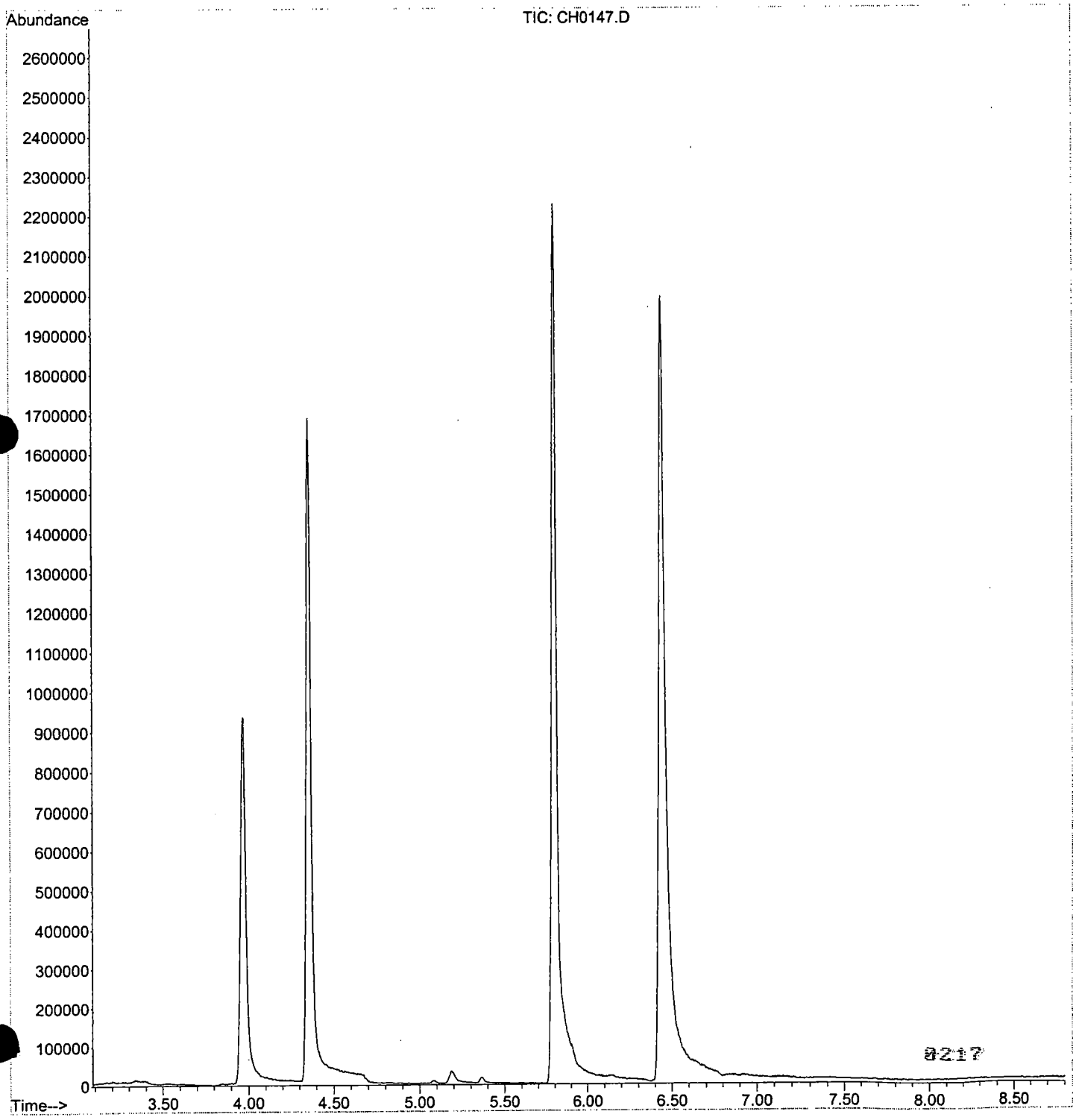
0216

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\AUG10\
Data File : CH0147.D
Acq On : 10 Aug 2005 15:47
Operator : RDG
Sample : BFB
Misc :
ALS Vial : 19 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 10 15:56:14 2005
Quant Method : C:\MSDCHEM\1\METHODS\BFB5973.M
Quant Title :
QLast Update : Thu Feb 17 14:59:05 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\AUG10\
Data File : CH0147.D
Acq On : 10 Aug 2005 15:47
Operator : RDG
Sample : BFB
Misc :
ALS Vial : 19 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 10 15:56:14 2005
Quant Method : C:\MSDCHEM\1\METHODS\BFB5973.M
Quant Title :
QLast Update : Thu Feb 17 14:59:05 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)

