U.S. Environmental Protection Agency
Region 7

Site: Agromac Lockwood
ID# NESFN0203597
Break: 1.3 OUT
Other: 68-S7-01-41
Loc 2-26-02

Superfund Technical Assessment and Response Team (START) 2 Contract

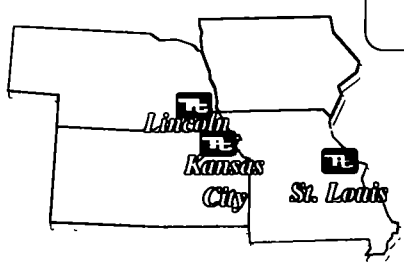
Contract No. 68-S7-01-41

Attachment 8

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

Volume 6 of 9

40088820
SUPERFUND RECORDS



Tetra Tech EM Inc.

Printed on Recycled Paper

Columbia Analytical Services inc.

A FULL SERVICE ENVIRONMENTAL LABORATORY

February 26, 2002

Mr. Curt Enos
Tetra Tech EM Inc.
8030 Flint St.
Lenexa, KS 66214

PROJECT:AGROMACK-LOCKWOOD OU#2
Submission #:R2210416

Dear Mr. Enos

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Mark Wilson
Client Service Manager

Enc.

1 Mustard St. • Suite 250 • Rochester, NY 14609 • Tele:(585)288-5380 • Fax:(585)288-8475

Columbia Analytical Services Inc.

1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Lab Submission # : R2210416
Project Manager : Mark Wilson
Reported : 02/26/02

Report Contains a total of 604 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. Michael K. Perry

SDG NARRATIVE

CASE NARRATIVE

COMPANY: Tetra Tech EM Inc.
Agromac-Lockwood OU#2
SUBMISSION #: R2210416

Tetra Tech soil samples were collected on 01/19-21/02 and received at CAS on 01/23-24/02 in good condition.

VOLATILE ORGANICS

Soil samples were analyzed for the Target Compound List (TCL) of Volatile Organics by EPA Method 5035/8260B from SW-846.

Samples MTS-GB-SLU-3 and SR-S-3-6/10 were analyzed for matrix spike/matrix spike duplicate recovery. Several recoveries and RPD were outside limits for the MS/MSD of MTS-GB-SLU-3. This was most likely due to interference from the high levels of organics present in the sample.

All blank spike recoveries were within QC limits.

Surrogate standard recoveries outside QC limits have been flagged "*". Each sample has been reanalyzed to confirm these QC outliers. Samples MTS-GB-SLU2-FD (15 days), MTS-GB-SLU-4 (15 days), SMWB-SLU (15 days), and MTS-GB-SLU-2 (15 days) were reanalyzed outside the 14 day hold time. Samples ST-SLU, SMWB-SLU and HWSC-SLU were reanalyzed at medium level, and all surrogates were within limits for these analysis.

Internal standard areas were outside QC limits in several samples. In each case the sample was reanalyzed to confirm these QC outliers. Sample MTS-GB-SLU-1 (15 days) was not reanalyzed within the 14 day hold time.

Sample SWD-S-1-2/4 was analyzed one day outside the 14 day hold time due to analyst error. Both low level analysis were performed on sample OS-S-1-2/6. In each case the run failed and due to some type of matrix affect, caused the GC/MS system to function improperly and require maintenance. This sample was reanalyze as a medium level, one day outside the required hold time.

No additional analytical or QC problems were encountered with these analyses.

4 Mustard Street, Suite 250 ▪ Rochester, NY 14609-6925 ▪ Telephone (585) 288-5380 ▪ Fax (585) 288-8475

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

SDG #: OS-S-1	BATCH COMPLETE: __yes_____	DATE REVISED:
SUBMISSION R2210416	DISKETTE REQUESTED: YES	DATE DUE: 02/21/02
CLIENT: Tetra Tech EM Inc.	DATE: 01/25/02	PROTOCOL: 846
CLIENT REP: Mark Wilson	CUSTODY SEAL: PRESENT/ABSENT:	SHIPPING No.:
PROJECT: AGROMACK-LOCKWOOD OU#2	CHAIN OF CUSTODY: PRESENT/ABSENT:	

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS AMPLE CONDITION
526025	OS-S-1-10/14	SOIL	8260/5035	1/21/02	1/23/02			
526026	OS-S-1-2/6	SOIL	8260/5035	1/21/02	1/23/02			
526027	OS-S-1-6/10	SOIL	8260/5035	1/21/02	1/23/02			
526028	OS-S-1-0/2	SOIL	8260/5035	1/21/02	1/23/02			
526208	MTS-GB-SLU2-FD	SOIL	8260/5035	1/21/02	1/23/02			
526209	MTS-GB-SLU-3	SOIL	QC 8260/5035	1/21/02	1/23/02			
526210	MTS-GB-SLU-4	SOIL	8260/5035	1/21/02	1/23/02			
526211	MTS-GB-SLU-2	SOIL	8260/5035	1/21/02	1/23/02			
526212	MTS-GB-SLU-1	SOIL	8260/5035	1/21/02	1/23/02			
526213	SR-S-3-6/10	SOIL	QC 8260/5035	1/19/02	1/23/02			
526214	SR-S-3-2/6	SOIL	8260/5035	1/19/02	1/23/02			
526215	SR-S-3-2/6-FD	SOIL	8260/5035	1/19/02	1/23/02			
526216	SWD-S-1-2/4	SOIL	8260/5035	1/17/02	1/23/02			
526217	SI-S-4-6/10	SOIL	8260/5035	1/20/02	1/23/02			
526218	SI-S-1-10/14	SOIL	8260/5035	1/20/02	1/23/02			
526219	ST-SLU	SOIL	8260/5035	1/20/02	1/23/02			
526220	HWSC-SLU	SOIL	8260/5035	1/20/02	1/23/02			
526221	BAC-SLU	SOIL	8260/5035	1/20/02	1/23/02			
526222	SI-S-4-10/14	SOIL	8260/5035	1/20/02	1/23/02			
526223	SMWB-SLU	SOIL	8260/5035	1/19/02	1/23/02			
526504	OS-S-2-0/2	SOIL	8260/5035	1/21/02	1/24/02			

04

Columbia Analytical Services INC.

An Employee - Owned Company

Effective 2/8/02

CAS LIST OF QUALIFIERS

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)

* - Inorganic Duplicate analysis not within control limits. Flag the entire batch - Inorganic analysis only

* - Organics QC data outside limits.

D - Spike diluted out.

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

CAS/Rochester Lab ID # for State Certifications

American Industrial Hygiene Assoc. ID #:100314
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited

NELAP Accredited
New York ID # 10145
New Jersey ID # NY004
New Hampshire ID # 294100 A/B
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292

ACCREDITED IN ACCORDANCE WITH nelac

CHAINS OF CUSTODY

INTERNAL CHAINS

CHAIN OF CUSTODY/LABORATORY ALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 3 OF 4

SR #

CAS Contact

Project Name: Lockwood OU#2
Project Number: 69011.E.01.0008.10
Report CC: Tim Bros

Tetra Tech EM Inc.
8000 Flint St.
Lenexa, KS 66214
Phone: 913-995-3906
FAX#: 913-894-6295
Sampler's Printed Name: Trisha R. Dealy

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE (1)-4 (2)-7 — 2 2

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOA's ☐ 8260 ☐ 624 ☐ CLP	GCMS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ VOA's ☐ METALS ☐ SVOA's	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)					REMARKS/ ALTERNATE DESCRIPTION
GS-PW-1	525950	1/19/02	1330	Water	1								✓							
GS-PW-4	953	1/20/02	1512	Water	1								✓							
Creek-S1	975	1/16/02	1940	Water	1								✓							
GS-PW-1-FD	949	1/19/02	1330	Water	1								✓							
GS-PW-2-FD	948	1/20/02	1500	Water	1								✓							
GS-PW-5	952	1/20/02	1621	Water	1								✓							
GS-PW-2-MS	947	1/20/02	1500	Water	1								✓							
GS-S-1-0/4	6025	1/21/02	1140	Soil	3	✓														
GS-S-1-2/6	026	1/21/02	1050	Soil	3	✓														
GS-S-1-6/10	027	1/21/02	1110	Soil	3	✓														

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS

Total Metals = 6010B
Dissolved Metals = 6020

Rush ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
____ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

See Contract

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:
R221046
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Trisha R. Dealy	Signature: [signature]	Signature	Signature	Signature	Signature
Printed Name: Trisha R. Dealy	Printed Name: Gregory O. Esmerian	Printed Name	Printed Name	Printed Name	Printed Name
Firm: TTEMI	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 1/22/02	Date/Time: 1-23-02 10:15	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

Columbia Analytical Services, Inc.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 4 OF 4

SR #

CAS Contact

Project Name: Agromack-Lockwood OU#2	Project Number: G9041.E.01.00008.10
Project Manager: Curt Enos	Report CC:
Company/Address: Tetra Tech EM Inc. 8030 Flint St. Lenexa, KS 66214	
Phone #: 913-495-3906	FAX#: 913-894-6295
Sampler's Signature: Trisha R. Dealy	Sampler's Printed Name: Trisha R. Dealy

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: (1)-6 (2)-7

Preservative Key: 0. NONE 1. HCL 2. HNO_3 3. H_2SO_4 4. NaOH 5. Zn. Acetate 6. MeOH 7. $NaHSO_4$ 8. Other _____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOA's ☐ 8260 ☐ 624 ☐ CLP	GCMS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
OS-S-1-0/2	526028	1/21/02	1020	Soil	3	✓										
OS-S-4-10/14		1/21/02	1540	Soil	3	✓										
OS-S-4-2/6		1/21/02	1550	Soil	3	✓										
OS-S-3-6/10		1/21/02	1450	Soil	3	✓										
OS-S-4-0/2		1/21/02	1525	Soil	3	✓										
OS-S-3-10/14		1/21/02	1505	Soil	3	✓										

Hold per C Enos 1/23/02

SPECIAL INSTRUCTIONS/COMMENTS

Metals

Note: Disregard "Preservative" listed on labels of VOA's.

Total Metals = 6010 B

Dissolved Metals = 6020

See QAPP ☐

TURNAROUND REQUIREMENTS

____ RUSH (SURCHARGES APPLY)

____ 24 hr ____ 48 hr ____ 5 day

____ STANDARD

REQUESTED FAX DATE See

REQUESTED REPORT DATE

REPORT REQUIREMENTS

____ I. Results Only

____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

____ V. Speicalized Forms / Custom Report

Edata ____ Yes ____ No

Contract

INVOICE INFORMATION

PO#

BILL TO:

SUBMISSION #: R22/0416

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Trisha R. Dealy	Signature: Gregory O. Esmerian	Signature	Signature	Signature	Signature
Printed Name: Trisha R. Dealy	Printed Name: Gregory O. Esmerian	Printed Name	Printed Name	Printed Name	Printed Name
Firm: TTEMI	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 1/22/02	Date/Time: 1-03-02 10:15	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

Columbia Analytical Services INC.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475

SR #

CAS Contact

Project Name: Agromac-Lockwood OU#2
Project Number: G9011.E.01.0008.10
Project Manager: Curt Enos
Report CC:
Company/Address: Tetra Tech EM Inc.
8030 Flint St.
Lenexa, KS 66214
Phone #: 913-495-3906
FAX#: 913-894-6295
Sampler's Signature: Trisha R. Dealy
Sampler's Printed Name: Trisha R. Dealy

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: (1)-6, (2)-7

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☒ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's	WASTE CHARACTERIZATION ☐ H/P ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)						REMARKS/ ALTERNATE DESCRIPTION
MTS-GB-SLU2-FD	526208	1/21/02	0800	Soil	3	✓															
MTS-GB-SLU-3	09	1/21/02	0900	Soil	3	✓															
MTS-GB-SLU3-MSD	09	1/21/02	0900	Soil	3	✓															
MTS-GB-SLU-4	10	1/21/02	1330	Soil	3	✓															
MTS-GB-SLU-2	11	1/21/02	0800	Soil	3	✓															
MTS-GB-SLU3-MS	09	1/21/02	0900	Soil	3	✓															
MTS-GB-SLU-1	12	1/21/02	1030	Soil	3	✓															
SR-S-3-6/10	13	1/19/02	0950	Soil	3	✓															
SR-S-3-6/10 MS	13	1/19/02	0950	Soil	3	✓															
SR-S-3-2/6	14	1/19/02	0900	Soil	3	✓															

SPECIAL INSTRUCTIONS/COMMENTS
Metals
*Note: Disregard "Preservative" listed on labels of VOA's.

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
____ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

See Contract

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #: 1L2210416

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Trisha R. Dealy	Signature: [signature]	Signature	Signature	Signature	Signature
Printed Name: Trisha R. Dealy	Printed Name: Gregory A. Emerian	Printed Name	Printed Name	Printed Name	Printed Name
Firm: TTEMI	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 1/22/02	Date/Time: 1-23-02 10:15	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

Columbia Analytical Services INC.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475

SR #

CAS Contact

Project Name: Agromac-Lockwood OU#2
Project Number: G9011.E.01.00008.10
Project Manager: Curt Eros
Report CC:
Company/Address: Tetra Tech EM Inc. 8030 Flint St. Lenexa, KS 66214
Phone #: 913-495-3906
FAX#: 913-894-6295
Sampler's Signature: Trisha R. Dealy
Sampler's Printed Name: Trisha R. Dealy

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE (1)-6 (2)-7

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	VOA's (DW) 524.2				REMARKS/ ALTERNATE DESCRIPTION
SR-S-3-2/6-FD	526215	1/19/02	0900	Soil	3	✓														
SR-S-3-6/10 MSD	13	1/19/02	0950	Soil	3	✓														
SWD-S-1-2/4	16	1/17/02	1615	Soil	3	✓														
SI-S-4-6/10	17	1/20/02	1215	Soil	3	✓														
SI-S-1-10/14	18	1/20/02	1035	Soil	3	✓														
OS-PW-1	525 950	1/19/02	1330	Water	3										✓					
ST-SLU	19	1/20/02	1430	Soil	3	✓														
HWSC-SLU	20	1/20/02	1600	Soil	3	✓														
OS-S-4-6/10		1/21/02	1600	Soil	3	✓														
OS-S-2-10/14		1/21/02	1350	Soil	3	✓														

Hold per C Eros 2/27/02

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals
* Note: Disregard "Preservative" listed on labels of VOA's.

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
____ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

See Contract

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #: 1C22104 16

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Trisha R. Dealy	Signature: Gregory A. Esmerian	Signature	Signature	Signature	Signature
Printed Name: Trisha R Dealy	Printed Name: Gregory A. Esmerian	Printed Name	Printed Name	Printed Name	Printed Name
Firm: TTEMI	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 1/22/02	Date/Time: 1-23-02 10:15	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 3 OF 5

SR #

CAS Contact

Project Name: Lockwood OU #2

Project Number: G9011.E.01.0008.10

Report CC

Client: Enos

Tetra Tech EM Inc.

8030 Flint St.

Lenexa, KS 66214

Tel: 785-396

FAX#: 913-894-6295

Sampler's Printed Name: Trisha R. Dealy

Trisha R. Dealy

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 01-6, 07

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's 8260B ☐ 624 ☐ CLP	GC/MS SVOA's 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ VOA's ☐ METALS	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	VOA's (DIS) 524.2				REMARKS/ ALTERNATE DESCRIPTION
SW-SL4	526221	1/20/02	1700	Soil	3	✓														
SS-3-0/2		1/21/02	1420	Soil	3	✓														
SS-2-2/6		1/21/02	1340	Soil	3	✓														
SS-2-6/10		1/21/02	1405	Soil	3	✓														
SS-2-0/2	526504	1/21/02	1315	Soil	3	✓														
SS-4-10/14	22	1/20/02	1215	Soil	3	✓														
SS-3-2/6		1/21/02	1415	Soil	3	✓														
Creek-SW	525951	1/20/02	1715	Water	3		✓													
SS-PW-14	6018	1/19/02	1704	Water	3										✓					
SS-PW-12	6019	1/19/02	1557	Water	3										✓					

Hold per C Enos 2/23/02

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

INSTRUCTIONS/COMMENTS

Disregard "Preservative" listed on labels & VOA's.

☐ DUP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
____ STANDARD
~~REQUESTED FAX DATE~~
REQUESTED REPORT DATE

See Contract

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Specialized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:

R22/0416
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Trisha R. Dealy	Signature [signature]	Signature	Signature	Signature	Signature
Trisha R. Dealy	Printed Name Gregory O. Esmerian	Printed Name	Printed Name	Printed Name	Printed Name
TTEMI	Firm CAS	Firm	Firm	Firm	Firm
1/22/02	Date/Time 1-23-02 10:15	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

Column Analytical Services

CHAIN OF CUSTODY/LABORATORY ALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 4 OF 4

SR #

CAS Contact

Project Name: Hydronic Lakewood OU#2

Project Number: G9011.E.01.0008.10

Report CC

Project Manager: Curt Enos

Company: Tetra Tech EM Inc.

1030 Flint St.

Lenexa, KS 66214

913-495-3906

FAX#: 913-894-6295

Sampler's Signature: Trisha R. Dealy

Sampler's Printed Name: Trisha R. Dealy

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 1, 0-6, 0-7, 1

Preservative Key: 0. NONE 1. HCL 2. HNO_3 3. H_2SO_4 4. NaOH 5. Zn. Acetate 6. MeOH 7. $NaHSO_4$ 8. Other _____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOA's 8260 ☐ 624 ☐ CLP	GCMS SVOA's 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's	WASTE CHARACTERIZATION ☐ H/P ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	VOA's (PW) 524.2				REMARKS/ ALTERNATE DESCRIPTION
SI-GGW-3	526020	1/21/02	0905	Water	3	✓															
SI-GGW-1	021	1/21/02	0910	Water	3	✓															
DS-GGW-2	022	1/21/02	1100	Water	3	✓															
SI-GGW-4	023	1/21/02	0835	Water	3	✓															
SI-GGW-2-MSD	610	1/21/02	1030	Water	3	✓															
SPWB-WW	024	1/19/02	1545	Water	3	✓															
SPWB-SLU	526223	1/19/02	1545	Soil	3		✓														

SPECIAL INSTRUCTIONS/COMMENTS

Note: Disregard "Preservative" labeled on VOA's.

See CAPP ☐

TURNAROUND REQUIREMENTS

____ RUSH (SURCHARGES APPLY)

____ 24 hr ____ 48 hr ____ 5 day

____ STANDARD

REQUESTED FAX DATE

REQUESTED REPORT DATE

See Contract

REPORT REQUIREMENTS

____ I. Results Only

____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

____ V. Specialized Forms / Custom Report

Edata ____ Yes ____ No

INVOICE INFORMATION

PO#

BILL TO:

R2210416

SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Trisha R. Dealy	Signature: [illegible]	Signature	Signature	Signature	Signature
Printed Name: Trisha R. Dealy	Printed Name: Gregory D. Esmerian	Printed Name	Printed Name	Printed Name	Printed Name
Firm: TTEMI	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 1/22/02	Date/Time: 1-23-02 10:15	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

Cooler Receipt And Preservation Check Form

Project/Client Tetra Tech Submission Number R2-X0416.

Cooler received on 1-23-02 by: ME **COURIER:** CAS UPS (FEDEX) CD&L CLIENT

1. Were custody seals on outside of cooler? (YES) / NO
2. Were custody papers properly filled out (ink, signed, etc.)? (YES) NO
3. Did all bottles arrive in good condition (unbroken)? (YES) NO
4. Did any VOA vials have significant air bubbles? YES (NO) N/A
5. Were (Ice) or Ice packs present? (YES) NO
6. Where did the bottles originate? (CAS/ROC) CLIENT
7. Temperature of cooler(s) upon receipt:

Temperature of cooler(s) upon receipt:	2°	5°	1°		
Is the temperature within 0° - 6° C?:	(Yes)	(Yes)	(Yes)	Yes	Yes
If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 1-23-02 @ 10:20

Thermometer ID: IR-Gun Temp Blank Sample Bottle Cooler Temp. (IR. Gun)

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 1-24-02 by: ME

. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3					
2	H_2SO_4					
Residual Chlorine (+/-)	for TCN & Phenol					
5-11 pH slurry*	CLP SVOA					
5-9 pH slurry*	CLP* P/PCBs					
5-9**	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*Do not adjust pH! Report in C/N **If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

Columbia Analytical Services, Inc.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475

SR #

CAS Contact

Project Name: Agromac-Lockwood OU #2
Project Number: G9011.E.01.0008.10
Project Manager: Curt Enos
Report CC:
Company/Address: Tetra Tech EM Inc.
8030 Flint St.
Lenexa, KS 66214
Phone #: 913-495-3906
FAX#: 913-894-6295
Sampler's Signature: Trisha R. Dealy
Sampler's Printed Name: Trisha R. Dealy

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOA's ☐ 8260 ☐ 624 ☐ CLP	GCMS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP METALS 1311 ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	pH, % Solids	% Solids for 5035			REMARKS/ ALTERNATE DESCRIPTION
PRESERVATIVE													0		*		* 0	* 0		
MTS-GB-SLU-3-MS	412/413	1/21/02	0900	Soil	2							✓				✓				
MTS-GB-SLU-3-MSD	✓	1/21/02	0900	Soil	2							✓				✓				
SR-S-3-6/10		1/19/02	0950	Soil	1												✓			
SR-S-3-6/10 MS		1/19/02	0950	Soil	1												✓			
SR-S-3-6/10 MSD		1/19/02	0950	Soil	1												✓			
SR-S-3-2/6		1/19/02	0900	Soil	1												✓			
SR-S-3-2/6 FD		1/19/02	0900	Soil	1												✓			
SI-S-4-10/14		1/20/02	1215	Soil	1												✓			
SI-S-4-6/10		1/20/02	1215	Soil	1												✓			
SI-S-1-10/14		1/20/02	1035	Soil	1												✓			

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals
Please note: 1. The 8-oz. jars labeled for total metals analysis are for pH and % solids. Please disregard the metals analysis.
2. The 4-oz. jars labeled for VOC analysis are for % solids for 5035.

TCLP by 1311
See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
____ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

See Contract

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Specialized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Trisha R. Dealy	Signature: [illegible]	Signature	Signature	Signature	Signature
Printed Name: Trisha R. Dealy	Printed Name: [illegible]	Printed Name	Printed Name	Printed Name	Printed Name
Firm: TETRA TECH	Firm: GPS	Firm	Firm	Firm	Firm
Date/Time: 1/23/02 1800	Date/Time: 1/24/02 950	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

Colu Ana, al Services INC.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 3 OF 4

SR #

CAS Contact

Project Name: Aromac-Lockwood OU#2	Project Number: G9011.E.01.0008.10
Project Manager: Curt Enos	Report CC:
Company/Address: Tetra Tech EM Inc. 8030 Flint St. Lenexa, KS 66214	
Phone #: 913-495-3906	FAX#: 913-894-6295
Sampler's Signature: Trisha R. Dealy	Sampler's Printed Name: Trisha R. Dealy

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 0

Preservative Key: 0. NONE 1. HCL 2. HNO_3 3. H_2SO_4 4. NaOH 5. Zn. Acetate 6. MeOH 7. $NaHSO_4$ 8. Other _____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's	WASTE CHARACTERIZATION ☐ H/P ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	% Solids for 5035				REMARKS/ ALTERNATE DESCRIPTION
SWD-S-1-2/4		1/21/02	1615	Soil	1											✓				
OS-S-3-6/10		1/21/02	1450	Soil	1											✓				
OS-S-2-6/10		1/21/02	1405	Soil	1											✓				
OS-S-2-2/6		1/21/02	1340	Soil	1											✓				
OS-S-2-0/2		1/21/02	1315	Soil	1											✓				
OS-S-3-10/14		1/21/02	1505	Soil	1											✓				
OS-S-1-0/2		1/21/02	1020	Soil	1											✓				
OS-S-2-10/14		1/21/02	1350	Soil	1											✓				
OS-S-3-2/6		1/21/02	1415	Soil	1											✓				
OS-S-4-6/10		1/21/02	1600	Soil	1											✓				

SPECIAL INSTRUCTIONS/COMMENTS

Metals

Please Note: 1. The 8-oz. jars labeled for total metals analysis are for pH and % solids. Please disregard the metals analysis.

2. The 4-oz jars labeled for VOC analysis are for % solids for 5035.

See QAPP ☐

TURNAROUND REQUIREMENTS

____ RUSH (SURCHARGES APPLY)

____ 24 hr ____ 48 hr ____ 5 day

____ STANDARD

REQUESTED FAX DATE _____

REQUESTED REPORT DATE _____

See Contract

REPORT REQUIREMENTS

____ I. Results Only

____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

____ V. Specialized Forms / Custom Report

Edata ____ Yes ____ No

INVOICE INFORMATION

PO#

BILL TO:

SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Trisha R. Dealy	Signature: Brian Callan	Signature	Signature	Signature	Signature
Printed Name: Trisha R. Dealy	Printed Name: Brian Callan	Printed Name	Printed Name	Printed Name	Printed Name
Firm: TEMI	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 01/23/02 1800	Date/Time: 1/24/02 950	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

CHAIN-OF-CUSTODY RECORD

TETRA TECH EM INC.
8030 Flint Street
Lenexa, Kansas 66214
(913) 894-2600
Fax: 913-894-6295

Date: 1/23/02
Page: 4 of 4
Project No: G9011.E.01.0008.10
Shipment Method: ——
Number of Coolers Shipped: ——

Project Name: Agromac-Lockwood OU#2
Project Manager: Curt Enos (913-495-3906)
Sampler: (Signature) Trisha R. Dealy / Trisha Dealy

Sample Number:	Date:	Time:	% Solids for 5035	Matrix Type	No. of Containers	Laboratory Comments:
OS-S-4-10/14	1/21/02	1540	✓	S	1	
OS-S-4-0/2	1/21/02	1525	✓	S	1	
OS-S-4-2/6	1/21/02	1550	✓	S	1	
OS-S-3-0/2	1/21/02	1420	✓	S	1	
OS-S-1-2/6	1/21/02	1050	✓	S	1	
OS-S-1-6/10	1/21/02	1110	✓	S	1	
OS-S-1-10/14	1/21/02	1140	✓	S	1	

Analyses (Preservative)

Turn-around Time Requested: See Contract!

Note: The 4-oz. jars labeled for VOC analysis are for % solids for 5035. Disregard the "VOC" analysis.

Matrix: S = Soil M = Sediment W = Water A = Air
Preservatives: 1 = Ice 2 = HCl 3 = H_2SO_4 4 = NaOH 5 = HNO_3

Relinquished By:	Received By:	Date:	Time:
(Signature) Trisha R. Dealy (TTEMI)	(Signature) [illegible]	1/24/02	950
Relinquished By: (Signature)	Received By: (Signature)	Date:	Time:
Relinquished By: (Signature)	Received By: (Signature)	Date:	Time:

White = Tetra Tech Yellow = Laboratory Pink = Return to Tetra Tech

Cooler Receipt And Preservation Check Form

Project/Client Tetra tech Submission Number R2-10416.

Cooler received on 1/24/02 by: BC COURIER: CAS UPS FEDEX CD&L CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were **Ice** or **Ice packs** present? YES NO
6. Where did the bottles originate? CAS/ROC CLIENT
7. Temperature of cooler(s) upon receipt: 1° 1° 1° ____ ____

Is the temperature within 0° - 6° C?:	Yes	Yes	Yes	Yes	Yes
If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 1/24/02 1000

Thermometer ID: IR-Gun Temp Blank Sample Bottle Cooler Temp. IR. Gun

If out of Temperature, Client Approval to Run Samples ____

Cooler Breakdown: Date: 1-24-02 by: AE

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: ____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3					
2	H_2SO_4					
Residual Chlorine (+/-)	for TCN & Phenol					
5-11 pH slurry*	CLP SVOA					
5-9 pH slurry*	CLP* P/PCBs					
5-9**	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH ____

*Do not adjust pH! Report in C/N **If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

INTERNAL CHAINS

CLIENT NAME: Tetra Tech EM Inc.

SDG#: SUBMISSION: R2210416 DATE REC'D: 01/23/02 1015

	ORDER #	# OF CONTAINERS	RELINQUISHED BY	RECEIVED BY	DATE TIME	PH	STORAGE LOCATION	SCHEDULED LTS DATE
8260B	526025	3	AE	BA	1-24-02 16:00		a-1	02/22/02
8260B	526026	3						02/22/02
8260B	526027	3						02/22/02
8260B	526028	3						02/22/02
8260B	526208	3						02/22/02
8260B	526209 QC	9						02/22/02
8260B	526210	3						02/22/02
8260B	526211	3						02/22/02
8260B	526212	3						02/22/02
8260B	526213 QC	9						02/22/02
8260B	526214	3						02/22/02
8260B	526215	3						02/22/02
8260B	526216	3						02/22/02
8260B	526217	3						02/22/02
8260B	526218	3						02/22/02
8260B	526219	3						02/22/02
8260B	526220	3						02/22/02
8260B	526221	3						02/22/02

INTERNAL CHAINS

CLIENT NAME: Tetra Tech EM Inc.

SDG#: SUBMISSION: R2210416 DATE REC'D: 01/23/02 1015

	ORDER #	# OF CONTAINERS	RELINQUISHED BY	RECEIVED BY	DATE	TIME	PH	STORAGE LOCATION	SCHEDULED LTS DATE
3260B	526222	1	[illegible]	BA	1-24-02	16:00		C-1	02/22/02
3260B	526223	1	↓	↓	↓	↓		↓	02/22/02
3260B	526504	1	↓	↓	↓	↓		↓	02/23/02

INTERNAL \INS

CLIENT NAME: Tetra Tech EM Inc.

SDG#: SUBMISSION: R2210416 DATE REC'D: 01/23/02 1015

	ORDER #	# OF CONTAINERS	RELINQUISHED BY	RECEIVED BY	DATE	TIME	STORAGE LOCATION	SCHEDULED LTS DATE
PERCENT SOLIDS	526025	1	JC	TD	1-24-02	16:00	C-2	02/22/02
PERCENT SOLIDS	526026	1						02/22/02
PERCENT SOLIDS	526027	1						02/22/02
PERCENT SOLIDS	526028	1						02/22/02
PERCENT SOLIDS	526208	1						02/22/02
PERCENT SOLIDS	526209 QC	1						02/22/02
PERCENT SOLIDS	526210	1						02/22/02
PERCENT SOLIDS	526211	1						02/22/02
PERCENT SOLIDS	526212	1						02/22/02
PERCENT SOLIDS	526213 QC	3						02/22/02
PERCENT SOLIDS	526214	1						02/22/02
PERCENT SOLIDS	526215	1						02/22/02
PERCENT SOLIDS	526216	1						02/22/02
PERCENT SOLIDS	526217	1						02/22/02
PERCENT SOLIDS	526218	1						02/22/02
PERCENT SOLIDS	526219	1						02/22/02
PERCENT SOLIDS	526220	1						02/22/02
PERCENT SOLIDS	526221	1						02/22/02

INTERNAL C"^INS

:LIENT NAME: Tetra Tech EM Inc.

:DG#: SUBMISSION: R2210416 DATE REC'D: 01/23/02 1015

	ORDER #	# OF CONTAINERS	RELINQUISHED BY	RECEIVED BY	DATE	TIME	STORAGE LOCATION	SCHEDULED LTS DATE
PERCENT SOLIDS	526222	1	JC	TD	1-24-02	16:00	C-2	02/22/02
PERCENT SOLIDS	526223	1	↓	↓	↓	↓	↓	02/22/02
PERCENT SOLIDS	526504	1	↓	↓	↓	↓	↓	02/23/02

VOLATILE ORGANICS

QC SUMMARY

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
SOIL/SEDIMENT

Spiked Order No. : 526209 Tetra Tech EM Inc.

Client ID: MTS-GB-SLU-3

Test: 8260B TCL

Analytical Units: UG/KG

Run Number : 74263

Percent Solid : 48.3

ANALYTE	SPIKE ADDED MS	SPIKE ADDED MSD	CONCENT. SAMPLE	MATRIX SPIKE FOUND	MATRIX SPIKE % REC.	MATRIX SPIKE DUP. FOUND	MATRIX SPIKE DUP. % REC.	RPD	QC LIMITS RPD	QC LIMITS REC.
BENZENE	75.6	69.4	0	31.1	41*	17.6	25*	55*	30	66 - 142
CHLOROBENZENE	75.6	69.4	0	29.0	38*	22.8	33*	24	30	60 - 133
1,1-DICHLOROETHENE	75.6	69.4	0	66.3	88	29.0	42*	78*	30	59 - 172
TOLUENE	75.6	69.4	14.9	45.5	40*	35.2	29*	26	30	59 - 139
TRICHLOROETHENE	75.6	69.4	0	22.8	30*	16.1	23*	34*	30	62 - 137

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
SOIL/SEDIMENT

Spiked Order No. : 526213 Tetra Tech EM Inc.

Client ID: SR-S-3-6/10

Test: 8260B TCL

Analytical Units: UG/KG

Run Number : 74262

Percent Solid : 77.0

ANALYTE	SPIKE ADDED MS	SPIKE ADDED MSD	CONCENT. SAMPLE	MATRIX SPIKE FOUND	MATRIX SPIKE % REC.	MATRIX SPIKE DUP. FOUND	MATRIX SPIKE DUP. % REC.	RPD	QC LIMITS RPD	QC LIMITS REC.
BENZENE	61.7	61.7	0	51.9	84	53.2	86	2	30	66 - 142
CHLOROBENZENE	61.7	61.7	0	50.6	82	51.9	84	3	30	60 - 133
1,1-DICHLOROETHENE	61.7	61.7	0	58.4	95	62.3	101	6	30	59 - 172
TOLUENE	61.7	61.7	0	54.5	88	57.1	93	5	30	59 - 139
TRICHLOROETHENE	61.7	61.7	0	50.6	82	51.9	84	3	30	62 - 137

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 529700 ANALYTICAL RUN # : 74263

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 1/29/2002			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	106	50 - 150
BENZENE	20.0	102	70 - 130
BROMODICHLOROMETHANE	20.0	106	70 - 130
BROMOFORM	20.0	96	70 - 130
BROMOMETHANE	20.0	89	50 - 150
2-BUTANONE (MEK)	20.0	95	50 - 150
CARBON DISULFIDE	20.0	105	70 - 130
CARBON TETRACHLORIDE	20.0	104	70 - 130
CHLOROBENZENE	20.0	103	70 - 130
CHLOROETHANE	20.0	97	70 - 130
CHLOROFORM	20.0	110	70 - 130
CHLOROMETHANE	20.0	93	70 - 130
DIBROMOCHLOROMETHANE	20.0	102	70 - 130
1,1-DICHLOROETHANE	20.0	111	70 - 130
1,2-DICHLOROETHANE	20.0	109	70 - 130
1,1-DICHLOROETHENE	20.0	95	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	102	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	104	70 - 130
1,2-DICHLOROPROPANE	20.0	96	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	113	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	116	70 - 130
ETHYLBENZENE	20.0	108	70 - 130
2-HEXANONE	20.0	84	70 - 130
METHYLENE CHLORIDE	20.0	100	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	91	70 - 130
STYRENE	20.0	110	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	117	70 - 130
TETRACHLOROETHENE	20.0	91	70 - 130
TOLUENE	20.0	102	70 - 130
1,1,1-TRICHLOROETHANE	20.0	112	70 - 130
1,1,2-TRICHLOROETHANE	20.0	106	70 - 130
TRICHLOROETHENE	20.0	97	70 - 130
VINYL CHLORIDE	20.0	82	70 - 130
O-XYLENE	20.0	111	70 - 130
M+P-XYLENE	40.0	114	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 529633 ANALYTICAL RUN # : 74262

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 02/01/02			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	96	50 - 150
BENZENE	20.0	91	70 - 130
BROMODICHLOROMETHANE	20.0	92	70 - 130
BROMOFORM	20.0	93	70 - 130
BROMOMETHANE	20.0	69	50 - 150
2-BUTANONE (MEK)	20.0	89	50 - 150
CARBON DISULFIDE	20.0	93	70 - 130
CARBON TETRACHLORIDE	20.0	88	70 - 130
CHLOROBENZENE	20.0	95	70 - 130
CHLOROETHANE	20.0	75	70 - 130
CHLOROFORM	20.0	95	70 - 130
CHLOROMETHANE	20.0	85	70 - 130
DIBROMOCHLOROMETHANE	20.0	90	70 - 130
1,1-DICHLOROETHANE	20.0	102	70 - 130
1,2-DICHLOROETHANE	20.0	96	70 - 130
1,1-DICHLOROETHENE	20.0	90	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	98	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	96	70 - 130
1,2-DICHLOROPROPANE	20.0	84	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	88	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	93	70 - 130
ETHYLBENZENE	20.0	96	70 - 130
2-HEXANONE	20.0	84	70 - 130
METHYLENE CHLORIDE	20.0	91	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	87	70 - 130
STYRENE	20.0	95	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	91	70 - 130
TETRACHLOROETHENE	20.0	98	70 - 130
TOLUENE	20.0	96	70 - 130
1,1,1-TRICHLOROETHANE	20.0	82	70 - 130
1,1,2-TRICHLOROETHANE	20.0	93	70 - 130
TRICHLOROETHENE	20.0	87	70 - 130
VINYL CHLORIDE	20.0	85	70 - 130
O-XYLENE	20.0	93	70 - 130
M+P-XYLENE	40.0	97	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 529690 ANALYTICAL RUN # : 74263

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 02/02/02			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	118	50 - 150
BENZENE	20.0	86	70 - 130
BROMODICHLOROMETHANE	20.0	91	70 - 130
BROMOFORM	20.0	94	70 - 130
BROMOMETHANE	20.0	51	50 - 150
2-BUTANONE (MEK)	20.0	101	50 - 150
CARBON DISULFIDE	20.0	91	70 - 130
CARBON TETRACHLORIDE	20.0	85	70 - 130
CHLOROBENZENE	20.0	89	70 - 130
CHLOROETHANE	20.0	73	70 - 130
'LOROFORM	20.0	94	70 - 130
,LOROMETHANE	20.0	93	70 - 130
DIBROMOCHLOROMETHANE	20.0	90	70 - 130
1,1-DICHLOROETHANE	20.0	96	70 - 130
1,2-DICHLOROETHANE	20.0	95	70 - 130
1,1-DICHLOROETHENE	20.0	88	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	94	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	93	70 - 130
1,2-DICHLOROPROPANE	20.0	82	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	88	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	91	70 - 130
ETHYLBENZENE	20.0	91	70 - 130
2-HEXANONE	20.0	97	70 - 130
METHYLENE CHLORIDE	20.0	90	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	100	70 - 130
STYRENE	20.0	91	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	97	70 - 130
TETRACHLOROETHENE	20.0	91	70 - 130
TOLUENE	20.0	91	70 - 130
1,1,1-TRICHLOROETHANE	20.0	82	70 - 130
1,1,2-TRICHLOROETHANE	20.0	90	70 - 130
TRICHLOROETHENE	20.0	84	70 - 130
VINYL CHLORIDE	20.0	81	70 - 130
O-XYLENE	20.0	89	70 - 130
M+P-XYLENE	40.0	91	70 - 130

OLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 529696 ANALYTICAL RUN # : 74263

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 2/ 3/2002			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	86	50 - 150
BENZENE	20.0	104	70 - 130
BROMODICHLOROMETHANE	20.0	99	70 - 130
BROMOFORM	20.0	90	70 - 130
BROMOMETHANE	20.0	108	50 - 150
2-BUTANONE (MEK)	20.0	81	50 - 150
CARBON DISULFIDE	20.0	83	70 - 130
CARBON TETRACHLORIDE	20.0	102	70 - 130
CHLOROBENZENE	20.0	104	70 - 130
~LOROETHANE	20.0	100	70 - 130
LOROFORM	20.0	94	70 - 130
CHLOROMETHANE	20.0	93	70 - 130
DIBROMOCHLOROMETHANE	20.0	92	70 - 130
1,1-DICHLOROETHANE	20.0	98	70 - 130
1,2-DICHLOROETHANE	20.0	94	70 - 130
1,1-DICHLOROETHENE	20.0	95	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	99	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	107	70 - 130
1,2-DICHLOROPROPANE	20.0	101	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	99	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	95	70 - 130
ETHYLBENZENE	20.0	105	70 - 130
2-HEXANONE	20.0	73	70 - 130
METHYLENE CHLORIDE	20.0	101	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	78	70 - 130
STYRENE	20.0	106	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	86	70 - 130
TETRACHLOROETHENE	20.0	98	70 - 130
TOLUENE	20.0	102	70 - 130
1,1,1-TRICHLOROETHANE	20.0	95	70 - 130
1,1,2-TRICHLOROETHANE	20.0	96	70 - 130
TRICHLOROETHENE	20.0	102	70 - 130
VINYL CHLORIDE	20.0	87	70 - 130
O-XYLENE	20.0	102	70 - 130
M+P-XYLENE	40.0	115	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 529686 ANALYTICAL RUN # : 74263

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 02/04/02			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	91	50 - 150
BENZENE	20.0	86	70 - 130
BROMODICHLOROMETHANE	20.0	88	70 - 130
BROMOFORM	20.0	91	70 - 130
BROMOMETHANE	20.0	44	50 - 150
2-BUTANONE (MEK)	20.0	85	50 - 150
CARBON DISULFIDE	20.0	77	70 - 130
CARBON TETRACHLORIDE	20.0	80	70 - 130
CHLOROBENZENE	20.0	88	70 - 130
CHLOROETHANE	20.0	74	70 - 130
CHLOROFORM	20.0	83	70 - 130
CHLOROMETHANE	20.0	70	70 - 130
IBROMOCHLOROMETHANE	20.0	92	70 - 130
1,1-DICHLOROETHANE	20.0	83	70 - 130
1,2-DICHLOROETHANE	20.0	87	70 - 130
1,1-DICHLOROETHENE	20.0	74	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	83	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	81	70 - 130
1,2-DICHLOROPROPANE	20.0	82	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	90	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	90	70 - 130
ETHYLBENZENE	20.0	87	70 - 130
2-HEXANONE	20.0	93	70 - 130
METHYLENE CHLORIDE	20.0	82	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	88	70 - 130
STYRENE	20.0	88	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	86	70 - 130
TETRACHLOROETHENE	20.0	89	70 - 130
TOLUENE	20.0	86	70 - 130
1,1,1-TRICHLOROETHANE	20.0	76	70 - 130
1,1,2-TRICHLOROETHANE	20.0	89	70 - 130
TRICHLOROETHENE	20.0	83	70 - 130
VINYL CHLORIDE	20.0	77	70 - 130
O-XYLENE	20.0	86	70 - 130
M+P-XYLENE	40.0	88	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 529698 ANALYTICAL RUN # : 74263

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 2/ 4/2002			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	95	50 - 150
BENZENE	20.0	98	70 - 130
BROMODICHLOROMETHANE	20.0	98	70 - 130
BROMOFORM	20.0	94	70 - 130
BROMOMETHANE	20.0	98	50 - 150
2-BUTANONE (MEK)	20.0	88	50 - 150
CARBON DISULFIDE	20.0	103	70 - 130
CARBON TETRACHLORIDE	20.0	93	70 - 130
CHLOROBENZENE	20.0	100	70 - 130
CHLOROETHANE	20.0	90	70 - 130
CHLOROFORM	20.0	96	70 - 130
CHLOROMETHANE	20.0	89	70 - 130
DIBROMOCHLOROMETHANE	20.0	93	70 - 130
1,1-DICHLOROETHANE	20.0	103	70 - 130
1,2-DICHLOROETHANE	20.0	92	70 - 130
1,1-DICHLOROETHENE	20.0	94	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	102	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	103	70 - 130
1,2-DICHLOROPROPANE	20.0	95	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	101	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	97	70 - 130
ETHYLBENZENE	20.0	103	70 - 130
2-HEXANONE	20.0	82	70 - 130
METHYLENE CHLORIDE	20.0	101	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	83	70 - 130
STYRENE	20.0	100	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	93	70 - 130
TETRACHLOROETHENE	20.0	92	70 - 130
TOLUENE	20.0	98	70 - 130
1,1,1-TRICHLOROETHANE	20.0	91	70 - 130
1,1,2-TRICHLOROETHANE	20.0	98	70 - 130
TRICHLOROETHENE	20.0	96	70 - 130
VINYL CHLORIDE	20.0	81	70 - 130
O-XYLENE	20.0	104	70 - 130
M+P-XYLENE	40.0	108	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 529692 ANALYTICAL RUN # : 74263

DATE ANALYZED : 02/05/02
ANALYTICAL DILUTION: 1.0

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
ACETONE	20.0	164	50 - 150
BENZENE	20.0	99	70 - 130
BROMODICHLOROMETHANE	20.0	107	70 - 130
BROMOFORM	20.0	107	70 - 130
BROMOMETHANE	20.0	56	50 - 150
2-BUTANONE (MEK)	20.0	134	50 - 150
CARBON DISULFIDE	20.0	90	70 - 130
CARBON TETRACHLORIDE	20.0	102	70 - 130
CHLOROBENZENE	20.0	97	70 - 130
CHLOROETHANE	20.0	84	70 - 130
'LOROFORM	20.0	99	70 - 130
.ILOROMETHANE	20.0	85	70 - 130
DIBROMOCHLOROMETHANE	20.0	101	70 - 130
1,1-DICHLOROETHANE	20.0	101	70 - 130
1,2-DICHLOROETHANE	20.0	107	70 - 130
1,1-DICHLOROETHENE	20.0	94	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	104	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	101	70 - 130
1,2-DICHLOROPROPANE	20.0	97	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	102	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	99	70 - 130
ETHYLBENZENE	20.0	97	70 - 130
2-HEXANONE	20.0	94	70 - 130
METHYLENE CHLORIDE	20.0	97	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	110	70 - 130
STYRENE	20.0	99	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	103	70 - 130
TETRACHLOROETHENE	20.0	103	70 - 130
TOLUENE	20.0	96	70 - 130
1,1,1-TRICHLOROETHANE	20.0	95	70 - 130
1,1,2-TRICHLOROETHANE	20.0	99	70 - 130
TRICHLOROETHENE	20.0	99	70 - 130
VINYL CHLORIDE	20.0	89	70 - 130
O-XYLENE	20.0	97	70 - 130
M+P-XYLENE	40.0	99	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 529688 ANALYTICAL RUN # : 74263

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 2/ 5/2002			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	96	50 - 150
BENZENE	20.0	99	70 - 130
BROMODICHLOROMETHANE	20.0	106	70 - 130
BROMOFORM	20.0	83	70 - 130
BROMOMETHANE	20.0	89	50 - 150
2-BUTANONE (MEK)	20.0	85	50 - 150
CARBON DISULFIDE	20.0	100	70 - 130
CARBON TETRACHLORIDE	20.0	102	70 - 130
CHLOROBENZENE	20.0	97	70 - 130
CHLOROETHANE	20.0	91	70 - 130
LOROFORM	20.0	107	70 - 130
LOROMETHANE	20.0	87	70 - 130
DIBROMOCHLOROMETHANE	20.0	94	70 - 130
1,1-DICHLOROETHANE	20.0	109	70 - 130
1,2-DICHLOROETHANE	20.0	110	70 - 130
1,1-DICHLOROETHENE	20.0	88	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	106	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	104	70 - 130
1,2-DICHLOROPROPANE	20.0	95	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	111	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	112	70 - 130
ETHYLBENZENE	20.0	101	70 - 130
2-HEXANONE	20.0	77	70 - 130
METHYLENE CHLORIDE	20.0	102	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	78	70 - 130
STYRENE	20.0	102	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	92	70 - 130
TETRACHLOROETHENE	20.0	83	70 - 130
TOLUENE	20.0	102	70 - 130
1,1,1-TRICHLOROETHANE	20.0	112	70 - 130
1,1,2-TRICHLOROETHANE	20.0	97	70 - 130
TRICHLOROETHENE	20.0	92	70 - 130
VINYL CHLORIDE	20.0	84	70 - 130
O-XYLENE	20.0	107	70 - 130
M+P-XYLENE	40.0	108	70 - 130

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MET BLK MED-1

Lab Name: CAS-ROC Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID: Q7255.D Lab Sample ID: 529699 125

Date Analyzed: 01/29/02 Time Analyzed: 08:33

GC Column: ZB624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS#6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS	529700 1.0	Q7256.D	09:09
02	ST-SLU DL	526219	Q7268.D	18:07

COMMENTS

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MET BLK1

Lab Name: CAS/ROCH Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID: B9562.D Lab Sample ID: 529262 1.0

Date Analyzed: 02/01/02 Time Analyzed: 18:14

GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N YCR 2/26

Instrument ID: MS#3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS1	529263 1.0	B9563.D	18:50
02	SWD-S-1-2/4	526216 0.75	B9564.D	19:28
03	SR-S-3-2/6	526214 0.85	B9565.D	20:04
04	SR-S-3-6/10	526213 0.84	B9566.D	20:41
05	SR-S-3-6/10(MS)	529264 0.95	B9567.D	21:17
06	SR-S-3-6/10(MSD	529265 0.95	B9568.D	21:54

COMMENTS

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MET BLK2

Lab Name: CAS/ROCH Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID: B9575.D Lab Sample ID: 529266 1.0

Date Analyzed: 02/02/02 Time Analyzed: 13:02

GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: MS#3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS2	529267 1.0	B9576.D	13:39
02	SR-S-3-2/6-FD	526215 0.82	B9577.D	14:16
03	SMWB-SLU	526223 4.9	B9578.D	14:53
04	SI-S-4-6/10	526217 0.68	B9579.D	15:30
05	SI-S-1-10/14	526218 0.70	B9580.D	16:07
06	HWSC-SLU	526220 0.68	B9581.D	16:44
07	BAC-SLU	526221 3.82	B9582.D	17:20
08	SI-S-4-10/14	526222 0.73	B9583.D	17:57
09	OS-S-1-6/10	526027 0.70	B9584.D	18:33
10	OS-S-1-0/2	526028 0.80	B9585.D	19:09
11	MTS-GB-SLU2-FD	526208 1.73	B9586.D	19:46
12	MTS-GB-SLU-4	526210 0.86	B9587.D	20:23
13	MTS-GB-SLU-2	526211 1.77	B9588.D	21:00
14	MTS-GB-SLU-1	526212 0.69	B9589.D	21:37
15	OS-S-2-0/2	526504 0.66	B9590.D	22:14
16	ST-SLU	526219 1.28	B9591.D	22:51

COMMENTS

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MET BLK MED-2

Lab Name: CAS-ROC Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID: Q7348.D Lab Sample ID: 529695 125

Date Analyzed: 02/03/02 Time Analyzed: 13:38

GC Column: ZB624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS#6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS	529696 1.0	Q7349.D	14:11
02	HWSC-SLU DL	526220 46.0	Q7350.D	14:45
03	SMWB-SLU DL	526223 540.0	Q7351.D	15:18

COMMENTS

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MET BLK3

Lab Name: CAS/ROCH Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID: B9606.D Lab Sample ID: 529268 1.0

Date Analyzed: 02/04/02 Time Analyzed: 12:26

GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) ~~N~~ Y CR 2/26

Instrument ID: MS#3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS3	529269 1.0	B9608.D	13:39
02	OS-S-1-10/14	526025 0.68	B9609.D	14:16
03	MTS-GB-SLU-3	526209 0.64	B9612.D	16:04
04	MTS-GB-SLU-3(MS)	529270 0.73	B9613.D	16:40
05	MTS-GB-SLU-3(MSD)	529271 0.67	B9614.D	17:16
06	SI-S-4-6/10(REP)	526217 0.72	B9616.D	18:29

COMMENTS

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MET BLK MED-3

Lab Name: CAS-ROC Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID: Q7364.D Lab Sample ID: 529697 125

Date Analyzed: 02/04/02 Time Analyzed: 13:27

GC Column: ZB624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS#6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS	529698 1.0	Q7365.D	14:14
02	MTS-GB-SLU-3DL	526209	Q7372.D	18:39

COMMENTS

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MET BLK4

Lab Name: CAS/ROCH Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID: B9624.D Lab Sample ID: 529273 1.0

Date Analyzed: 02/05/02 Time Analyzed: 12:05

GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: MS#3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS4	529273 1.0	B9626.D	13:16
02	MTS-GB-SLU2-FD	526208 1.80	B9632.D	16:50
03	MTS-GB-SLU-4(R	526210 0.85	B9633.D	17:26
04	MTS-GB-SLU-2(R	526211 1.44	B9634.D	18:03
05	MTS-GB-SLU-1(R	526212 0.47	B9635.D	18:39

COMMENTS

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MET BLK MED-4

Lab Name: CAS-ROC Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID: Q7389.D Lab Sample ID: 529687 125

Date Analyzed: 02/05/02 Time Analyzed: 14:15

GC Column: ZB624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS#6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS	529688 1.0	Q7390.D	14:49
02	OS-S-1-2/6	526026	Q7391.D	15:45

COMMENTS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: SDG No.: OS-S-1

Lab File ID: B9550.D BFB Injection Date: 02/01/02

Instrument ID: MS#3 BFB Injection Time: 10:22

GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) ~~N~~ Y 2/2/02

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.5
75	30.0 - 66.0% of mass 95	42.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	70.6
175	4.0 - 9.0% of mass 174	5.4 (7.6)1
176	93.0 - 101.0% of mass 174	71.0 (100.5)1
177	5.0 - 9.0% of mass 176	5.1 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	020	20 PPB	B9553.D	02/01/02	12:18
02	050	50 PPB	B9554.D	02/01/02	12:54
03	100	100 PPB	B9555.D	02/01/02	13:30
04	150	150 PPB	B9556.D	02/01/02	14:05
05	200	200 PPB	B9557.D	02/01/02	14:41
06	005	5 PPB	B9559.D	02/01/02	16:09

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS-ROC Contract: _____

Lab Code: 10145 Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: Q7205.D BFB Injection Date: 01/24/02

Instrument ID: GCMS#6 BFB Injection Time: 10:18

GC Column: ZB624 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	26.0
75	30.0 - 66.0% of mass 95	41.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.8
173	Less than 2.0% of mass 174	0.7 (0.9)1
174	50.0 - 120.0% of mass 95	82.5
175	4.0 - 9.0% of mass 174	5.7 (6.9)1
176	93.0 - 101.0% of mass 174	80.1 (97.2)1
177	5.0 - 9.0% of mass 176	7.2 (9.0)2

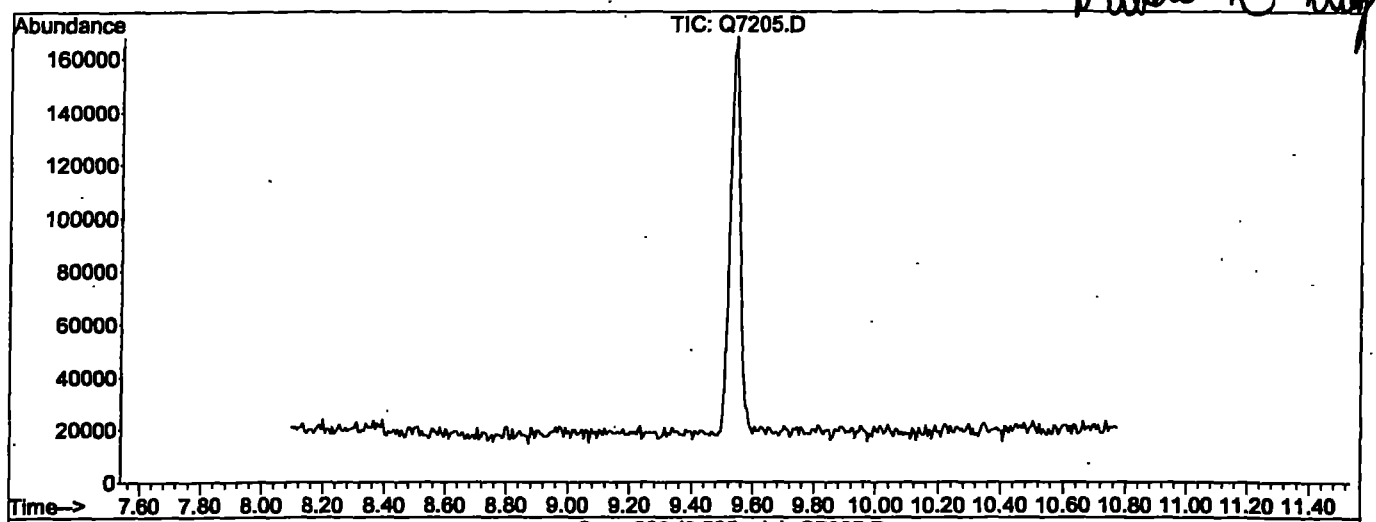
1-Value is % mass 174 2-Value is % mass 176

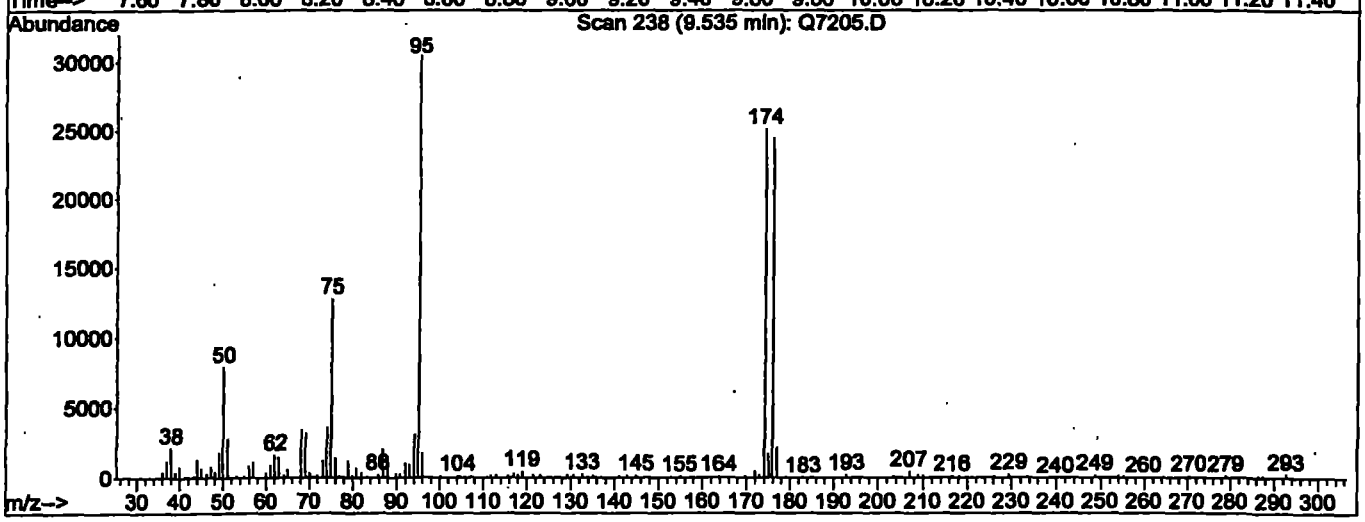
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD001	1PPB	Q7207.D	01/24/02	11:29
02	VSTD005	5PPB	Q7208.D	01/24/02	12:03
03	VSTD020	20PPB	Q7209.D	01/24/02	12:38
04	VSTD050	50PPB	Q7210.D	01/24/02	13:23
05	VSTD100	100PPB	Q7211.D	01/24/02	13:57
06	VSTD150	150PPB	Q7212.D	01/24/02	14:51
07	VSTD200	200PPB	Q7213.D	01/24/02	15:25

BFB

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7205.D Vial: 86
Acq On : 24 Jan 2002 10:18 am Operator: B.ALLGEIER
Sample : TUNE Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0116.M (RTE Integrator)
Title : 8260B WATERS





Spectrum Information: Scan 238

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.0	7922	PASS
75	95	30	60	41.8	12747	PASS
95	95	100	100	100.0	30504	PASS
96	95	5	9	5.8	1770	PASS
173	174	0.00	2	0.9	228	PASS
174	95	50	120	82.5	25152	PASS
175	174	5	9	6.9	1729	PASS
176	174	95	101	97.2	24448	PASS
177	176	5	9	9.0	2193	PASS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS-ROC Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID: Q7251.D BFB Injection Date: 01/29/02

Instrument ID: GCMS#6 BFB Injection Time: 06:15

GC Column: ZB624 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.3
75	30.0 - 66.0% of mass 95	44.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	80.6
175	4.0 - 9.0% of mass 174	6.3 (7.8)1
176	93.0 - 101.0% of mass 174	77.3 (95.9)1
177	5.0 - 9.0% of mass 176	5.2 (6.7)2

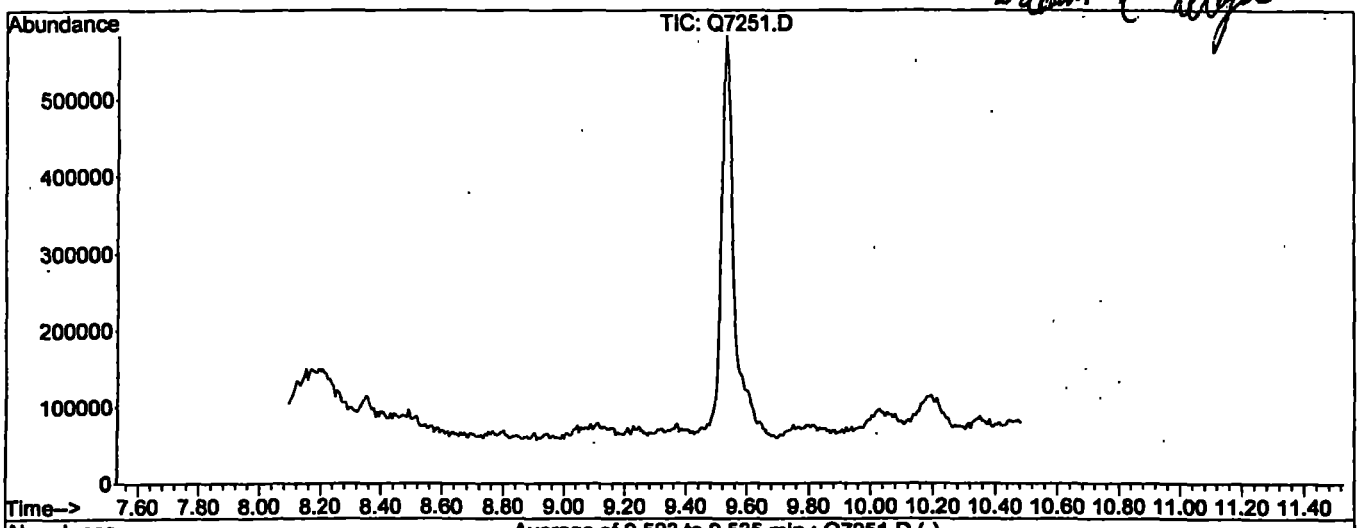
1-Value is % mass 174 2-Value is % mass 176

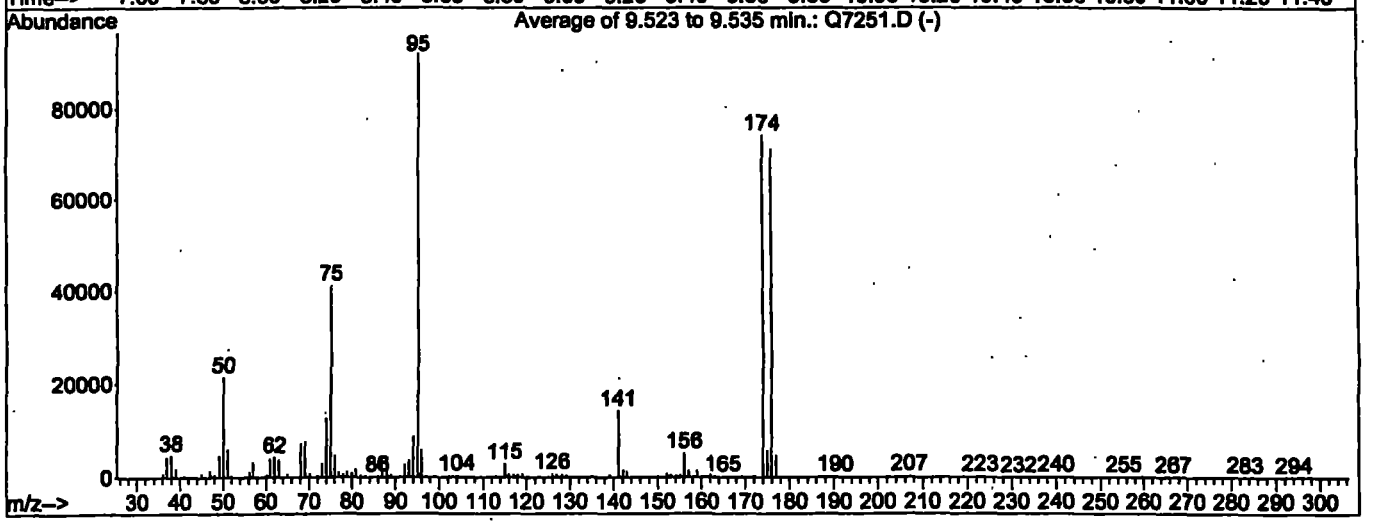
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	CCV	Q7252.D	01/29/02	06:45
02	MET BLK MED-1	529699 125	Q7255.D	01/29/02	08:33
03	LCS	529700 1.0	Q7256.D	01/29/02	09:09
04	ST-SLU DL	526219	Q7268.D	01/29/02	18:07

BFB

Data File : J:\ACQUDATA\MSVOA6\DATA\012902\Q7251.D Vial: 1
Acq On : 29 Jan 2002 6:15 am Operator: B.ALLGEIER
Sample : TUNE Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS





AutoFind: Scans 236, 237, 238; Background Corrected with Scan 227

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.3	21461	PASS
75	95	30	60	44.6	41088	PASS
95	95	100	100	100.0	92112	PASS
96	95	5	9	6.5	5997	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	80.6	74246	PASS
175	174	5	9	7.8	5790	PASS
176	174	95	101	95.9	71173	PASS
177	176	5	9	6.7	4770	PASS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID: B9550.D BFB Injection Date: 02/01/02

Instrument ID: MS#3 BFB Injection Time: 10:22

GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N/4/02/26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.5
75	30.0 - 66.0% of mass 95	42.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	70.6
175	4.0 - 9.0% of mass 174	5.4 (7.6)1
176	93.0 - 101.0% of mass 174	71.0 (100.5)1
177	5.0 - 9.0% of mass 176	5.1 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

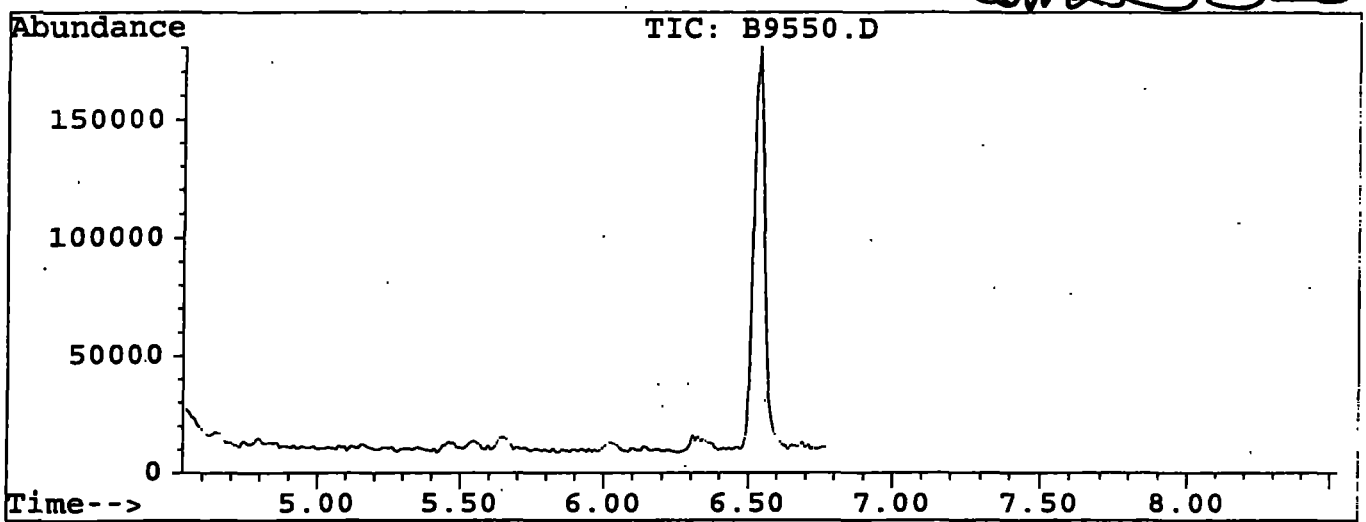
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV1	50 PPB	B9554.D	02/01/02	12:54
02	MET BLK1	529262 1.0	B9562.D	02/01/02	18:14
03	LCS1	529263 1.0	B9563.D	02/01/02	18:50
04	SWD-S-1-2/4	526216 0.75	B9564.D	02/01/02	19:28
05	SR-S-3-2/6	526214 0.85	B9565.D	02/01/02	20:04
06	SR-S-3-6/10	526213 0.84	B9566.D	02/01/02	20:41
07	SR-S-3-6/10(MS)	529264 0.95	B9567.D	02/01/02	21:17
08	SR-S-3-6/10(MSD	529265 0.95	B9568.D	02/01/02	21:54

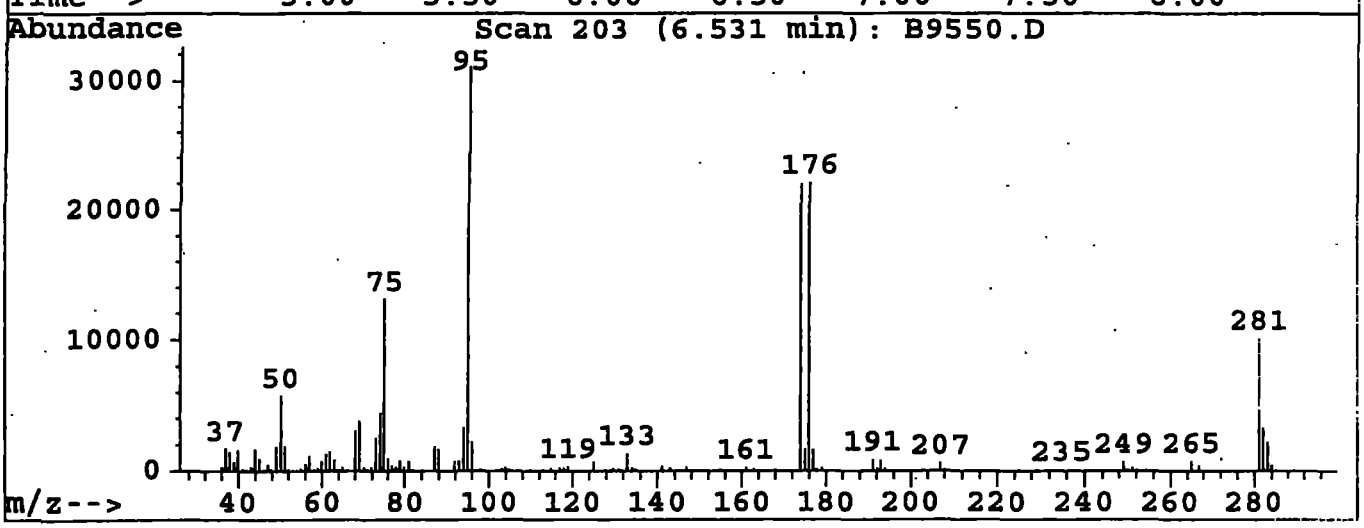
BFB

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9550.D
Acq On : 1 Feb 102 10:22 am
Sample : TUNE CHECK
Misc : SOIL SIDE

Vial: 4
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\EXP1217.M
Title : 8260voa





Peak Apex is scan: 203

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	5749	PASS
75	95	30	60	42.1	13106	PASS
95	95	100	100	100.0	31096	PASS
96	95	5	9	7.1	2196	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	70.6	21952	PASS
175	174	5	9	7.6	1664	PASS
176	174	95	101	100.5	22072	PASS
177	176	5	9	7.2	1597	PASS

B9550.D EXP1217.M Fri Feb 01 10:29:32 2002

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID: B9572.D BFB Injection Date: 02/02/02

Instrument ID: MS#3 BFB Injection Time: 11:08

GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.8
75	30.0 - 66.0% of mass 95	43.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	68.1
175	4.0 - 9.0% of mass 174	4.6 (6.7)1
176	93.0 - 101.0% of mass 174	67.5 (99.1)1
177	5.0 - 9.0% of mass 176	4.4 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

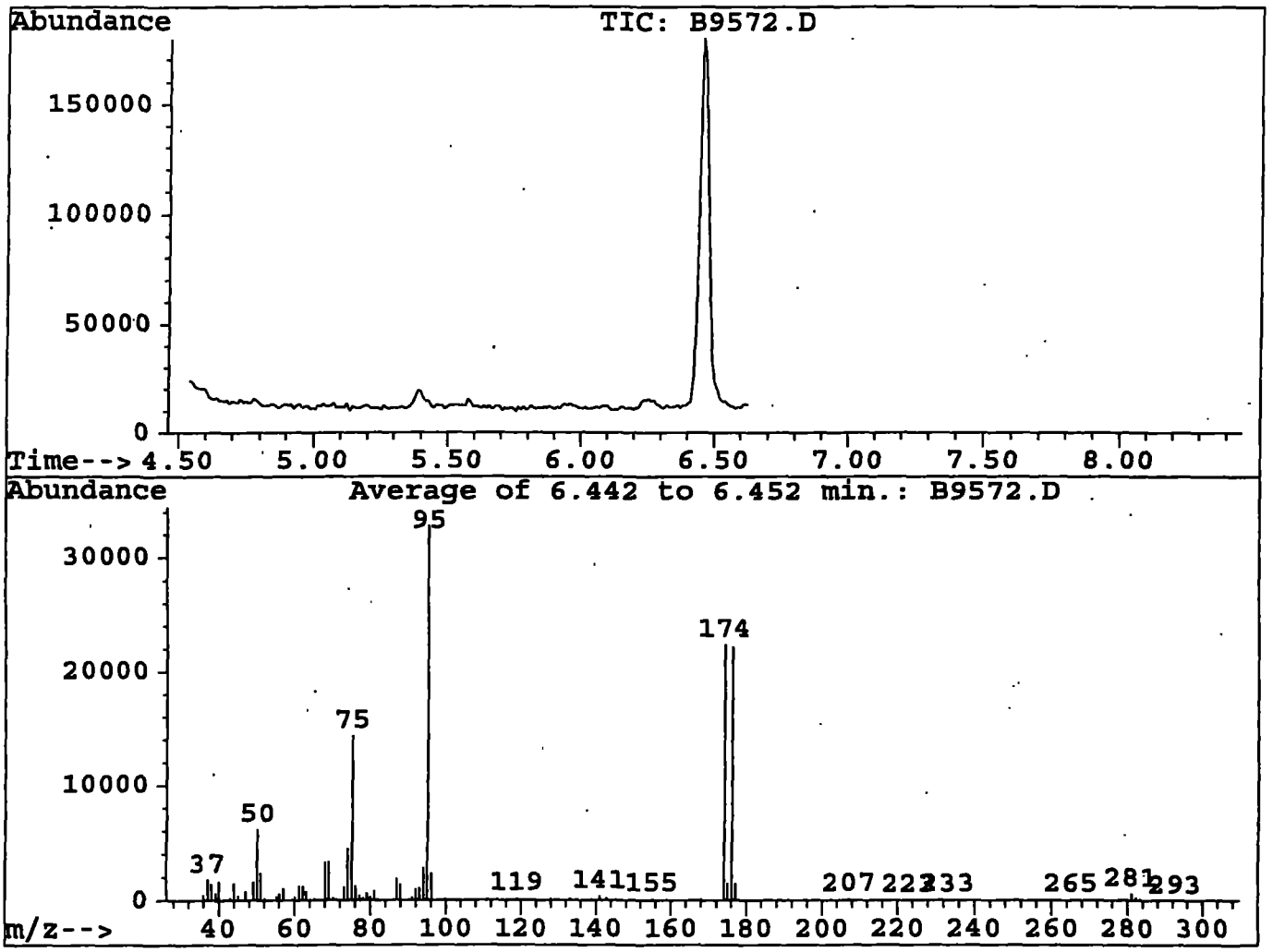
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV2	CCV	B9573.D	02/02/02	11:44
02	MET BLK2	529266 1.0	B9575.D	02/02/02	13:02
03	LCS2	529267 1.0	B9576.D	02/02/02	13:39
04	SR-S-3-2/6-FD	526215 0.82	B9577.D	02/02/02	14:16
05	SMWB-SLU	526223 4.9	B9578.D	02/02/02	14:53
06	SI-S-4-6/10	526217 0.68	B9579.D	02/02/02	15:30
07	SI-S-1-10/14	526218 0.70	B9580.D	02/02/02	16:07
08	HWSC-SLU	526220 0.68	B9581.D	02/02/02	16:44
09	BAC-SLU	526221 3.82	B9582.D	02/02/02	17:20
10	SI-S-4-10/14	526222 0.73	B9583.D	02/02/02	17:57
11	OS-S-1-6/10	526027 0.70	B9584.D	02/02/02	18:33
12	OS-S-1-0/2	526028 0.80	B9585.D	02/02/02	19:09
13	MTS-GB-SLU2-FD	526208 1.73	B9586.D	02/02/02	19:46
14	MTS-GB-SLU-4	526210 0.86	B9587.D	02/02/02	20:23
15	MTS-GB-SLU-2	526211 1.77	B9588.D	02/02/02	21:00
16	MTS-GB-SLU-1	526212 0.69	B9589.D	02/02/02	21:37
17	OS-S-2-0/2	526504 0.66	B9590.D	02/02/02	22:14
18	ST-SLU	526219 1.28	B9591.D	02/02/02	22:51

BFB

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9572.D
Acq On : 2 Feb 102 11:08 am
Sample : TUNE CHECK
Misc :

Vial: 3
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa



Peak Apex is scan: 196

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	6164	PASS
75	95	30	60	43.6	14316	PASS
95	95	100	100	100.0	32820	PASS
96	95	5	9	7.0	2295	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	68.1	22364	PASS
175	174	5	9	6.7	1506	PASS
176	174	95	101	99.1	22164	PASS
177	176	5	9	6.5	1445	PASS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS-ROC Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID: Q7344.D BFB Injection Date: 02/03/02

Instrument ID: GCMS#6 BFB Injection Time: 11:11

GC Column: ZB624 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	26.4
75	30.0 - 66.0% of mass 95	40.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	86.7
175	4.0 - 9.0% of mass 174	6.7 (7.7)1
176	93.0 - 101.0% of mass 174	86.6 (99.9)1
177	5.0 - 9.0% of mass 176	7.0 (8.1)2

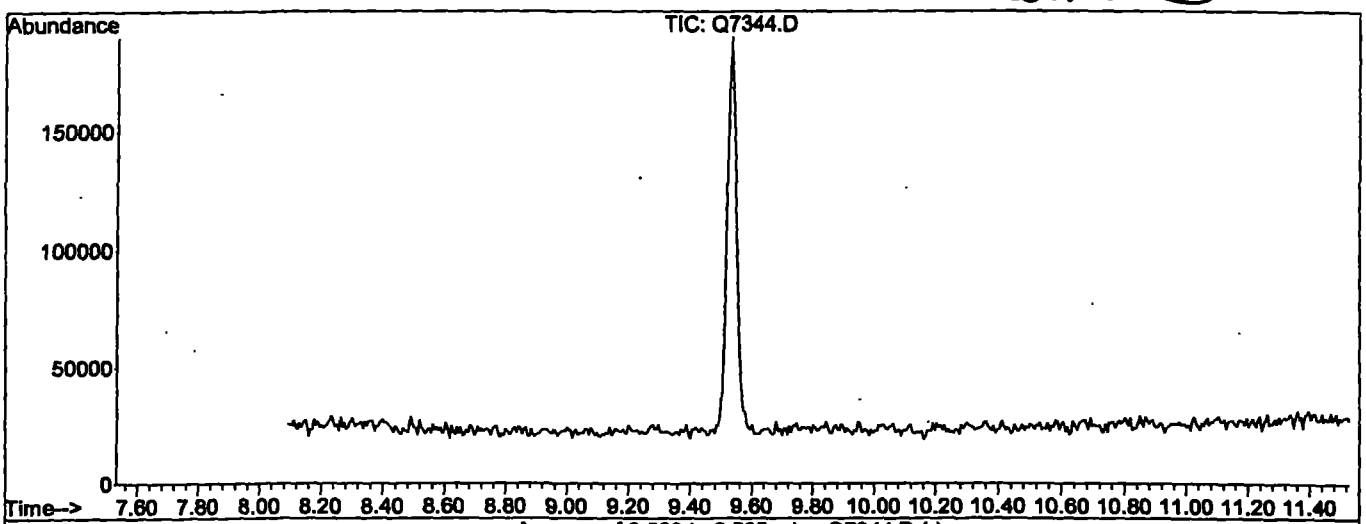
1-Value is % mass 174 2-Value is % mass 176

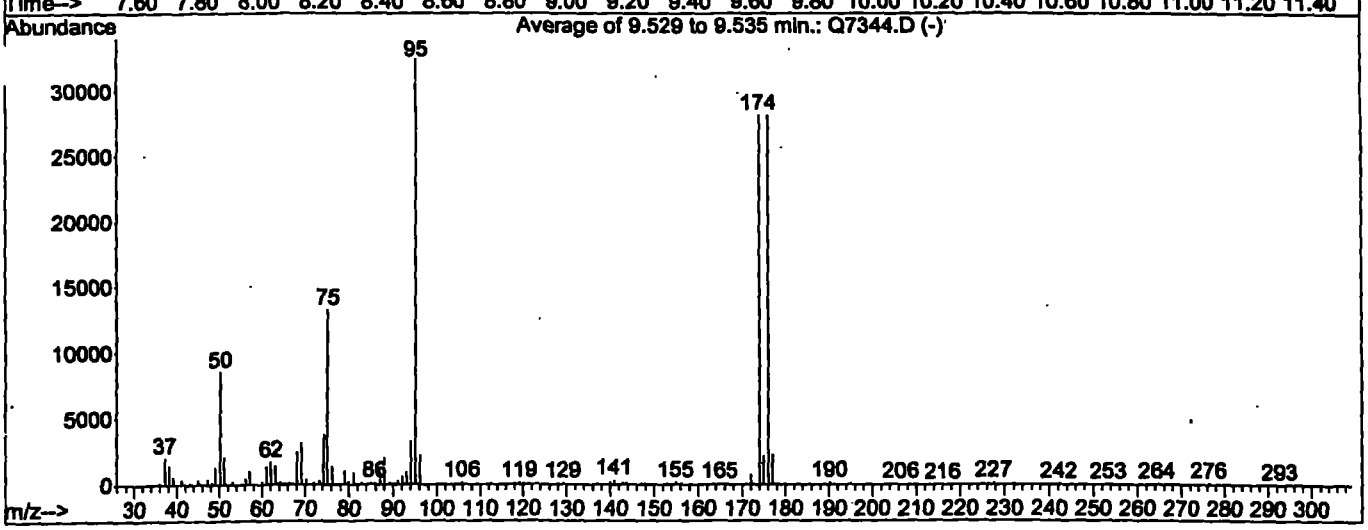
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	CCV	Q7346.D	02/03/02	12:21
02	MET BLK MED-2	529695 125	Q7348.D	02/03/02	13:38
03	LCS	529696 1.0	Q7349.D	02/03/02	14:11
04	HWSC-SLU DL	526220 46.0	Q7350.D	02/03/02	14:45
05	SMWB-SLU DL	526223 540.0	Q7351.D	02/03/02	15:18

BFB

Data File : J:\ACQUDATA\MSVOA6\DATA\020302\Q7344.D Vial: 2
Acq On : 3 Feb 2002 11:11 am Operator: TTRAVER
Sample : TUNE CHECK Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS





Spectrum Information: Average of 9.529 to 9.535 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.4	8567	PASS
75	95	30	60	40.7	13240	PASS
95	95	100	100	100.0	32500	PASS
96	95	5	9	6.9	2237	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	86.7	28179	PASS
175	174	5	9	7.7	2169	PASS
176	174	95	101	99.9	28152	PASS
177	176	5	9	8.1	2284	PASS

Q7344.D EXP0124.M Sun Feb 03 11:32:32 2002

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID: B9602.D BFB Injection Date: 02/04/02

Instrument ID: MS#3 BFB Injection Time: 09:48

GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) ~~Y~~ N 8/26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.2
75	30.0 - 66.0% of mass 95	40.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	90.0
175	4.0 - 9.0% of mass 174	7.0 (7.8)1
176	93.0 - 101.0% of mass 174	90.0 (100.0)1
177	5.0 - 9.0% of mass 176	5.3 (5.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

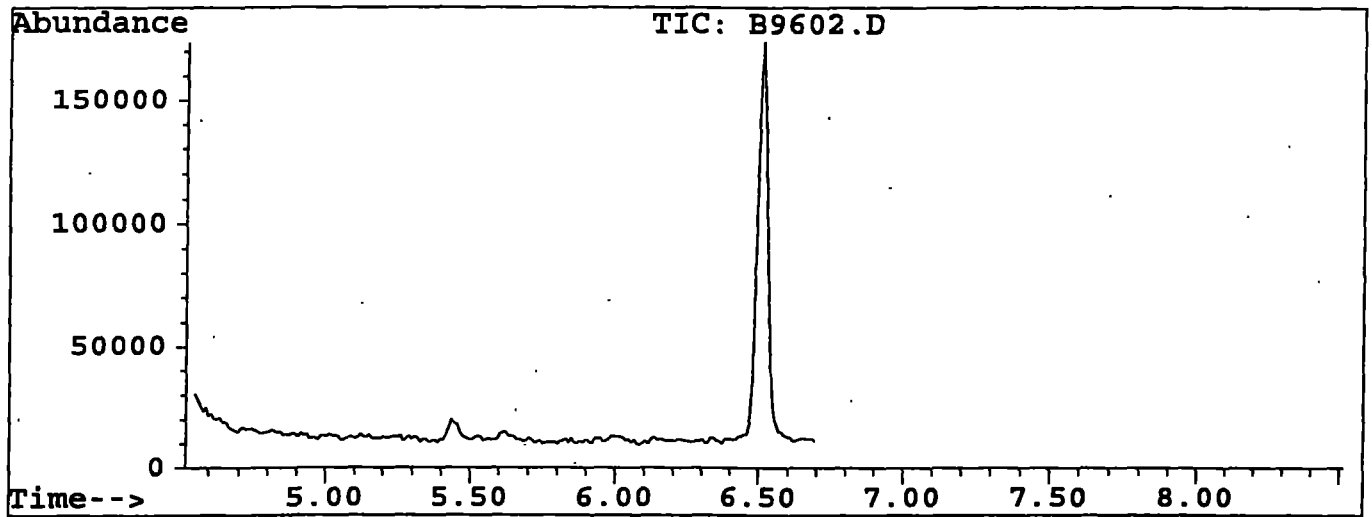
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV3	CCV	B9603.D	02/04/02	10:24
02	MET BLK3	529268 1.0	B9606.D	02/04/02	12:26
03	LCS3	529269 1.0	B9608.D	02/04/02	13:39
04	OS-S-1-10/14	526025 0.68	B9609.D	02/04/02	14:16
05	MTS-GB-SLU-3	526209 0.64	B9612.D	02/04/02	16:04
06	MTS-GB-SLU-3(M	529270 0.73	B9613.D	02/04/02	16:40
07	MTS-GB-SLU-3(M	529271 0.67	B9614.D	02/04/02	17:16
08	SI-S-4-6/10(REP)	526217 0.72	B9616.D	02/04/02	18:29

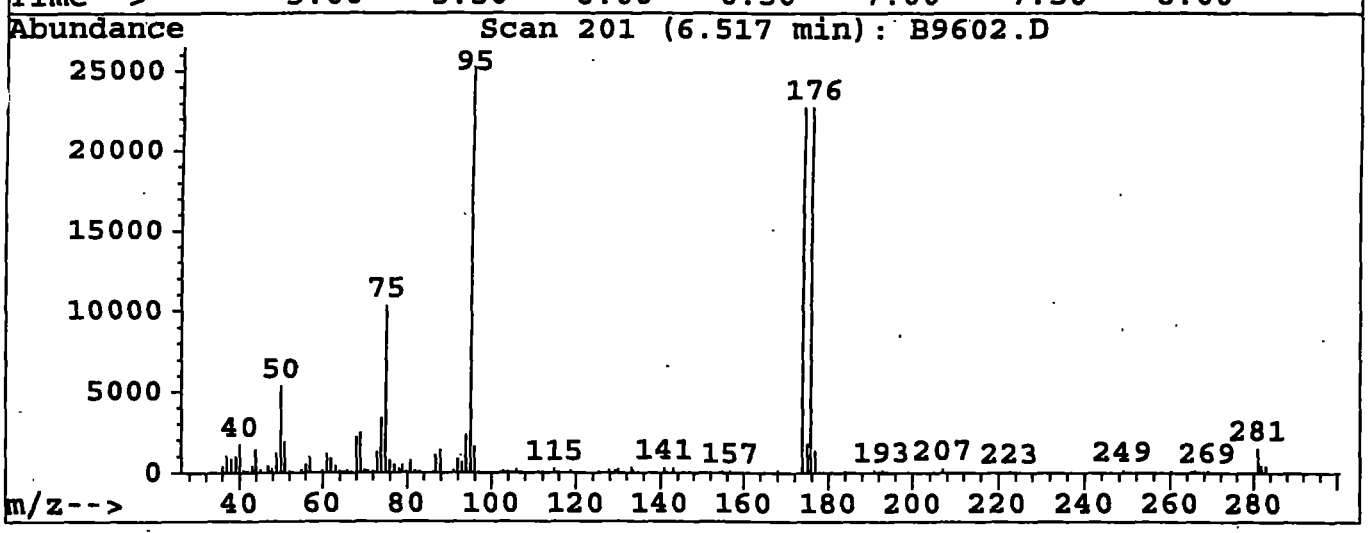
BFB

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9602.D
Acq On : 4 Feb 102 9:48 am
Sample : TUNE CHECK
Misc :

Vial: 4
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\EXP1217.M
Title : 8260voa





Peak Apex is scan: 201

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.2	5361	PASS
75	95	30	60	40.9	10331	PASS
95	95	100	100	100.0	25248	PASS
96	95	5	9	6.3	1600	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	90.0	22712	PASS
175	174	5	9	7.8	1779	PASS
176	174	95	101	100.0	22720	PASS
177	176	5	9	5.9	1330	PASS

B9602.D EXP1217.M Mon Feb 04 09:56:06 2002

2/4

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS-ROC Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: SDG No.: OS-S-1

Lab File ID: Q7361.D BFB Injection Date: 02/04/02

Instrument ID: GCMS#6 BFB Injection Time: 10:42

GC Column: ZB624 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.2
75	30.0 - 66.0% of mass 95	36.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.8
173	Less than 2.0% of mass 174	0.9 (1.0)1
174	50.0 - 120.0% of mass 95	89.1
175	4.0 - 9.0% of mass 174	7.9 (8.9)1
176	93.0 - 101.0% of mass 174	85.0 (95.4)1
177	5.0 - 9.0% of mass 176	4.5 (5.3)2

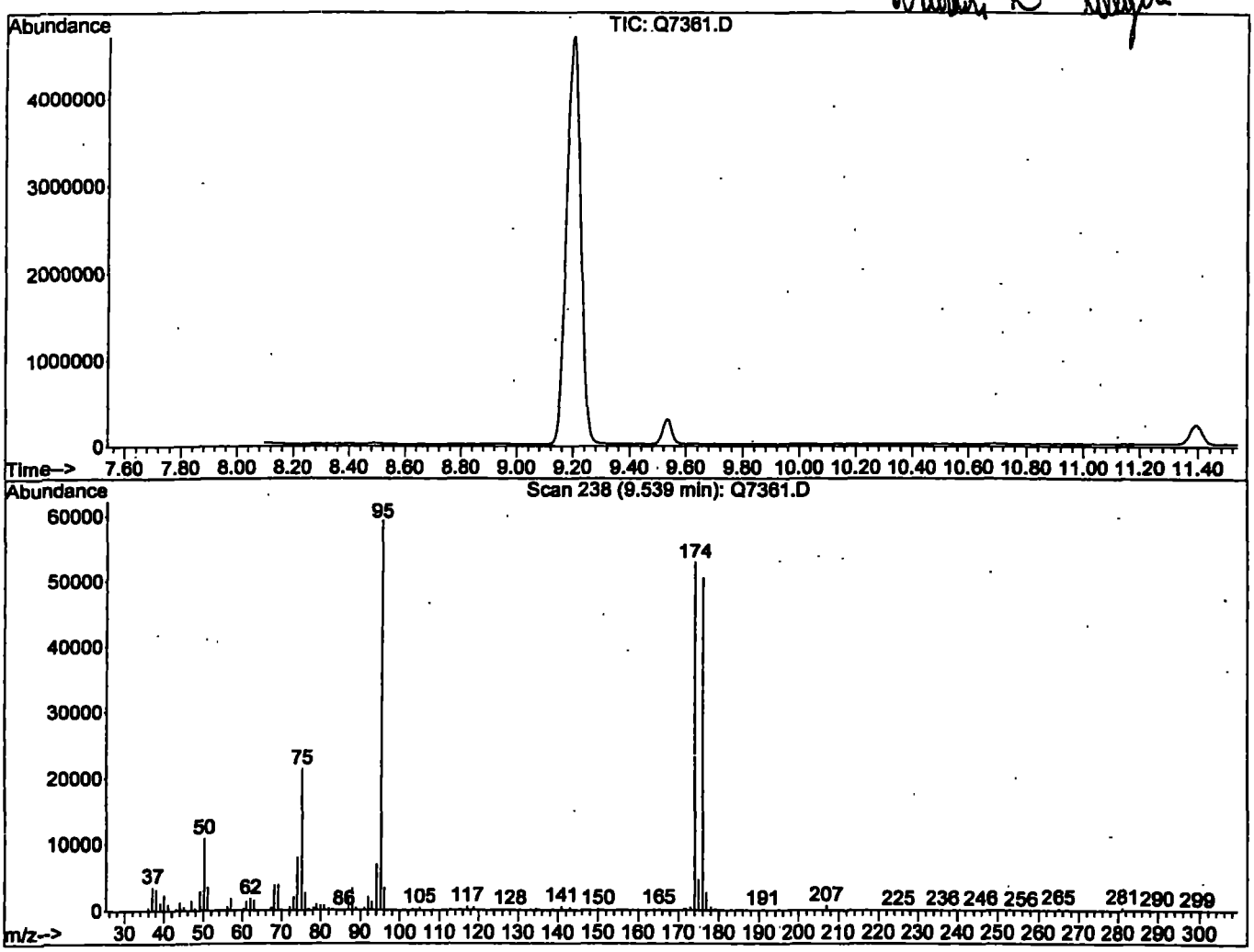
1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	CCV	Q7362.D	02/04/02	11:30
02	MET BLK MED-3	529697 125	Q7364.D	02/04/02	13:27
03	LCS	529698 1.0	Q7365.D	02/04/02	14:14
04	MTS-GB-SLU-3DL	526209	Q7372.D	02/04/02	18:39