Target Compounds					Qvalue
1) BFB	6.44	95	11736201	No Calib	

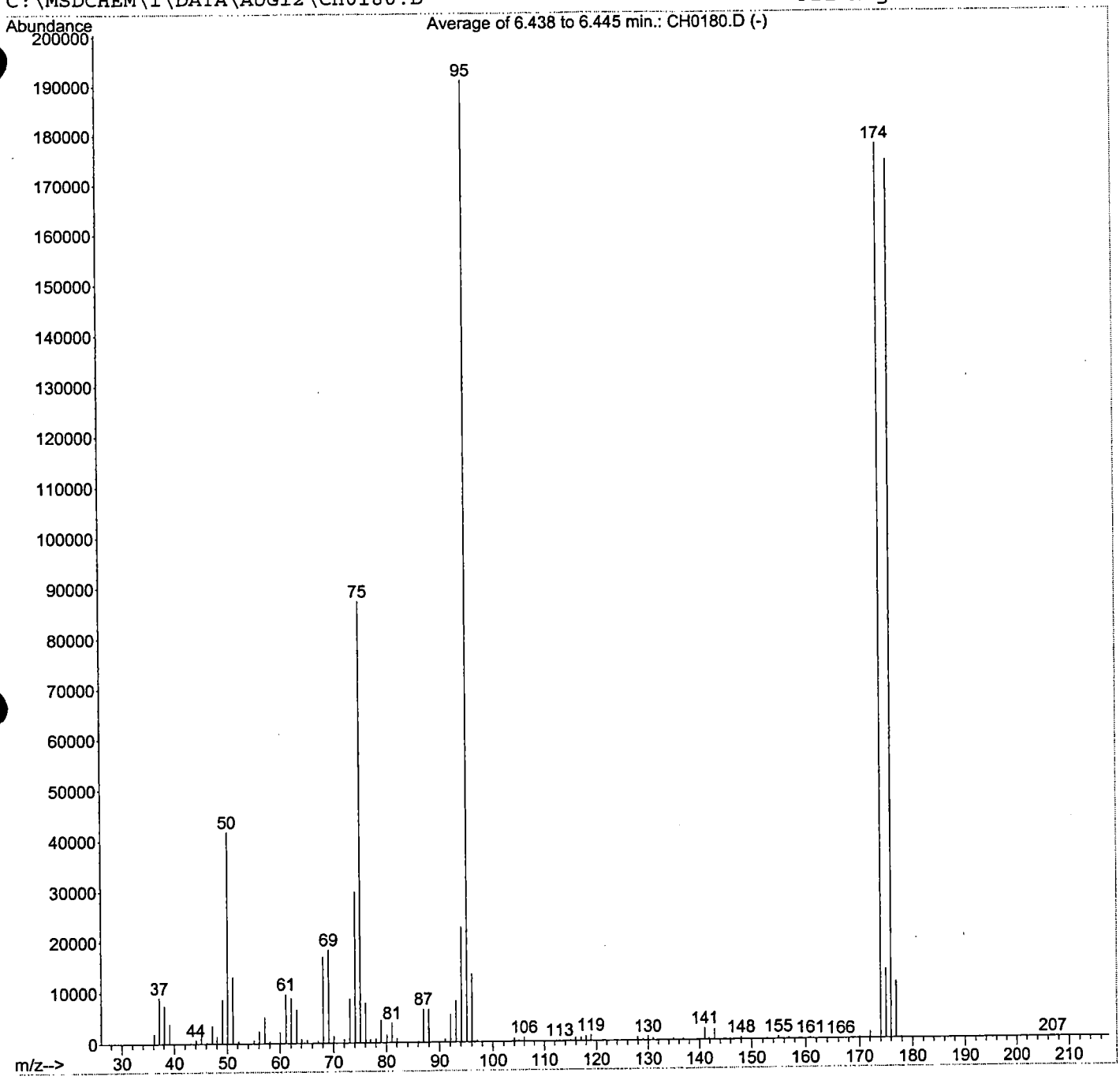
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0218

BFB 624 Results

ORIGINAL

C:\MSDCHEM\1\DATA\AUG12\CH0180.D Fri Aug 12 10:55:58 2005



Peak Apex is scan: 1047
Average of 3 scans: 1046,1047,1048 minus background scan 1031

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
50	95	15	40	21.9	PASS
75	95	30	60	45.7	PASS
95	95	100	100	100.0	PASS
96	95	5	9	7.0	PASS
173	174	0	2	0.0	PASS
174	95	50	100	93.0	PASS
175	174	5	9	7.7	PASS
176	174	95	101	98.2	PASS
177	176	5	9	6.4	PASS