BFB

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7361.D Vial: 2
Acq On : 4 Feb 2002 10:42 am Operator: BALLGEIER
Sample : TUNE Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS



Spectrum Information: Scan 238

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	10789	PASS
75	95	30	60	36.1	21392	PASS
95	95	100	100	100.0	59336	PASS
96	95	5	9	5.8	3462	PASS
173	174	0.00	2	1.0	527	PASS
174	95	50	120	89.1	52872	PASS
175	174	5	9	8.9	4686	PASS
176	174	95	101	95.4	50448	PASS
177	176	5	9	5.3	2691	PASS

Q7361.D EXP0124.M Mon Feb 04 11:13:35 2002

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID: B9619.D BFB Injection Date: 02/05/02

Instrument ID: MS#3 BFB Injection Time: 09:04

GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) ~~N~~ Y 2/26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.1
75	30.0 - 66.0% of mass 95	40.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	79.3
175	4.0 - 9.0% of mass 174	5.0 (6.3)1
176	93.0 - 101.0% of mass 174	79.0 (99.6)1
177	5.0 - 9.0% of mass 176	5.2 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

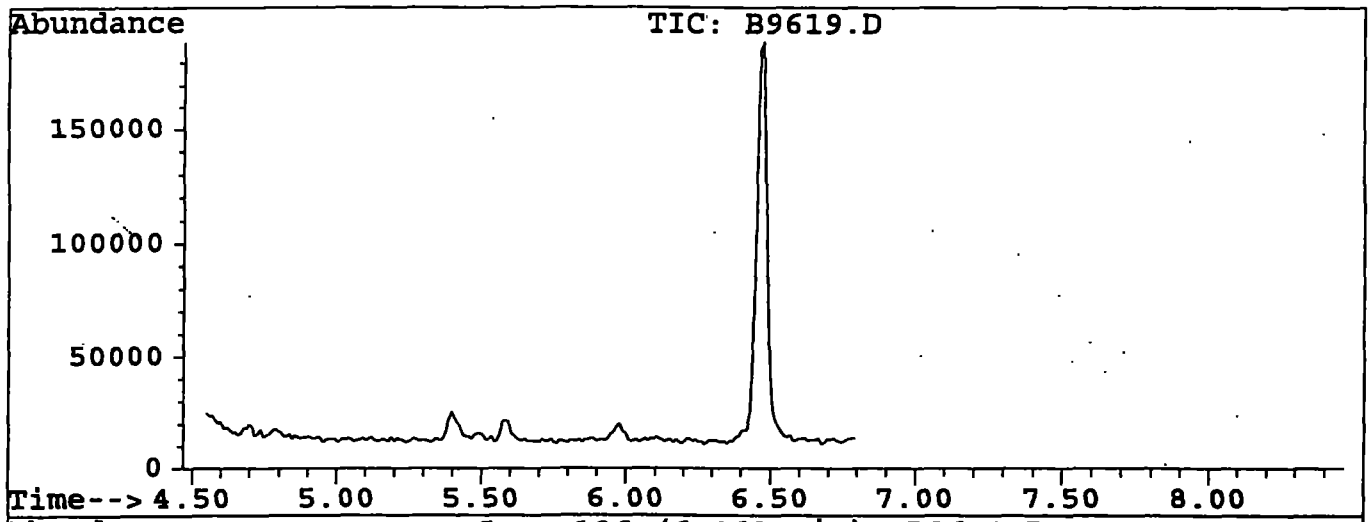
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV4	CCV	B9620.D	02/05/02	09:40
02	MET BLK4	529273 1.0	B9624.D	02/05/02	12:05
03	LCS4	529273 1.0	B9626.D	02/05/02	13:16
04	MTS-GB-SLU2-FD	526208 1.80	B9632.D	02/05/02	16:50
05	MTS-GB-SLU-4(R	526210 0.85	B9633.D	02/05/02	17:26
06	MTS-GB-SLU-2(R	526211 1.44	B9634.D	02/05/02	18:03
07	MTS-GB-SLU-1(R	526212 0.47	B9635.D	02/05/02	18:39

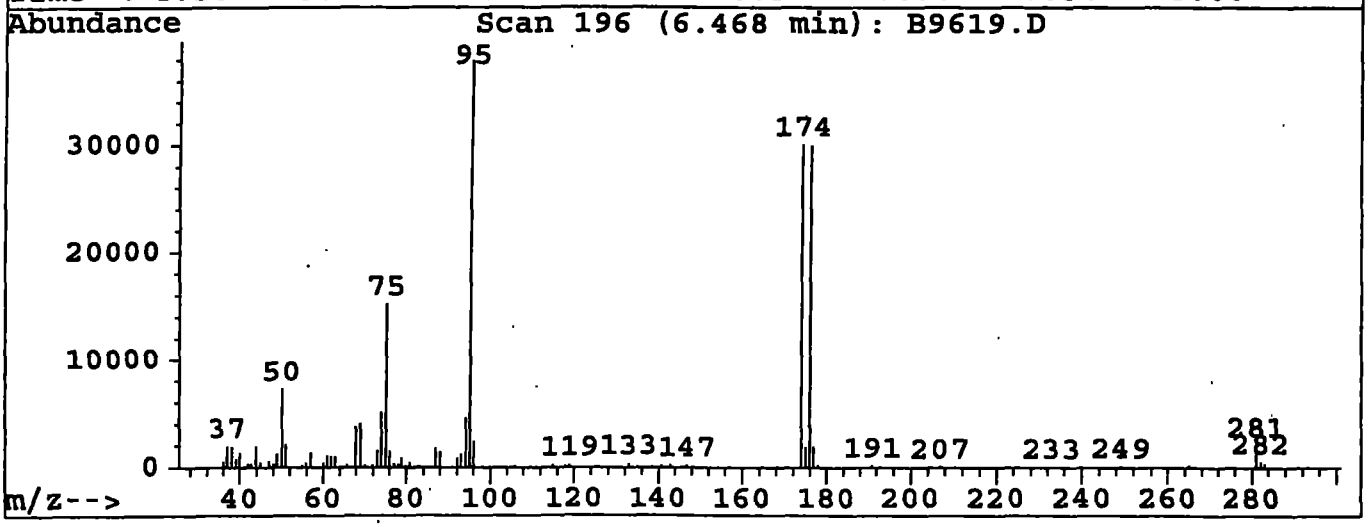
BFB

Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9619.D
Acq On : 5 Feb 102 9:04 am
Sample : TUNE
Misc :

Vial: 12
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\EXP1217.M
Title : 8260voa





Peak Apex is scan: 196

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.1	7242	PASS
75	95	30	60	40.1	15220	PASS
95	95	100	100	100.0	37936	PASS
96	95	5	9	6.5	2457	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	79.3	30096	PASS
175	174	5	9	6.3	1909	PASS
176	174	95	101	99.6	29976	PASS
177	176	5	9	6.6	1986	PASS

B9619.D EXP1217.M Tue Feb 05 09:11:40 2002

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS-ROC Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID: Q7385.D BFB Injection Date: 02/05/02

Instrument ID: GCMS#6 BFB Injection Time: 11:19

GC Column: ZB624 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.7
75	30.0 - 66.0% of mass 95	46.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.6 (0.7)1
174	50.0 - 120.0% of mass 95	82.1
175	4.0 - 9.0% of mass 174	6.6 (8.1)1
176	93.0 - 101.0% of mass 174	81.7 (99.5)1
177	5.0 - 9.0% of mass 176	5.6 (6.8)2

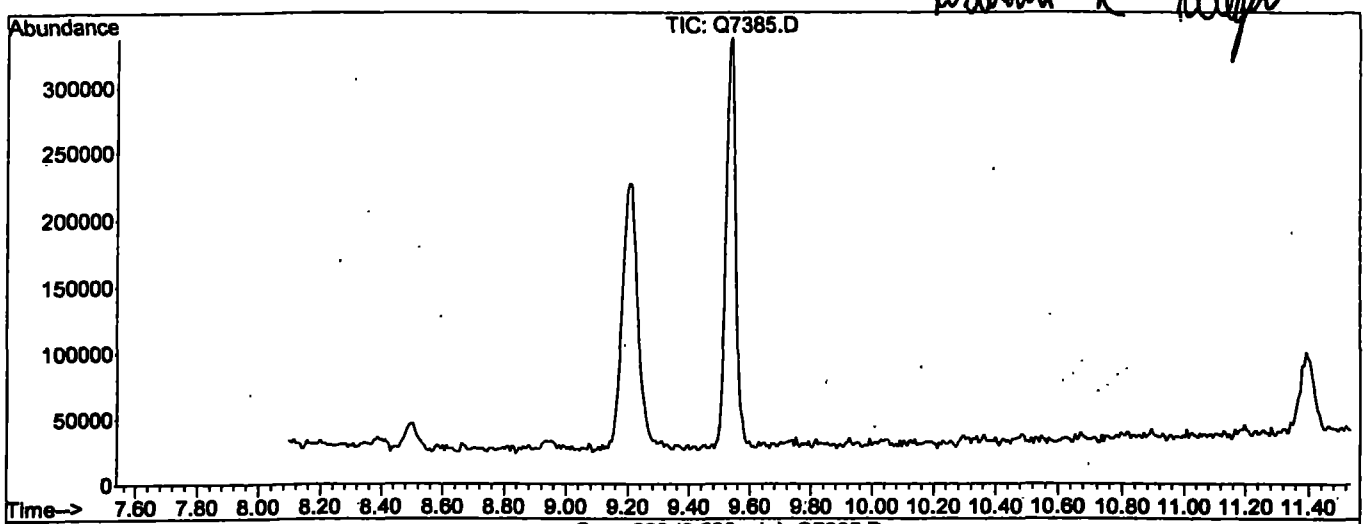
1-Value is % mass 174 2-Value is % mass 176

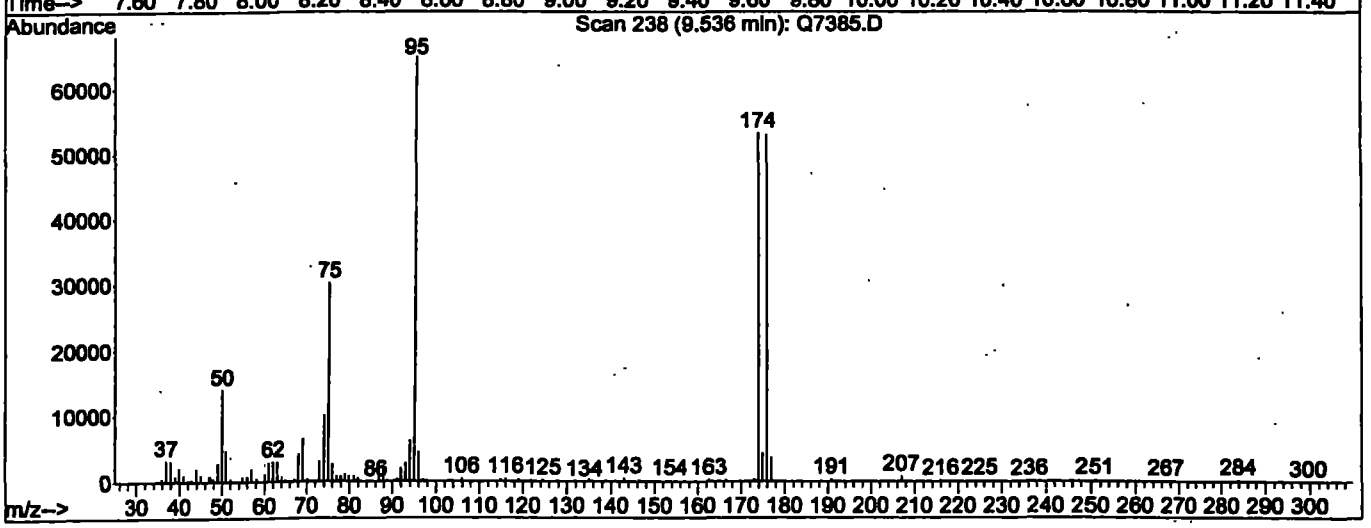
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	CCV	Q7386.D	02/05/02	11:51
02	MET BLK MED-4	529687 125	Q7389.D	02/05/02	14:15
03	LCS	529688 1.0	Q7390.D	02/05/02	14:49
04	OS-S-1-2/6	526026	Q7391.D	02/05/02	15:45

BFB

Data File : J:\ACQUDATA\MSVOA6\DATA\020502\Q7385.D Vial: 26
Acq On : 5 Feb 2002 11:19 am Operator: BALLGEIER
Sample : TUNE Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS





Spectrum Information: Scan 238

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	14078	PASS
75	95	30	60	46.5	30216	PASS
95	95	100	100	100.0	64928	PASS
96	95	5	9	6.8	4432	PASS
173	174	0.00	2	0.7	382	PASS
174	95	50	120	82.1	53328	PASS
175	174	5	9	8.1	4296	PASS
176	174	95	101	99.5	53064	PASS
177	176	5	9	6.8	3620	PASS

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROC Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: SDG No.: OS-S-1

Lab File ID (Standard): Q7252.D Date Analyzed: 01/29/02

Instrument ID: GCMS#6 Time Analyzed: 06:45

GC Column: ZB624 ID: 0.32 (mm) Heated Purge (Y/N): N

	IS1 AREA #	IS1 RT #	IS2 AREA #	IS2 RT #	IS3 AREA #	IS3 RT #
12 HOUR STD	1197883	11.56	1879821	12.92	1586959	18.20
UPPER LIMIT	2395766	12.06	3759642	13.42	3173918	18.70
LOWER LIMIT	598942	11.06	939911	12.42	793480	17.70
EPA SAMPLE NO.						
01 MET BLK MED-1	1135978	11.56	1827484	12.92	1580698	18.20
02 LCS	1170200	11.56	1853339	12.92	1569885	18.20
03 ST-SLU DL	1266418	11.57	2072105	12.93	1788600	18.20

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = d5-Chlorobenzene
IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROC Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID (Standard): Q7252.D Date Analyzed: 01/29/02

Instrument ID: GCMS#6 Time Analyzed: 06:45

GC Column: ZB624 ID: 0.32 (mm) Heated Purge (Y/N): Y N (R) 2/25

		IS4 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	812143	22.52				
	UPPER LIMIT	1624286	22.02				
	LOWER LIMIT	406072	23.02				
	EPA SAMPLE NO.						
01	MET BLK ME	801151	22.52				
02	LCS	800461	22.53				
03	ST-SLU DL	888133	22.52				

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = d5-Chlorobenzene
IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID (Standard): B9554.D Date Analyzed: 02/01/02

Instrument ID: MS#3 Time Analyzed: 12:54

GC Column: DB-624 ID: 0.32 (mm) Heated Purge (Y/N): ~~N~~ Y 2/26

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	572524	7.41	1172328	8.59	904626	13.68
	UPPER LIMIT	1145048	6.91	2344656	8.09	1809252	13.18
	LOWER LIMIT	286262	7.91	586164	9.09	452313	14.18
	EPA SAMPLE NO.						
01	MET BLK1	762512	7.37	1477740	8.55	1108361	13.64
02	LCS1	816839	7.37	1551794	8.55	1169887	13.63
03	SWD-S-1-2/4	821789	7.36	1613503	8.54	1213474	13.63
04	SR-S-3-2/6	820234	7.35	1584824	8.53	1187987	13.62
05	SR-S-3-6/10	776701	7.35	1543825	8.53	1156635	13.61
06	SR-S-3-6/10(MS	791427	7.35	1549954	8.53	1169907	13.61
07	SR-S-3-6/10(MSD	827346	7.34	1603769	8.52	1209681	13.61

IS1 = Pentafluorobenzene
IS2 = 1,4 - Difluorobenzene
IS3 = d5 - Chlorobenzene
IS4 = d4 - Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID (Standard): B9554.D Date Analyzed: 02/01/02

Instrument ID: MS#3 Time Analyzed: 12:54

GC Column: DB-624 ID: 0.32 (mm) Heated Purge (Y/N): N

		IS4 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	373691	18.13				
	UPPER LIMIT	747382	17.63				
	LOWER LIMIT	186846	18.63				
	EPA SAMPLE NO.						
01	MET BLK1	448199	18.08				
02	LCS1	466556	18.08				
03	SWD-S-1-2/4	490085	18.06				
04	SR-S-3-2/6	493223	18.06				
05	SR-S-3-6/10	462856	18.06				
06	SR-S-3-6/10(MC	475099	18.05				
07	SR-S-3-6/10(MSD	485731	18.05				

IS1 = Pentafluorobenzene
IS2 = 1,4 - Difluorobenzene
IS3 = d5 - Chlorobenzene
IS4 = d4 - Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID (Standard): B9573.D Date Analyzed: 02/02/02

Instrument ID: MS#3 Time Analyzed: 11:44

GC Column: DB-624 ID: 0.32 (mm) Heated Purge (Y/N): N

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	845391	7.32	1617136	8.50	1225712	13.58
	UPPER LIMIT	1690782	6.82	3234272	8.00	2451424	13.08
	LOWER LIMIT	422696	7.82	808568	9.00	612856	14.08
	EPA SAMPLE NO.						
01	MET BLK2	784120	7.33	1517317	8.51	1160825	13.60
02	LCS2	794539	7.33	1547292	8.51	1185458	13.59
03	SR-S-3-2/6-FD	828981	7.32	1607084	8.50	1263357	13.58
04	SMWB-SLU	441370	7.32	856734	8.50	358641*	13.59
05	SI-S-4-6/10	837180	7.32	1602416	8.50	1267443	13.58
06	SI-S-1-10/14	794430	7.32	1501668	8.50	1223743	13.59
07	HWSC-SLU	371869*	7.32	668452*	8.50	230902*	13.59
08	BAC-SLU	682153	7.33	1271972	8.52	1094473	13.59
09	SI-S-4-10/14	795652	7.34	1515270	8.52	1271003	13.60
10	OS-S-1-6/10	902852	7.34	1628882	8.52	1271498	13.60
11	OS-S-1-0/2	889265	7.33	1628465	8.51	1273721	13.59
12	MTS-GB-SLU2 FD	711923	7.32	1435251	8.50	935518	13.59
13	MTS-GB-SLU-4	843416	7.33	1553737	8.51	1228671	13.59
14	MTS-GB-SLU-2	742891	7.33	1500454	8.51	934737	13.59
15	MTS-GB-SLU-1	601974	7.33	1245439	8.51	868382	13.59
16	OS-S-2-0/2	894427	7.33	1670481	8.51	1271117	13.59
17	ST-SLU	459468	7.33	918058	8.51	520530*	13.59

IS1 = Pentafluorobenzene
IS2 = 1,4 - Difluorobenzene
IS3 = d5 - Chlorobenzene
IS4 = d4 - Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID (Standard): B9573.D Date Analyzed: 02/02/02

Instrument ID: MS#3 Time Analyzed: 11:44

GC Column: DB-624 ID: 0.32 (mm) Heated Purge (Y/N): ~~N~~ Y (R2/2)

		IS4 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	479806	18.03				
	UPPER LIMIT	959612	17.53				
	LOWER LIMIT	239903	18.53				
	EPA SAMPLE NO.						
01	MET BLK2	465563	18.04				
02	LCS2	475557	18.04				
03	SR-S-3-2/6-FD	476038	18.03				
04	SMWB-SLU	27188*	18.03				
05	SI-S-4-6/10	490078	18.03				
06	SI-S-1-10/14	490137	18.03				
07	HWSC-SLU	21016*	18.04				
08	BAC-SLU	404630	18.04				
09	SI-S-4-10/14	493899	18.04				
10	OS-S-1-6/10	501561	18.04				
11	OS-S-1-0/2	471651	18.03				
12	MTS-GB-SLU-2 RD	209362*	18.03				
13	MTS-GB-SLU-4	482372	18.03				
14	MTS-GB-SLU-2	212034*	18.03				
15	MTS-GB-SLU-1	232616*	18.03				
16	OS-S-2-0/2	456877	18.04				
17	ST-SLU	60677*	18.05				

IS1 = Pentafluorobenzene
IS2 = 1,4 - Difluorobenzene
IS3 = d5 - Chlorobenzene
IS4 = d4 - Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROC Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID (Standard): Q7346.D Date Analyzed: 02/03/02

Instrument ID: GCMS#6 Time Analyzed: 12:21

GC Column: ZB624 ID: 0.32 (mm) Heated Purge (Y/N): N

		IS1		IS2		IS3	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	771136	11.56	1167213	12.93	961087	18.20
	UPPER LIMIT	1542272	12.06	2334426	13.43	1922174	18.70
	LOWER LIMIT	385568	11.06	583607	12.43	480544	17.70
	EPA SAMPLE NO.						
01	MET BLK MED-2	752761	11.56	1153474	12.93	942032	18.20
02	LCS	716279	11.57	1053603	12.93	878004	18.20
03	HWSC-SLU DL	792836	11.56	1188403	12.93	988948	18.20
04	SMWB-SLU DL	965117	11.57	1403918	12.93	1133905	18.20

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = d5-Chlorobenzene
IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROC Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: SDG No.: OS-S-1

Lab File ID (Standard): Q7346.D Date Analyzed: 02/03/02

Instrument ID: GCMS#6 Time Analyzed: 12:21

GC Column: ZB624 ID: 0.32 (mm) Heated Purge (Y/N): Y

		IS4 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	561701	22.53				
	UPPER LIMIT	1123402	22.03				
	LOWER LIMIT	280851	23.03				
	EPA SAMPLE NO.						
01	MET BLK ME	468823	22.52				
02	LCS	509317	22.53				
03	HWSC-SLU D1	497029	22.52				
04	SMWB-SLU D1	585356	22.53				

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = d5-Chlorobenzene
IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID (Standard): B9603.D Date Analyzed: 02/04/02

Instrument ID: MS#3 Time Analyzed: 10:24

GC Column: DB-624 ID: 0.32 (mm) Heated Purge (Y/N): N YR 2/26

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	761730	7.39	1481109	8.57	1164233	13.67
	UPPER LIMIT	1523460	6.89	2962218	8.07	2328466	13.17
	LOWER LIMIT	380865	7.89	740555	9.07	582117	14.17
	EPA SAMPLE NO.						
01	MET BLK3	786866	7.38	1514295	8.57	1172661	13.65
02	LCS3	766055	7.38	1472851	8.56	1140287	13.65
03	OS-S-1-10/14	863406	7.37	1628048	8.56	1247109	13.64
04	MTS-GB-SLU-3	635249	7.36	1173720	8.55	791217	13.63
05	MTS-GB-SLU-3MS	476730	7.37	961461	8.54	629434	13.63
06	MTS-GB-SLU-3MSD	405964	7.36	876754	8.54	616534	13.63
07	SI-S-4-6/10(RE	896025	7.34	1640760	8.53	1263857	13.61

IS1 = Pentafluorobenzene
IS2 = 1,4 - Difluorobenzene
IS3 = d5 - Chlorobenzene
IS4 = d4 - Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: SDG No.: OS-S-1

Lab File ID (Standard): B9603.D Date Analyzed: 02/04/02

Instrument ID: MS#3 Time Analyzed: 10:24

GC Column: DB-624 ID: 0.32 (mm) Heated Purge (Y/N): ~~N~~ Y @ 2/20

		IS4 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	455338	18.11				
	UPPER LIMIT	910676	17.61				
	LOWER LIMIT	227669	18.61				
	EPA SAMPLE NO.						
01	MET BLK3	473137	18.09				
02	LCS3	466232	18.09				
03	OS-S-1-10/14	492907	18.08				
04	MTS-GB-SLU-3	188231 *	18.07				
05	MTS-GB-SLU-3MG	144490 *	18.07				
06	MTS-GB-SLU-3MSD	151723 *	18.07				
07	SI-S-4-6/10(RE	475500	18.04				

IS1 = Pentafluorobenzene
IS2 = 1,4 - Difluorobenzene
IS3 = d5 - Chlorobenzene
IS4 = d4 - Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROC Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: SDG No.: OS-S-1

Lab File ID (Standard): Q7362.D Date Analyzed: 02/04/02

Instrument ID: GCMS#6 Time Analyzed: 11:30

GC Column: ZB624 ID: 0.32 (mm) Heated Purge (Y/N): N

		IS1		IS2		IS3	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	925792	11.56	1399441	12.92	1174792	18.20
	UPPER LIMIT	1851584	12.06	2798882	13.42	2349584	18.70
	LOWER LIMIT	462896	11.06	699721	12.42	587396	17.70
	EPA SAMPLE NO.						
01	MET BLK MED-3	853603	11.57	1340197	12.93	1118906	18.20
02	LCS	807211	11.56	1238081	12.92	1019002	18.20
03	MTS-GB-SLU-3D	946904	11.56	1553437	12.93	1363946	18.20

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = d5-Chlorobenzene
IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROC Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID (Standard): Q7362.D Date Analyzed: 02/04/02

Instrument ID: GCMS#6 Time Analyzed: 11:30

GC Column: ZB624 ID: 0.32 (mm) Heated Purge (Y/N): Y/N @ 2/25

		IS4 AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	620118		22.52									
	UPPER LIMIT	1240236		22.02									
	LOWER LIMIT	310059		23.02									
	EPA SAMPLE NO.												
01	MET BLK ME	548258		22.52									
02	LCS	552703		22.52									
03	MTS-GB-SLU-30	712307		22.53									

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = d5-Chlorobenzene
IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID (Standard): B9620.D Date Analyzed: 02/05/02

Instrument ID: MS#3 Time Analyzed: 09:40

GC Column: DB-624 ID: 0.32 (mm) Heated Purge (Y/N): N

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	794272	7.34	1526428	8.52	1198137	13.61
	UPPER LIMIT	1588544	6.84	3052856	8.02	2396274	13.11
	LOWER LIMIT	397136	7.84	763214	9.02	599069	14.11
	EPA SAMPLE NO.						
01	MET BLK4	712548	7.37	1351999	8.55	1069304	13.63
02	LCS4	755787	7.37	1411499	8.55	1125263	13.63
03	MTS-GB-SLU-2-RE	655994	7.37	1097246	8.55	766073	13.63
04	MTS-GB-SLU-4RE	718760	7.36	1322839	8.54	1062533	13.62
05	MTS-GB-SLU-2RE	547741	7.35	1141924	8.53	687787	13.62
06	MTS-GB-SLU-1RE	509118	7.35	1048472	8.53	686429	13.62

IS1 = Pentafluorobenzene
IS2 = 1,4 - Difluorobenzene
IS3 = d5 - Chlorobenzene
IS4 = d4 - Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID (Standard): B9620.D Date Analyzed: 02/05/02

Instrument ID: MS#3 Time Analyzed: 09:40

GC Column: DB-624 ID: 0.32 (mm) Heated Purge (Y/N): N 2/26

		IS4 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	463728	18.05				
	UPPER LIMIT	927456	17.55				
	LOWER LIMIT	231864	18.55				
	EPA SAMPLE NO.						
01	MET BLK4	431844	18.08				
02	LCS4	448232	18.08				
03	MTS-GB-SLU-5RE	176502 *	18.07				
04	MTS-GB-SLU-4RE	407007	18.07				
05	MTS-GB-SLU-2RE	154581 *	18.06				
06	MTS-GB-SLU-1RE	174841 *	18.06				

IS1 = Pentafluorobenzene
IS2 = 1,4 - Difluorobenzene
IS3 = d5 - Chlorobenzene
IS4 = d4 - Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROC Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: SDG No.: OS-S-1

Lab File ID (Standard): Q7386.D Date Analyzed: 02/05/02

Instrument ID: GCMS#6 Time Analyzed: 11:51

GC Column: ZB624 ID: 0.32 (mm) Heated Purge (Y/N): N

		IS1		IS2		IS3	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1062574	11.56	1662357	12.92	1416944	18.20
	UPPER LIMIT	2125148	12.06	3324714	13.42	2833888	18.70
	LOWER LIMIT	531287	11.06	831179	12.42	708472	17.70
	EPA SAMPLE NO.						
01	MET BLK MED-4	1018631	11.56	1619082	12.92	1409161	18.20
02	LCS	950994	11.57	1521887	12.93	1319162	18.20
03	OS-S-1-2/6	1140839	11.56	1824514	12.92	1539594	18.20

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = d5-Chlorobenzene
IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROC Contract: TTEM-KS

Lab Code: 10145 Case No.: R22-1041 SAS No.: _____ SDG No.: OS-S-1

Lab File ID (Standard): Q7386.D Date Analyzed: 02/05/02

Instrument ID: GCMS#6 Time Analyzed: 11:51

GC Column: ZB624 ID: 0.32 (mm) Heated Purge (Y/N): Y

N 02/11

		IS4 AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	704942		22.53									
	UPPER LIMIT	1409884		22.03									
	LOWER LIMIT	352471		23.03									
	EPA SAMPLE NO.												
01	MET BLK ME	702440		22.52									
02	LCS	680043		22.52									
03	OS-S-1-2/6	769303		22.52									

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = d5-Chlorobenzene
IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

VOLATILE ORGANICS

SAMPLE DATA

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : OS-S-1-10/14

Date Sampled : 01/21/02 11:40 **Order #:** 526025 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 81.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/04/02			
ANALYTICAL DILUTION: 0.68			Dry Weight
ACETONE	20	4.7 J	UG/KG
BENZENE	5.0	4.2 U	UG/KG
BROMODICHLOROMETHANE	5.0	4.2 U	UG/KG
BROMOFORM	5.0	4.2 U	UG/KG
BROMOMETHANE	5.0	4.2 U	UG/KG
2-BUTANONE (MEK)	10	8.3 U	UG/KG
CARBON DISULFIDE	10	8.3 U	UG/KG
CARBON TETRACHLORIDE	5.0	4.2 U	UG/KG
CHLOROBENZENE	5.0	4.2 U	UG/KG
CHLOROETHANE	5.0	4.2 U	UG/KG
CHLOROFORM	5.0	4.2 U	UG/KG
CHLOROMETHANE	5.0	4.2 U	UG/KG
IBROMOCHLOROMETHANE	5.0	4.2 U	UG/KG
1,1-DICHLOROETHANE	5.0	4.2 U	UG/KG
1,2-DICHLOROETHANE	5.0	4.2 U	UG/KG
1,1-DICHLOROETHENE	5.0	4.2 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	4.2 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	4.2 U	UG/KG
1,2-DICHLOROPROPANE	5.0	4.2 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	4.2 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	4.2 U	UG/KG
ETHYLBENZENE	5.0	4.2 U	UG/KG
2-HEXANONE	10	2.3 J	UG/KG
METHYLENE CHLORIDE	5.0	4.2 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1.7 J	UG/KG
STYRENE	5.0	4.2 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	4.2 U	UG/KG
TETRACHLOROETHENE	5.0	4.2 U	UG/KG
TOLUENE	5.0	4.2 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	4.2 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	4.2 U	UG/KG
TRICHLOROETHENE	5.0	4.2 U	UG/KG
VINYL CHLORIDE	5.0	4.2 U	UG/KG
O-XYLENE	5.0	4.2 U	UG/KG
M+P-XYLENE	5.0	4.2 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	100	%
TOLUENE-D8	(71 - 128 %)	104	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	113	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9609.D Vial: 2
Acq On : 4 Feb 102 2:16 pm Operator: DROOT
Sample : 526025 0.68 Inst : 5971 - In
Misc : TTEM-KS R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 4 14:44 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.37	168	863406	50.00	ug/Kg	-0.04
35) 1,4 - Difluorobenzene	8.56	114	1628048	50.00	ug/Kg	-0.03
52) d5 - Chlorobenzene	13.64	117	1247109	50.00	ug/Kg	-0.04
74) d4 - Dichlorobenzene	18.08	152	492907	50.00	ug/Kg	-0.05
System Monitoring Compounds						%Recovery
36) surr4,Dibrflmethane	7.25	113	441964	56.63	ug/Kg	113.27%
58) surr3,Toluene-d8	11.06	98	1489754	52.21	ug/Kg	104.42%
59) surr2,bfb	15.86	95	567239	49.77	ug/Kg	99.54%
Target Compounds						Qvalue
12) Acetone	3.74	43	11996	5.56	ug/Kg#	89 J
18) TBA	4.66	59	25113	~~21.55~~	~~ug/Kg~~	~~97~~
29) Propionitrile	6.57	54	5611	~~4.74~~	~~ug/Kg~~	~~95~~
39) Iso-Butyl Alcohol	8.41	43	4786	~~6.51~~	~~ug/Kg~~	~~91~~
46) 1,4-Dioxane	9.57	88	537	~~5.38~~	~~ug/Kg#~~	~~12~~
53) 4-Methyl-2-Pentanone	10.89	43	23545	2.03	ug/Kg	93 J
61) 2-Hexanone	12.37	43	23124	2.78	ug/Kg	96 J

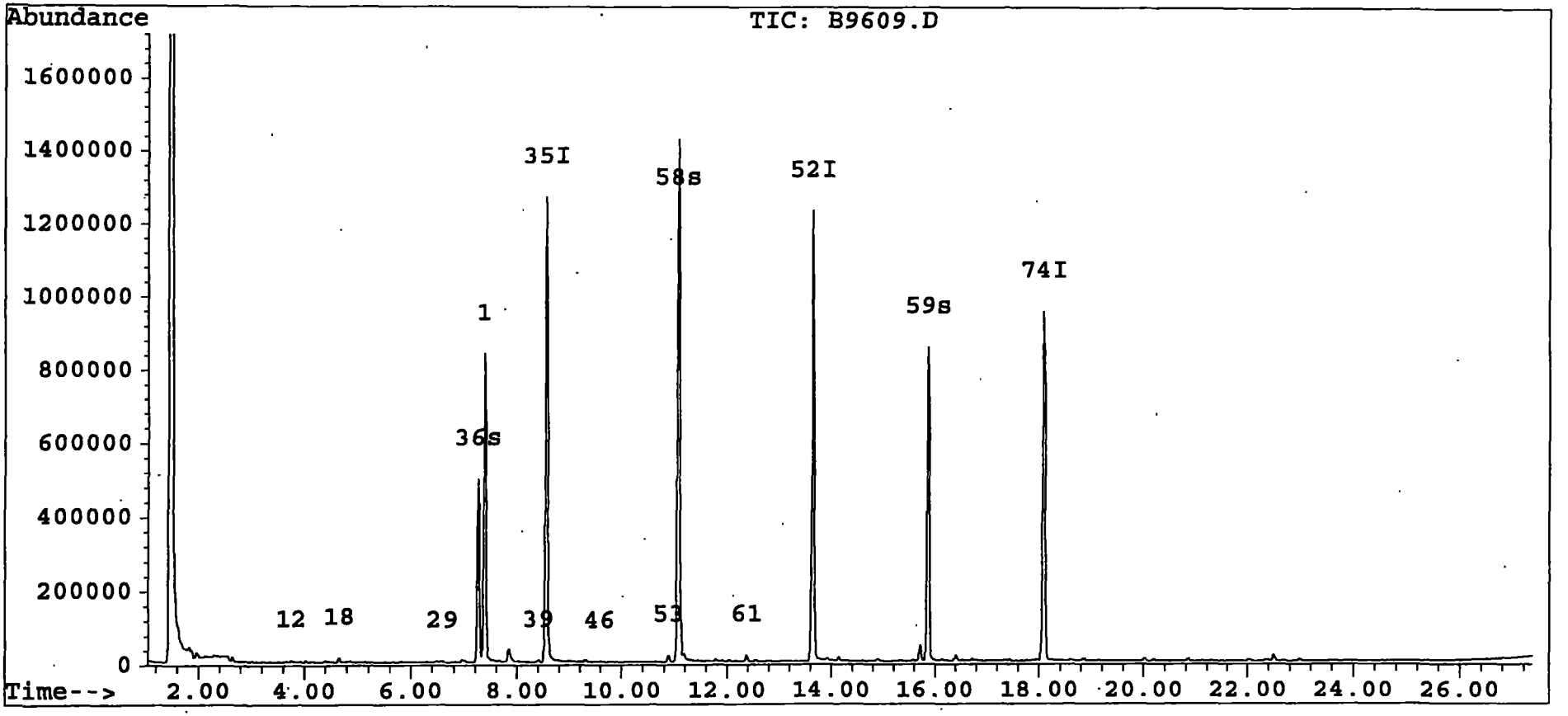
2/11

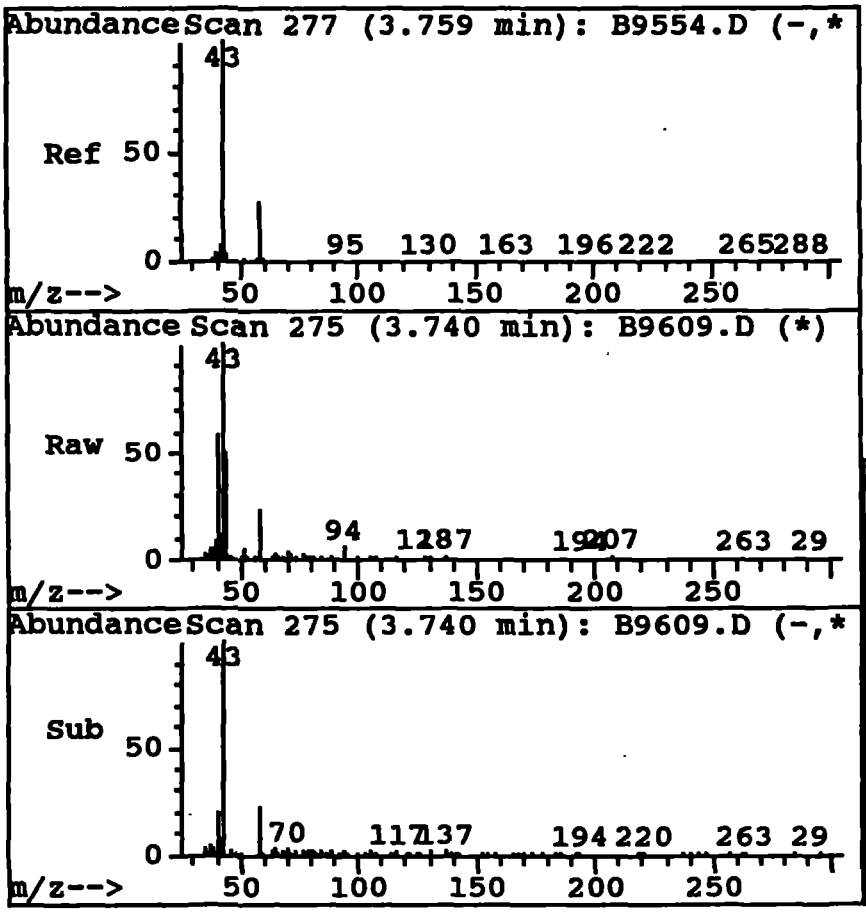
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9609.D Vial: 2
Acq On : 4 Feb 102 2:16 pm Operator: DROOT
Sample : 526025 0.68 Inst : 5971 - In
Misc : TTEM-KS R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 4 14:44 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

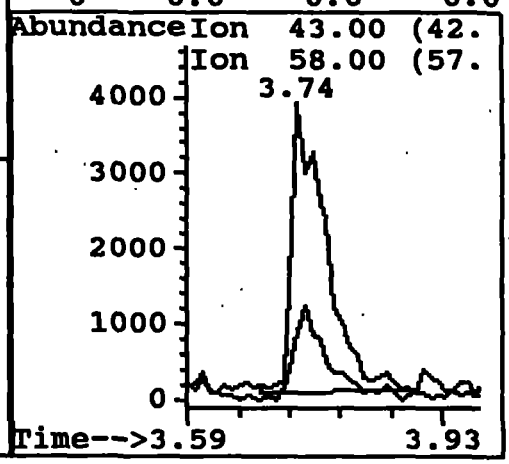


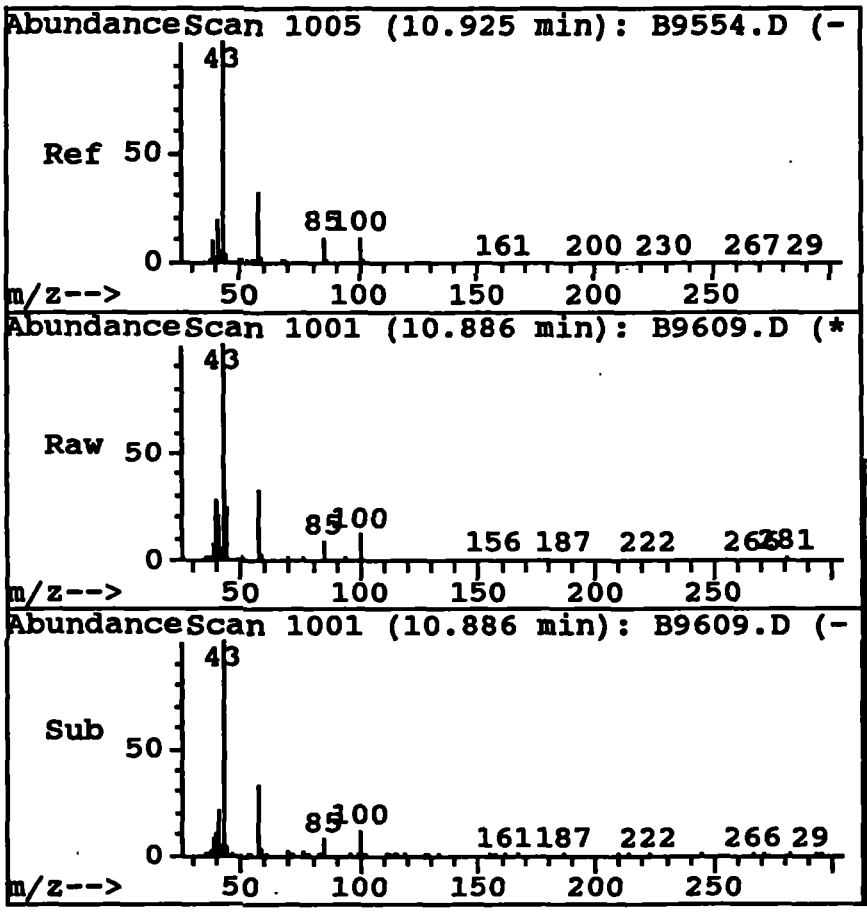


#12
Acetone
Concen: 5.56 ug/Kg
RT: 3.74 min Scan# 275
Delta R.T. -0.01 min
Lab File: B9609.D
Acq: 4 Feb 102 2:16 pm

Tgt Ion:43 Resp: 11996

Ion	Ratio	Lower	Upper
43	100		
58	22.5	22.8	34.1#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

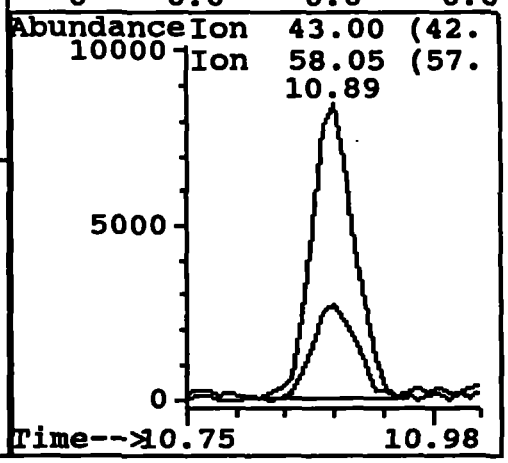


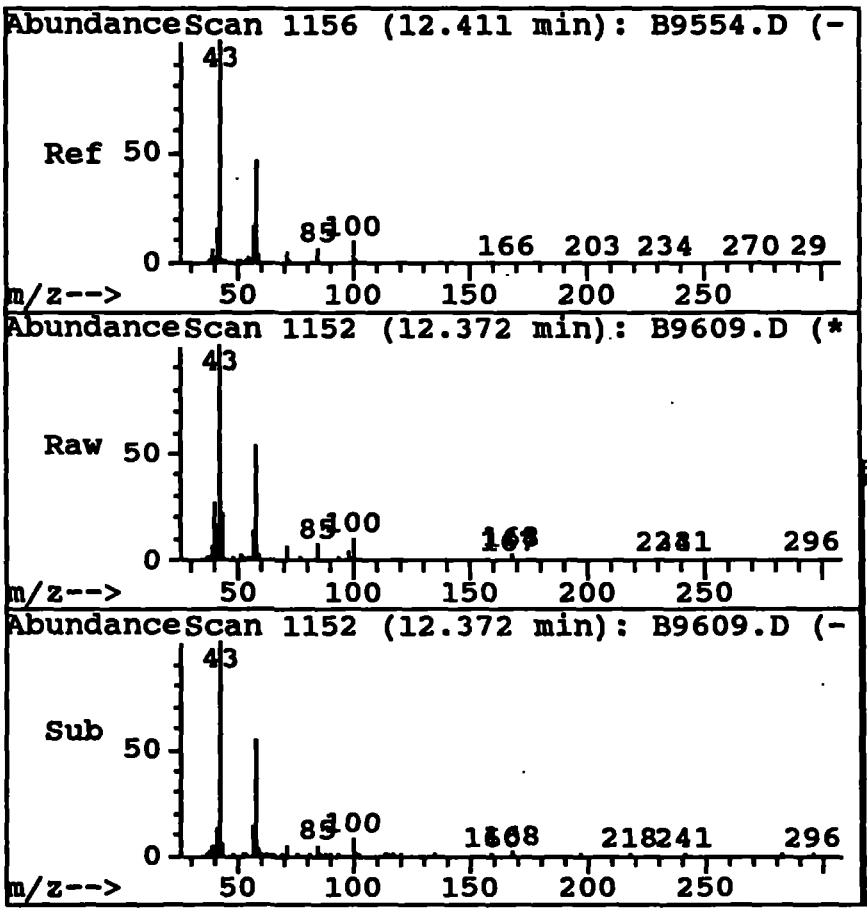


#53
4-Methyl-2-Pentanone
Concen: 2.03 ug/Kg
RT: 10.89 min Scan# 1001
Delta R.T. -0.03 min
Lab File: B9609.D
Acq: 4 Feb 102 2:16 pm