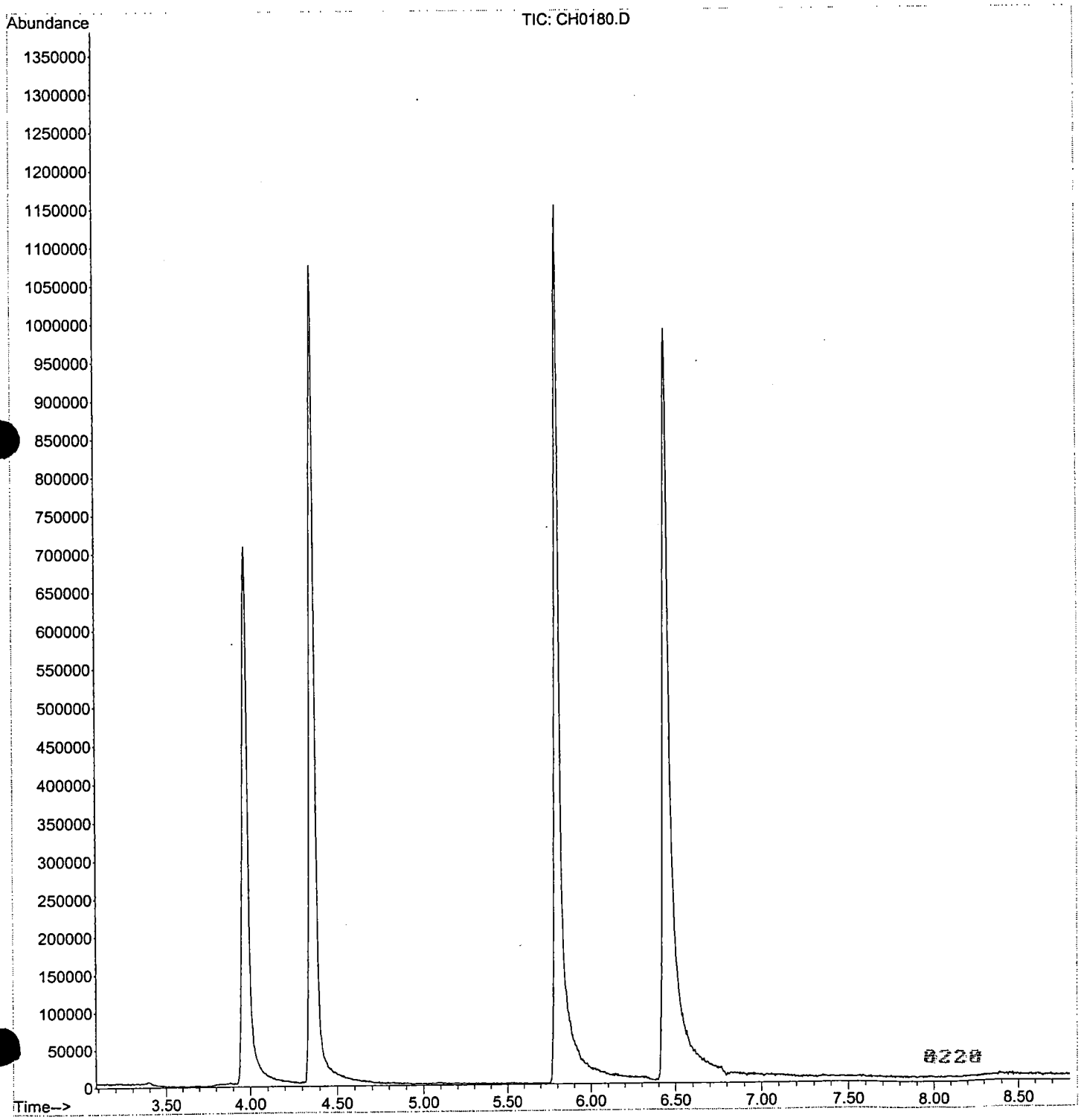
0219

Quantitation Report (Not Reviewed)

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0180.D
Acq On : 12 Aug 2005 10:47
Operator : JBS
Sample : BFB
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 12 10:55:56 2005
Quant Method : C:\MSDCHEM\1\METHODS\BFB5973.M
Quant Title :
QLast Update : Thu Feb 17 14:59:05 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0180.D
Acq On : 12 Aug 2005 10:47
Operator : JBS
Sample : BFB
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 12 10:55:56 2005
Quant Method : C:\MSDCHEM\1\METHODS\BFB5973.M
Quant Title :
QLast Update : Thu Feb 17 14:59:05 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)

Target Compounds					Qvalue
1) BFB	6.44	95	6104796	No Calib	

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

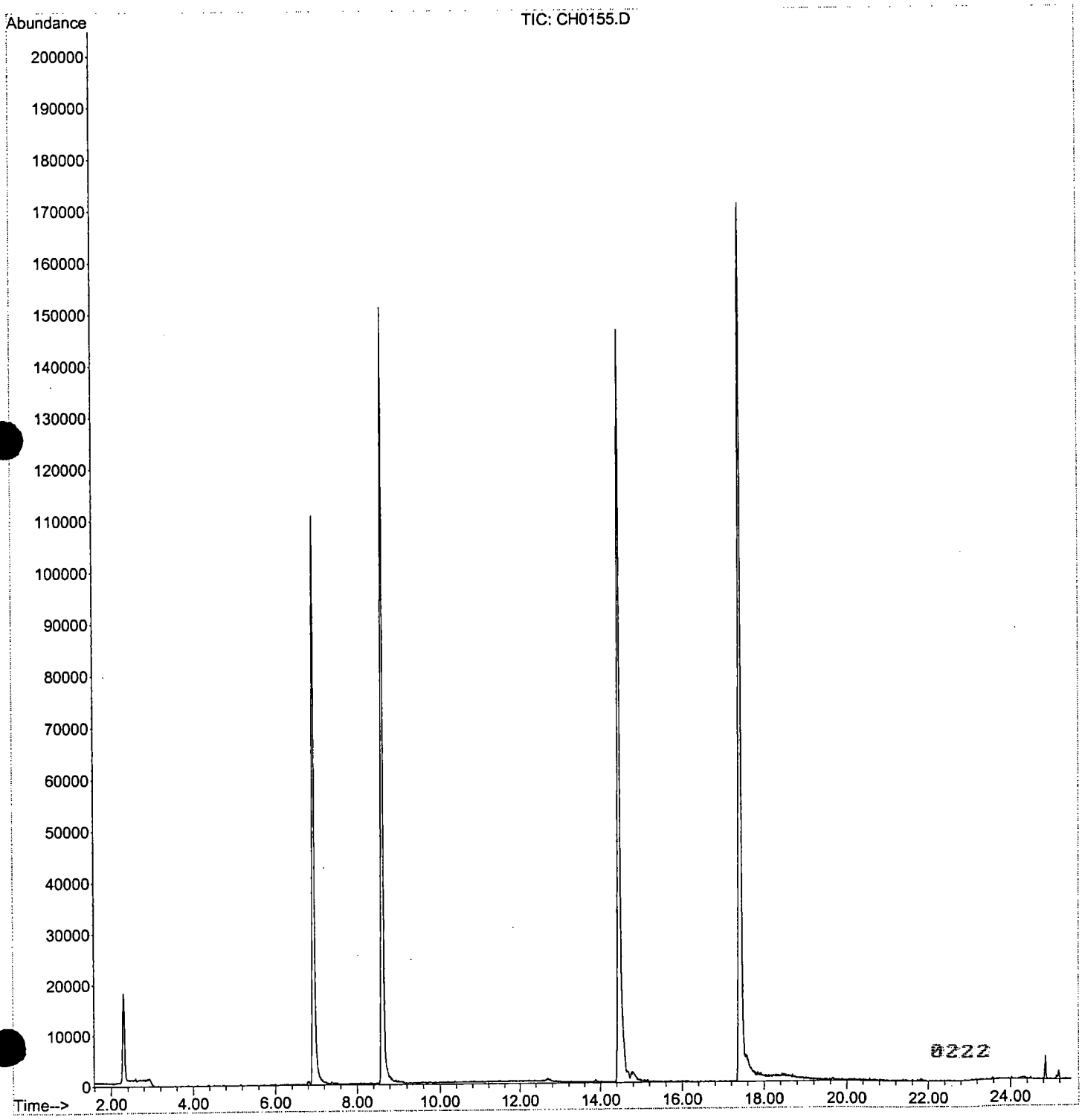
0221

Quantitation Report (Not Reviewed)

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG10\
Data File : CH0155.D
Acq On : 10 Aug 2005 18:23
Operator : RDG
Sample : VBLKC76
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 10 18:49:20 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\AUG10\
Data File : CH0155.D
Acq On : 10 Aug 2005 18:23
Operator : RDG
Sample : VBLKC76
Misc :
ALS Vial : 29 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 10 18:49:20 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.94	130	635560	10.000	0.00
37) 1,4-Difluorobenzene	8.62	114	2133344	10.000	0.00
51) Chlorobenzene d5	14.46	117	1992601	10.000	-0.02

Target Compounds	Qvalue

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

0223

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

ORIGINAL

Sample No.: VBLKC76 Date Collected: Date Received:
Lab Sample ID: VBLKC76 Date Analyzed: 08/10/05 Time Analyzed: 18:23
Canister ID: SUMMA Pressure Rec'd: 14.7 psia Final Pressure: 14.7 psia
Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP0946 Lab File ID: C:\MSDCHEM\1\DATA\AUG10\CH0155.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
				J

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.

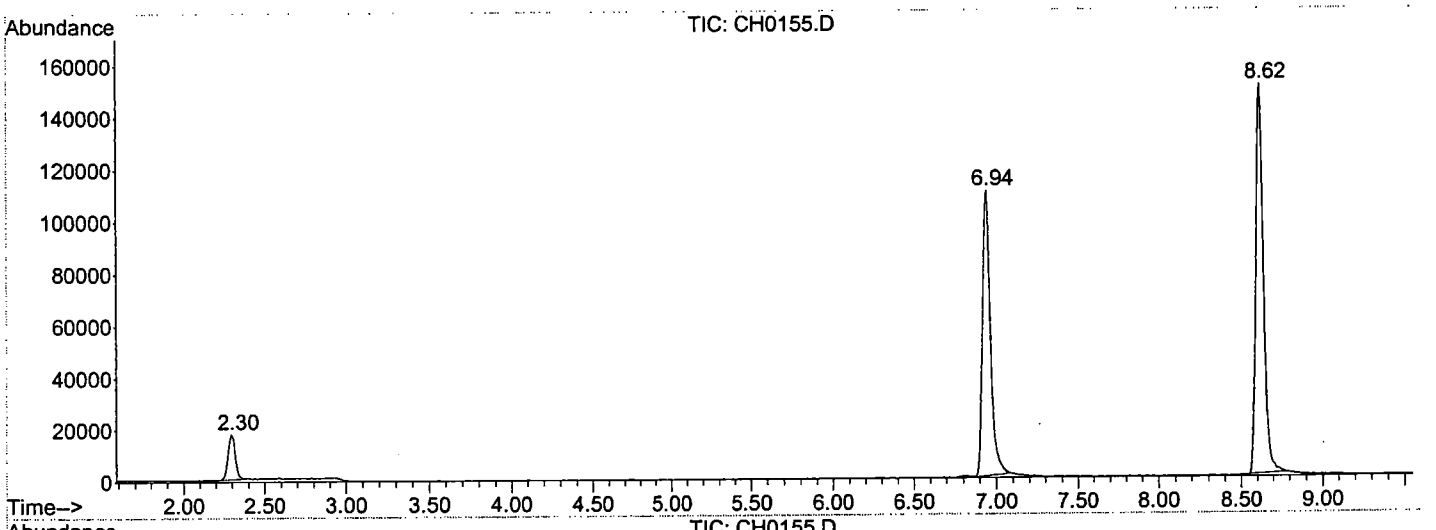
LSC Report - Integrated Chromatogram

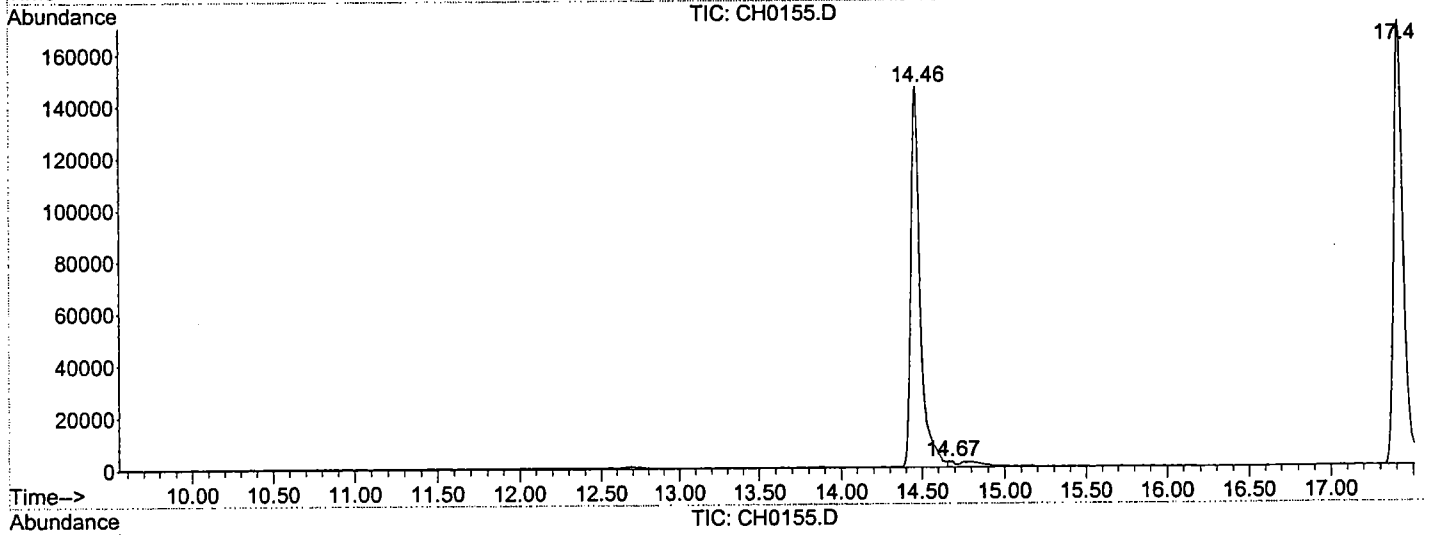
Data Path : C:\MSDCHEM\1\DATA\AUG10\
Data File : CH0155.D
Acq On : 10 Aug 2005 18:23
Operator : RDG
Sample : VBLKC76
Misc :
ALS Vial : 29 Sample Multiplier: 1