Tgt Ion:43 Resp: 23545

Ion	Ratio	Lower	Upper
43	100		
58	32.1	27.0	44.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

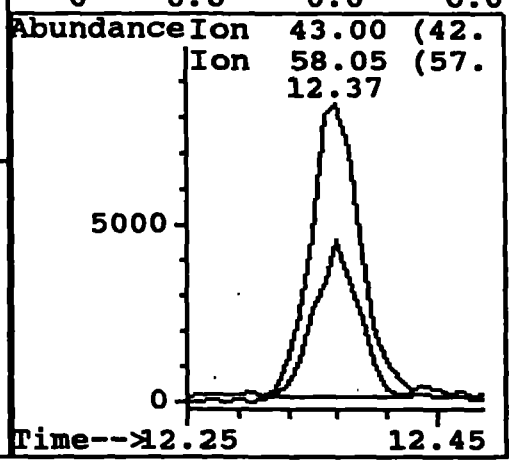




#61
2-Hexanone
Concen: 2.78 ug/Kg
RT: 12.37 min Scan# 1152
Delta R.T. -0.03 min
Lab File: B9609.D
Acq: 4 Feb 102 2:16 pm

Tgt Ion:43 Resp: 23124

Ion	Ratio	Lower	Upper
43	100		
58	54.5	41.5	62.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : OS-S-1-2/6

Date Sampled : 01/21/02 10:50 **Order #:** 526026 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 81.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/05/02			
ANALYTICAL DILUTION: 76.00			Dry Weight
ACETONE	20	230 J	UG/KG
BENZENE	5.0	470 U	UG/KG
BROMODICHLOROMETHANE	5.0	470 U	UG/KG
BROMOFORM	5.0	470 U	UG/KG
BROMOMETHANE	5.0	470 U	UG/KG
2-BUTANONE (MEK)	10	940 U	UG/KG
CARBON DISULFIDE	10	940 U	UG/KG
CARBON TETRACHLORIDE	5.0	470 U	UG/KG
CHLOROBENZENE	5.0	470 U	UG/KG
CHLOROETHANE	5.0	470 U	UG/KG
CHLOROFORM	5.0	470 U	UG/KG
HLOROMETHANE	5.0	470 U	UG/KG
IBROMOCHLOROMETHANE	5.0	470 U	UG/KG
1,1-DICHLOROETHANE	5.0	470 U	UG/KG
1,2-DICHLOROETHANE	5.0	470 U	UG/KG
1,1-DICHLOROETHENE	5.0	470 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	470 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	470 U	UG/KG
1,2-DICHLOROPROPANE	5.0	470 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	470 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	470 U	UG/KG
ETHYLBENZENE	5.0	470 U	UG/KG
2-HEXANONE	10	940 U	UG/KG
METHYLENE CHLORIDE	5.0	470 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	940 U	UG/KG
STYRENE	5.0	470 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	470 U	UG/KG
TETRACHLOROETHENE	5.0	470 U	UG/KG
TOLUENE	5.0	470 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	470 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	470 U	UG/KG
TRICHLOROETHENE	5.0	470 U	UG/KG
VINYL CHLORIDE	5.0	470 U	UG/KG
O-XYLENE	5.0	470 U	UG/KG
M+P-XYLENE	5.0	470 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	109	%
TOLUENE-D8	(71 - 128 %)	104	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	99	%

Quantitation Report (Not Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020502\Q7391.D Vial: 32
Acq On : 5 Feb 2002 3:45 pm Operator: BALLGEIER
Sample : 526026 1/76 Inst : GC/MS Ins
Misc : TTEM R22-10416 8260B.TCLH Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 5 16:14 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.56	168	1140839	50.00 ug/L	0.00
34) 1,4-Difluorobenzene	12.92	114	1824514	50.00 ug/L	0.00
58) d5-Chlorobenzene	18.20	117	1539594	50.00 ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.52	152	769303	50.00 ug/L	0.00
System Monitoring Compounds					
35) surr4,Dibrflmethane	11.61	113	565330	49.33 ug/L	0.00
Spiked Amount 50.000			Recovery = 98.66%		
52) SURR3,Toluene-d8	15.55	98	1862271	51.88 ug/L	0.00
Spiked Amount 50.000			Recovery = 103.76%		
57) SURR2,BFB	20.34	95	820893	54.47 ug/L	0.00
Spiked Amount 50.000			Recovery = 108.94%		

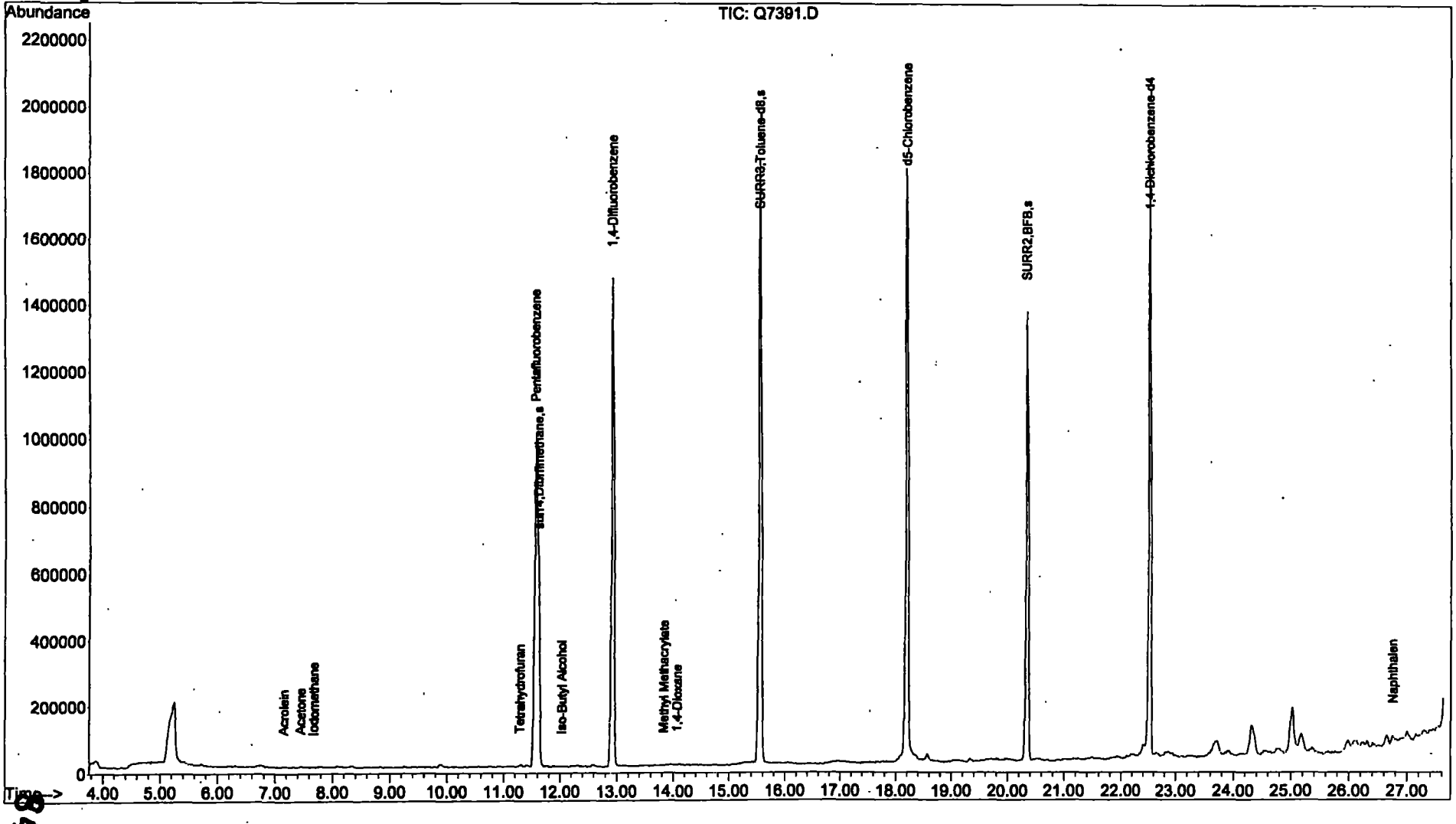
Target Compounds					Qvalue	
9) Acrolein	7.16	56	1770	~~1.16 ug/L~~	~~82~~	
12) Acetone	7.45	43	7664	2.46 ug/L	88	J
13) Iodomethane	7.68	142	568	~~2.49 ug/L~~	~~97~~	
31) Tetrahydrofuran	11.29	42	4119	1.35 ug/L	100	NT
40) Iso-Butyl Alcohol	12.03	43	543	~~1.29 ug/L~~	~~83~~	
45) 1,4-Dioxane	14.07	88	514	~~5.30 ug/L #~~	~~80~~	
46) Methyl Methacrylate	13.83	69	459	~~2.35 ug/L~~	~~82~~	
94) Naphthalen	26.75	128	30048	1.06 ug/L #	96	NT

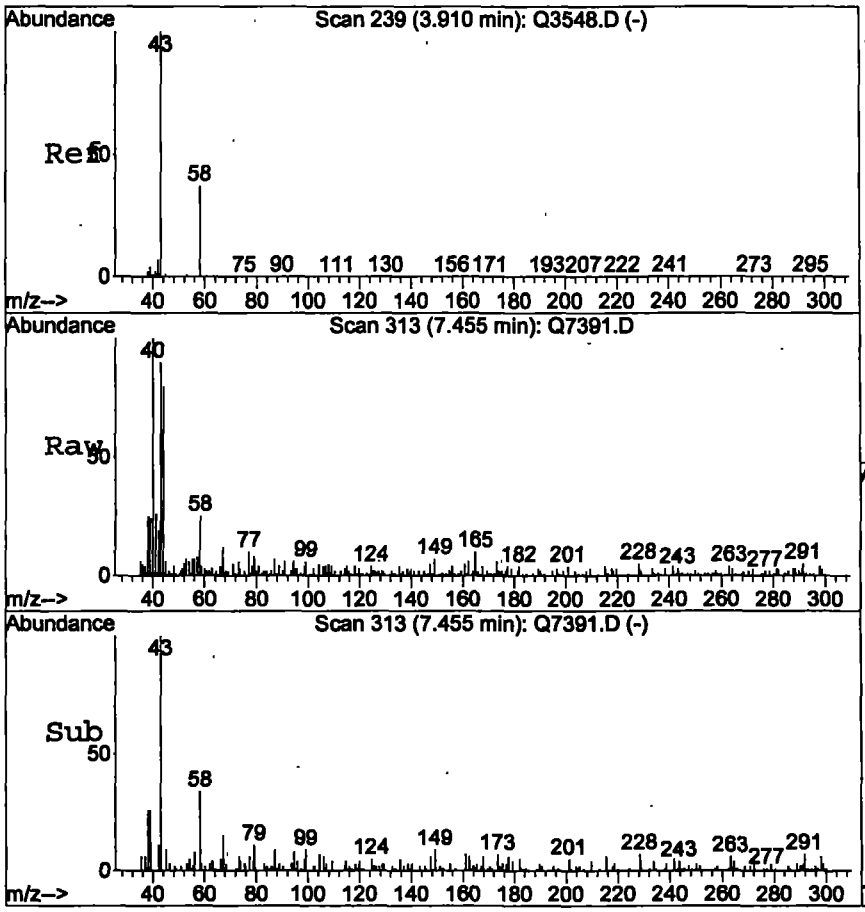
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA6\DATA\020502\Q7391. Vial: 32
Acq On : 5 Feb 2002 3:45 pm Operator: BALLGEIER
Sample : 526026 Inst : GC/MS Ins
Misc : TTEM R22-10416 8260B.TCLH Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 5 16:14 2002 Quant Results File: EXP0124.RES

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration

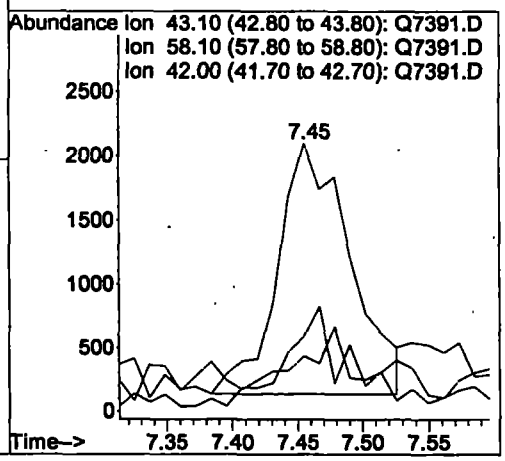




#12
Acetone
Concen: 2.46 ug/L
RT: 7.45 min Scan# 313
Delta R.T. 0.01 min
Lab File: Q7391.D
Acq: 5 Feb 2002 3:45 pm

Tgt Ion: 43 Resp: 7664

Ion	Ratio	Lower	Upper
43	100		
58	28.2	1.3	61.3
42	20.7	0.0	38.7



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : OS-S-1-6/10

Date Sampled : 01/21/02 11:10 **Order #:** 526027 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 81.0

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/02/02			
ANALYTICAL DILUTION: 0.70			Dry Weight
ACETONE	20	10 J	UG/KG
BENZENE	5.0	4.3 U	UG/KG
BROMODICHLOROMETHANE	5.0	4.3 U	UG/KG
BROMOFORM	5.0	4.3 U	UG/KG
BROMOMETHANE	5.0	4.3 U	UG/KG
2-BUTANONE (MEK)	10	8.6 U	UG/KG
CARBON DISULFIDE	10	8.6 U	UG/KG
CARBON TETRACHLORIDE	5.0	4.3 U	UG/KG
CHLOROBENZENE	5.0	4.3 U	UG/KG
CHLOROETHANE	5.0	4.3 U	UG/KG
CHLOROFORM	5.0	4.3 U	UG/KG
˜HLOROMETHANE	5.0	4.3 U	UG/KG
IBROMOCHLOROMETHANE	5.0	4.3 U	UG/KG
1,1-DICHLOROETHANE	5.0	4.3 U	UG/KG
1,2-DICHLOROETHANE	5.0	4.3 U	UG/KG
1,1-DICHLOROETHENE	5.0	4.3 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	4.3 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	4.3 U	UG/KG
1,2-DICHLOROPROPANE	5.0	4.3 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	4.3 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	4.3 U	UG/KG
ETHYLBENZENE	5.0	4.3 U	UG/KG
2-HEXANONE	10	8.6 U	UG/KG
METHYLENE CHLORIDE	5.0	4.3 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	8.6 U	UG/KG
STYRENE	5.0	4.3 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	4.3 U	UG/KG
TETRACHLOROETHENE	5.0	4.3 U	UG/KG
TOLUENE	5.0	4.3 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	4.3 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	4.3 U	UG/KG
TRICHLOROETHENE	5.0	4.3 U	UG/KG
VINYL CHLORIDE	5.0	4.3 U	UG/KG
O-XYLENE	5.0	4.3 U	UG/KG
M+P-XYLENE	5.0	4.3 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	101	%
TOLUENE-D8	(71 - 128 %)	105	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	125	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9584.D Vial: 15
Acq On : 2 Feb 102 6:33 pm Operator: TTRAVER
Sample : 526027 0.70 Inst : 5971 - In
Misc : TTEM R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 2 19:01 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.34	168	902852	50.00 ug/Kg	-0.07
35) 1,4 - Difluorobenzene	8.52	114	1628882	50.00 ug/Kg	-0.07
52) d5 - Chlorobenzene	13.60	117	1271498	50.00 ug/Kg	-0.08
74) d4 - Dichlorobenzene	18.04	152	501561	50.00 ug/Kg	-0.09
System Monitoring Compounds					**%Recovery**
36) surr4,Dibrflmethane	7.21	113	487715	62.47 ug/Kg	124.93%
58) surr3,Toluene-d8	11.02	98	1529643	52.58 ug/Kg	105.16%
59) surr2,bfb	15.81	95	586801	50.50 ug/Kg	101.00%
Target Compounds					**Qvalue**
12) Acetone	3.71	43	26390	11.70 ug/Kg	96 J
39) Iso-Butyl Alcohol	8.36	43	3832	~~5.21 ug/Kg#~~	~~65~~
46) 1,4-Dioxane	9.48	88	589	~~5.89 ug/Kg~~	~~93~~

@ 2/3

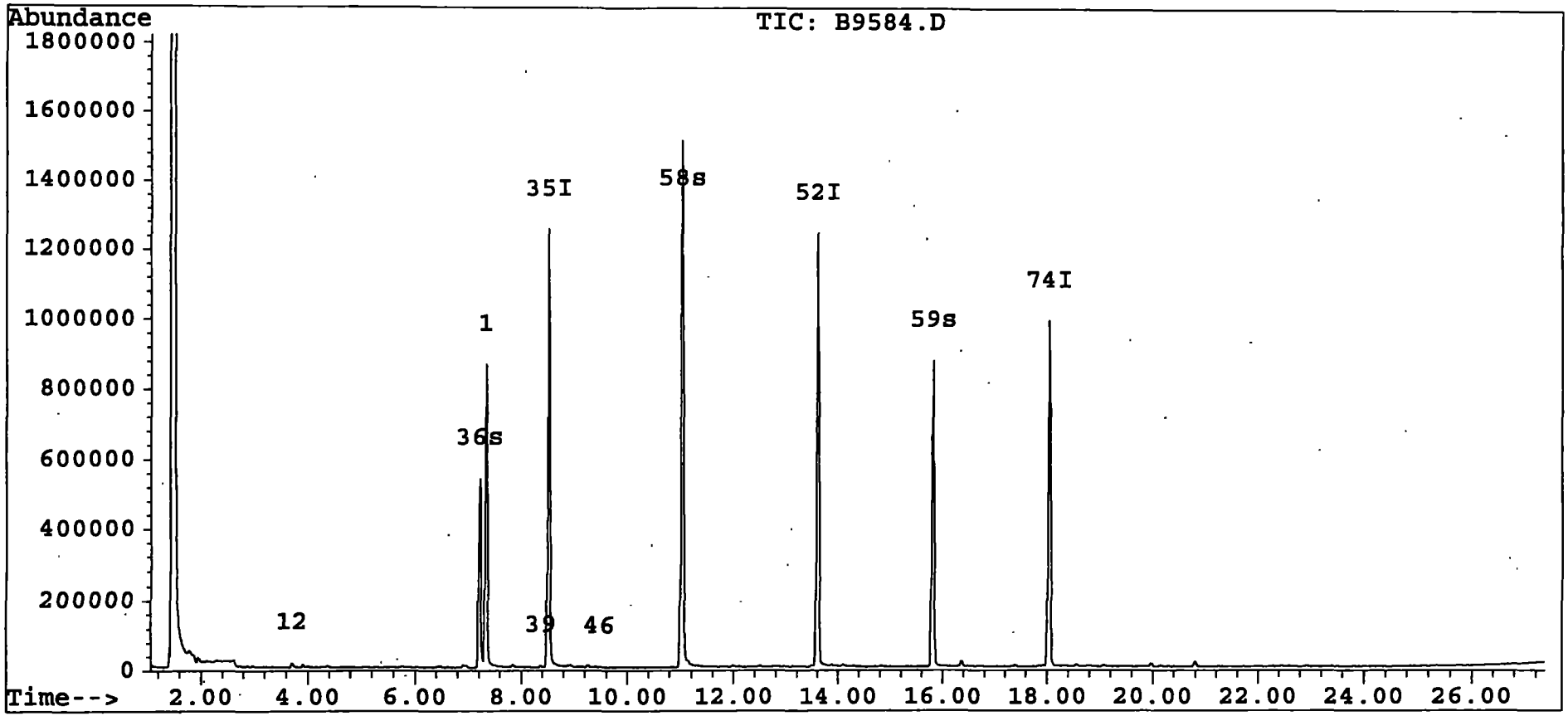
(#) = qualifier out of range (m) = manual integration

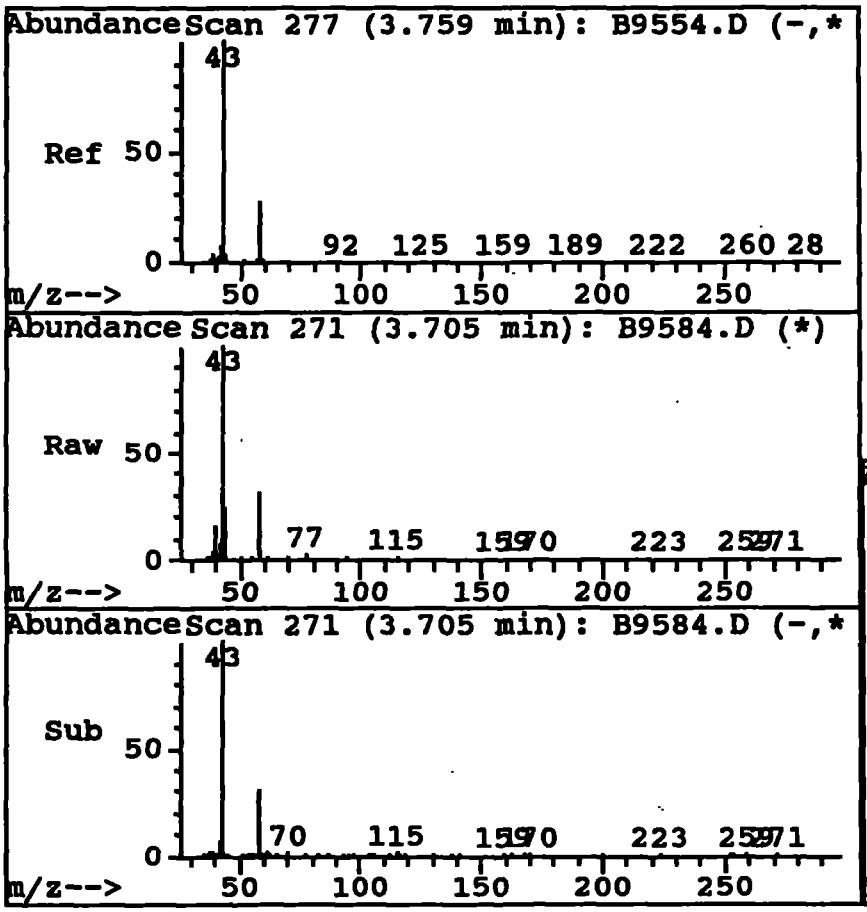
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9584.D
Acq On : 2 Feb 102 6:33 pm
Sample : 526027 0.70
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 19:01 19102

Vial: 15
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

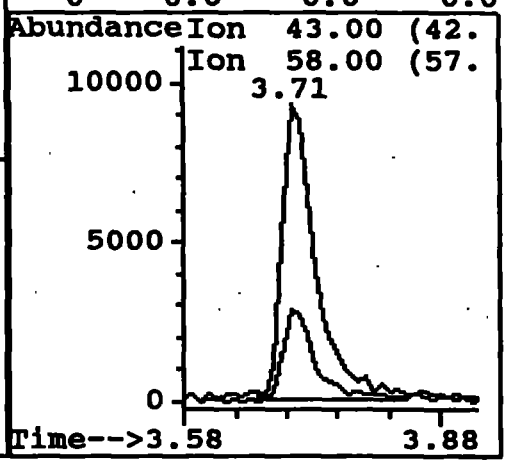




#12
Acetone
Concen: 11.70 ug/Kg
RT: 3.71 min Scan# 271
Delta R.T. -0.05 min
Lab File: B9584.D
Acq: 2 Feb 102 6:33 pm

Tgt Ion:43 Resp: 26390

Ion	Ratio	Lower	Upper
43	100		
58	30.6	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : OS-S-1-0/2

Date Sampled : 01/21/02 10:20 **Order #:** 526028 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 85.1

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/02/02			
ANALYTICAL DILUTION: 0.80			Dry Weight
ACETONE	20	26	UG/KG
BENZENE	5.0	4.7 U	UG/KG
BROMODICHLOROMETHANE	5.0	4.7 U	UG/KG
BROMOFORM	5.0	4.7 U	UG/KG
BROMOMETHANE	5.0	4.7 U	UG/KG
2-BUTANONE (MEK)	10	3.3 J	UG/KG
CARBON DISULFIDE	10	9.4 U	UG/KG
CARBON TETRACHLORIDE	5.0	4.7 U	UG/KG
CHLOROBENZENE	5.0	4.7 U	UG/KG
CHLOROETHANE	5.0	4.7 U	UG/KG
CHLOROFORM	5.0	4.7 U	UG/KG
LOROMETHANE	5.0	4.7 U	UG/KG
BROMOCHLOROMETHANE	5.0	4.7 U	UG/KG
1,1-DICHLOROETHANE	5.0	4.7 U	UG/KG
1,2-DICHLOROETHANE	5.0	4.7 U	UG/KG
1,1-DICHLOROETHENE	5.0	4.7 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	4.7 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	4.7 U	UG/KG
1,2-DICHLOROPROPANE	5.0	4.7 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	4.7 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	4.7 U	UG/KG
ETHYLBENZENE	5.0	4.7 U	UG/KG
2-HEXANONE	10	9.4 U	UG/KG
METHYLENE CHLORIDE	5.0	4.7 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	9.4 U	UG/KG
STYRENE	5.0	4.7 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	4.7 U	UG/KG
TETRACHLOROETHENE	5.0	4.7 U	UG/KG
TOLUENE	5.0	4.7 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	4.7 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	4.7 U	UG/KG
TRICHLOROETHENE	5.0	4.7 U	UG/KG
VINYL CHLORIDE	5.0	4.7 U	UG/KG
O-XYLENE	5.0	4.7 U	UG/KG
M+P-XYLENE	5.0	4.7 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	97	%
TOLUENE-D8	(71 - 128 %)	106	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	121	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9585.D
Acq On : 2 Feb 102 7:09 pm
Sample : 526028 0.80
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 19:37 19102

Vial: 16
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.33	168	889265	50.00 ug/Kg	-0.08
35) 1,4 - Difluorobenzene	8.51	114	1628465	50.00 ug/Kg	-0.08
52) d5 - Chlorobenzene	13.59	117	1273721	50.00 ug/Kg	-0.09
74) d4 - Dichlorobenzene	18.03	152	471651	50.00 ug/Kg	-0.10
System Monitoring Compounds					%Recovery
36) surr4,Dibrflmethane	7.21	113	473041	60.60 ug/Kg	121.20%
58) surr3,Toluene-d8	11.01	98	1544369	52.99 ug/Kg	105.98%
59) surr2,bfb	15.80	95	566592	48.67 ug/Kg	97.35%
Target Compounds					Qvalue
12) Acetone	3.71	43	61934	27.88 ug/Kg	100
26) 2-Butanone	6.46	43	15801	3.47 ug/Kg	100 J
39) Iso-Butyl Alcohol	8.36	43	6619	~~9.00 ug/Kg#~~	~~74~~

e 2/3

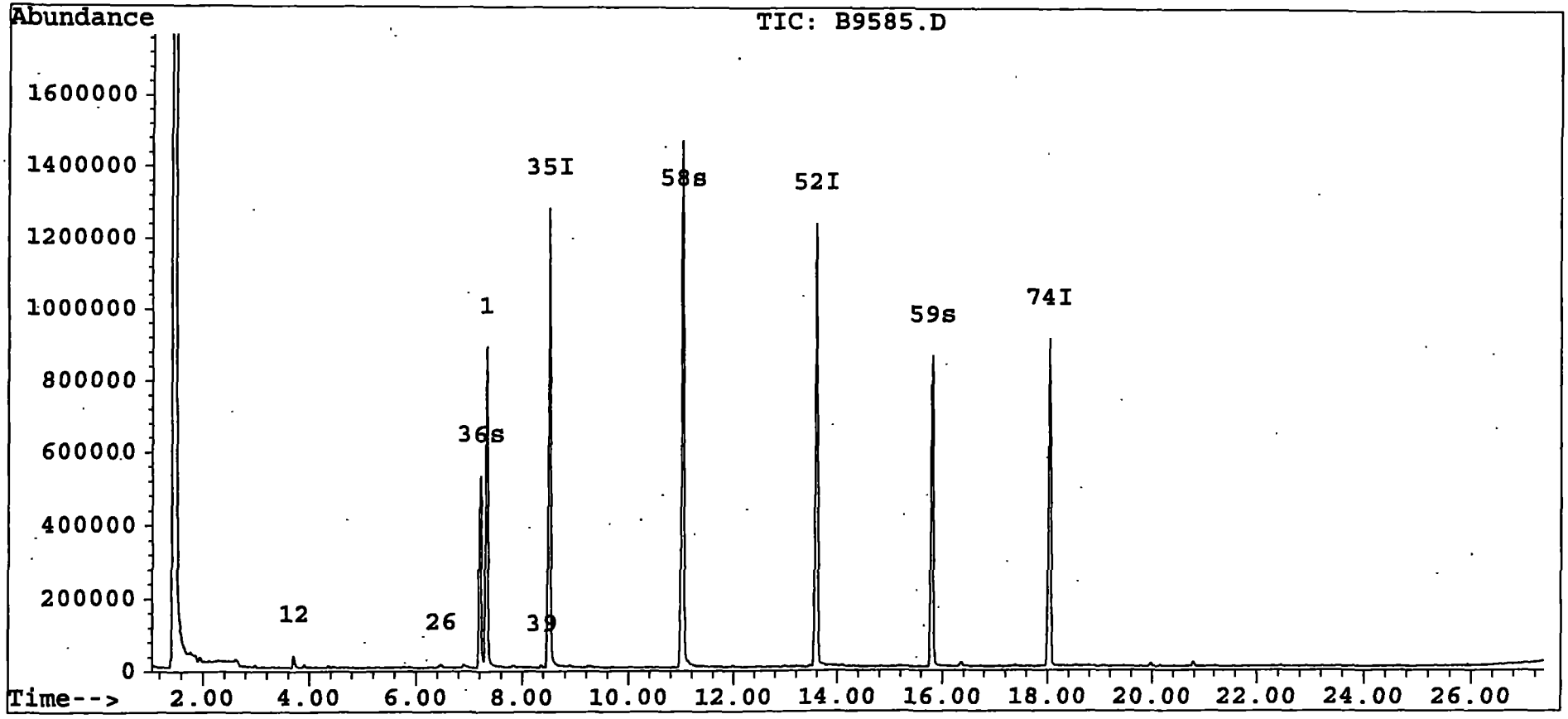
(#) = qualifier out of range (m) = manual integration

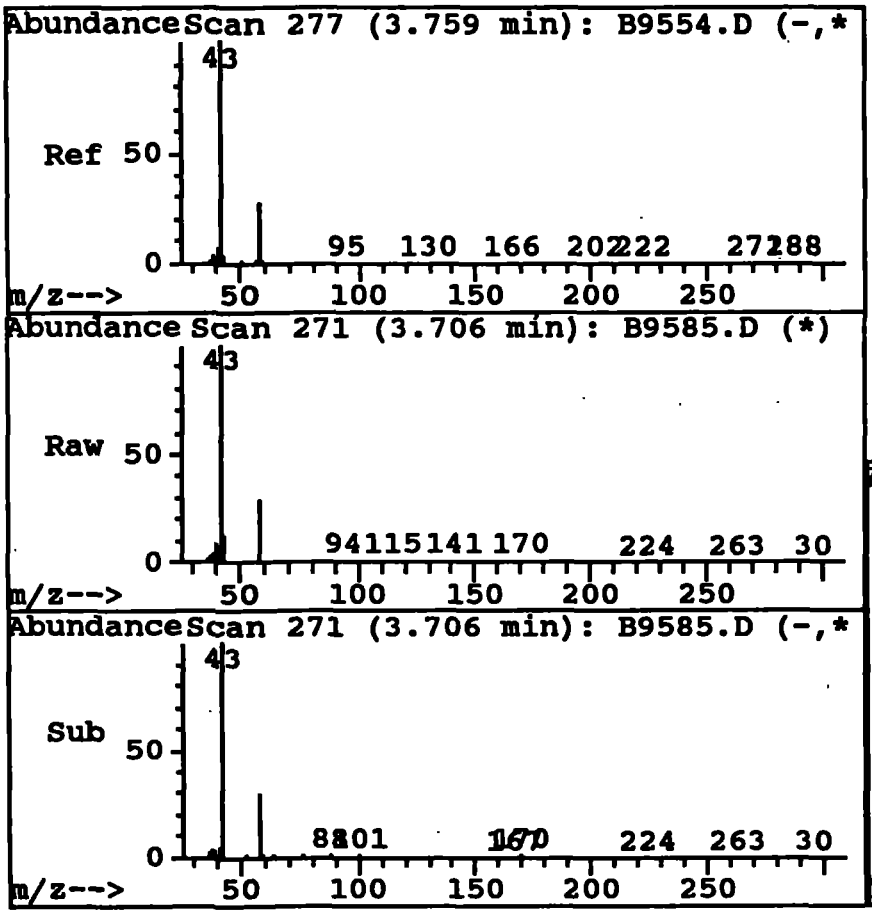
Quantita' ›n Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9585.D
Acq On : 2 Feb 102 7:09 pm
Sample : 526028 0.80
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 19:37 19102

Vial: 16
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

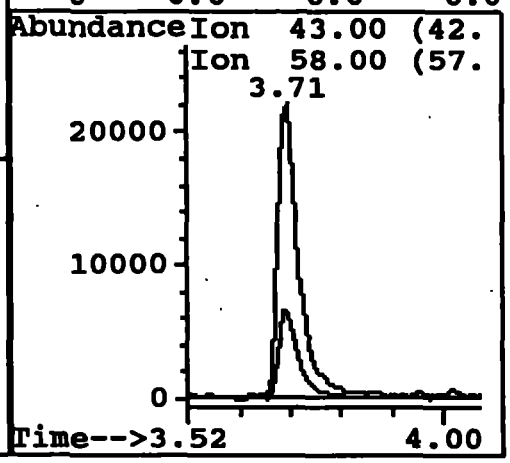


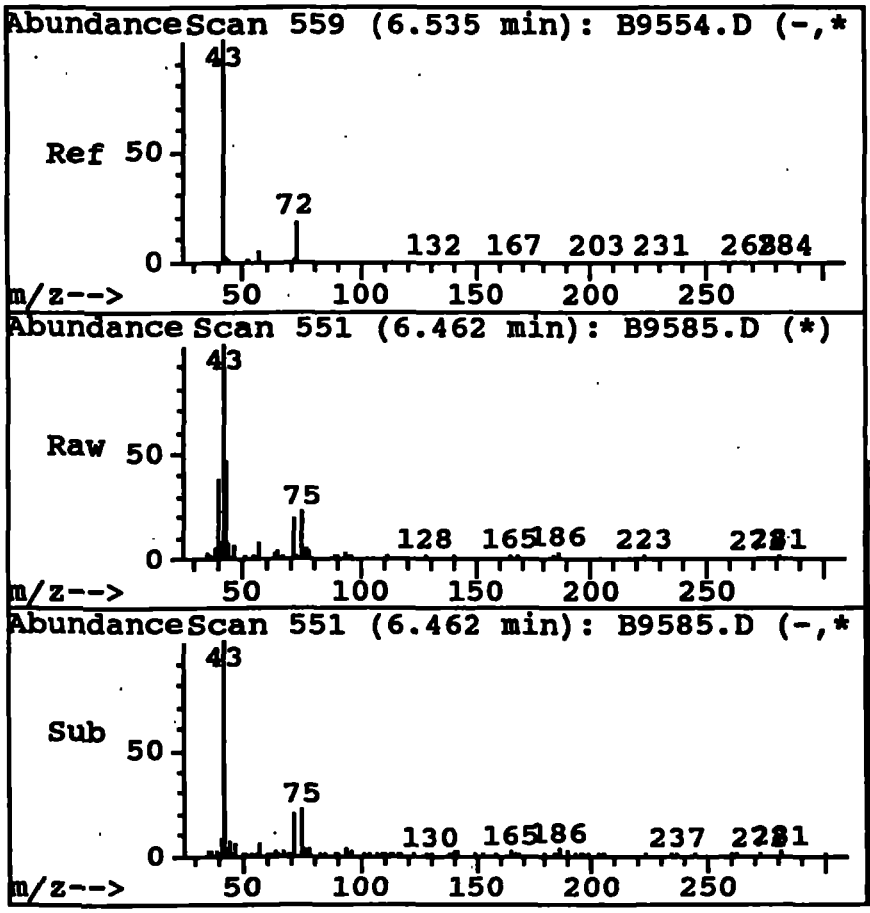


#12
Acetone
Concen: 27.88 ug/Kg
RT: 3.71 min Scan# 271
Delta R.T. -0.05 min
Lab File: B9585.D
Acq: 2 Feb 102 7:09 pm

Tgt Ion:43 Resp: 61934

Ion	Ratio	Lower	Upper
43	100		
58	28.6	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

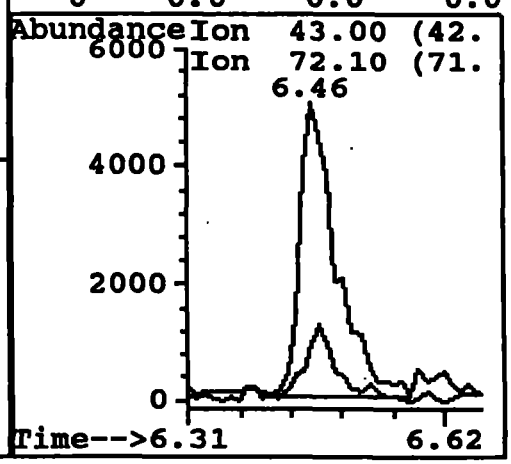




#26
2-Butanone
Concen: 3.47 ug/Kg
RT: 6.46 min Scan# 551
Delta R.T. -0.07 min
Lab File: B9585.D
Acq: 2 Feb 102 7:09 pm

Tgt Ion:43 Resp: 15801

Ion	Ratio	Lower	Upper
43	100		
72	19.4	14.5	24.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : MTS-GB-SLU2-FD

Date Sampled : 01/21/02 08:00 **Order #:** 526208 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 78.5

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/02/02			
ANALYTICAL DILUTION: 1.73			Dry Weight
ACETONE	20	92	UG/KG
BENZENE	5.0	11 U	UG/KG
BROMODICHLOROMETHANE	5.0	11 U	UG/KG
BROMOFORM	5.0	11 U	UG/KG
BROMOMETHANE	5.0	11 U	UG/KG
2-BUTANONE (MEK)	10	22 J	UG/KG
CARBON DISULFIDE	10	22 U	UG/KG
CARBON TETRACHLORIDE	5.0	11 U	UG/KG
CHLOROBENZENE	5.0	11 U	UG/KG
CHLOROETHANE	5.0	11 U	UG/KG
CHLOROFORM	5.0	11 U	UG/KG
CHLOROMETHANE	5.0	11 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	11 U	UG/KG
1,1-DICHLOROETHANE	5.0	11 U	UG/KG
1,2-DICHLOROETHANE	5.0	11 U	UG/KG
1,1-DICHLOROETHENE	5.0	11 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	11 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	11 U	UG/KG
1,2-DICHLOROPROPANE	5.0	11 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	11 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	11 U	UG/KG
ETHYLBENZENE	5.0	6.6 J	UG/KG
2-HEXANONE	10	4.5 J	UG/KG
METHYLENE CHLORIDE	5.0	11 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	11 J	UG/KG
STYRENE	5.0	11 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	11 U	UG/KG
TETRACHLOROETHENE	5.0	11 U	UG/KG
TOLUENE	5.0	11 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	11 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	11 U	UG/KG
TRICHLOROETHENE	5.0	11 U	UG/KG
VINYL CHLORIDE	5.0	11 U	UG/KG
O-XYLENE	5.0	11	UG/KG
M+P-XYLENE	5.0	25	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	83	%
TOLUENE-D8	(71 - 128 %)	111	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	128 *	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9586.D
Acq On : 2 Feb 102 7:46 pm
Sample : 526208 1.73
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 20:14 19102

Vial: 17
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.32	168	711923	50.00 ug/Kg	-0.09
35) 1,4 - Difluorobenzene	8.50	114	1435251	50.00 ug/Kg	-0.09
52) d5 - Chlorobenzene	13.59	117	935518	50.00 ug/Kg	-0.09
74) d4 - Dichlorobenzene	18.03	152	209362	50.00 ug/Kg	-0.10 *
System Monitoring Compounds					%Recovery
36) surr4,Dibrflmethane	7.21	113	440055	63.96 ug/Kg	127.93% *
58) surr3,Toluene-d8	11.01	98	1183460	55.29 ug/Kg	110.58%
59) surr2,bfb	15.80	95	355535	41.59 ug/Kg	83.17%
Target Compounds					Qvalue
12) Acetone	3.70	43	73853	41.53 ug/Kg	95
26) 2-Butanone	6.46	43	35480	9.72 ug/Kg	94 J
39) Iso-Butyl Alcohol	8.68	43	2005	~~3.09 ug/Kg~~	~~89~~
42) N-Heptane	8.37	43	22109	~~1.71 ug/Kg#~~	~~39~~
46) 1,4-Dioxane	9.62	88	490	~~5.57 ug/Kg~~	~~87~~
53) 4-Methyl-2-Pentanone	10.84	43	42979	4.93 ug/Kg	96 J
61) 2-Hexanone	12.31	43	12813	2.05 ug/Kg#	80 J
67) Ethylbenzene	13.87	91	89624	2.98 ug/Kg	96 J
68) (m+p)Xylene	14.09	106	124860	11.31 ug/Kg	98
69) o-Xylene	14.82	106	55192	5.02 ug/Kg	93
92) Nitrobenzene	20.65	77	866	~~2.85 ug/Kg#~~	~~27~~

@ 2/3

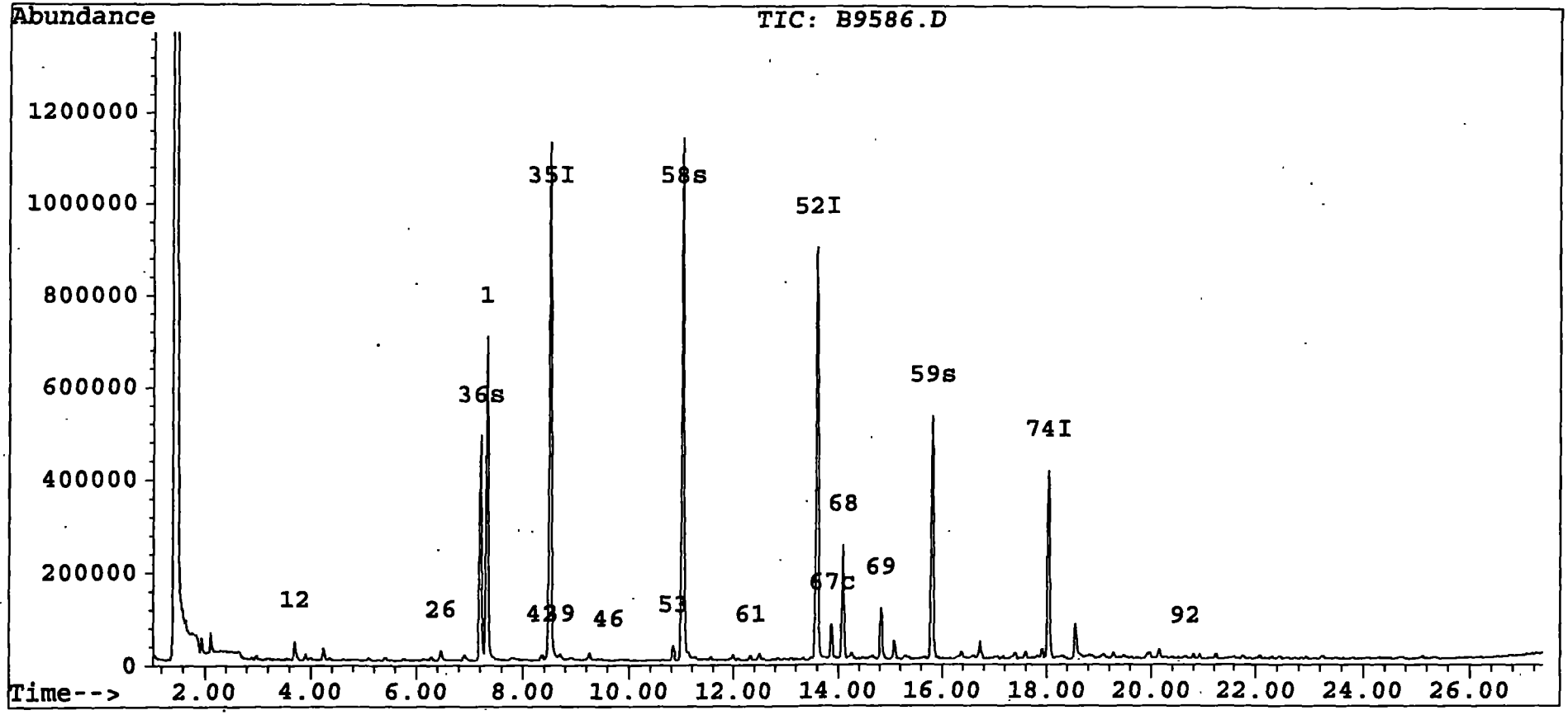
(#) = qualifier out of range (m) = manual integration

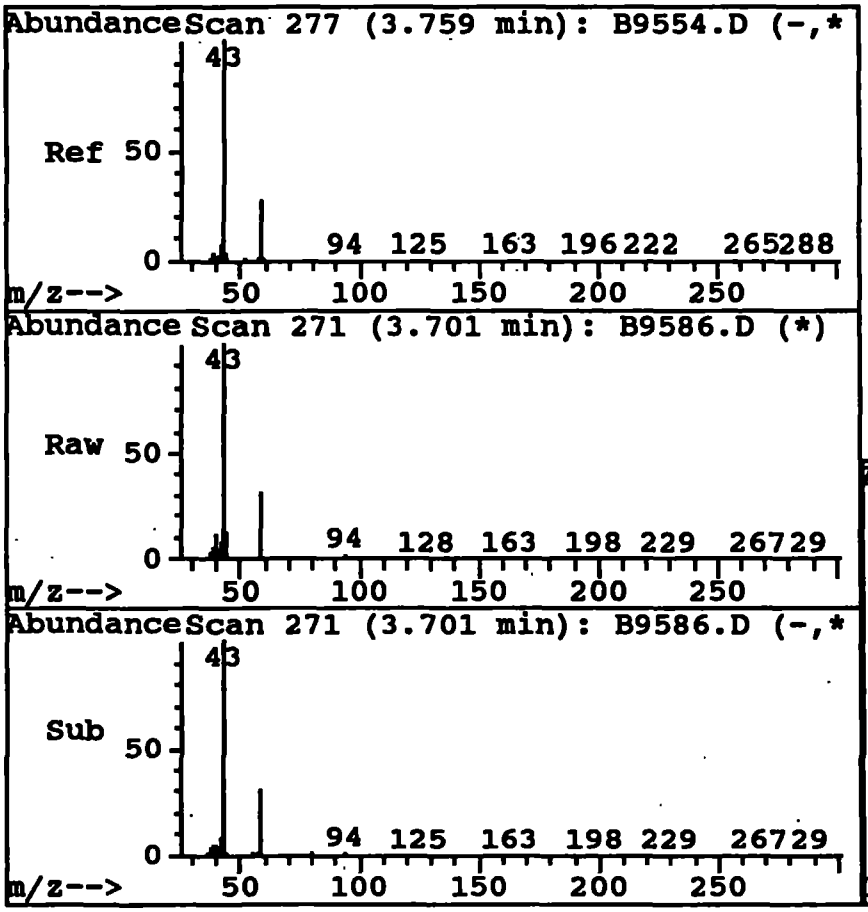
Quantitat n Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9586.D
Acq On : 2 Feb 102 7:46 pm
Sample : 526208 1.73
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 20:14 19102