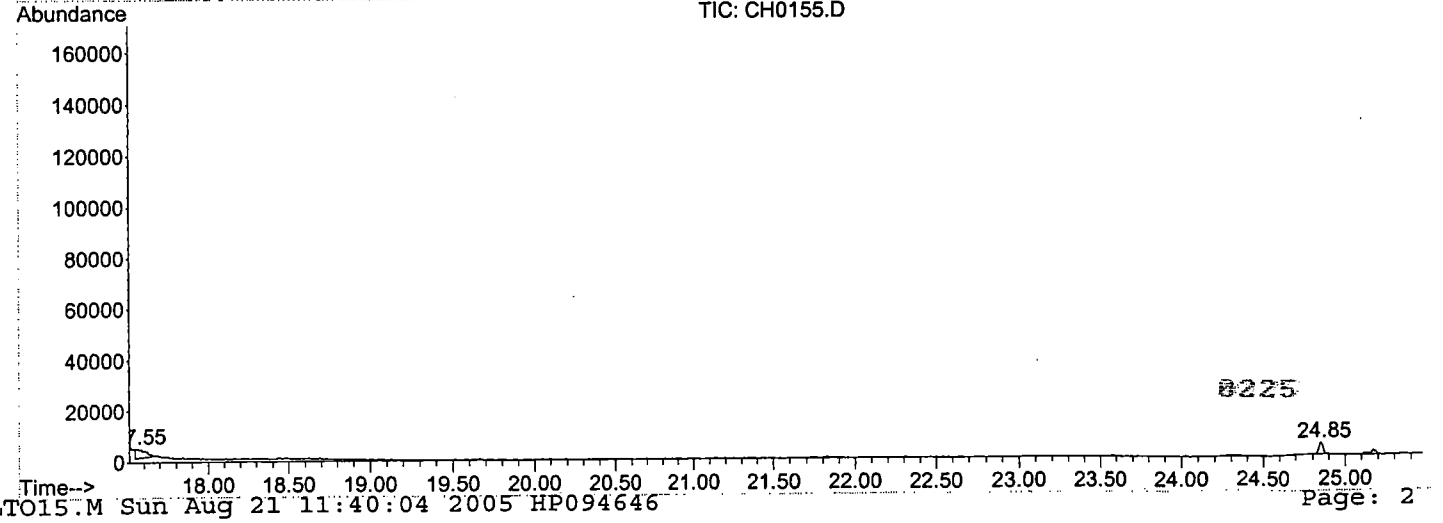
ORIGINAL

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e







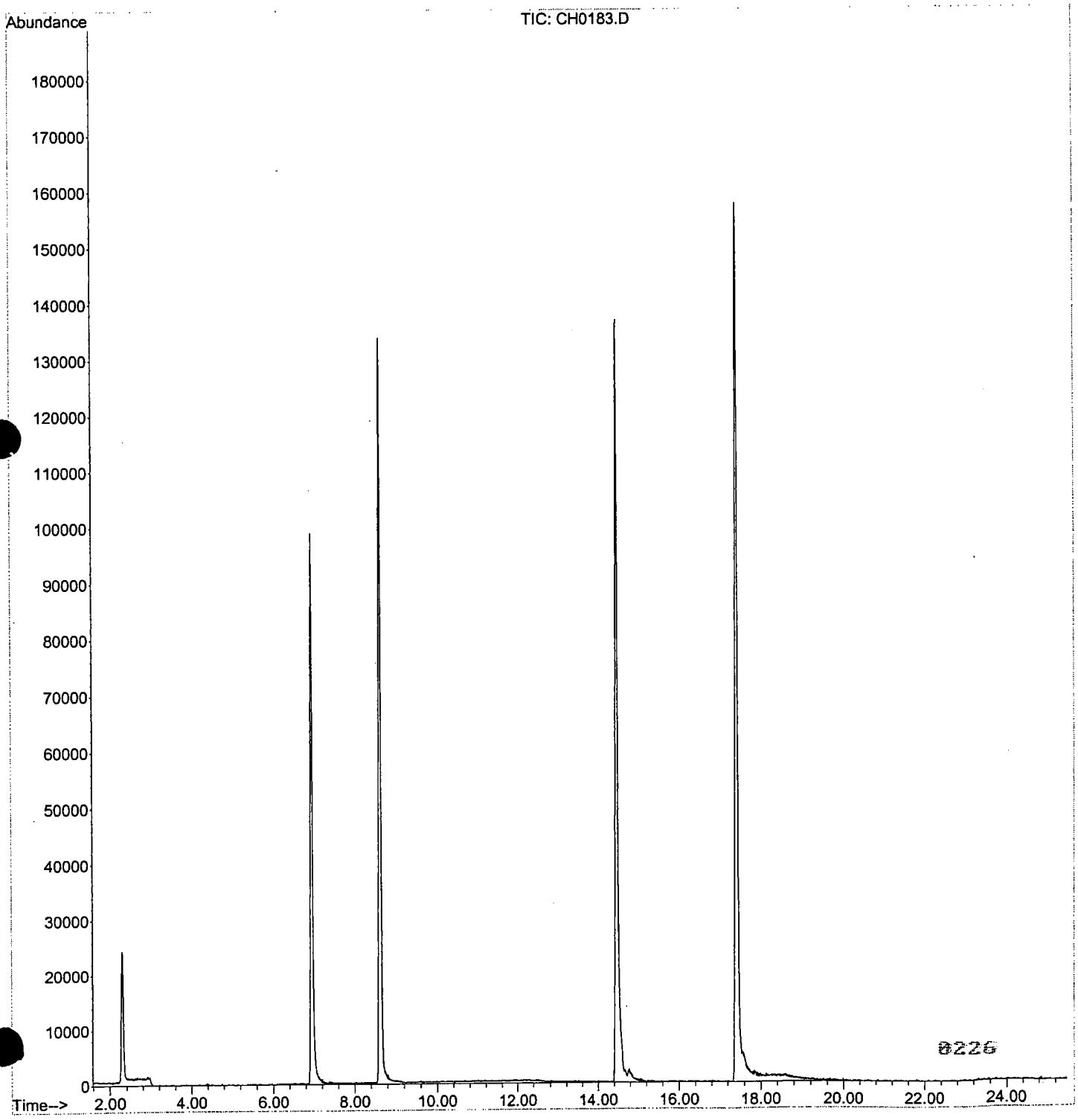
0225

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0183.D
Acq On : 12 Aug 2005 12:56
Operator : JBS
Sample : VBLKC77
Misc :
ALS Vial : 29 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 12 13:21:49 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0183.D
Acq On : 12 Aug 2005 12:56
Operator : JBS
Sample : VBLKC77
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 12 13:21:49 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.94	130	556942	10.000	0.00
37) 1,4-Difluorobenzene	8.62	114	1918640	10.000	0.00
51) Chlorobenzene d5	14.46	117	1851458	10.000	-0.02

Target Compounds	Qvalue

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

0227

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

ORIGINAL

Sample No.: VBLKC77 | Date Collected: | Date Received:
Lab Sample ID: VBLKC77 | Date Analyzed: 08/12/05 | Time Analyzed: 12:56
Canister ID: SUMMA | Pressure Rec'd: 14.7 psia | Final Pressure: 14.7 psia
Injection Volume: 250 cc | Nominal Volume: 250 cc | Dilution Factor: 1.0
Instrument ID: HP0946 | Lab File ID: C:\MSDCHEM\1\DATA\AUG12\CH0183.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
				J

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.

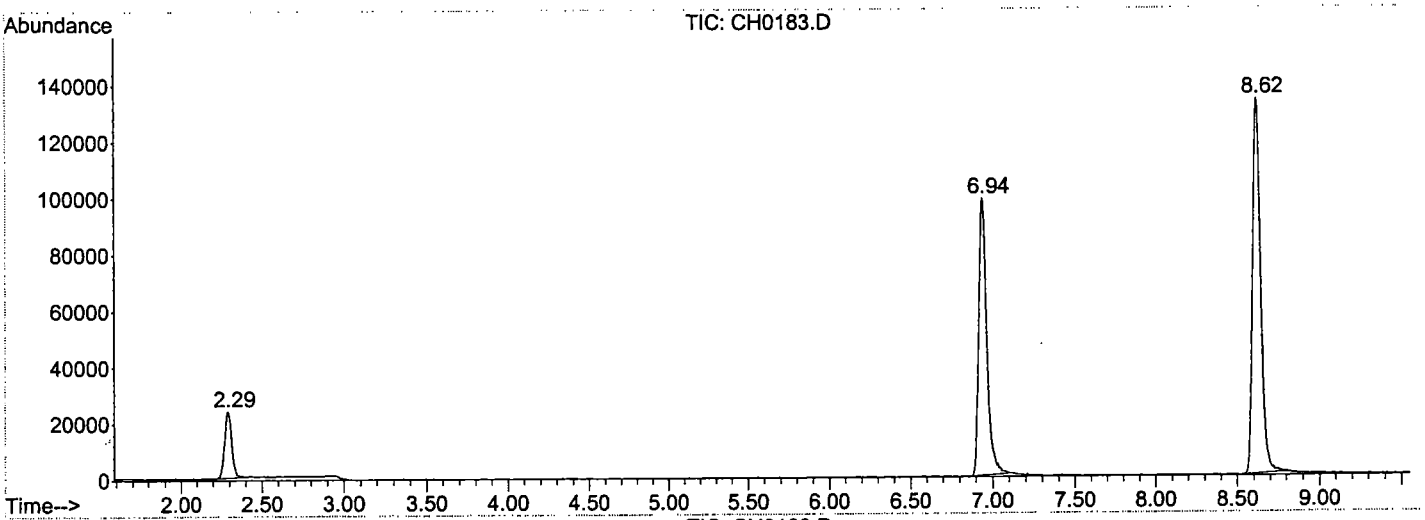
LSC Report - Integrated Chromatogram

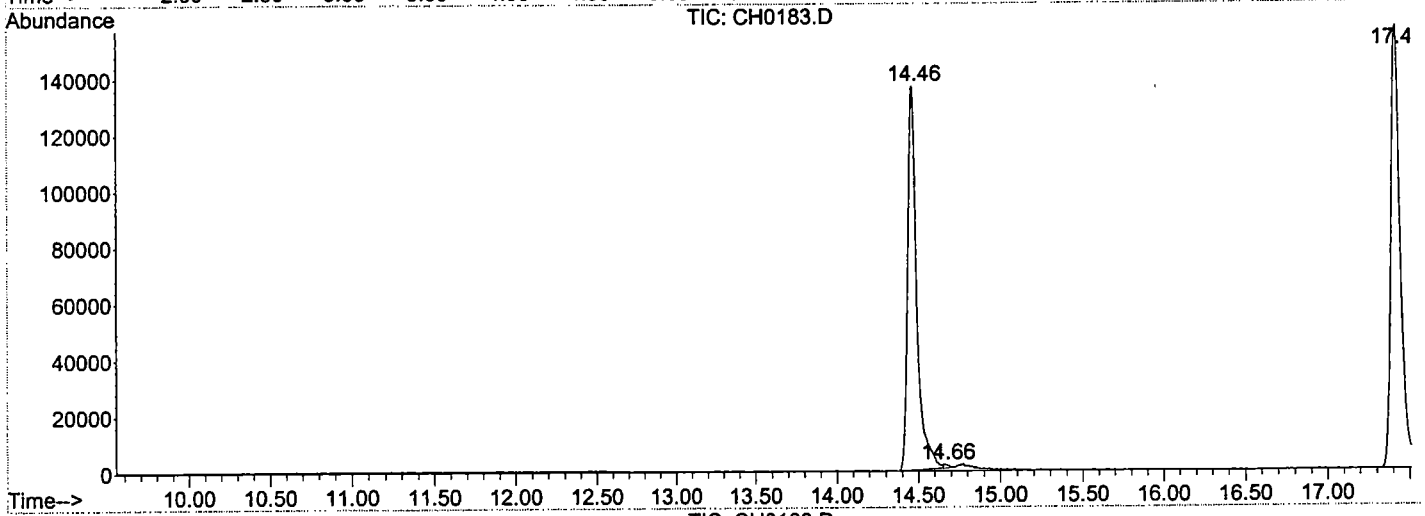
Data Path : C:\MSDCHEM\1\DATA\AUG12\
Data File : CH0183.D
Acq On : 12 Aug 2005 12:56
Operator : JBS
Sample : VBLKC77
Misc :
ALS Vial : 29 Sample Multiplier: 1