Vial: 17
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

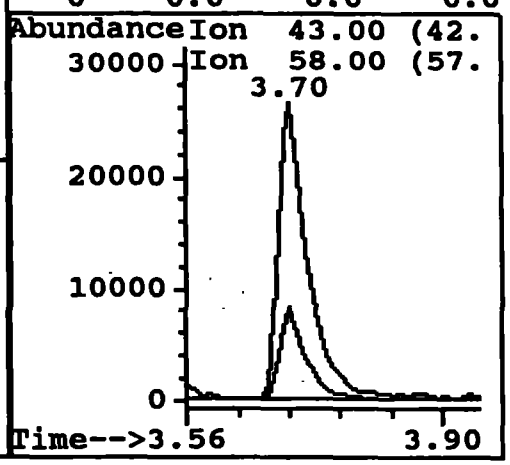


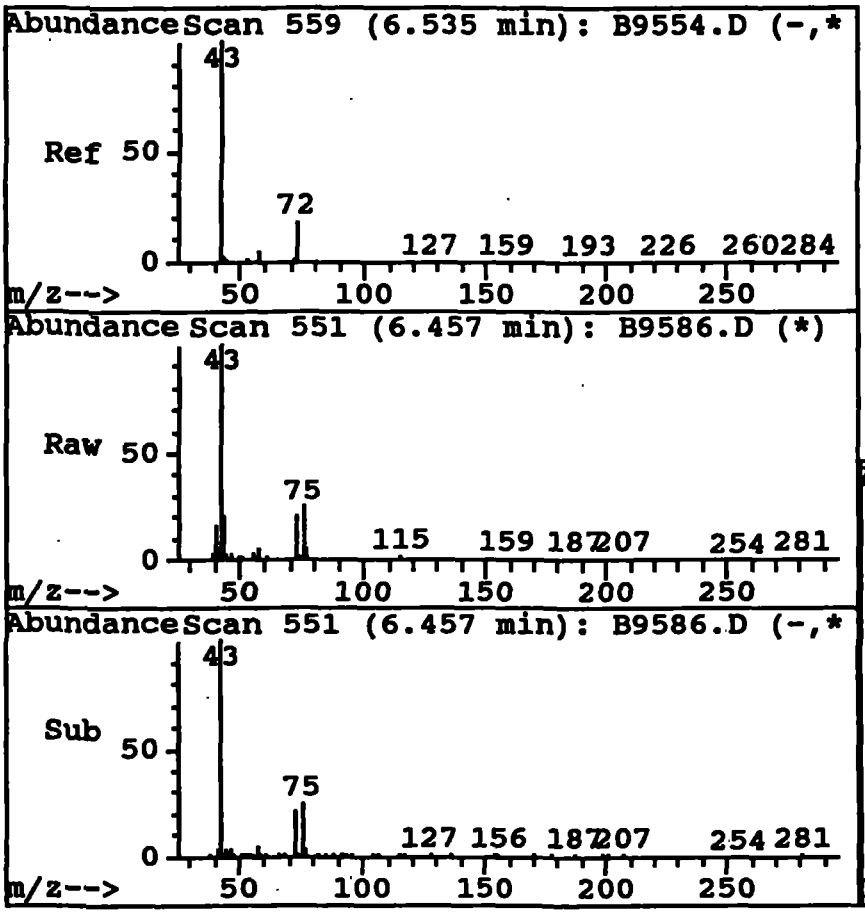


#12
Acetone
Concen: 41.53 ug/Kg
RT: 3.70 min Scan# 271
Delta R.T. -0.06 min
Lab File: B9586.D
Acq: 2 Feb 102 7:46 pm

Tgt Ion:43 Resp: 73853

Ion	Ratio	Lower	Upper
43	100		
58	31.2	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

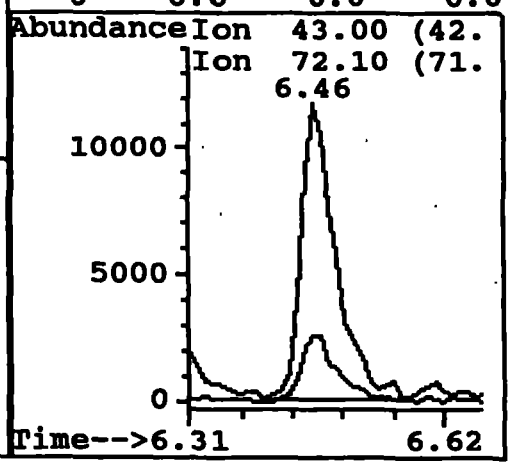


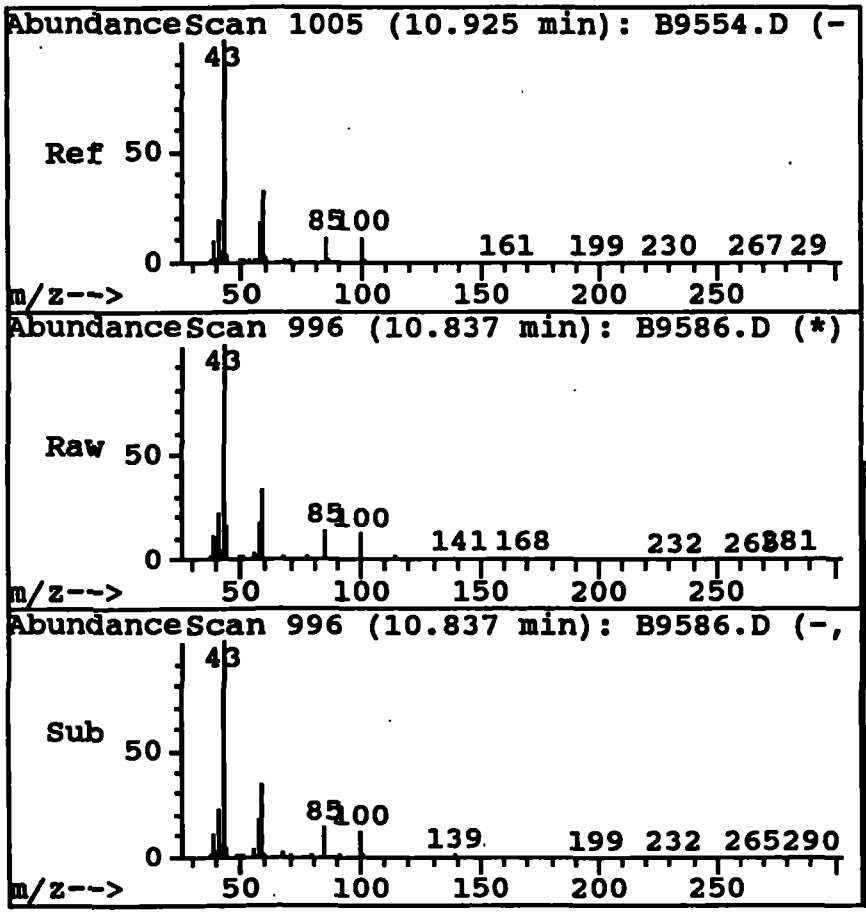


#26
2-Butanone
Concen: 9.72 ug/Kg
RT: 6.46 min Scan# 551
Delta R.T. -0.08 min
Lab File: B9586.D
Acq: 2 Feb 102 7:46 pm

Tgt Ion:43 Resp: 35480

Ion	Ratio	Lower	Upper
43	100		
72	21.8	14.5	24.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

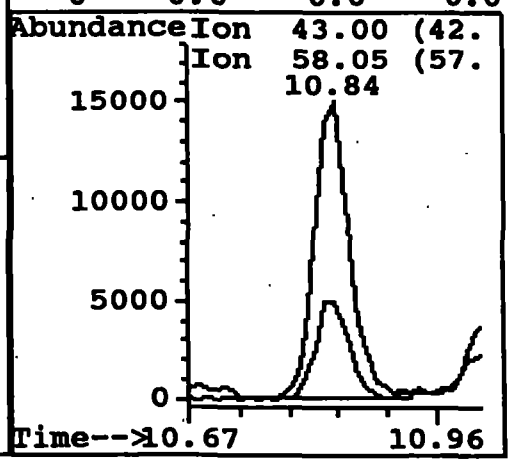


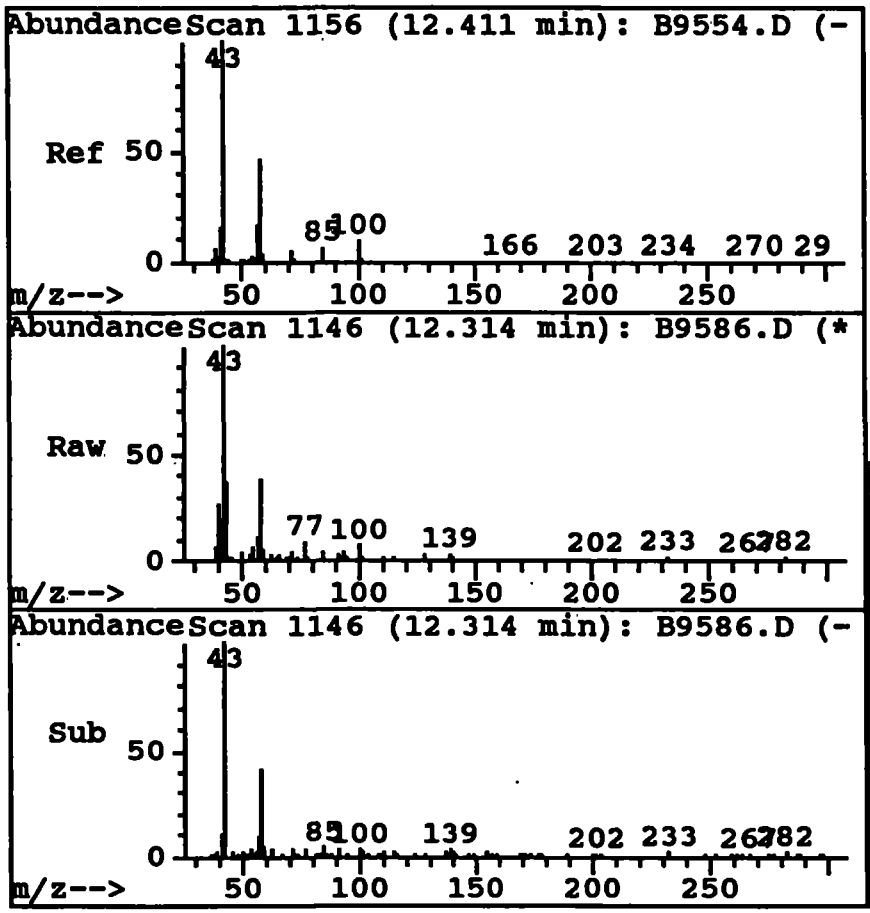


#53
4-Methyl-2-Pentanone
Concen: 4.93 ug/Kg
RT: 10.84 min Scan# 996
Delta R.T. -0.09 min
Lab File: B9586.D
Acq: 2 Feb 102 7:46 pm

Tgt Ion:43 Resp: 42979

Ion	Ratio	Lower	Upper
43	100		
58	33.5	27.0	44.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

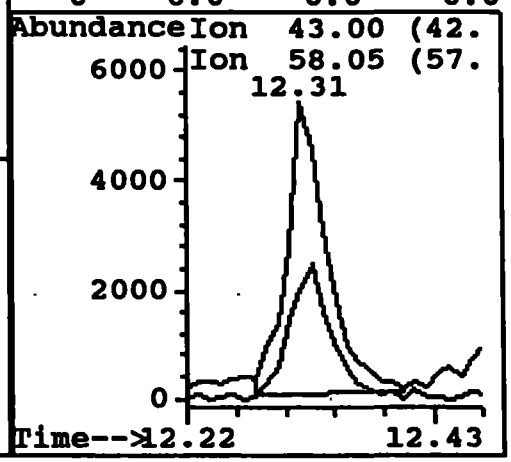


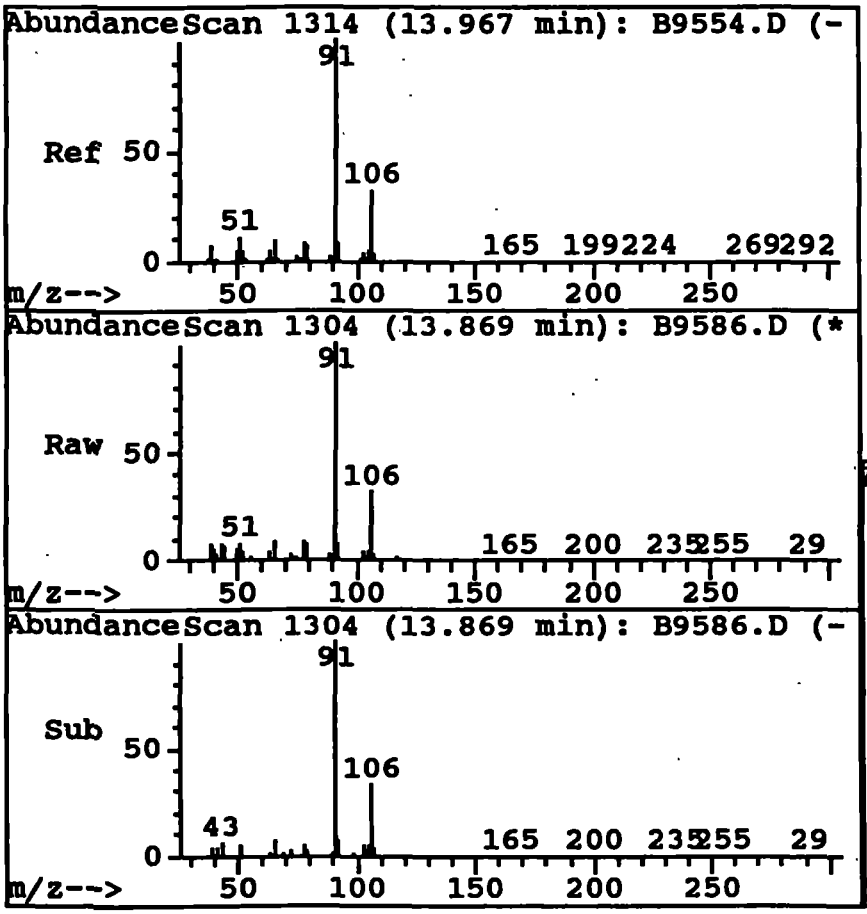


#61
2-Hexanone
Concen: 2.05 ug/Kg
RT: 12.31 min Scan# 1146
Delta R.T. -0.10 min
Lab File: B9586.D
Acq: 2 Feb 102 7:46 pm

Tgt Ion:43 Resp: 12813

Ion	Ratio	Lower	Upper
43	100		
58	37.7	41.5	62.2#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

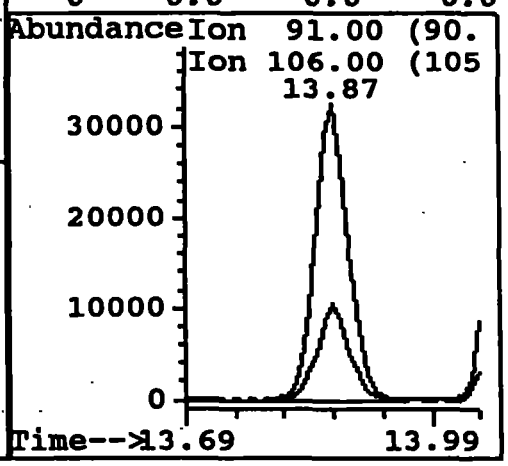


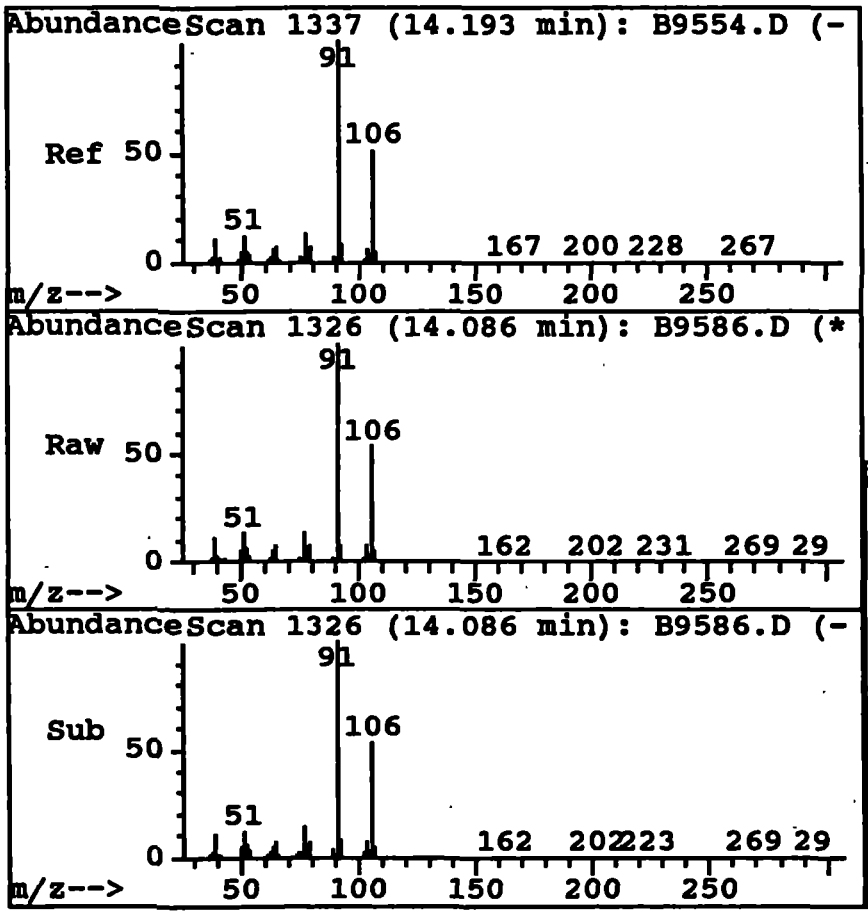


#67
Ethylbenzene
Concen: 2.98 ug/Kg
RT: 13.87 min Scan# 1304
Delta R.T. -0.10 min
Lab File: B9586.D
Acq: 2 Feb 102 7:46 pm

Tgt Ion:91 Resp: 89624

Ion	Ratio	Lower	Upper
91	100		
106	32.4	24.2	36.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

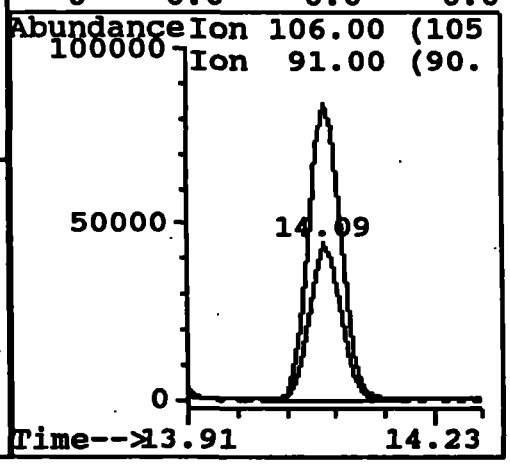


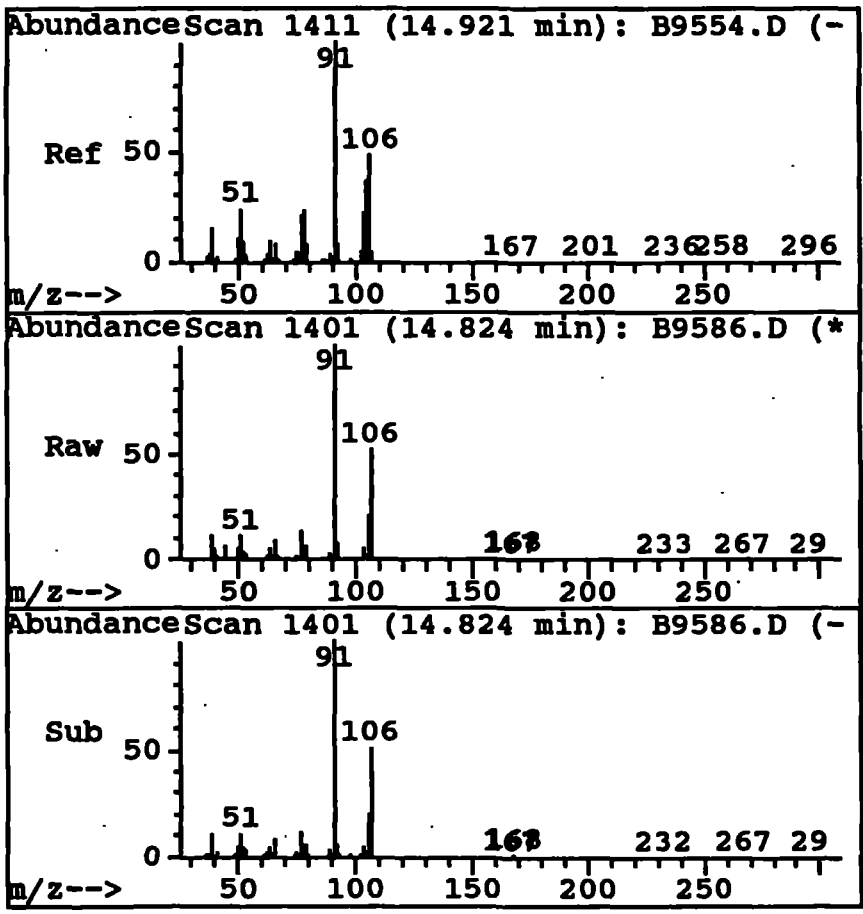


#68
(m+p)Xylene
Concen: 11.31 ug/Kg
RT: 14.09 min Scan# 1326
Delta R.T. -0.11 min
Lab File: B9586.D
Acq: 2 Feb 102 7:46 pm

Tgt Ion:106 Resp: 124860

Ion	Ratio	Lower	Upper
106	100		
91	189.9	154.0	230.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

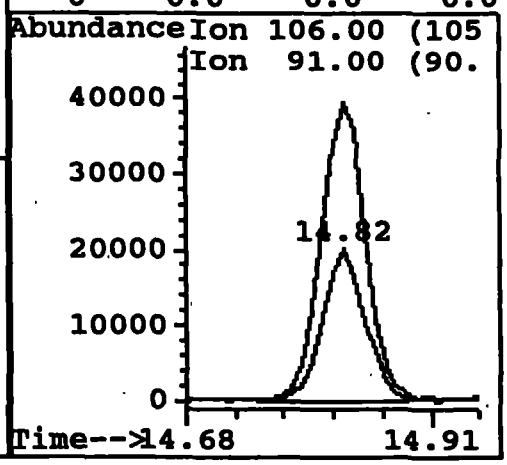




#69
o-Xylene
Concen: 5.02 ug/Kg
RT: 14.82 min Scan# 1401
Delta R.T. -0.10 min
Lab File: B9586.D
Acq: 2 Feb 102 7:46 pm

Tgt Ion:106 Resp: 55192

Ion	Ratio	Lower	Upper
106	100		
91	194.1	163.5	245.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : MTS-GB-SLU2-FD

Date Sampled : 01/21/02 08:00 **Order #:** 526208 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 78.5

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/05/02			
ANALYTICAL DILUTION: 1.80			Dry Weight
ACETONE	20	180	UG/KG
BENZENE	5.0	11 U	UG/KG
BROMODICHLOROMETHANE	5.0	11 U	UG/KG
BROMOFORM	5.0	11 U	UG/KG
BROMOMETHANE	5.0	11 U	UG/KG
2-BUTANONE (MEK)	10	43	UG/KG
CARBON DISULFIDE	10	23 U	UG/KG
CARBON TETRACHLORIDE	5.0	11 U	UG/KG
CHLOROBENZENE	5.0	11 U	UG/KG
CHLOROETHANE	5.0	11 U	UG/KG
CHLOROFORM	5.0	11 U	UG/KG
CHLOROMETHANE	5.0	11 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	11 U	UG/KG
1,1-DICHLOROETHANE	5.0	11 U	UG/KG
1,2-DICHLOROETHANE	5.0	11 U	UG/KG
1,1-DICHLOROETHENE	5.0	11 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	11 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	11 U	UG/KG
1,2-DICHLOROPROPANE	5.0	11 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	11 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	11 U	UG/KG
ETHYLBENZENE	5.0	11 U	UG/KG
2-HEXANONE	10	3.4 J	UG/KG
METHYLENE CHLORIDE	5.0	11 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	23 U	UG/KG
STYRENE	5.0	11 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	11 U	UG/KG
TETRACHLOROETHENE	5.0	11 U	UG/KG
TOLUENE	5.0	11 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	11 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	11 U	UG/KG
TRICHLOROETHENE	5.0	11 U	UG/KG
VINYL CHLORIDE	5.0	11 U	UG/KG
O-XYLENE	5.0	3.9 J	UG/KG
M+P-XYLENE	5.0	10 J	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	87	%
TOLUENE-D8	(71 - 128 %)	110	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	127	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9632.D
Acq On : 5 Feb 102 4:50 pm
Sample : 526208 1.80
Misc : TTEM-KS R22-10416 8260B.TC5
Quant Time: Feb 5 17:18 19102

Vial: 7
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.37	168	555994	50.00	ug/Kg	-0.04
35) 1,4 - Difluorobenzene	8.55	114	1097246	50.00	ug/Kg	-0.04
52) d5 - Chlorobenzene	13.63	117	766073	50.00	ug/Kg	-0.05
74) d4 - Dichlorobenzene	18.07	152	176502	50.00	ug/Kg	-0.06 *
System Monitoring Compounds						%Recovery
36) surr4,Dibrflmethane	7.24	113	334829	63.66	ug/Kg	127.32%
58) surr3,Toluene-d8	11.05	98	966193	55.12	ug/Kg	110.24%
59) surr2,bfb	15.84	95	305779	43.68	ug/Kg	87.35%
Target Compounds						Qvalue
12) Acetone	3.73	43	112282	80.85	ug/Kg	98
16) Allyl Chloride	3.93	76	12233	~~4.40~~	~~ug/Kg#~~	~~1~~
26) 2-Butanone	6.49	43	54072	18.97	ug/Kg	98
33) Tetrahydrofuran	6.93	42	13424	2.52	ug/Kg	96 < NJ
39) Iso-Butyl Alcohol	8.39	43	18338	~~37.00~~	~~ug/Kg#~~	~~62~~
42) N-Heptane	8.39	43	18338	~~1.85~~	~~ug/Kg#~~	~~36~~
46) 1,4-Dioxane	9.40	88	271	~~4.03~~	~~ug/Kg~~	~~99~~
61) 2-Hexanone	12.35	43	7710	1.51	ug/Kg#	80 < 5
68) (m+p)Xylene	14.13	106	40295	4.46	ug/Kg	91 < 5
69) o-Xylene	14.87	106	15546	1.73	ug/Kg	83 < 5

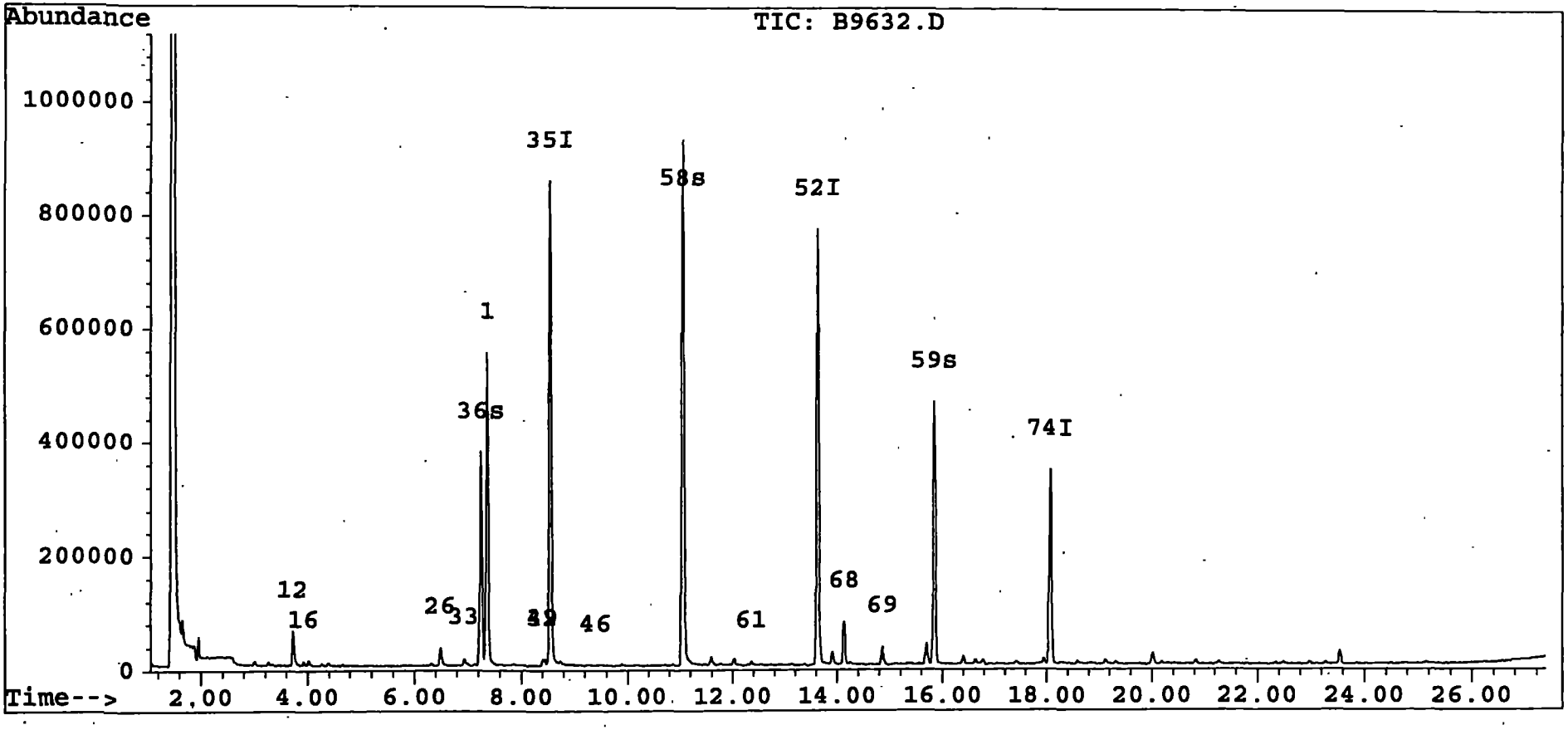
2/4

(#) = qualifier out of range (m) = manual integration

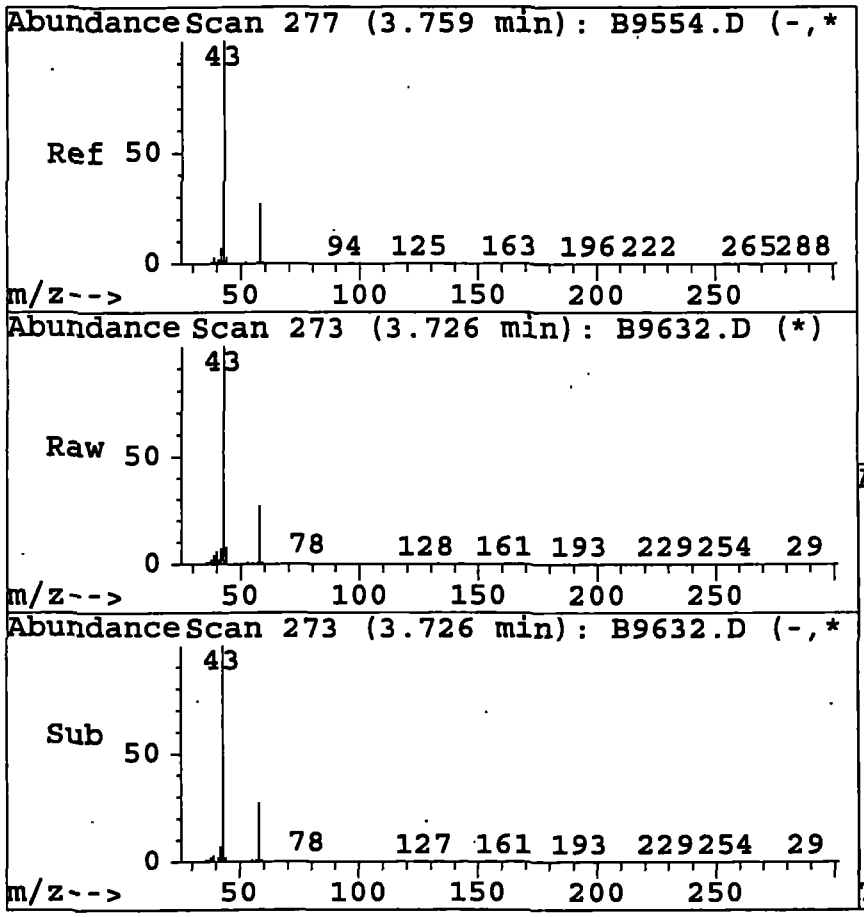
Quantita on Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9632.D Vial: 7
Acq On : 5 Feb 102 4:50 pm Operator: DROOT
Sample : 526208 1.80 Inst : 5971 - In
Misc : TTEM-KS R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 5 17:18 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration



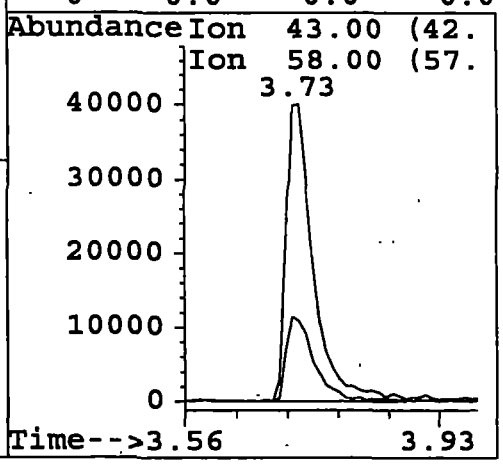
107

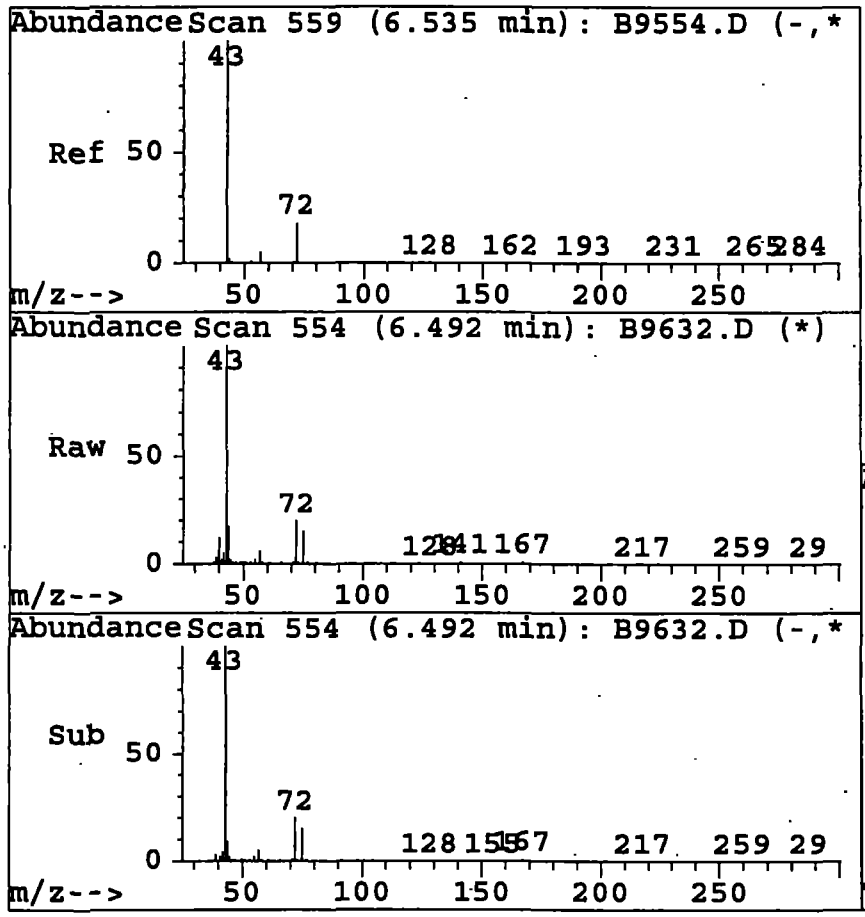


#12
Acetone
Concen: 80.85 ug/Kg
RT: 3.73 min Scan# 273
Delta R.T. -0.02 min
Lab File: B9632.D
Acq: 5 Feb 102 4:50 pm

Tgt Ion:43 Resp: 112282

Ion	Ratio	Lower	Upper
43	100		
58	27.2	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

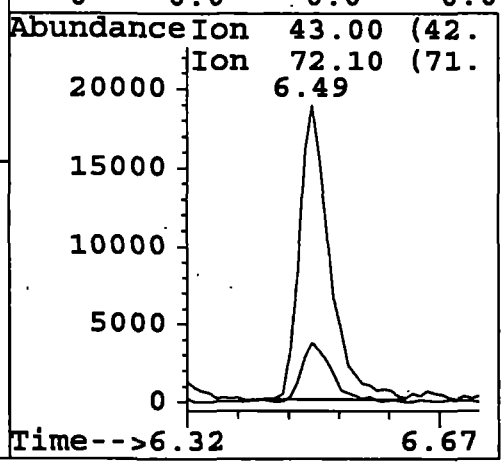


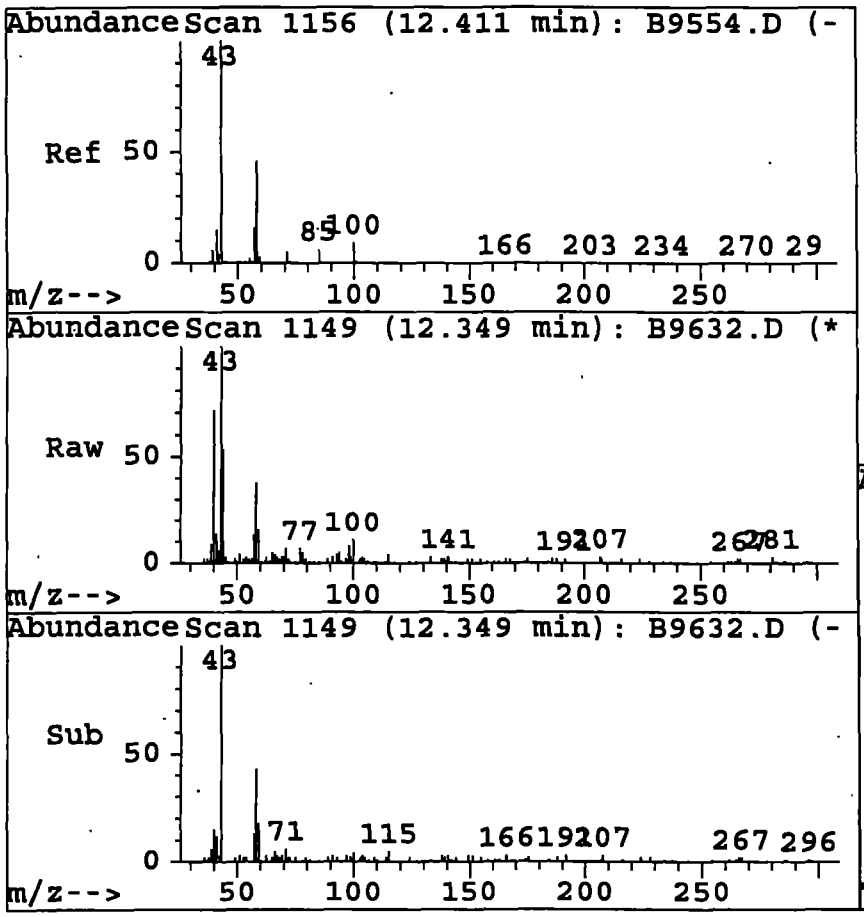


#26
2-Butanone
Concen: 18.97 ug/Kg
RT: 6.49 min Scan# 554
Delta R.T. -0.03 min
Lab File: B9632.D
Acq: 5 Feb 102 4:50 pm

Tgt Ion:43 Resp: 54072

Ion	Ratio	Lower	Upper
43	100		
72	20.0	14.5	24.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

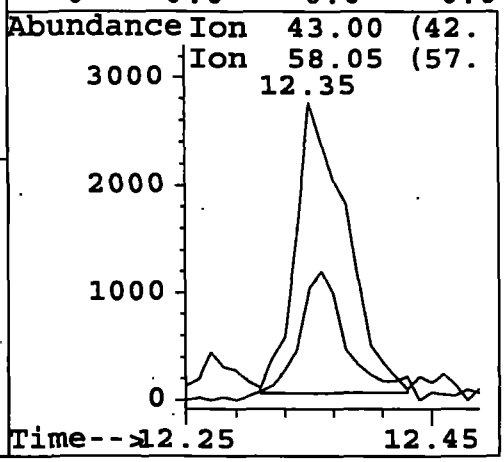


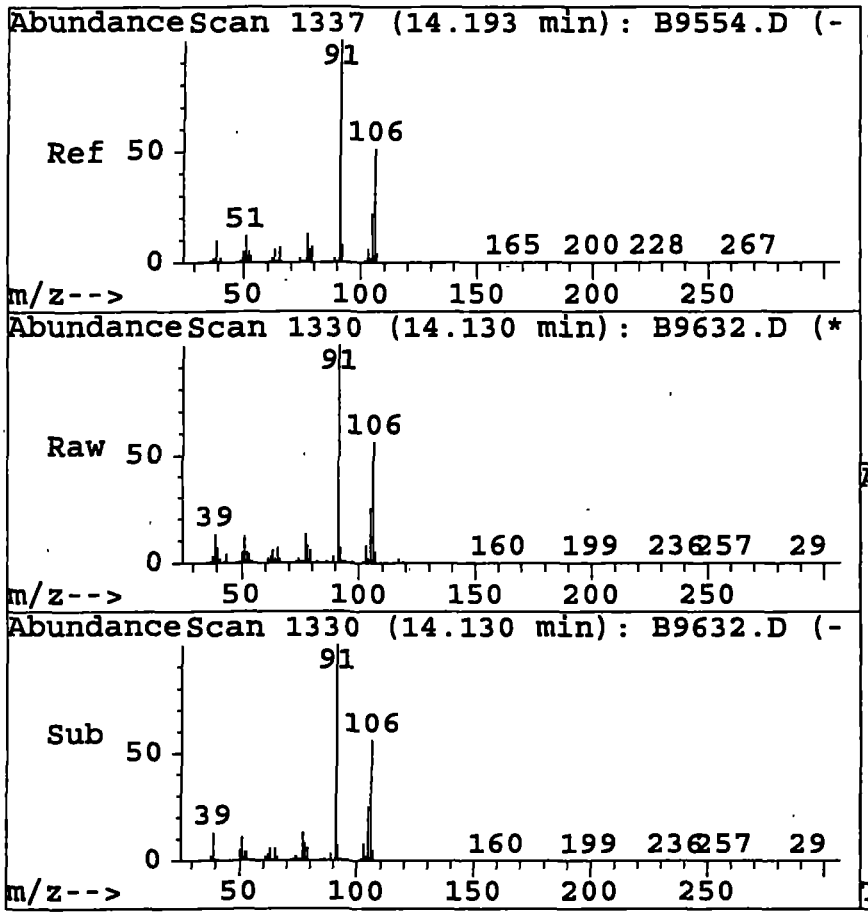


#61
2-Hexanone
Concen: 1.51 ug/Kg
RT: 12.35 min Scan# 1149
Delta R.T. -0.05 min
Lab File: B9632.D
Acq: 5 Feb 102 4:50 pm

Tgt Ion:43 Resp: 7710

Ion	Ratio	Lower	Upper
43	100		
58	37.9	41.5	62.2#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

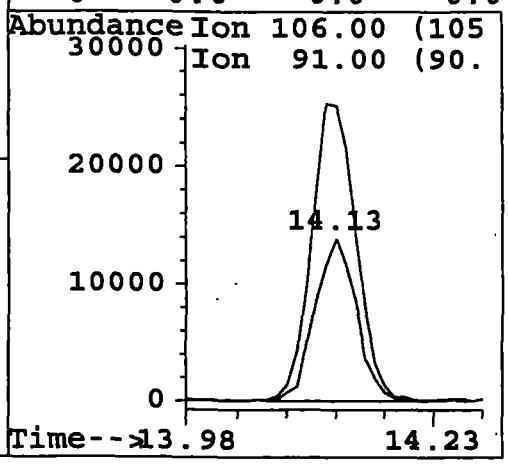


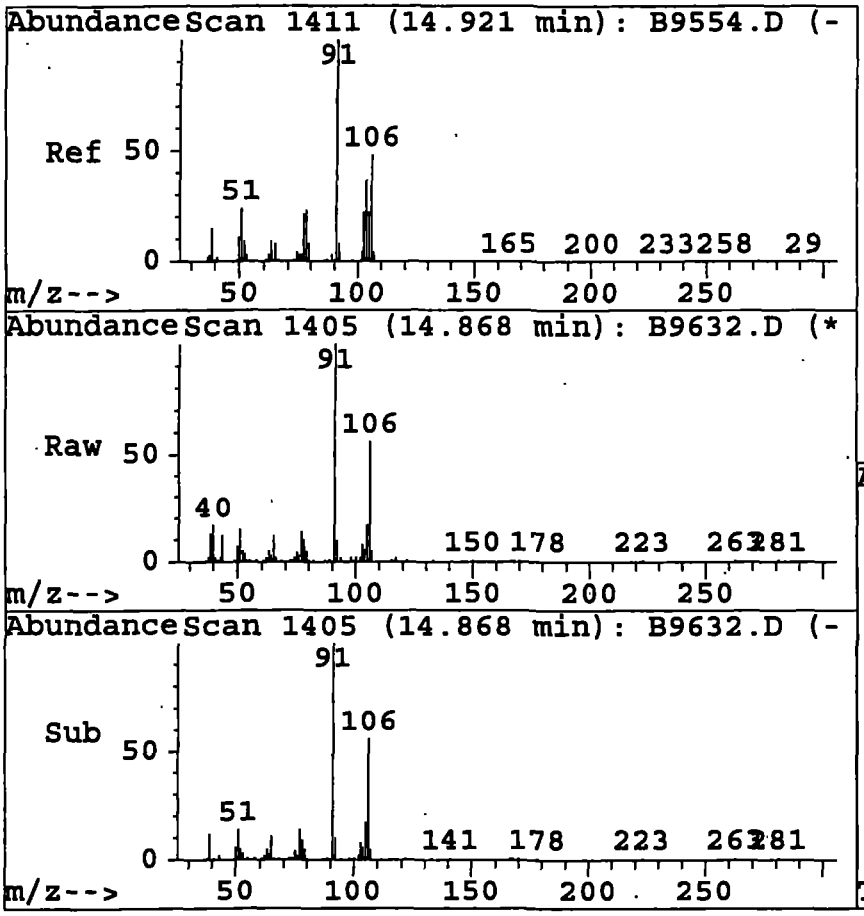


#68
(m+p)Xylene
Concen: 4.46 ug/Kg
RT: 14.13 min Scan# 1330
Delta R.T. -0.05 min
Lab File: B9632.D
Acq: 5 Feb 102 4:50 pm

Tgt Ion:106 Resp: 40295

Ion	Ratio	Lower	Upper
106	100		
91	179.8	154.0	230.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

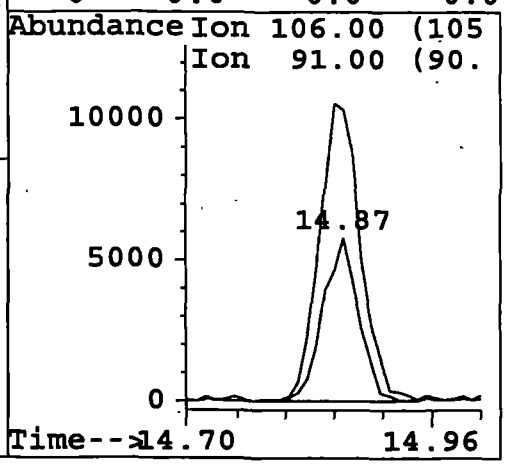




#69
o-Xylene
Concen: 1.73 ug/Kg
RT: 14.87 min Scan# 1405
Delta R.T. -0.05 min
Lab File: B9632.D
Acq: 5 Feb 102 4:50 pm

Tgt Ion:106 Resp: 15546

Ion	Ratio	Lower	Upper
106	100		
91	178.1	163.5	245.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : MTS-GB-SLU-3

Date Sampled : 01/21/02 09:00 **Order #:** 526209 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 48.3

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/04/02			
ANALYTICAL DILUTION: 0.64			Dry Weight
ACETONE	20	190	UG/KG
BENZENE	5.0	6.6 U	UG/KG
BROMODICHLOROMETHANE	5.0	6.6 U	UG/KG
BROMOFORM	5.0	6.6 U	UG/KG
BROMOMETHANE	5.0	6.6 U	UG/KG
2-BUTANONE (MEK)	10	39	UG/KG
CARBON DISULFIDE	10	2.9 J	UG/KG
CARBON TETRACHLORIDE	5.0	6.6 U	UG/KG
CHLOROBENZENE	5.0	6.6 U	UG/KG
CHLOROETHANE	5.0	6.6 U	UG/KG
CHLOROFORM	5.0	6.6 U	UG/KG
CHLOROMETHANE	5.0	6.6 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	6.6 U	UG/KG
1,1-DICHLOROETHANE	5.0	6.6 U	UG/KG
1,2-DICHLOROETHANE	5.0	6.6 U	UG/KG
1,1-DICHLOROETHENE	5.0	6.6 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	6.6 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	6.6 U	UG/KG
1,2-DICHLOROPROPANE	5.0	6.6 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	6.6 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	6.6 U	UG/KG
ETHYLBENZENE	5.0	720 E	UG/KG
2-HEXANONE	10	13 U	UG/KG
METHYLENE CHLORIDE	5.0	6.6 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	7.0 J	UG/KG
STYRENE	5.0	6.6 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	6.6 U	UG/KG
TETRACHLOROETHENE	5.0	6.6 U	UG/KG
TOLUENE	5.0	15	UG/KG
1,1,1-TRICHLOROETHANE	5.0	6.6 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	6.6 U	UG/KG
TRICHLOROETHENE	5.0	6.6 U	UG/KG
VINYL CHLORIDE	5.0	6.6 U	UG/KG
O-XYLENE	5.0	1000 E	UG/KG
M+P-XYLENE	5.0	2700 E	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	83	%
TOLUENE-D8	(71 - 128 %)	110	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	120	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9612.D Vial: 5
Acq On : 4 Feb 102 4:04 pm Operator: DROOT
Sample : 526209 0.64 Inst : 5971 - In
Misc : TTEM-KS R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 4 16:32 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.36	168	635249	50.00	ug/Kg	-0.05
35) 1,4 - Difluorobenzene	8.55	114	1173720	50.00	ug/Kg	-0.05
52) d5 - Chlorobenzene	13.63	117	791217	50.00	ug/Kg	-0.05
74) d4 - Dichlorobenzene	18.07	152	188231	50.00	ug/Kg	-0.06 *
System Monitoring Compounds						%Recovery
36) surr4,Dibrflmethane	7.24	113	337893	60.06	ug/Kg	120.12%
58) surr3,Toluene-d8	11.06	98	996186	55.03	ug/Kg	110.05%
59) surr2,bfb	15.84	95	299767	41.46	ug/Kg	82.91%
Target Compounds						Qvalue
12) Acetone	3.72	43	226252	142.60	ug/Kg	95
14) Carbon Disulfide	3.93	76	45492	2.21	ug/Kg	98 J
15) Acetonitrile	4.26	41	10795	~~71.29~~	~~ug/Kg~~	~~93~~
16) Allyl Chloride	3.93	76	45492	~~14.32~~	~~ug/Kg#~~	~~1~~
18) TBA	4.65	59	11268	19.24	ug/Kg#	91 NT
26) 2-Butanone	6.49	43	97234	29.86	ug/Kg	96
33) Tetrahydrofuran	6.93	42	15191	2.44	ug/Kg	91 <NT
39) Iso-Butyl Alcohol	8.40	43	32742	~~61.76~~	~~ug/Kg~~	~~91~~
42) N-Heptane	8.40	43	32895	3.11	ug/Kg#	84 NT
46) 1,4-Dioxane	9.57	88	413	~~5.74~~	~~ug/Kg~~	~~94~~
53) 4-Methyl-2-Pentanone	10.88	43	39475	5.36	ug/Kg	93
54) Toluene	11.16	91	269150	11.32	ug/Kg	98
67) Ethylbenzene	13.91	91	13784102	541.97	ug/Kg	92 E
68) (m+p)Xylene	14.15	106	19161707	2052.50	ug/Kg#	44 E
69) o-Xylene	14.87	106	7319291	787.43	ug/Kg	89 E
70) Styrene	14.87	104	32701	~~20.45~~	~~ug/Kg#~~	~~1~~
72) Isopropylbenzene	15.57	105	311917	12.92	ug/Kg	97 NT
78) n-Propylbenzene	16.36	91	180452	10.94	ug/Kg	98
80) 1,3,5-Trimethylbenzene	16.71	105	79212	7.78	ug/Kg#	51
81) 2-Chlorotoluene	16.54	91	44160	~~4.49~~	~~ug/Kg#~~	~~44~~
83) tert-Butylbenzene	17.42	119	16191	~~1.75~~	~~ug/Kg#~~	~~1~~
84) 1,2,4-Trimethylbenzene	17.42	105	138868	13.76	ug/Kg	98 MT
85) sec-Butylbenzene	17.42	105	13733	~~9.34~~	~~ug/Kg#~~	~~59~~
86) p-Isopropyltoluene	18.05	119	80544	~~7.08~~	~~ug/Kg#~~	~~66~~

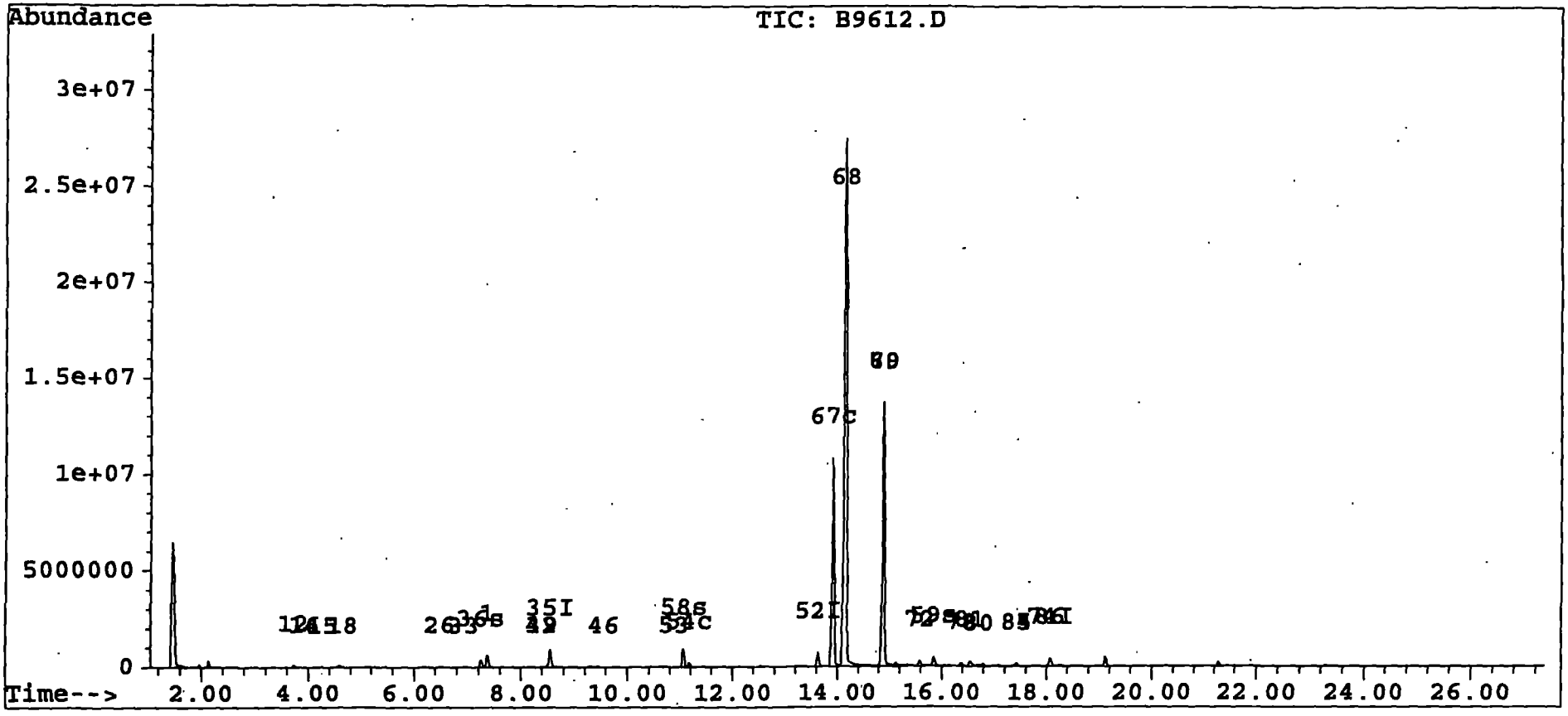
(#) = qualifier out of range (m) = manual integration

Quantitat' Report

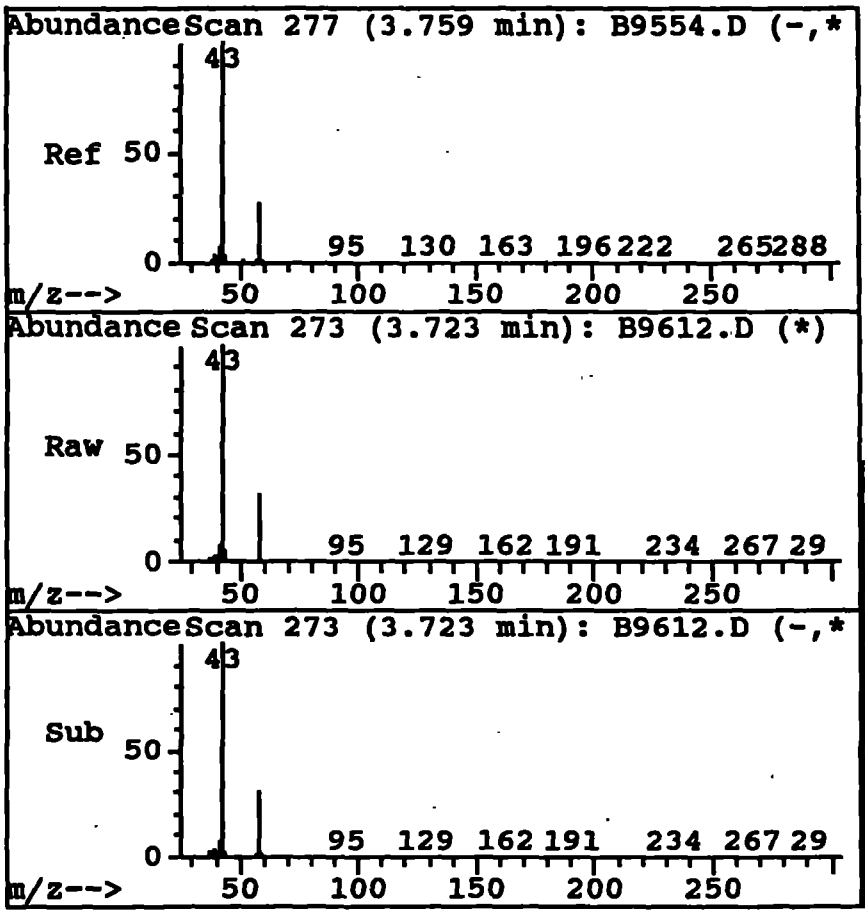
Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9612.D
Acq On : 4 Feb 102 4:04 pm
Sample : 526209 0.64
Misc : TTEM-KS R22-10416 8260B.TC5
Quant Time: Feb 4 16:32 19102

Vial: 5
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration



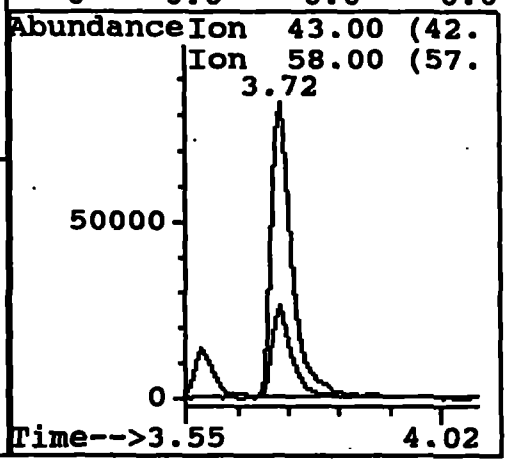
115

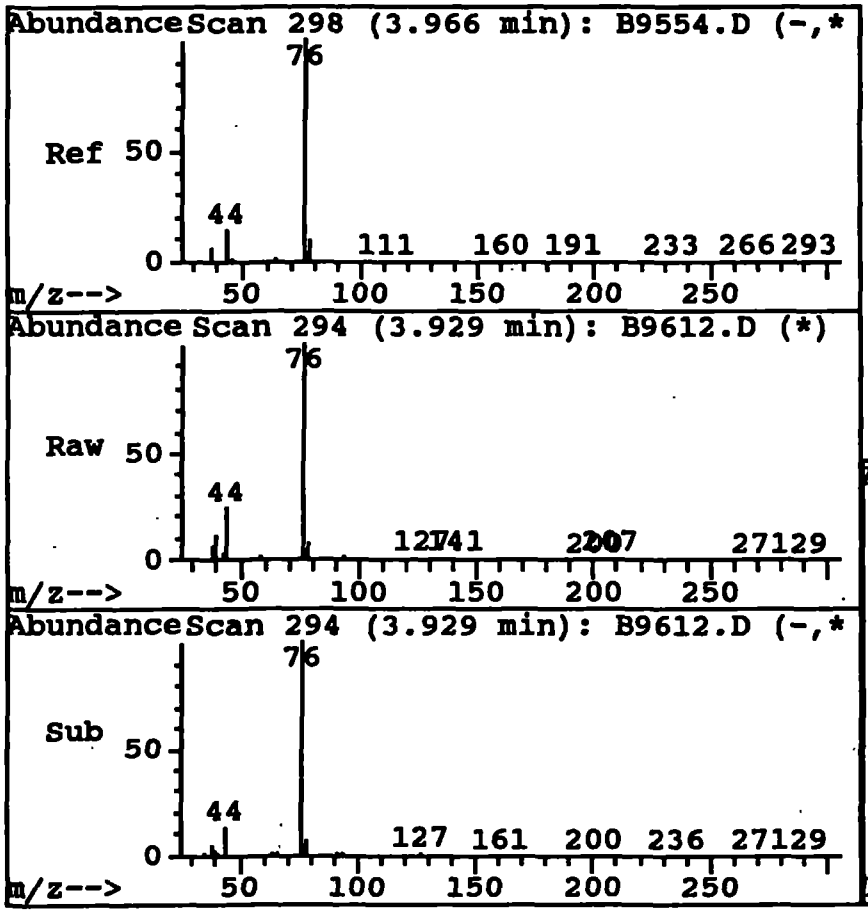


#12
Acetone
Concen: 142.60 ug/Kg
RT: 3.72 min Scan# 273
Delta R.T. -0.03 min
Lab File: B9612.D
Acq: 4 Feb 102 4:04 pm

Tgt Ion:43 Resp: 226252

Ion	Ratio	Lower	Upper
43	100		
58	31.3	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

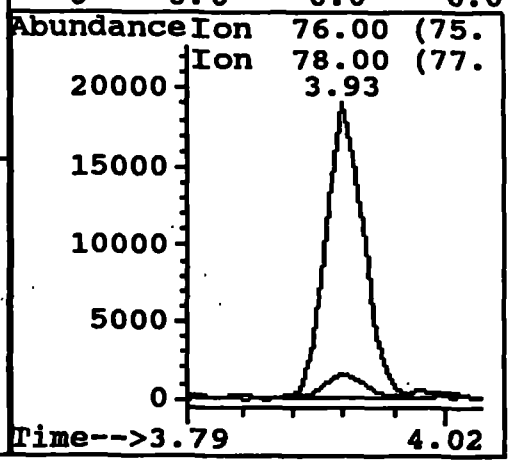


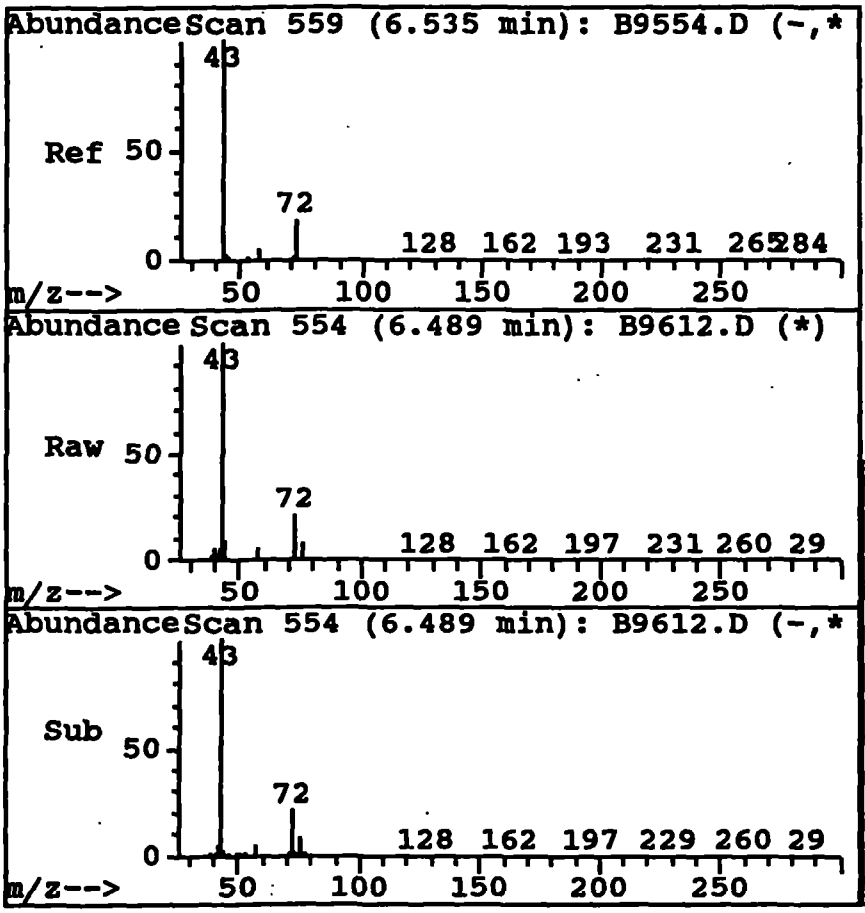


#14
Carbon Disulfide
Concen: 2.21 ug/Kg
RT: 3.93 min Scan# 294
Delta R.T. -0.04 min
Lab File: B9612.D
Acq: 4 Feb 102 4:04 pm

Tgt Ion:76 Resp: 45492

Ion	Ratio	Lower	Upper
76	100		
78	8.3	6.4	11.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

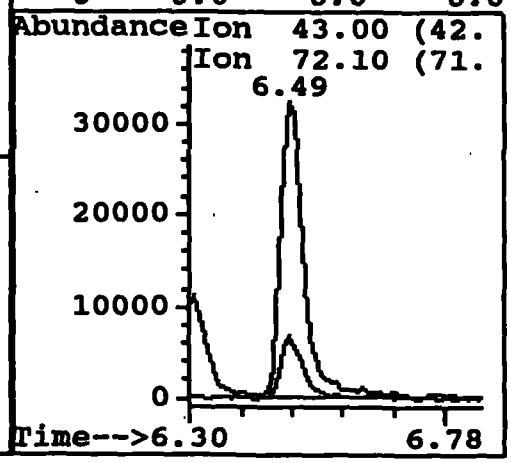


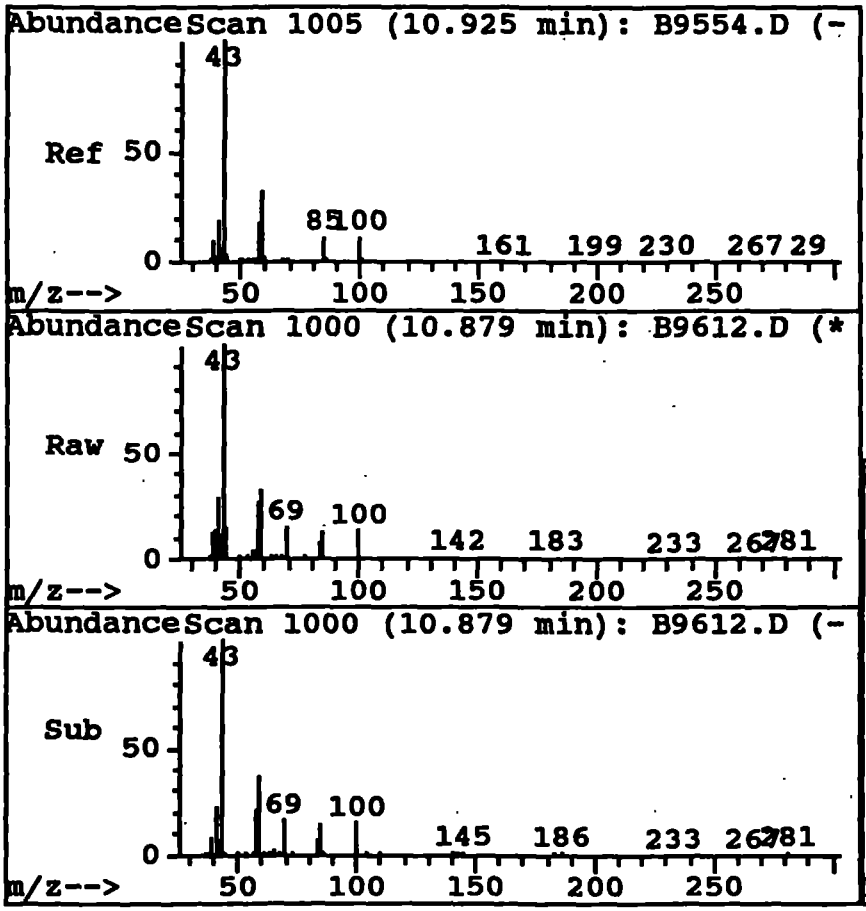


#26
2-Butanone
Concen: 29.86 ug/Kg
RT: 6.49 min Scan# 554
Delta R.T. -0.04 min
Lab File: B9612.D
Acq: 4 Feb 102 4:04 pm

Tgt Ion:43 Resp: 97234

Ion	Ratio	Lower	Upper
43	100		
72	21.2	14.5	24.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

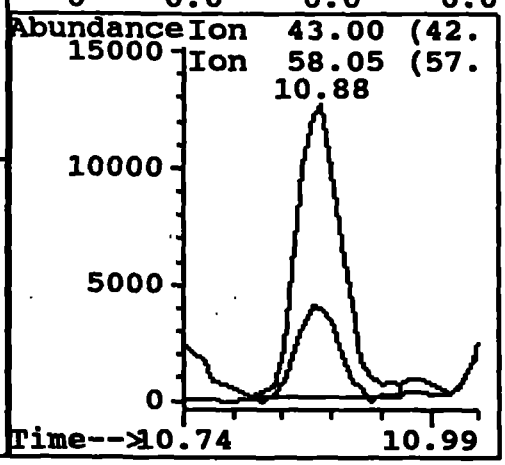


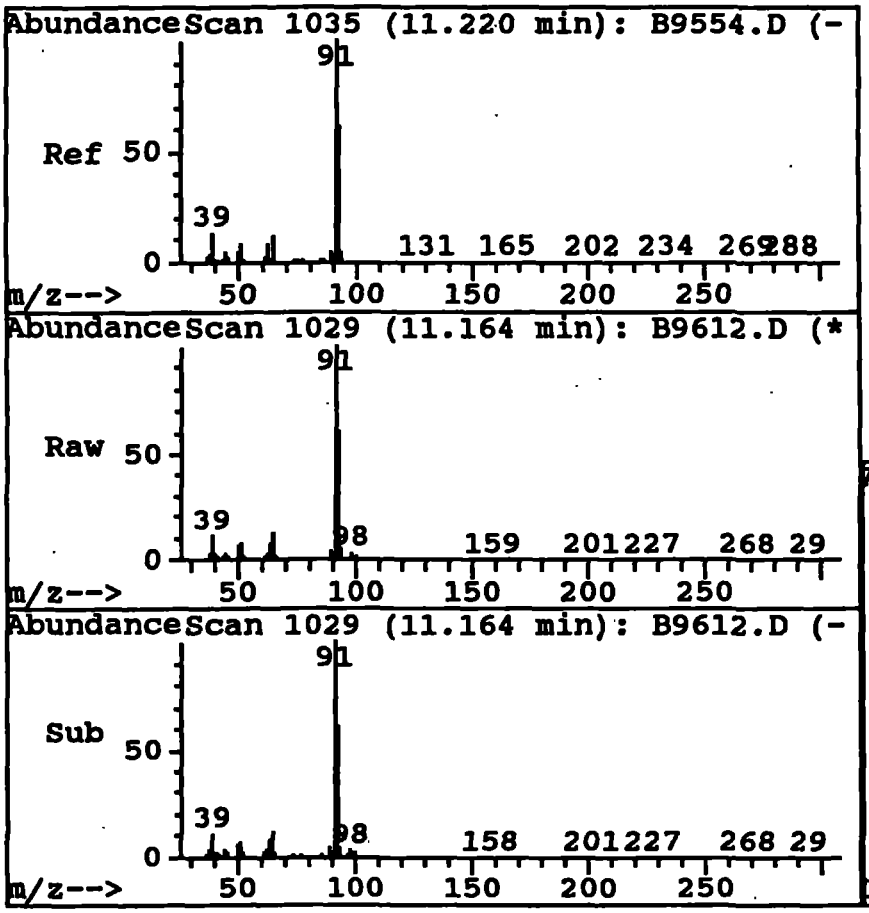


#53
4-Methyl-2-Pentanone
Concen: 5.36 ug/Kg
RT: 10.88 min Scan# 1000
Delta R.T. -0.04 min
Lab File: B9612.D
Acq: 4 Feb 102 4:04 pm

Tgt Ion:43 Resp: 39475

Ion	Ratio	Lower	Upper
43	100		
58	31.6	27.0	44.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

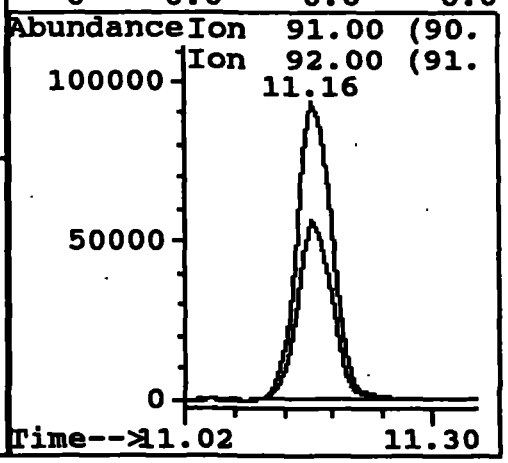


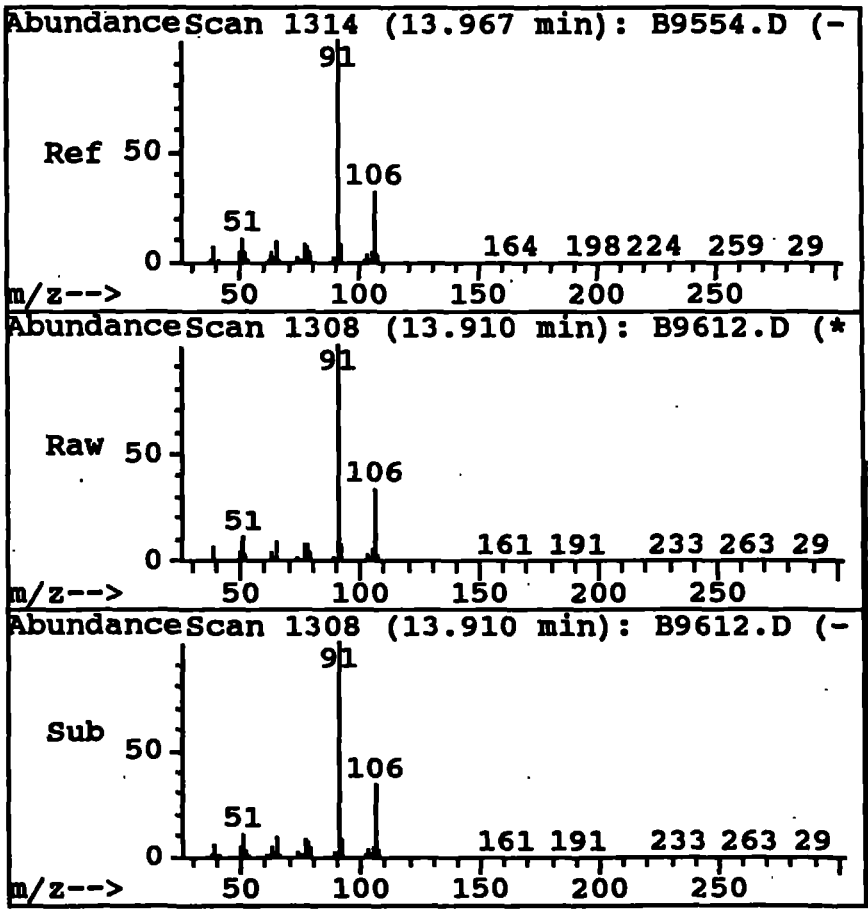


#54
Toluene
Concen: 11.32 ug/Kg
RT: 11.16 min Scan# 1029
Delta R.T. -0.06 min
Lab File: B9612.D
Acq: 4 Feb 102 4:04 pm

Tgt Ion:91 Resp: 269150

Ion	Ratio	Lower	Upper
91	100		
92	61.0	47.9	71.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

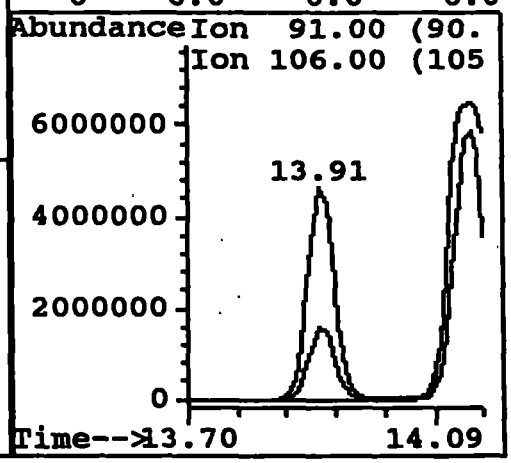


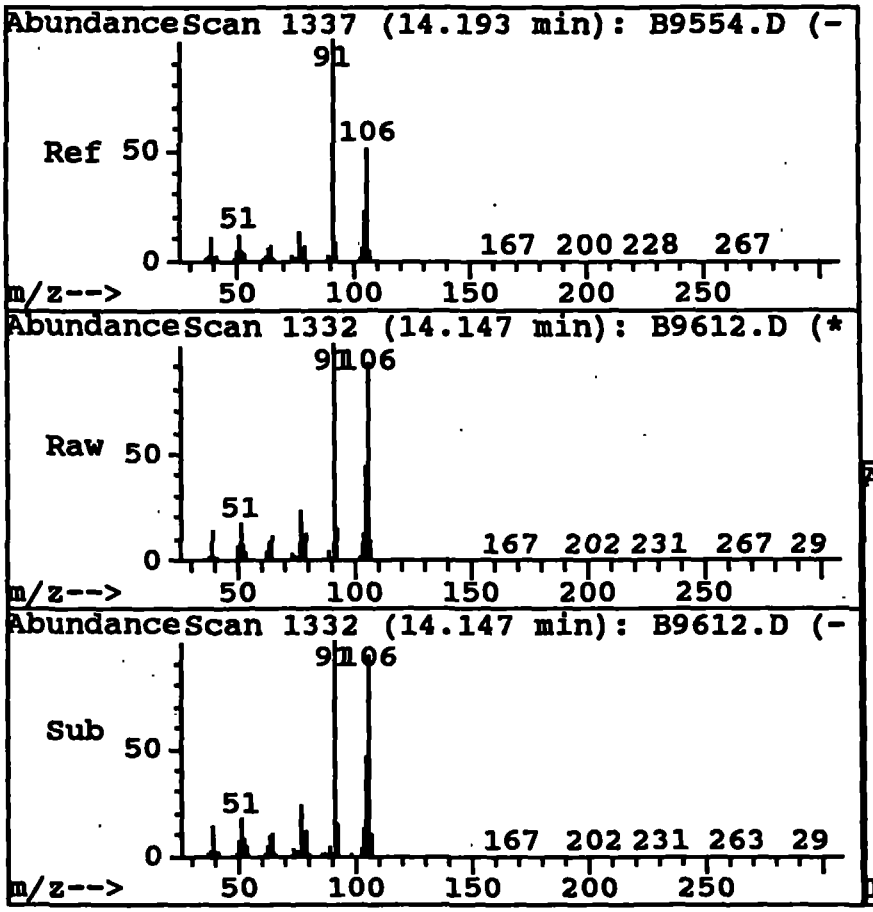


#67
Ethylbenzene
Concen: 541.97 ug/Kg
RT: 13.91 min Scan# 1308
Delta R.T. -0.05 min
Lab File: B9612.D
Acq: 4 Feb 102 4:04 pm

Tgt Ion:91 Resp:13784102

Ion	Ratio	Lower	Upper
91	100		
106	34.4	24.2	36.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

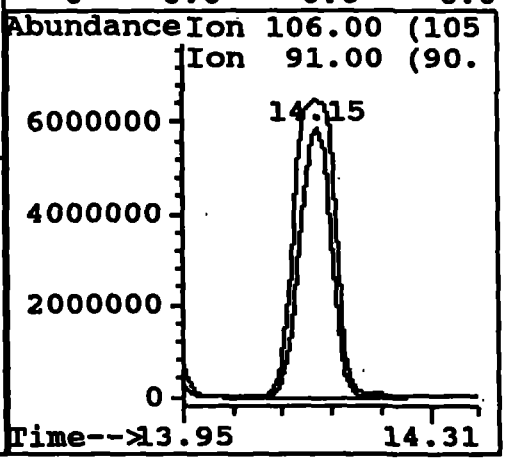


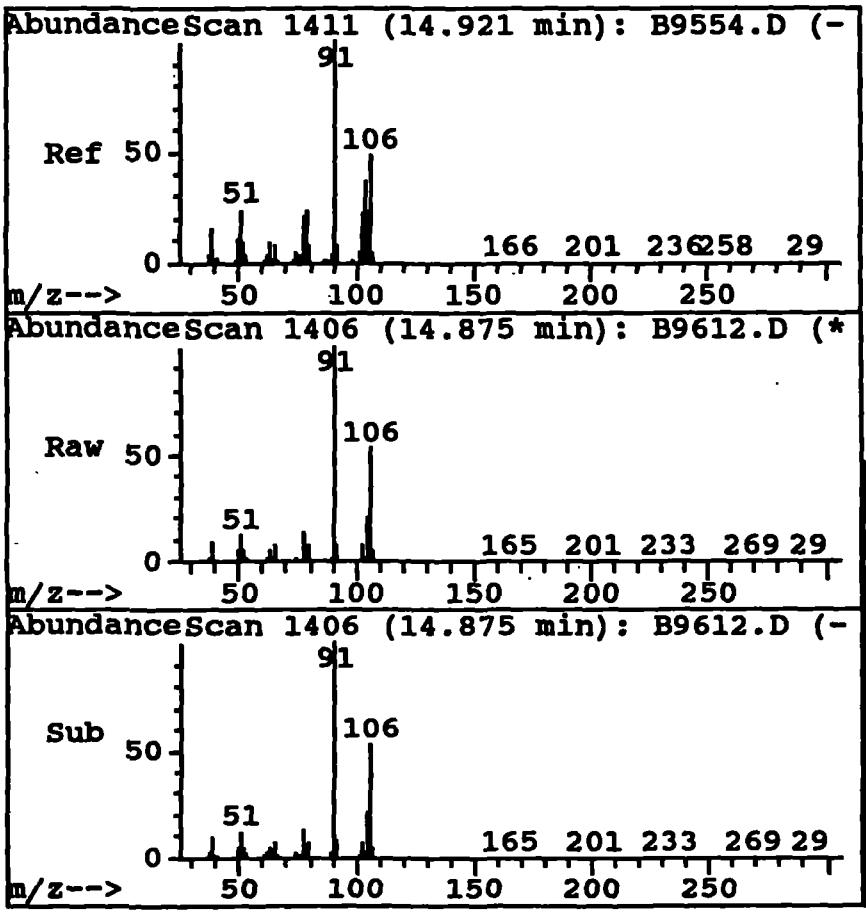


#68
(m+p)Xylene
Concen: 2052.50 ug/Kg
RT: 14.15 min Scan# 1332
Delta R.T. -0.04 min
Lab File: B9612.D
Acq: 4 Feb 102 4:04 pm

Tgt Ion:106 Resp:19161707

Ion	Ratio	Lower	Upper
106	100		
91	110.0	154.0	230.9#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

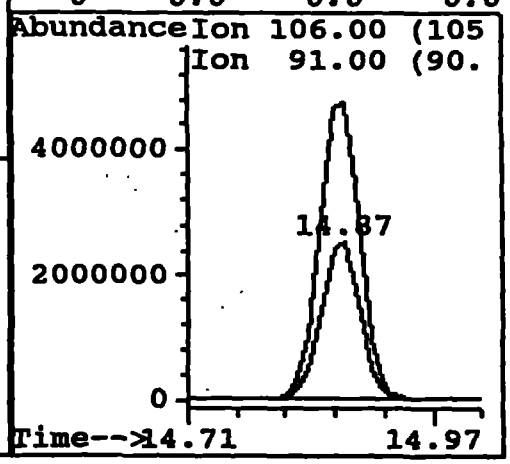




#69
o-Xylene
Concen: 787.43 ug/Kg
RT: 14.87 min Scan# 1406
Delta R.T. -0.05 min
Lab File: B9612.D
Acq: 4 Feb 102 4:04 pm

Tgt Ion:106 Resp: 7319291

Ion	Ratio	Lower	Upper
106	100		
91	187.1	163.5	245.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : MTS-GB-SLU-3

Date Sampled : 01/21/02 09:00 **Order #:** 526209 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 48.3

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/04/02			
ANALYTICAL DILUTION: 93.00			Dry Weight
ACETONE	20	790 J	UG/KG
BENZENE	5.0	960 U	UG/KG
BROMODICHLOROMETHANE	5.0	960 U	UG/KG
BROMOFORM	5.0	960 U	UG/KG
BROMOMETHANE	5.0	960 U	UG/KG
2-BUTANONE (MEK)	10	250 J	UG/KG
CARBON DISULFIDE	10	1900 U	UG/KG
CARBON TETRACHLORIDE	5.0	960 U	UG/KG
CHLOROBENZENE	5.0	960 U	UG/KG
CHLOROETHANE	5.0	960 U	UG/KG
CHLOROFORM	5.0	960 U	UG/KG
CHLOROMETHANE	5.0	960 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	960 U	UG/KG
.,1-DICHLOROETHANE	5.0	960 U	UG/KG
1,2-DICHLOROETHANE	5.0	960 U	UG/KG
1,1-DICHLOROETHENE	5.0	960 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	960 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	960 U	UG/KG
1,2-DICHLOROPROPANE	5.0	960 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	960 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	960 U	UG/KG
ETHYLBENZENE	5.0	2500	UG/KG
2-HEXANONE	10	1900 U	UG/KG
METHYLENE CHLORIDE	5.0	960 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1900 U	UG/KG
STYRENE	5.0	960 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	960 U	UG/KG
TETRACHLOROETHENE	5.0	960 U	UG/KG
TOLUENE	5.0	960 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	960 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	960 U	UG/KG
TRICHLOROETHENE	5.0	960 U	UG/KG
VINYL CHLORIDE	5.0	960 U	UG/KG
O-XYLENE	5.0	3700	UG/KG
M+P-XYLENE	5.0	9700	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	116	%
TOLUENE-D8	(71 - 128 %)	107	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	103	%

Quantitation Report (Not Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7372.D Vial: 13
Acq On : 4 Feb 2002 6:39 pm Operator: BALLGEIER
Sample : 526209 1~~28~~.0 93 Inst : GC/MS Ins
Misc : TTEM R22-10416 8260B.TCLH Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 4 19:08 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.56	168	946904	50.00 ug/L	0.00
34) 1,4-Difluorobenzene	12.93	114	1553437	50.00 ug/L	0.00
58) d5-Chlorobenzene	18.20	117	1363946	50.00 ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.53	152	712307	50.00 ug/L	0.00
System Monitoring Compounds					
35) surr4,Dibrflmethane	11.62	113	500005	51.40 ug/L	0.00
Spiked Amount 50.000			Recovery	= 102.80%	
52) SURR3,Toluene-d8	15.55	98	1640600	53.66 ug/L	0.00
Spiked Amount 50.000			Recovery	= 107.32%	
57) SURR2,BFB	20.34	95	742286	57.85 ug/L	0.00
Spiked Amount 50.000			Recovery	= 115.70%	
Target Compounds					Qvalue
12) Acetone	7.48	43	10573	4.10 ug/L	84 J
13) Iodomethane	7.70	142	970	~~2.53 ug/L~~	~~93~~
18) TBA	8.56	59	5901	~~9.51 ug/L~~	~~83~~
19) Acrylonitrile	8.86	53	5876	~~1.70 ug/L~~	~~69~~
27) 2-Butanone	10.78	43	5096	~~1.27 ug/L #~~	~~80~~
28) Propionitrile	10.93	54	4060	~~3.13 ug/L #~~	~~33~~
31) Tetrahydrofuran	11.29	42	6665	~~2.64 ug/L #~~	~~75~~
40) Iso-Butyl Alcohol	12.13	43	1972	~~5.50 ug/L~~	~~96~~
45) 1,4-Dioxane	14.10	88	1496	~~18.13 ug/L #~~	~~77~~
46) Methyl Methacrylate	13.95	69	1139	~~2.52 ug/L~~	~~98~~
66) Ethylbenzene	18.37	106	183154	13.46 ug/L	94
67) (m+p)Xylene	18.58	106	822411	50.77 ug/L	88
68) o-Xylene	19.33	106	318824	19.84 ug/L #	83
83) 1,2,4-Trimethylbenzene	21.77	105	52329	1.65 ug/L #	94 NT
94) Naphthalen	26.75	128	1685864	64.15 ug/L	99 NT