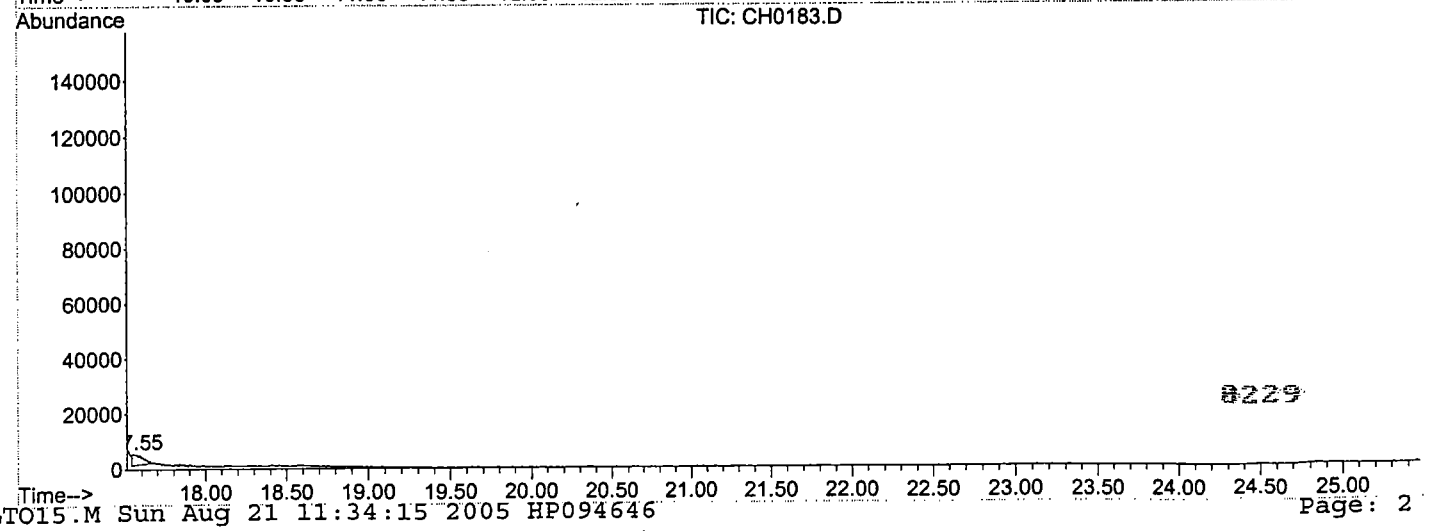
ORIGINAL

Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.e







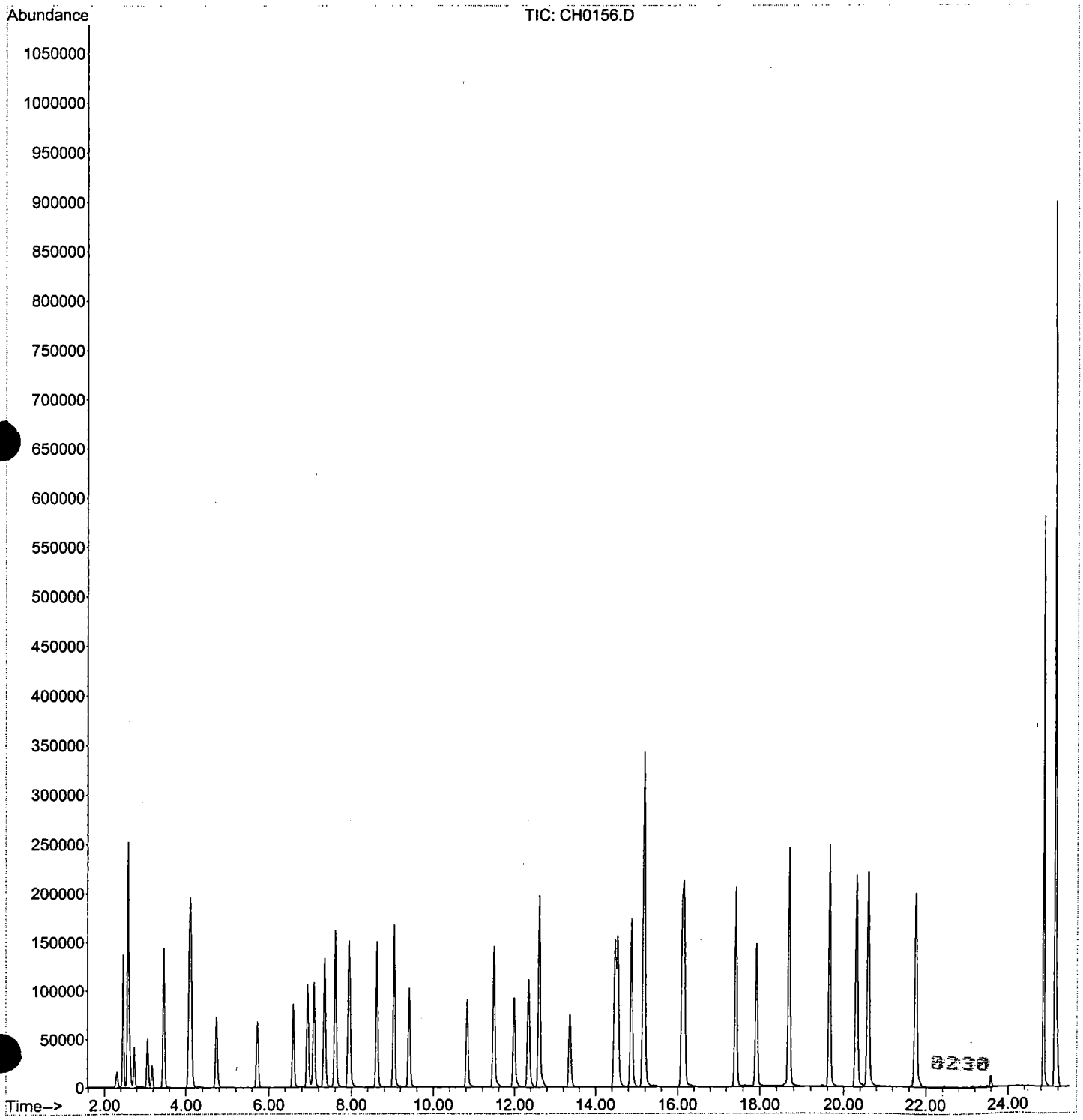
0229

Quantitation Report (Not Reviewed)

ORIGINAL

Data Path : C:\MSDCHEM\1\DATA\AUG10\
Data File : CH0156.D
Acq On : 10 Aug 2005 18:59
Operator : RDG
Sample : LCSC76
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Aug 10 19:25:31 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\AUG10\
Data File : CH0156.D
Acq On : 10 Aug 2005 18:59
Operator : RDG
Sample : LCSC76
Misc :
ALS Vial : 30 Sample Multiplier: 1

ORIGINAL

Quant Time: Aug 10 19:25:31 2005
Quant Method : C:\MSDCHEM\1\METHODS\ALLTO15.M
Quant Title :
QLast Update : Wed Aug 10 17:22:21 2005
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.94	130	566035	10.000			-0.01
37) 1,4-Difluorobenzene	8.62	114	1950167	10.000			0.00
51) Chlorobenzene d5	14.47	117	1830851	10.000			0.00

Target Compounds							Qvalue
3) Dichlorodifluoromethane	2.45	85	1685610	10.709	PPB		99
5) Freon 114	2.58	85	1649757	11.028	PPB		99
6) Chloromethane	2.62	50	906379	10.600	PPB		99
7) Vinyl Chloride	2.73	62	602967	10.701	PPB		96
9) Bromomethane	3.06	94	498387	10.439	PPB		100
10) Chloroethane	3.17	64	282722	11.464	PPB		97
12) Trichlorofluoromethane	3.46	101	1927803	11.115	PPB		100
15) 1,1-Dichloroethene	4.08	61	1041564	10.972	PPB		94
16) Freon 113	4.12	103	805958	11.330	PPB		99
22) Methylene Chloride	4.73	84	424002	11.359	PPB		89
28) 1,1-Dichloroethane	5.72	63	1132002	10.835	PPB		99
30) cis-1,2-Dichloroethene	6.59	61	890847	10.839	PPB		93
34) Chloroform	7.09	83	1225064	11.295	PPB		99