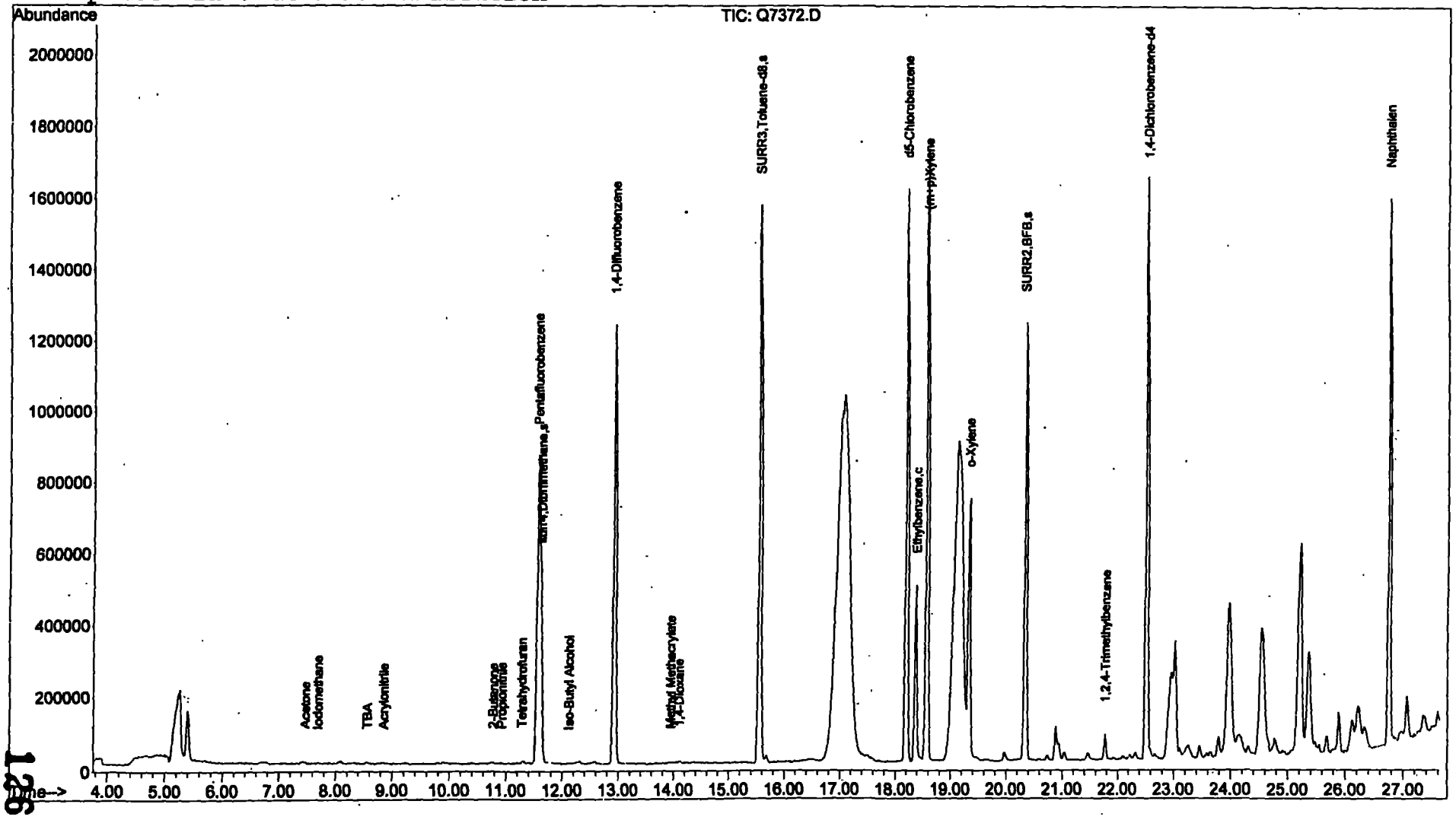
C 2/8

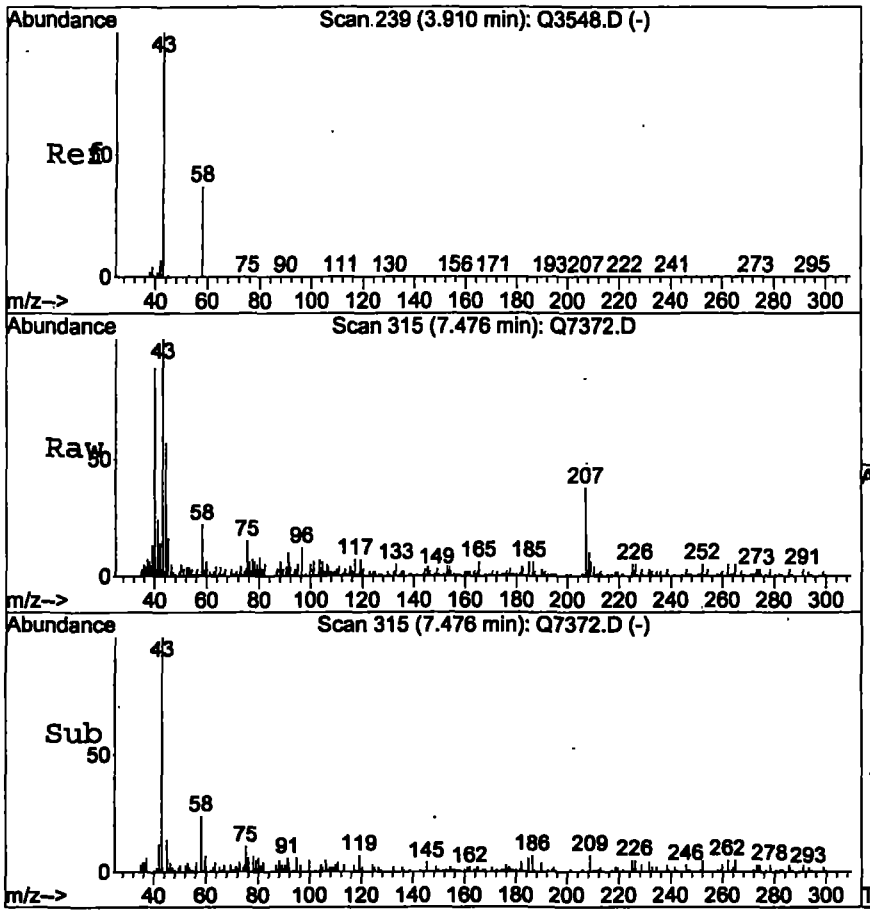
(#) = qualifier out of range (m) = manual integration
Q7372.D EXP0124.M Mon Feb 04 19:07:59 2002

Quantitat' ` Report

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7372.D Vial: 13
Acq On : 4 Feb 2002 6:39 pm Operator: BALLGEIER
Sample : 526209 125.0 Inst : GC/MS Ins
Misc : TTEM R22-10416 8260B.TCLH Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 4 19:08 2002 Quant Results File: EXP0124.RES

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration

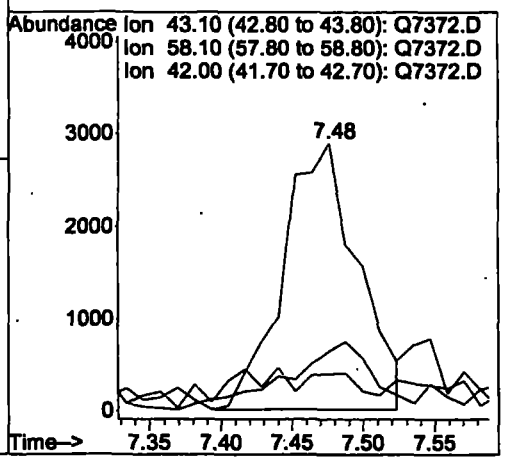


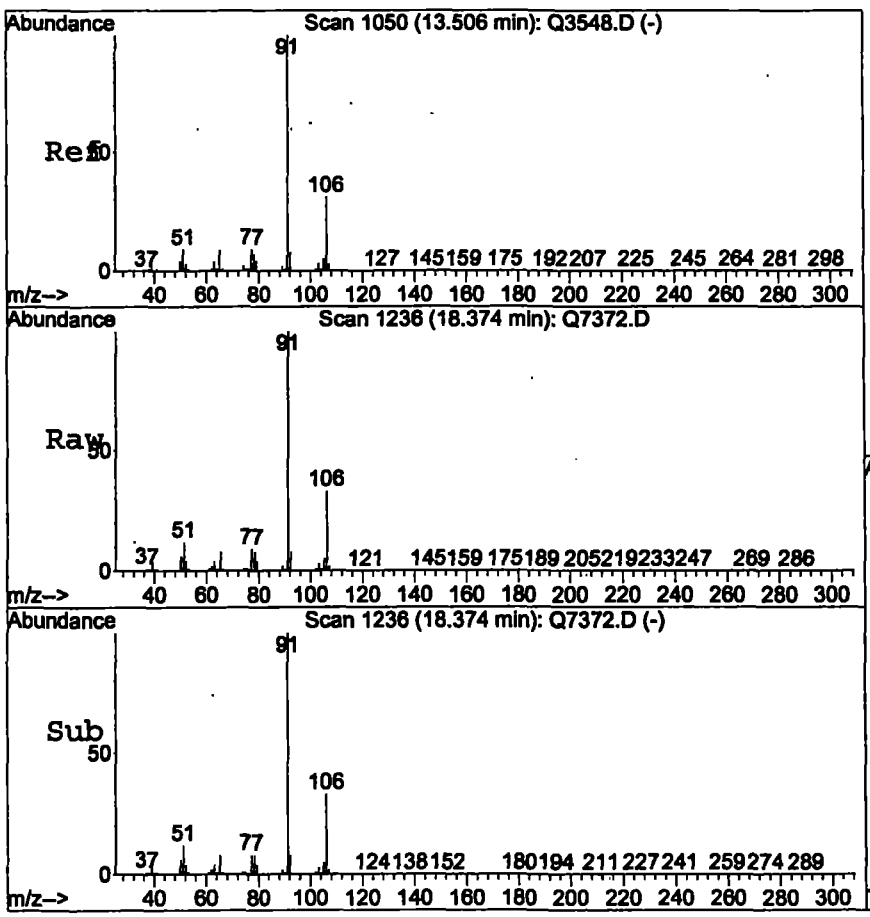


#12
Acetone
Concen: 4.10 ug/L
RT: 7.48 min Scan# 315
Delta R.T. 0.03 min
Lab File: Q7372.D
Acq: 4 Feb 2002 6:39 pm

Tgt Ion: 43 Resp: 10573

Ion	Ratio	Lower	Upper
43	100		
58	22.5	1.3	61.3
42	14.1	0.0	38.7

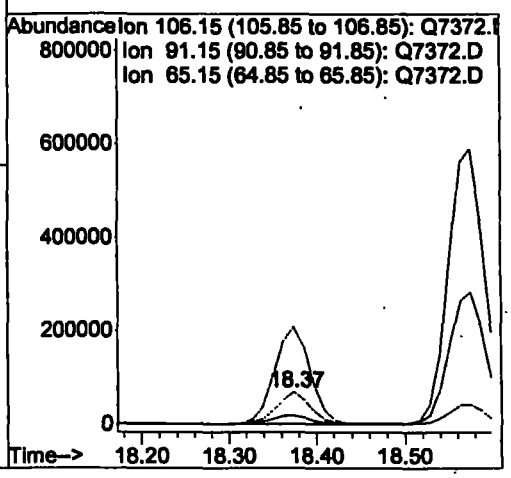


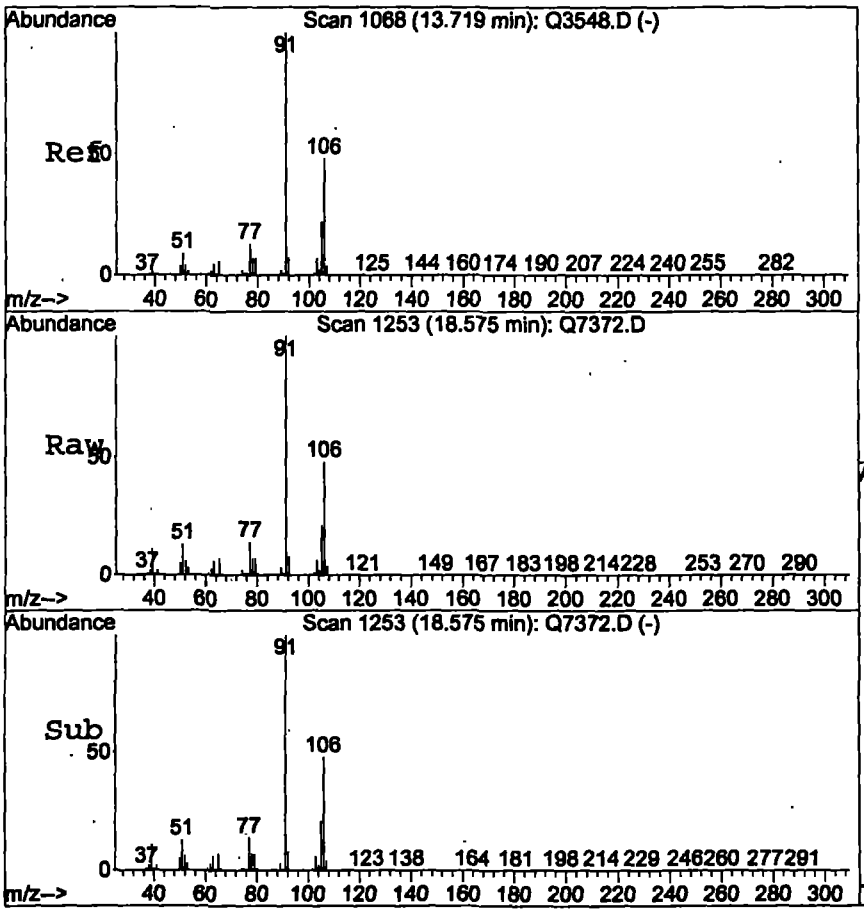


#66
Ethylbenzene
Concen: 13.46 ug/L
RT: 18.37 min Scan# 1236
Delta R.T. -0.00 min
Lab File: Q7372.D
Acq: 4 Feb 2002 6:39 pm

Tgt Ion:106 Resp: 183154

Ion	Ratio	Lower	Upper
106	100		
91	317.2	244.5	366.7
65	29.8	22.0	33.0

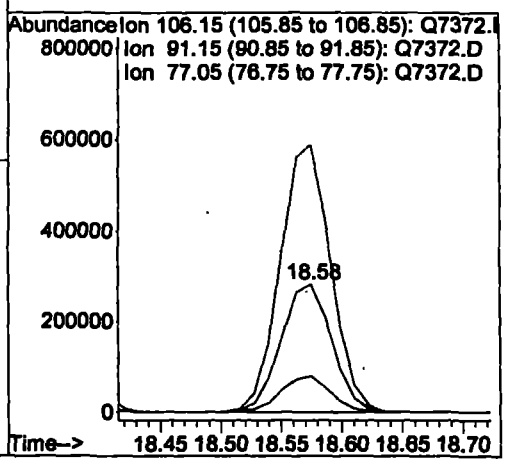


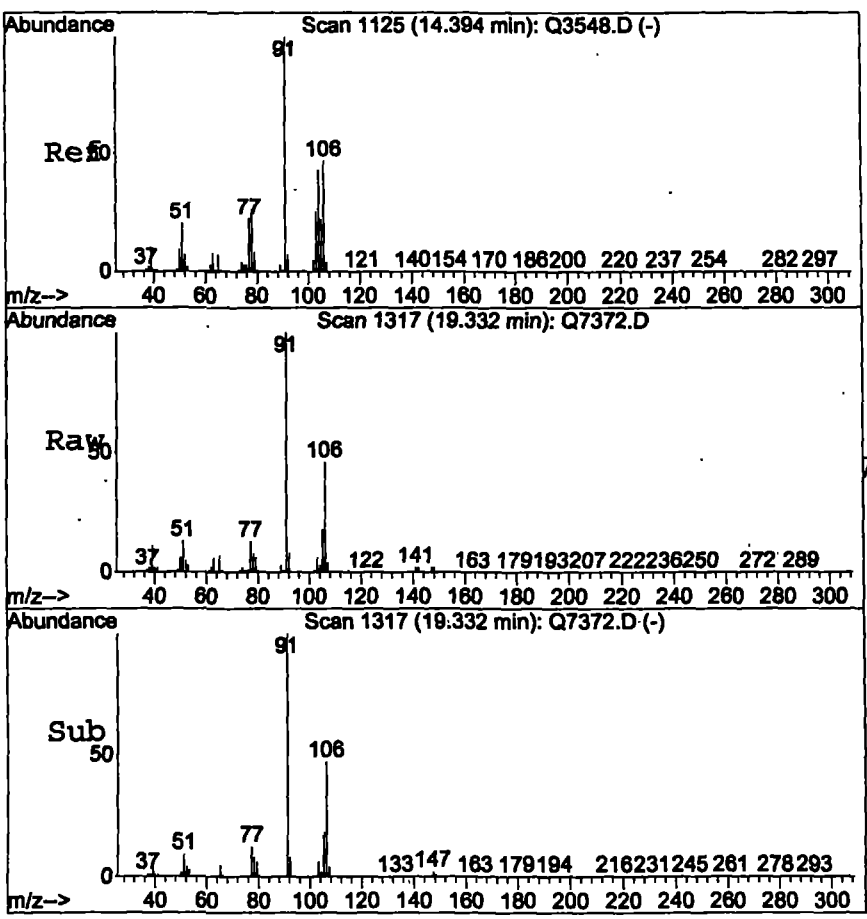


#67
(m+p)Xylene
Concen: 50.77 ug/L
RT: 18.58 min Scan# 1253
Delta R.T. -0.00 min
Lab File: Q7372.D
Acq: 4 Feb 2002 6:39 pm

Tgt Ion:106 Resp: 822411

Ion	Ratio	Lower	Upper
106	100		
91	207.9	151.6	227.4
77	27.5	20.5	30.7

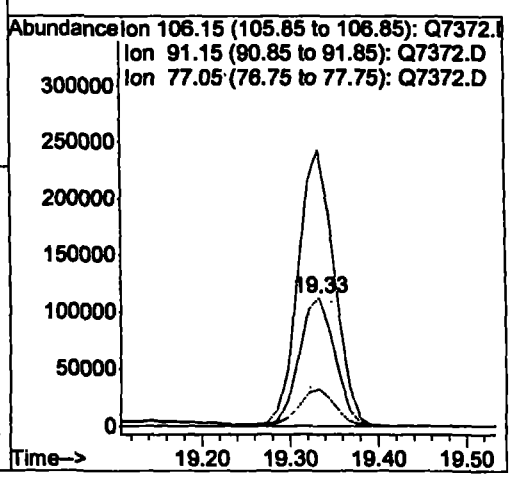


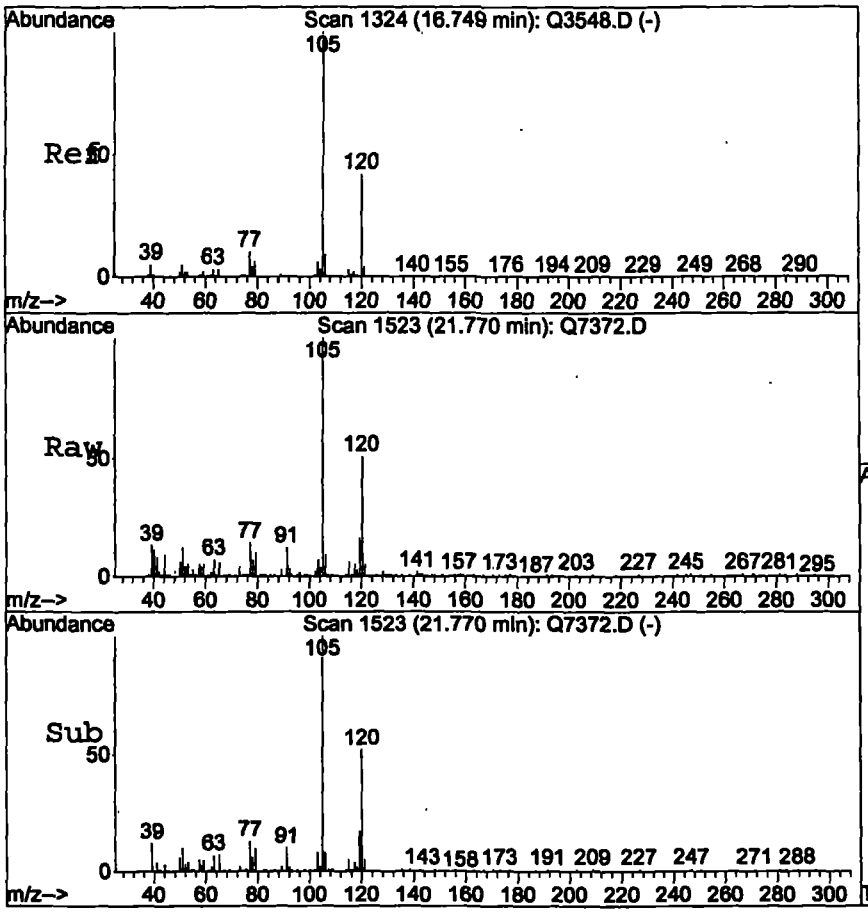


#68
o-Xylene
Concen: 19.84 ug/L
RT: 19.33 min Scan# 1317
Delta R.T. -0.00 min
Lab File: Q7372.D
Acq: 4 Feb 2002 6:39 pm

Tgt Ion:106 Resp: 318824

Ion	Ratio	Lower	Upper
106	100		
91	217.3	161.0	241.6
77	30.0	47.4	71.2#

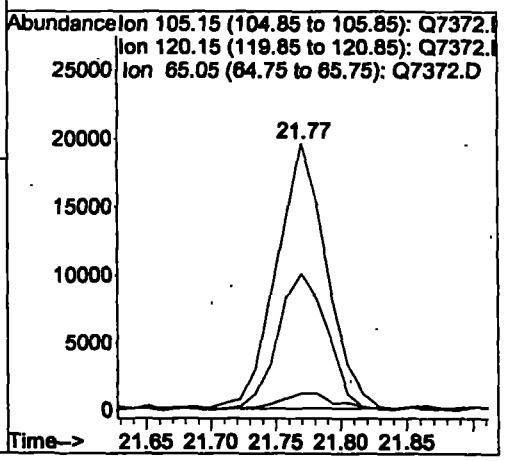


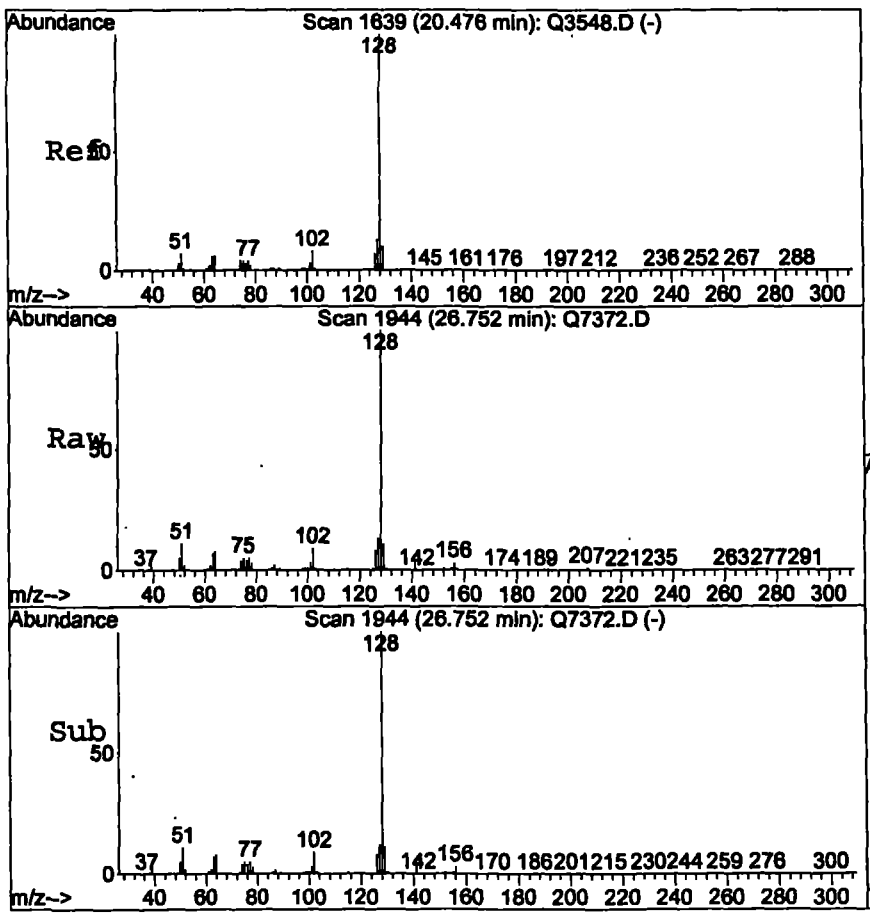


#83
1,2,4-Trimethylbenzene NJ
Concen: 1.65 ug/L
RT: 21.77 min Scan# 1523
Delta R.T. -0.00 min
Lab File: Q7372.D
Acq: 4 Feb 2002 6:39 pm

Tgt Ion:105 Resp: 52329

Ion	Ratio	Lower	Upper
105	100		
120	51.3	38.1	57.1
65	6.6	3.8	5.8#

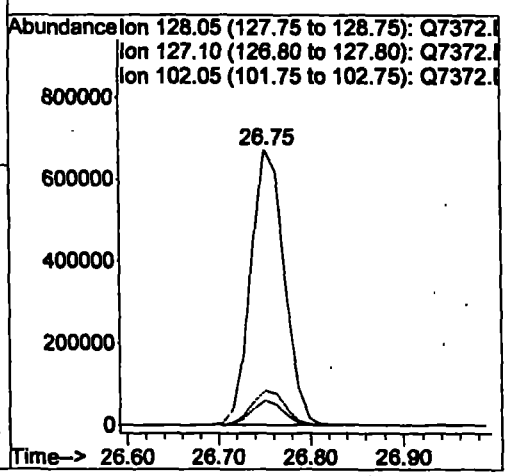




#94
Naphthalen NJ
Concen: 64.15 ug/L
RT: 26.75 min Scan# 1944
Delta R.T. -0.00 min
Lab File: Q7372.D
Acq: 4 Feb 2002 6:39 pm

Tgt Ion:128 Resp: 1685864

Ion	Ratio	Lower	Upper
128	100		
127	12.6	9.9	14.9
102	8.6	6.4	9.6



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : MTS-GB-SLU-4

Date Sampled : 01/21/02 13:30 **Order #:** 526210 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 94.3

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/02/02			
ANALYTICAL DILUTION: 0.86			Dry Weight
ACETONE	20	52	UG/KG
BENZENE	5.0	4.6 U	UG/KG
BROMODICHLOROMETHANE	5.0	4.6 U	UG/KG
BROMOFORM	5.0	4.6 U	UG/KG
BROMOMETHANE	5.0	4.6 U	UG/KG
2-BUTANONE (MEK)	10	2.8 J	UG/KG
CARBON DISULFIDE	10	9.1 U	UG/KG
CARBON TETRACHLORIDE	5.0	4.6 U	UG/KG
CHLOROBENZENE	5.0	4.6 U	UG/KG
CHLOROETHANE	5.0	4.6 U	UG/KG
CHLOROFORM	5.0	4.6 U	UG/KG
CHLOROMETHANE	5.0	4.6 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	4.6 U	UG/KG
1,1-DICHLOROETHANE	5.0	4.6 U	UG/KG
1,2-DICHLOROETHANE	5.0	4.6 U	UG/KG
1,1-DICHLOROETHENE	5.0	4.6 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	4.6 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	4.6 U	UG/KG
1,2-DICHLOROPROPANE	5.0	4.6 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	4.6 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	4.6 U	UG/KG
ETHYLBENZENE	5.0	4.6 U	UG/KG
2-HEXANONE	10	9.1 U	UG/KG
METHYLENE CHLORIDE	5.0	4.6 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	9.1 U	UG/KG
STYRENE	5.0	4.6 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	4.6 U	UG/KG
TETRACHLOROETHENE	5.0	4.6 U	UG/KG
TOLUENE	5.0	4.6 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	4.6 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	4.6 U	UG/KG
TRICHLOROETHENE	5.0	4.6 U	UG/KG
VINYL CHLORIDE	5.0	4.6 U	UG/KG
O-XYLENE	5.0	4.6 U	UG/KG
M+P-XYLENE	5.0	4.6 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	100	%
TOLUENE-D8	(71 - 128 %)	106	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	35 *	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9587.D
Acq On : 2 Feb 102 8:23 pm
Sample : 526210 0.86
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 20:51 19102

Vial: 18
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.33	168	843416	50.00 ug/Kg	-0.08
35) 1,4 - Difluorobenzene	8.51	114	1553737	50.00 ug/Kg	-0.08
52) d5 - Chlorobenzene	13.59	117	1228671	50.00 ug/Kg	-0.09
74) d4 - Dichlorobenzene	18.03	152	482372	50.00 ug/Kg	-0.10
System Monitoring Compounds					%Recovery
36) surr4,Dibrflmethane	7.20	113	128674	17.28 ug/Kg	34.55% *
58) surr3,Toluene-d8	11.01	98	1487008	52.89 ug/Kg	105.79%
59) surr2,bfb	15.80	95	562820	50.12 ug/Kg	100.25%
Target Compounds					Qvalue
12) Acetone	3.70	43	120649	57.27 ug/Kg	99
26) 2-Butanone	6.47	43	13054	3.02 ug/Kg	95 J
39) Iso-Butyl Alcohol	8.36	43	6089	~~8.68 ug/Kg~~	~~95~~
46) 1,4-Dioxane	9.48	88	220	~~2.31 ug/Kg~~	~~80~~
95) Naphthalen	22.44	128	129579	5.68 ug/Kg	97 NT

CP 2/3

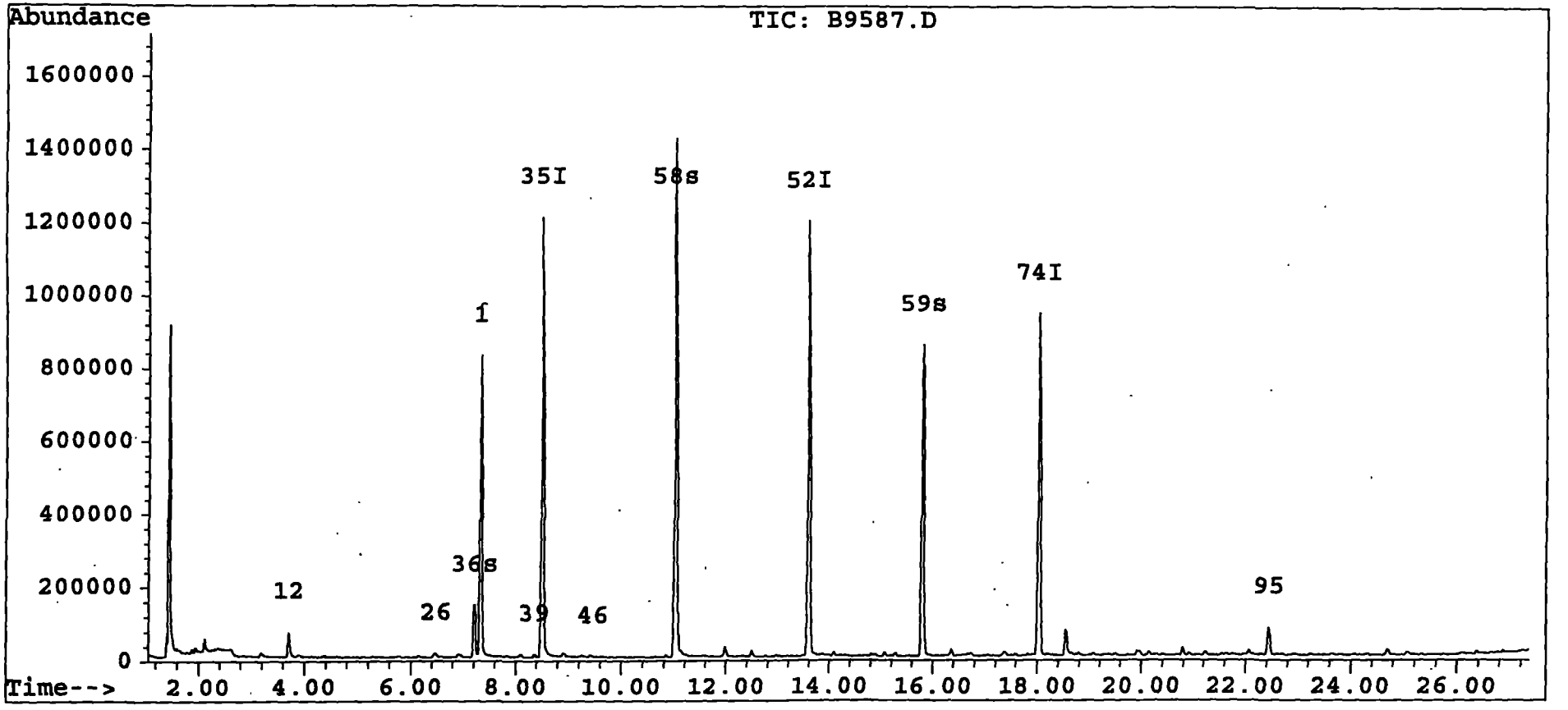
(#) = qualifier out of range (m) = manual integration

Quantitati Report

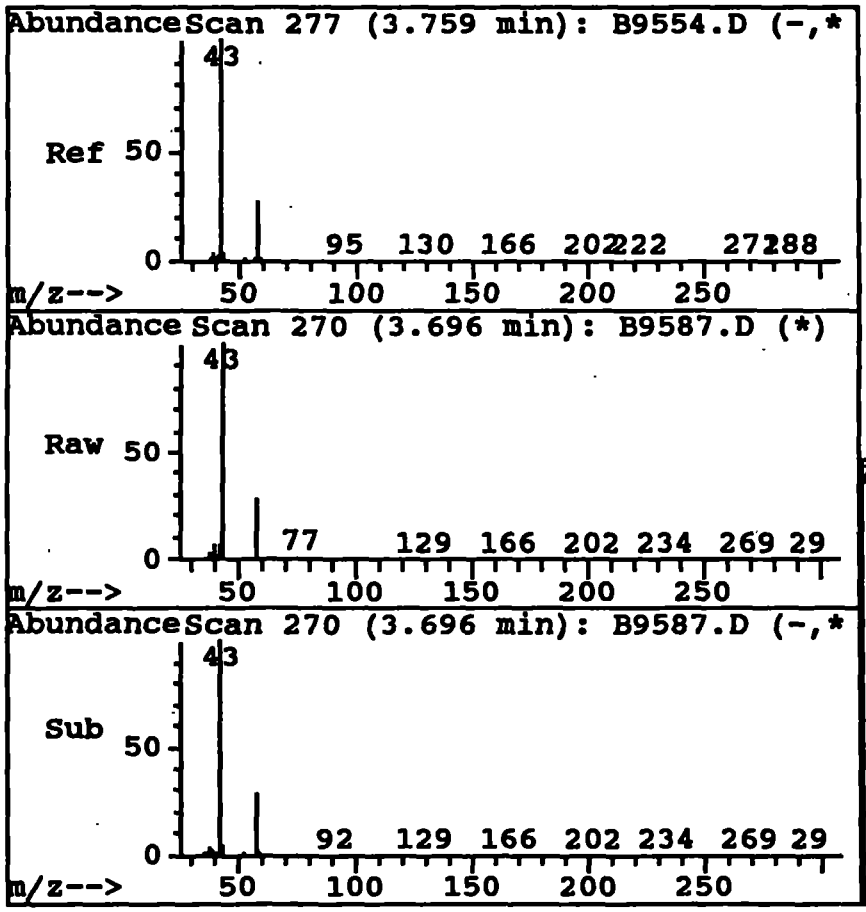
Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9587.D
Acq On : 2 Feb 102 8:23 pm
Sample : 526210 0.86
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 20:51 19102

Vial: 18
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



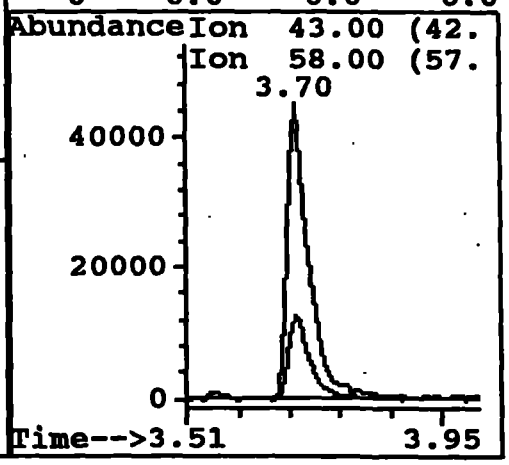
132

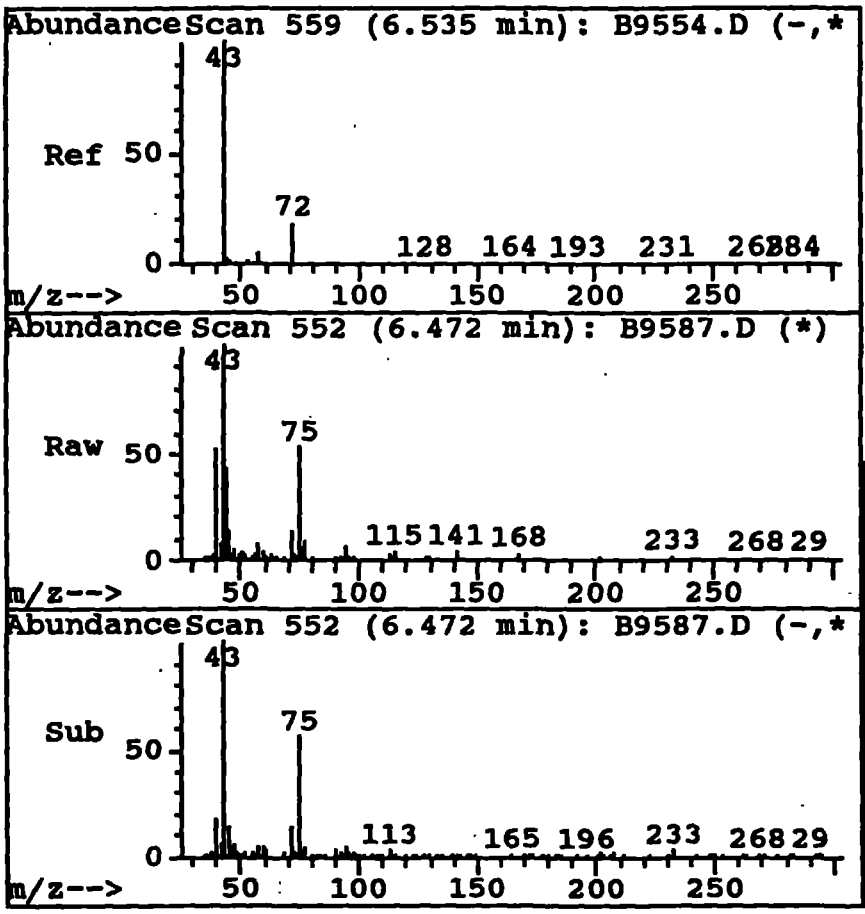


#12
Acetone
Concen: 57.27 ug/Kg
RT: 3.70 min Scan# 270
Delta R.T. -0.06 min
Lab File: B9587.D
Acq: 2 Feb 102 8:23 pm

Tgt Ion:43 Resp: 120649

Ion	Ratio	Lower	Upper
43	100		
58	27.7	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

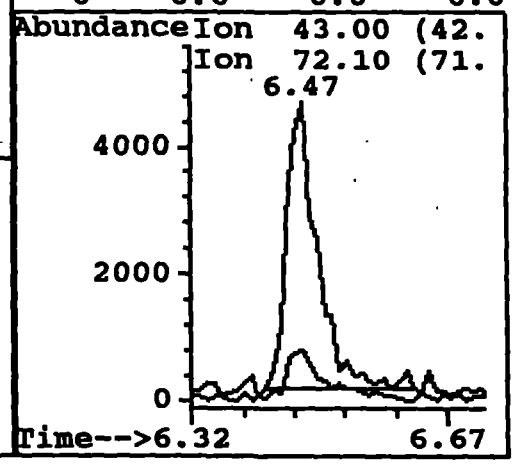




#26
2-Butanone
Concen: 3.02 ug/Kg
RT: 6.47 min Scan# 552
Delta R.T. -0.06 min
Lab File: B9587.D
Acq: 2 Feb 102 8:23 pm

Tgt Ion:43 Resp: 13054

Ion	Ratio	Lower	Upper
43	100		
72	17.0	14.5	24.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : MTS-GB-SLU-4

Date Sampled : 01/21/02 13:30 **Order #:** 526210 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 94.3

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/05/02			
ANALYTICAL DILUTION: 0.85			Dry Weight
ACETONE	20	73	UG/KG
BENZENE	5.0	4.5 U	UG/KG
BROMODICHLOROMETHANE	5.0	4.5 U	UG/KG
BROMOFORM	5.0	4.5 U	UG/KG
BROMOMETHANE	5.0	4.5 U	UG/KG
2-BUTANONE (MEK)	10	9.5 J	UG/KG
CARBON DISULFIDE	10	9.0 U	UG/KG
CARBON TETRACHLORIDE	5.0	4.5 U	UG/KG
CHLOROBENZENE	5.0	4.5 U	UG/KG
CHLOROETHANE	5.0	4.5 U	UG/KG
CHLOROFORM	5.0	4.5 U	UG/KG
CHLOROMETHANE	5.0	4.5 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	4.5 U	UG/KG
1,1-DICHLOROETHANE	5.0	4.5 U	UG/KG
1,2-DICHLOROETHANE	5.0	4.5 U	UG/KG
1,1-DICHLOROETHENE	5.0	4.5 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	4.5 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	4.5 U	UG/KG
1,2-DICHLOROPROPANE	5.0	4.5 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	4.5 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	4.5 U	UG/KG
ETHYLBENZENE	5.0	4.5 U	UG/KG
2-HEXANONE	10	9.0 U	UG/KG
METHYLENE CHLORIDE	5.0	4.5 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	9.0 U	UG/KG
STYRENE	5.0	4.5 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	4.5 U	UG/KG
TETRACHLOROETHENE	5.0	4.5 U	UG/KG
TOLUENE	5.0	4.5 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	4.5 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	4.5 U	UG/KG
TRICHLOROETHENE	5.0	4.5 U	UG/KG
VINYL CHLORIDE	5.0	4.5 U	UG/KG
O-XYLENE	5.0	4.5 U	UG/KG
M+P-XYLENE	5.0	4.5 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	102	%
TOLUENE-D8	(71 - 128 %)	102	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	62 *	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9633.D Vial: 8
Acq On : 5 Feb 102 5:26 pm Operator: DROOT
Sample : 526210 0.85 Inst : 5971 - In
Misc : TTEM-KS R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 5 17:54 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.36	168	718760	50.00 ug/Kg	-0.05
35) 1,4 - Difluorobenzene	8.54	114	1322839	50.00 ug/Kg	-0.05
52) d5 - Chlorobenzene	13.62	117	1062533	50.00 ug/Kg	-0.06
74) d4 - Dichlorobenzene	18.07	152	407007	50.00 ug/Kg	-0.06
System Monitoring Compounds					%Recovery
36) surr4,Dibrflmethane	7.23	113	196014	30.91 ug/Kg	61.83% *
58) surr3,Toluene-d8	11.05	98	1244651	51.20 ug/Kg	102.39%
59) surr2,bfb	15.83	95	494523	50.93 ug/Kg	101.86%
Target Compounds					Qvalue
12) Acetone	3.72	43	146633	81.68 ug/Kg	97
26) 2-Butanone	6.49	43	39163	10.63 ug/Kg	95
46) 1,4-Dioxane	9.62	88	436	~~5.37 ug/Kg~~	~~94~~
95) Naphthalen	22.48	128	109388	5.68 ug/Kg	96

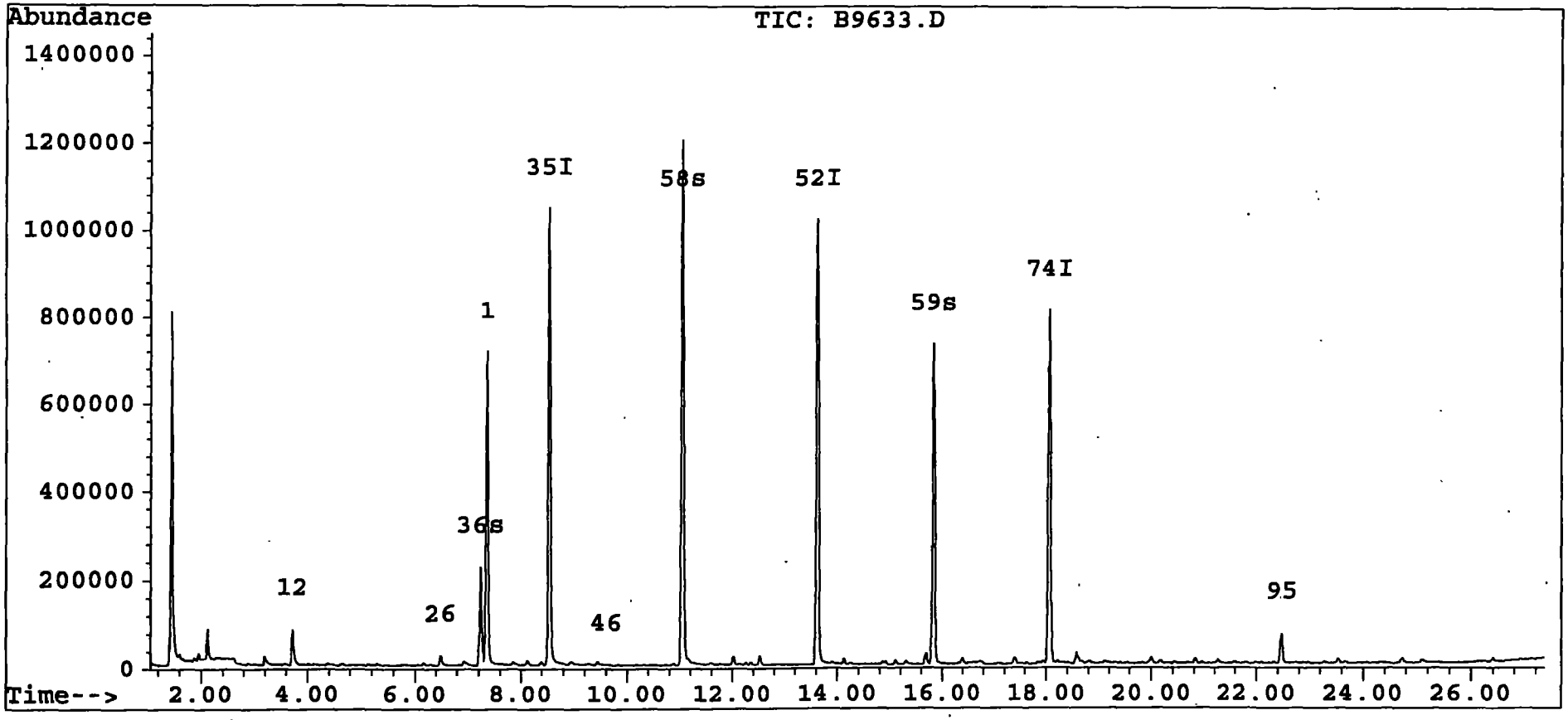
(#) = qualifier out of range (m) = manual integration