35) 1,1,1-Trichloroethane	7.35	97	1469908	11.352	PPB		98
36) Carbon Tetrachloride	7.61	117	1726048	10.894	PPB		100
38) 1,2-Dichloroethane	7.96	62	1004391	11.614	PPB		99
39) Benzene	7.93	78	1485484	11.342	PPB	#	95
42) Trichloroethene	9.04	130	956317	10.551	PPB		95
44) 1,2-Dichloropropane	9.41	63	662001	11.296	PPB	#	91
49) cis-1,3-Dichloropropene	10.82	75	894478	9.424	PPB		94
52) Toluene	11.47	91	2014582	11.172	PPB		98
54) trans-1,3-Dichloropropene	11.98	75	992336	11.558	PPB		99
56) 1,1,2-Trichloroethane	12.34	97	748892	10.730	PPB		99
57) Tetrachloroethene	12.61	166	1166803	10.725	PPB		98
60) 1,2-Dibromoethane	13.36	107	1148810	10.596	PPB		99
61) Chlorobenzene	14.53	112	1643307	11.106	PPB		96
63) Ethylbenzene	14.87	91	2523171	11.572	PPB		97
64) m/p-Xylene	15.17	91	4276263	22.935	PPB		95
65) o-Xylene	16.11	91	2148831	12.300	PPB		96
66) Styrene	16.16	104	1780227	11.994	PPB	#	100
69) 1,1,2,2-Tetrachloroethane	17.91	83	1353612	11.208	PPB		100
72) 4-Ethyltoluene	18.69	105	2871281	10.230	PPB	#	69
73) 1,3,5-Trimethylbenzene	18.69	105	2858716	11.651	PPB		95
74) Alpha Methyl Styrene	19.65	118	35228	0.307	PPB	#	1
75) 1,2,4-Trimethylbenzene	19.65	105	2938578	10.918	PPB		94
76) 1,3-Dichlorobenzene	20.31	146	2224868	11.289	PPB		97
77) 1,4-Dichlorobenzene	20.59	146	2262736	11.209	PPB		98
78) Benzyl Chloride	16.11	91	2148831	12.300	PPB	#	100
79) 1,2-Dichlorobenzene	21.75	146	2150586	11.469	PPB		97
81) 1,2,4-Trichlorobenzene	24.86	180	2058921	12.437	PPB		99
82) Hexachlorobutadiene	25.13	225	2219055	12.324	PPB		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed 0231