Quantitat n Report

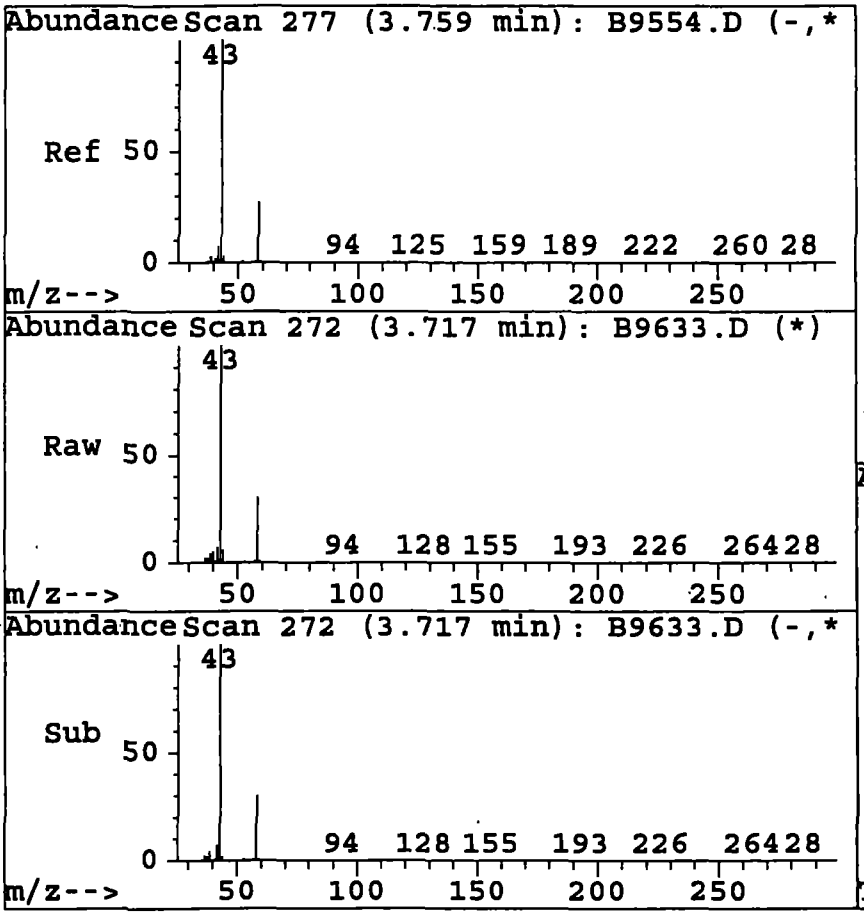
Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9633.D
Acq On : 5 Feb 102 5:26 pm
Sample : 526210 0.85
Misc : TTEM-KS R22-10416 8260B.TC5
Quant Time: Feb 5 17:54 19102

Vial: 8
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration



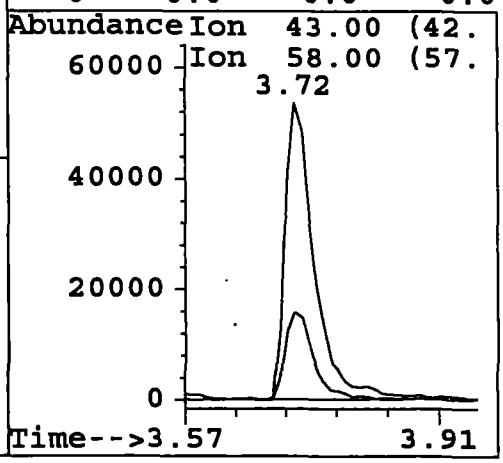
137

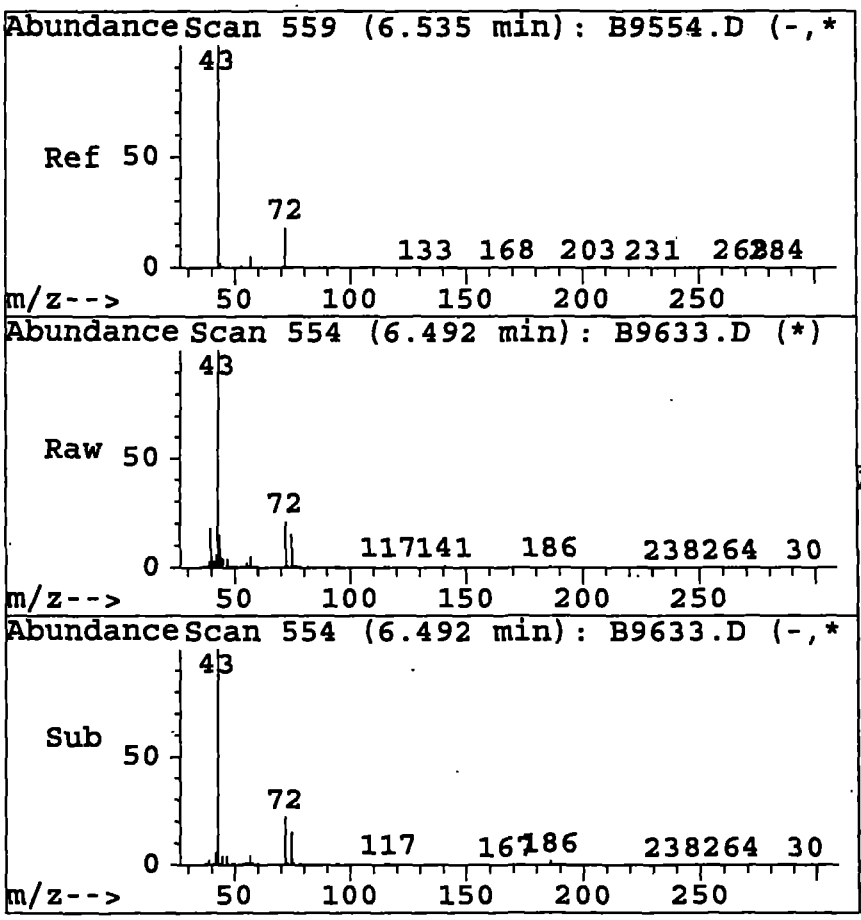


#12
Acetone
Concen: 81.68 ug/Kg
RT: 3.72 min Scan# 272
Delta R.T. -0.03 min
Lab File: B9633.D
Acq: 5 Feb 102 5:26 pm

Tgt Ion:43 Resp: 146633

Ion	Ratio	Lower	Upper
43	100		
58	29.8	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

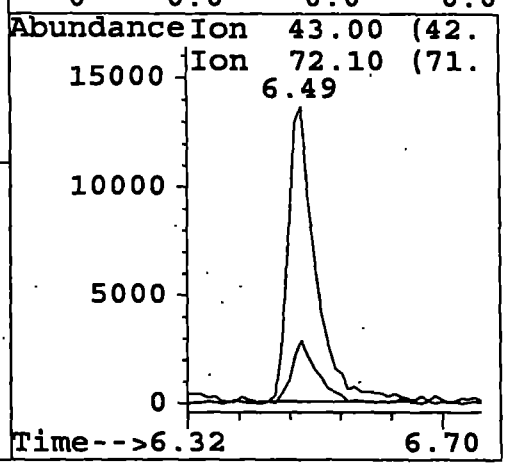




#26
2-Butanone
Concen: 10.63 ug/Kg
RT: 6.49 min Scan# 554
Delta R.T. -0.03 min
Lab File: B9633.D
Acq: 5 Feb 102 5:26 pm

Tgt Ion:43 Resp: 39163

Ion	Ratio	Lower	Upper
43	100		
72	21.5	14.5	24.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : MTS-GB-SLU-2

Date Sampled : 01/21/02 08:00 **Order #:** 526211 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 81.9

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/02/02			
ANALYTICAL DILUTION: 1.77			Dry Weight
ACETONE	20	95	UG/KG
BENZENE	5.0	11 U	UG/KG
BROMODICHLOROMETHANE	5.0	11 U	UG/KG
BROMOFORM	5.0	11 U	UG/KG
BROMOMETHANE	5.0	11 U	UG/KG
2-BUTANONE (MEK)	10	22 J	UG/KG
CARBON DISULFIDE	10	22 U	UG/KG
CARBON TETRACHLORIDE	5.0	11 U	UG/KG
CHLOROBENZENE	5.0	11 U	UG/KG
CHLOROETHANE	5.0	11 U	UG/KG
CHLOROFORM	5.0	11 U	UG/KG
'LOROMETHANE	5.0	11 U	UG/KG
.BROMOCHLOROMETHANE	5.0	11 U	UG/KG
1,1-DICHLOROETHANE	5.0	11 U	UG/KG
1,2-DICHLOROETHANE	5.0	11 U	UG/KG
1,1-DICHLOROETHENE	5.0	11 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	11 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	11 U	UG/KG
1,2-DICHLOROPROPANE	5.0	11 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	11 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	11 U	UG/KG
ETHYLBENZENE	5.0	11 U	UG/KG
2-HEXANONE	10	4.4 J	UG/KG
METHYLENE CHLORIDE	5.0	11 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	4.3 J	UG/KG
STYRENE	5.0	11 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	11 U	UG/KG
TETRACHLOROETHENE	5.0	11 U	UG/KG
TOLUENE	5.0	11 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	11 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	11 U	UG/KG
TRICHLOROETHENE	5.0	11 U	UG/KG
VINYL CHLORIDE	5.0	11 U	UG/KG
O-XYLENE	5.0	11 U	UG/KG
M+P-XYLENE	5.0	6.7 J	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	84	%
TOLUENE-D8	(71 - 128 %)	117	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	129 *	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9588.D Vial: 19
Acq On : 2 Feb 102 9:00 pm Operator: TTRAVER
Sample : 526211 1.77 Inst : 5971 - In
Misc : TTEM R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 2 21:28 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.33	168	742891	50.00 ug/Kg	-0.08
35) 1,4 - Difluorobenzene	8.51	114	1500454	50.00 ug/Kg	-0.08
52) d5 - Chlorobenzene	13.59	117	934737	50.00 ug/Kg	-0.09
74) d4 - Dichlorobenzene	18.03	152	212034	50.00 ug/Kg	-0.10 *
System Monitoring Compounds					%Recovery
36) surr4,Dibrflmethane	7.20	113	462158	64.26 ug/Kg	128.52% *
58) surr3,Toluene-d8	11.01	98	1248878	58.39 ug/Kg	116.79%
59) surr2,bfb	15.81	95	357312	41.83 ug/Kg	83.66%
Target Compounds					Qvalue
12) Acetone	3.70	43	81289	43.81 ug/Kg	93
16) Allyl Chloride	3.91	76	23567	~~6.34 ug/Kg#~~	~~1~~
26) 2-Butanone	6.47	43	38035	9.99 ug/Kg	91 J
39) Iso-Butyl Alcohol	8.69	43	4355	~~6.43 ug/Kg~~	~~77~~
42) N-Heptane	8.37	43	21352	~~1.58 ug/Kg#~~	~~42~~
46) 1,4-Dioxane	9.67	88	159	~~1.73 ug/Kg~~	~~95~~
53) 4-Methyl-2-Pentanone	10.83	43	17295	1.99 ug/Kg#	79 J
61) 2-Hexanone	12.32	43	12562	2.01 ug/Kg	91 J
68) (m+p)Xylene	14.09	106	34189	3.10 ug/Kg	96 J
92) Nitrobenzene	20.72	77	917	~~2.98 ug/Kg#~~	~~57~~

CP 2/3

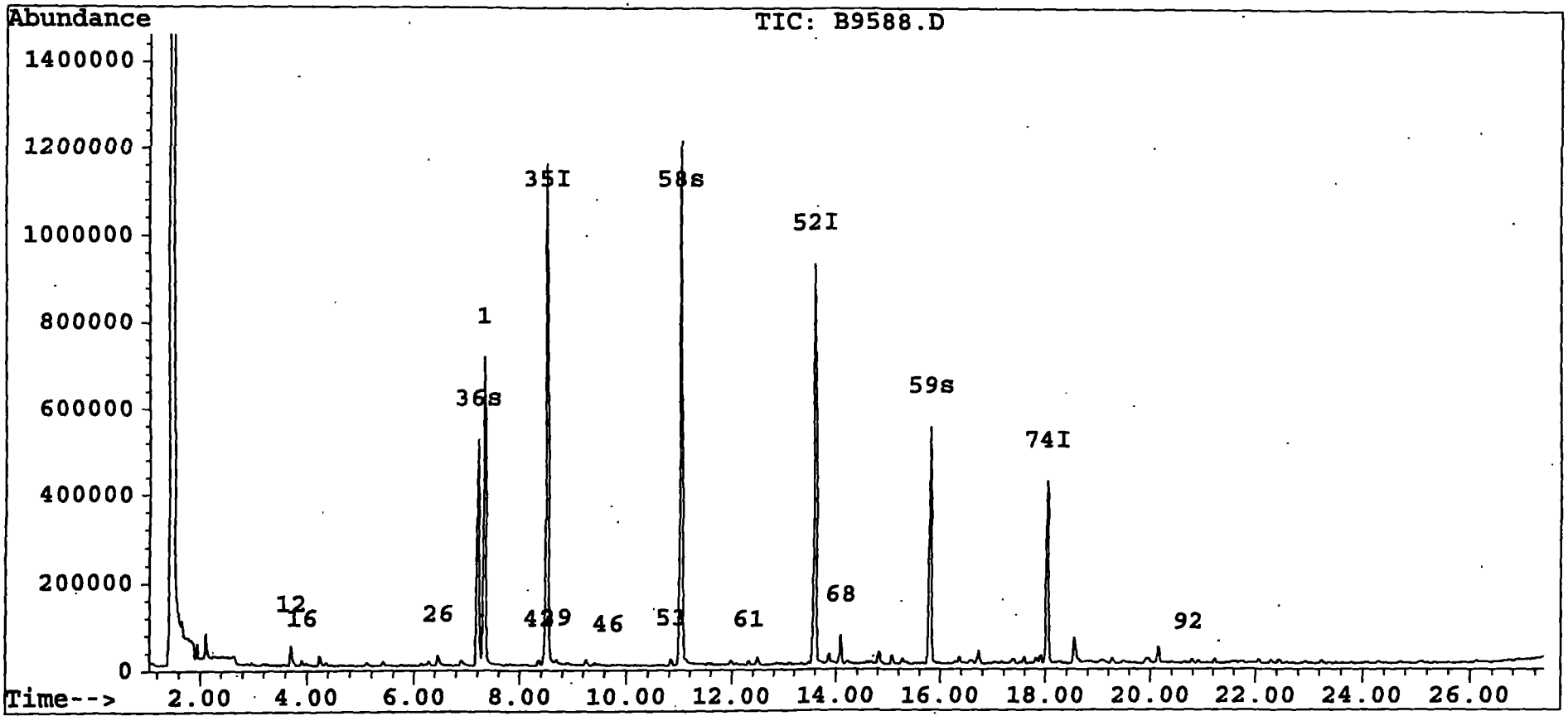
(#) = qualifier out of range (m) = manual integration

Quantitat; Report

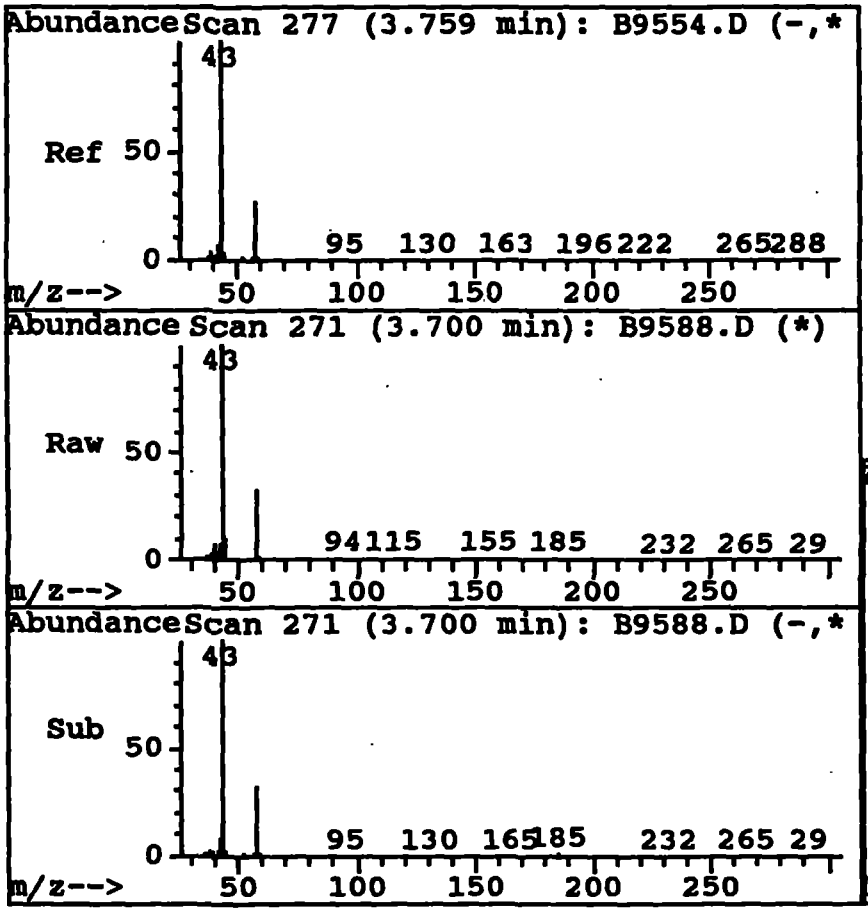
Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9588.D
Acq On : 2 Feb 102 9:00 pm
Sample : 526211 1.77
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 21:28 19102

Vial: 19
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



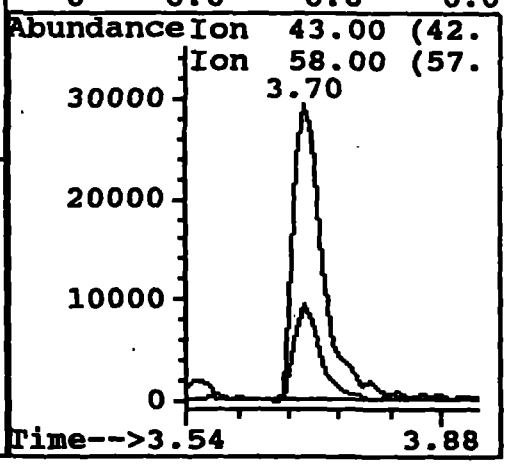
142

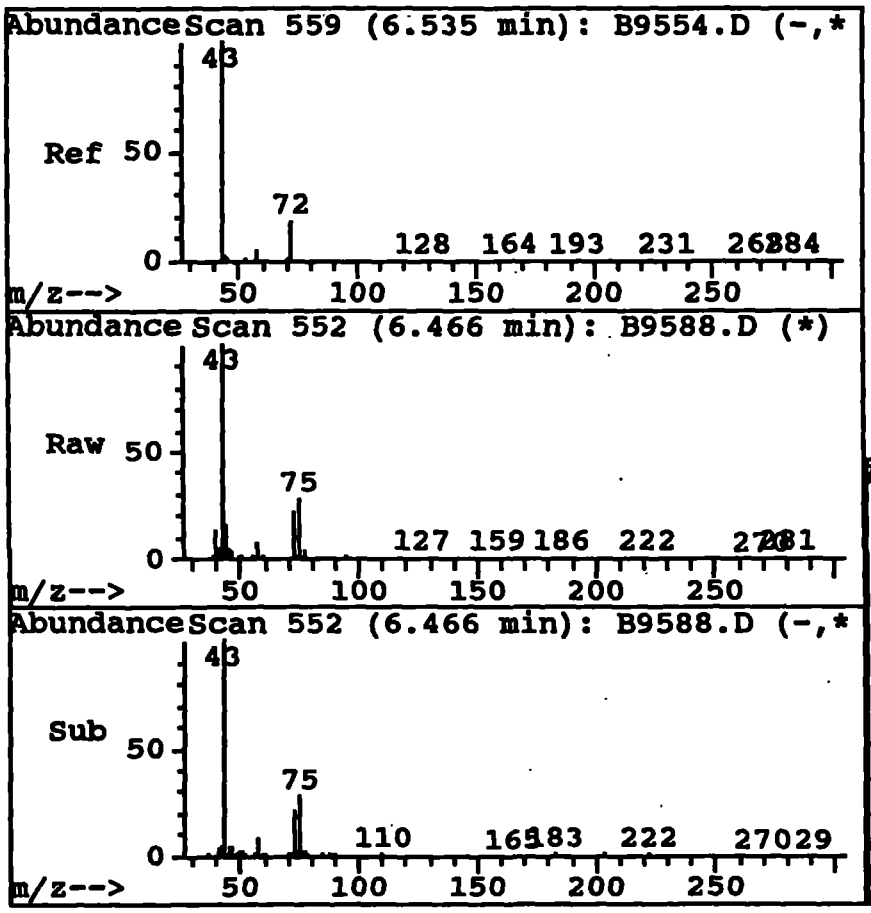


#12
Acetone
Concen: 43.81 ug/Kg
RT: 3.70 min Scan# 271
Delta R.T. -0.06 min
Lab File: B9588.D
Acq: 2 Feb 102 9:00 pm

Tgt Ion:43 Resp: 81289

Ion	Ratio	Lower	Upper
43	100		
58	32.1	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

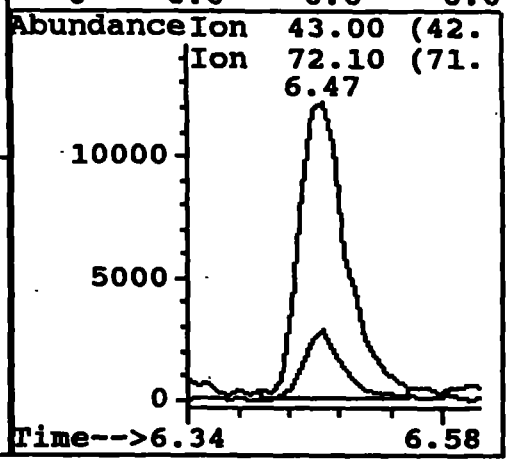


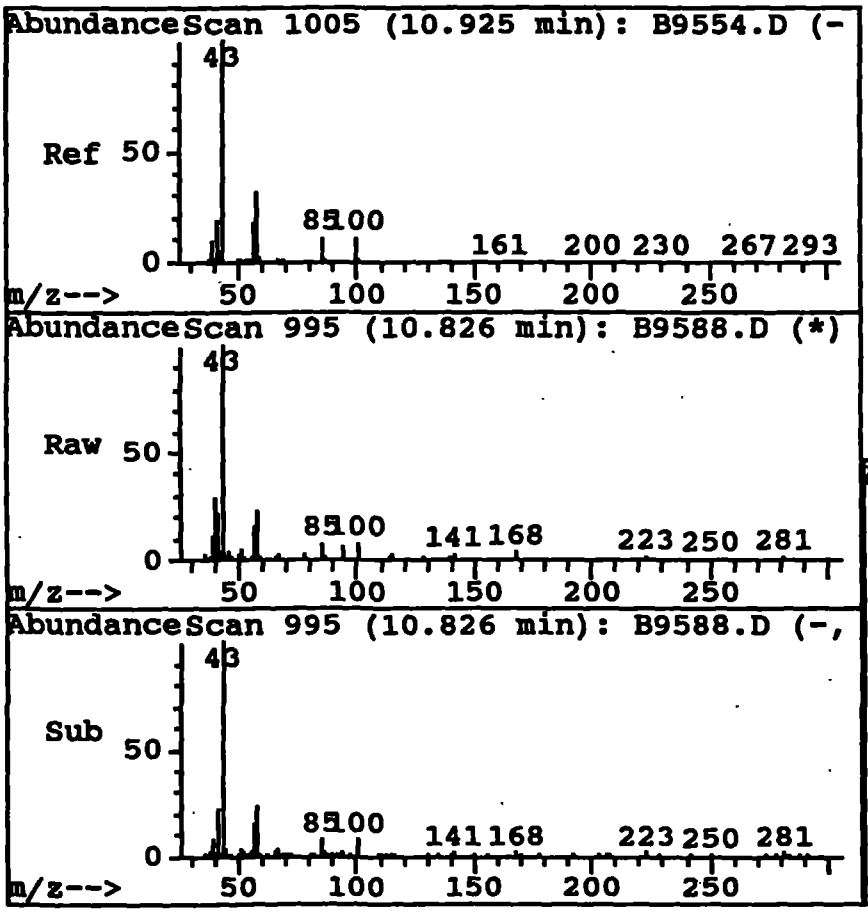


#26
2-Butanone
Concen: 9.99 ug/Kg
RT: 6.47 min Scan# 552
Delta R.T. -0.07 min
Lab File: B9588.D
Acq: 2 Feb 102 9:00 pm

Tgt Ion:43 Resp: 38035

Ion	Ratio	Lower	Upper
43	100		
72	23.5	14.5	24.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

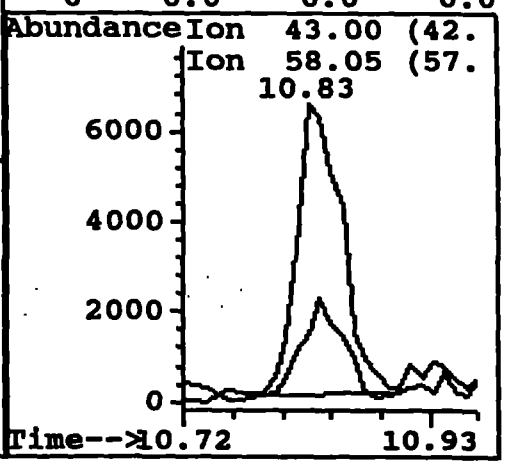


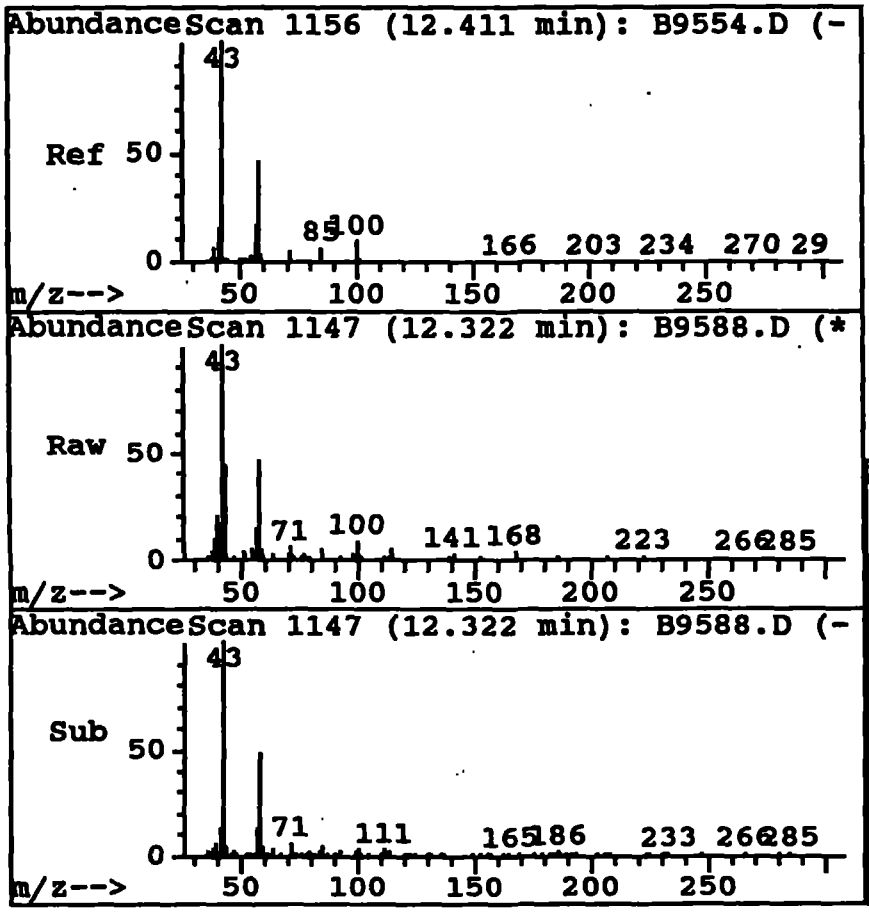


#53
4-Methyl-2-Pentanone
Concen: 1.99 ug/Kg
RT: 10.83 min Scan# 995
Delta R.T. -0.10 min
Lab File: B9588.D
Acq: 2 Feb 102 9:00 pm

Tgt Ion:43 Resp: 17295

Ion	Ratio	Lower	Upper
43	100		
58	23.3	27.0	44.9#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

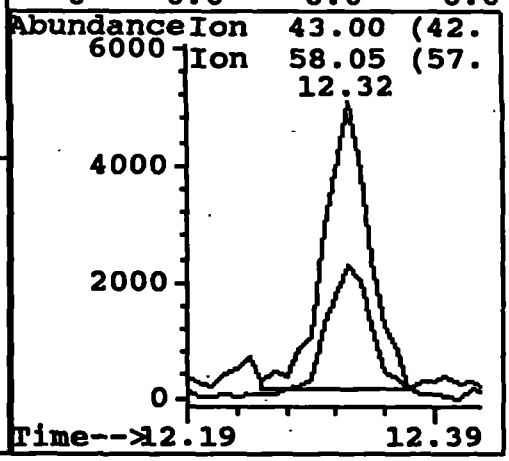


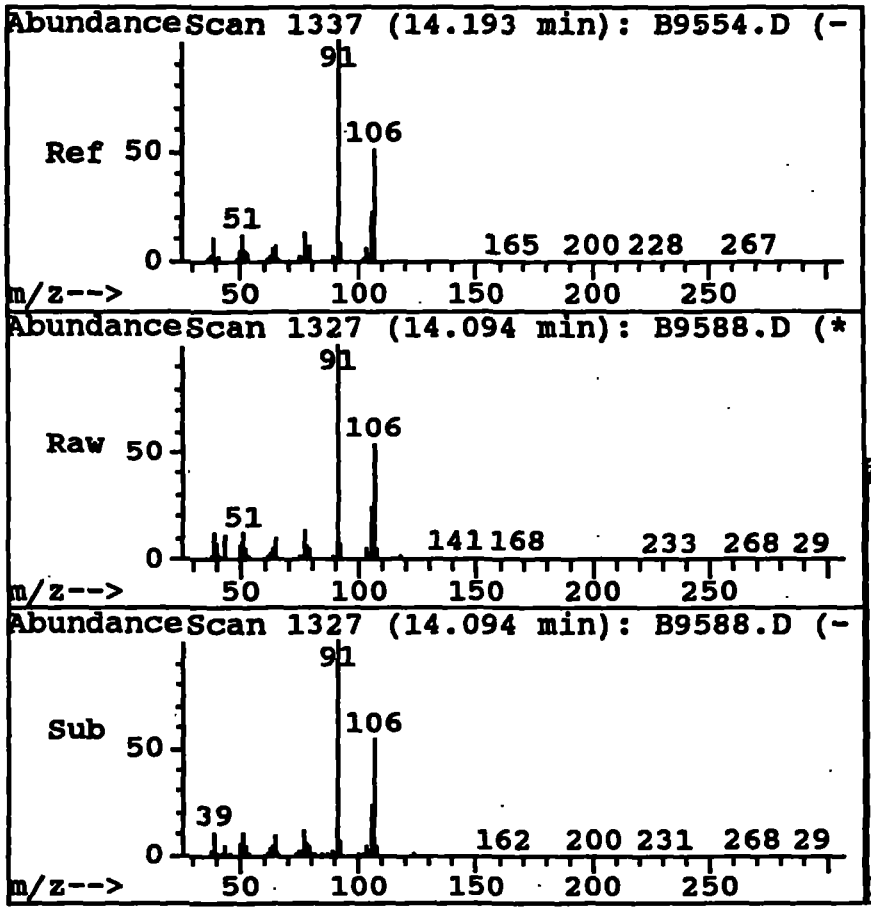


#61
2-Hexanone
Concen: 2.01 ug/Kg
RT: 12.32 min Scan# 1147
Delta R.T. -0.09 min
Lab File: B9588.D
Acq: 2 Feb 102 9:00 pm

Tgt Ion:43 Resp: 12562

Ion	Ratio	Lower	Upper
43	100		
58	45.5	41.5	62.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

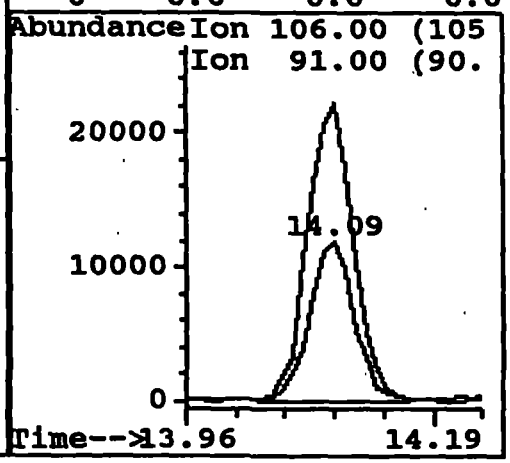




#68
(m+p)Xylene
Concen: 3.10 ug/Kg
RT: 14.09 min Scan# 1327
Delta R.T. -0.10 min
Lab File: B9588.D
Acq: 2 Feb 102 9:00 pm

Tgt Ion:106 Resp: 34189

Ion	Ratio	Lower	Upper
106	100		
91	186.7	154.0	230.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : MTS-GB-SLU-2

Date Sampled : 01/21/02 08:00 **Order #:** 526211 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 81.9

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/05/02			
ANALYTICAL DILUTION: 1.44			Dry Weight
ACETONE	20	200	UG/KG
BENZENE	5.0	8.8 U	UG/KG
BROMODICHLOROMETHANE	5.0	8.8 U	UG/KG
BROMOFORM	5.0	8.8 U	UG/KG
BROMOMETHANE	5.0	8.8 U	UG/KG
2-BUTANONE (MEK)	10	44	UG/KG
CARBON DISULFIDE	10	18 U	UG/KG
CARBON TETRACHLORIDE	5.0	8.8 U	UG/KG
CHLOROBENZENE	5.0	8.8 U	UG/KG
CHLOROETHANE	5.0	8.8 U	UG/KG
CHLOROFORM	5.0	8.8 U	UG/KG
LOROMETHANE	5.0	8.8 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	8.8 U	UG/KG
1,1-DICHLOROETHANE	5.0	8.8 U	UG/KG
1,2-DICHLOROETHANE	5.0	8.8 U	UG/KG
1,1-DICHLOROETHENE	5.0	8.8 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	8.8 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	8.8 U	UG/KG
1,2-DICHLOROPROPANE	5.0	8.8 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	8.8 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	8.8 U	UG/KG
ETHYLBENZENE	5.0	3.8 J	UG/KG
2-HEXANONE	10	6.2 J	UG/KG
METHYLENE CHLORIDE	5.0	8.8 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	7.7 J	UG/KG
STYRENE	5.0	8.8 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	8.8 U	UG/KG
TETRACHLOROETHENE	5.0	8.8 U	UG/KG
TOLUENE	5.0	8.8 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	8.8 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	8.8 U	UG/KG
TRICHLOROETHENE	5.0	8.8 U	UG/KG
VINYL CHLORIDE	5.0	8.8 U	UG/KG
O-XYLENE	5.0	6.1 J	UG/KG
M+P-XYLENE	5.0	16	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	83	%
TOLUENE-D8	(71 - 128 %)	112	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	131 *	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9634.D Vial: 9
Acq On : 5 Feb 102 6:03 pm Operator: DROOT
Sample : 526211 1.44 Inst : 5971 - In
Misc : TTEM-KS R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 5 18:31 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

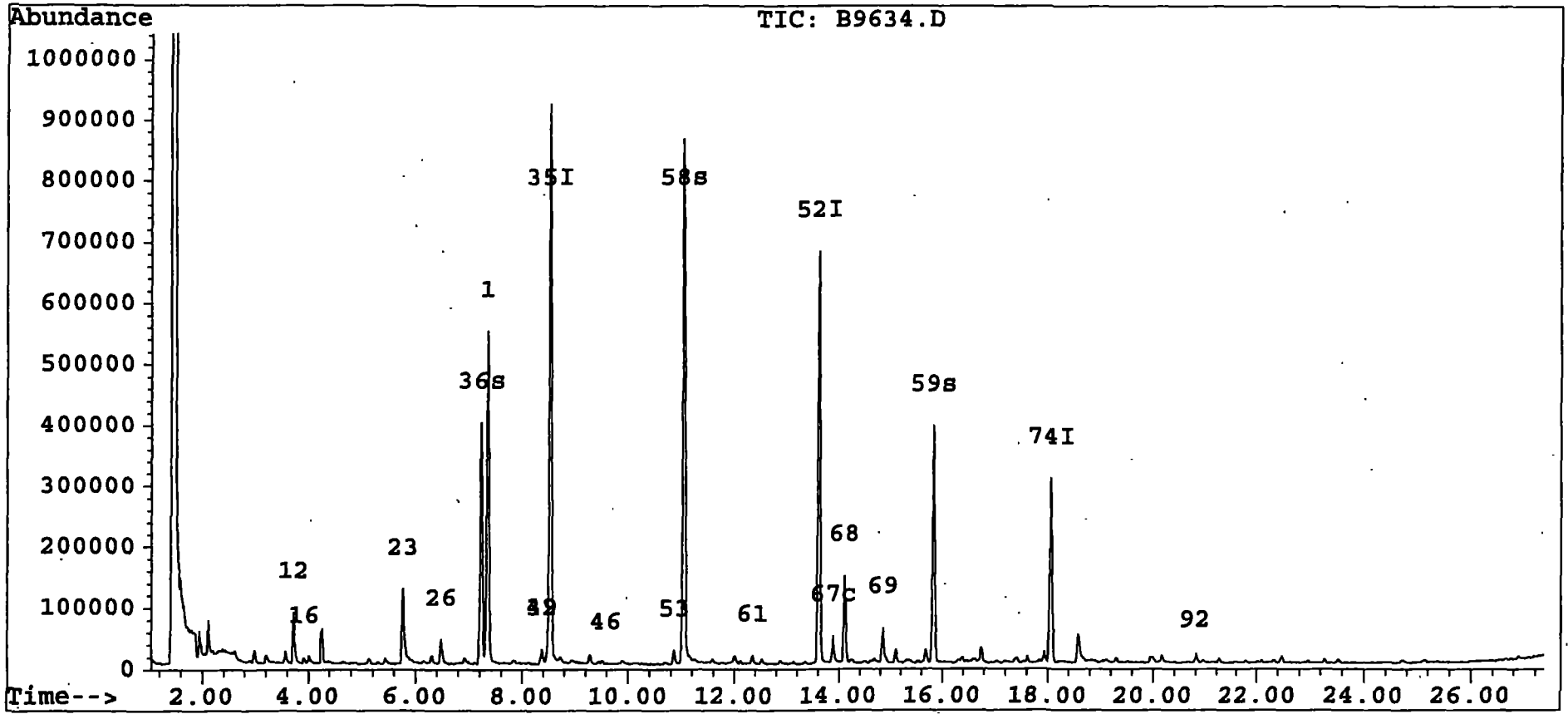
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.35	168	547741	50.00 ug/Kg	-0.06
35) 1,4 - Difluorobenzene	8.53	114	1141924	50.00 ug/Kg	-0.06
52) d5 - Chlorobenzene	13.62	117	687787	50.00 ug/Kg	-0.06
74) d4 - Dichlorobenzene	18.06	152	154581	50.00 ug/Kg	-0.07 *
System Monitoring Compounds					%Recovery
36) surr4,Dibrflmethane	7.24	113	359475	65.67 ug/Kg	131.35% *
58) surr3,Toluene-d8	11.04	98	878801	55.84 ug/Kg	111.69%
59) surr2,bfb	15.83	95	261641	41.63 ug/Kg	83.25%
Target Compounds					Qvalue
12) Acetone	3.72	43	153272	112.03 ug/Kg	96
16) Allyl Chloride	3.92	76	18063	~~6.60 ug/Kg#~~	~~1~~
23) Vinyl Acetate	5.76	43	26536	~~2.50 ug/Kg#~~	~~78~~
26) 2-Butanone	6.49	43	69639	24.80 ug/Kg	99
39) Iso-Butyl Alcohol	8.39	43	36453	~~70.67 ug/Kg#~~	~~65~~
42) N-Heptane	8.39	43	37080	~~3.60 ug/Kg#~~	~~40~~
46) 1,4-Dioxane	9.58	88	~~152~~	~~2.17 ug/Kg~~	~~95~~
53) 4-Methyl-2-Pentanone	10.87	43	27922	4.36 ug/Kg	99
61) 2-Hexanone	12.34	43	16190	3.53 ug/Kg	91
67) Ethylbenzene	13.90	91	47508	2.15 ug/Kg	99
68) (m+p)Xylene	14.12	106	72507	8.93 ug/Kg	97
69) o-Xylene	14.84	106	28369	3.51 ug/Kg	92
92) Nitrobenzene	20.78	77	~~534~~	~~2.38 ug/Kg~~	~~93~~

(#) = qualifier out of range (m) = manual integration

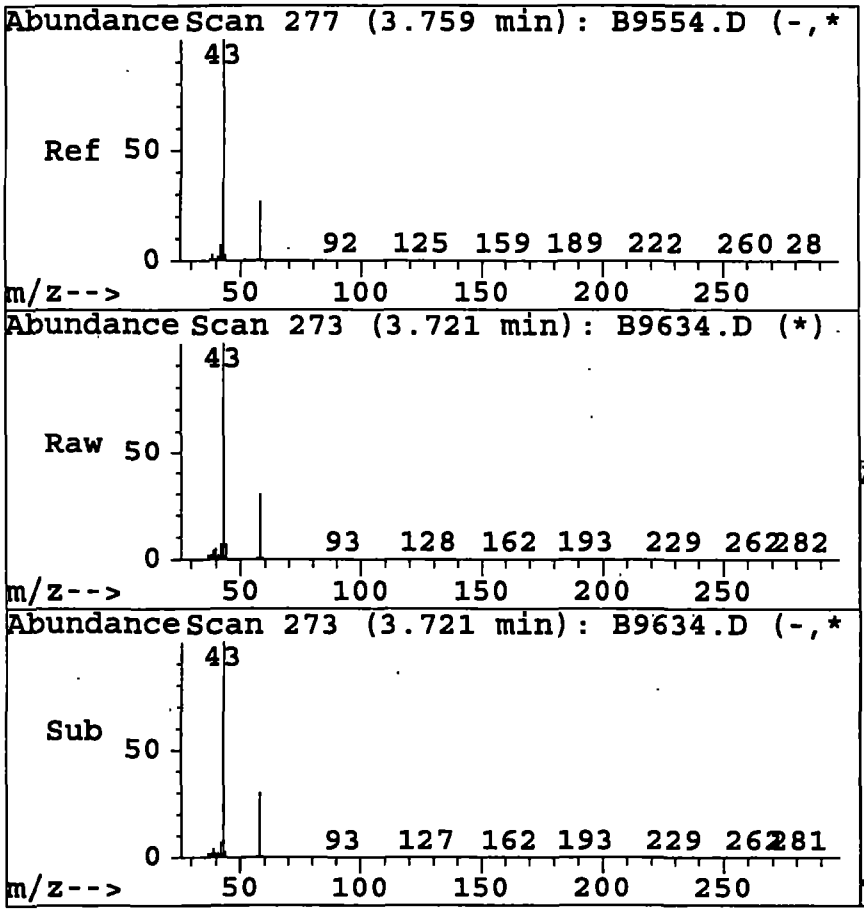
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9634. Vial: 9
Acq On : 5 Feb 102 6:03 pm Operator: DROOT
Sample : 526211 1.44 Inst : 5971 - In
Misc : TTEM-KS R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 5 18:31 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration



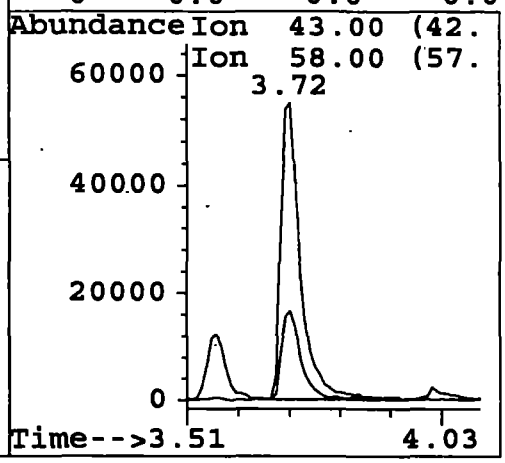
150

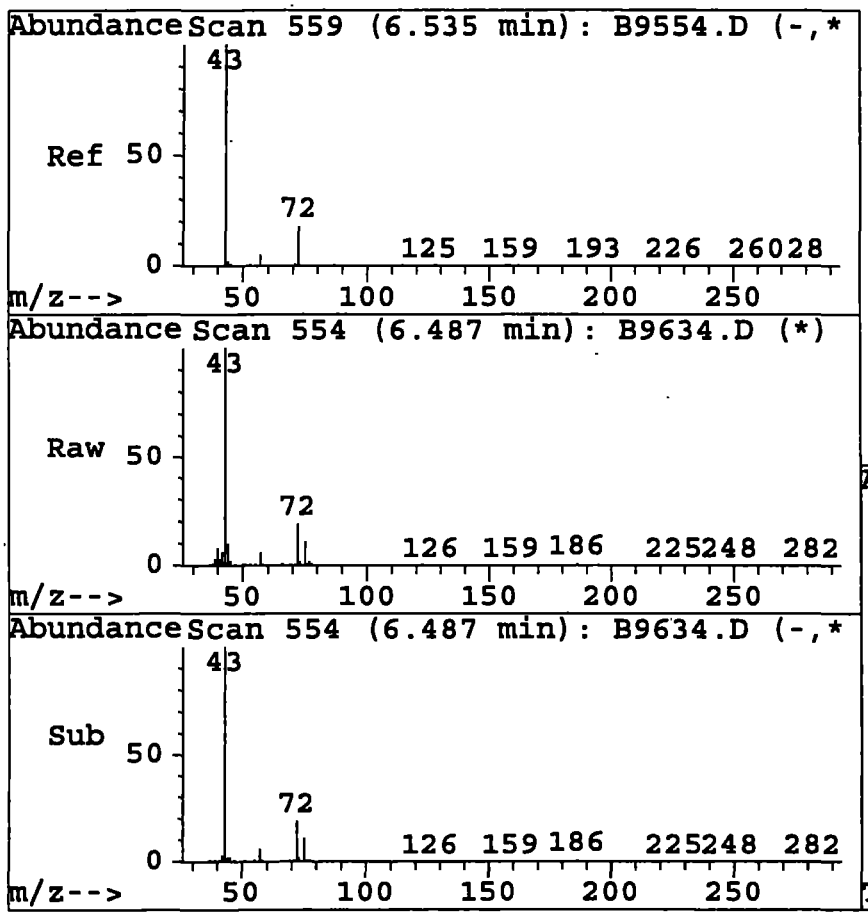


#12
Acetone
Concen: 112.03 ug/Kg
RT: 3.72 min Scan# 273
Delta R.T. -0.03 min
Lab File: B9634.D
Acq: 5 Feb 102 6:03 pm

Tgt Ion:43 Resp: 153272

Ion	Ratio	Lower	Upper
43	100		
58	30.3	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

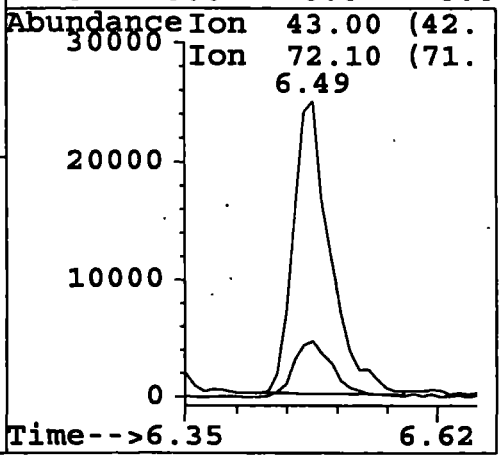


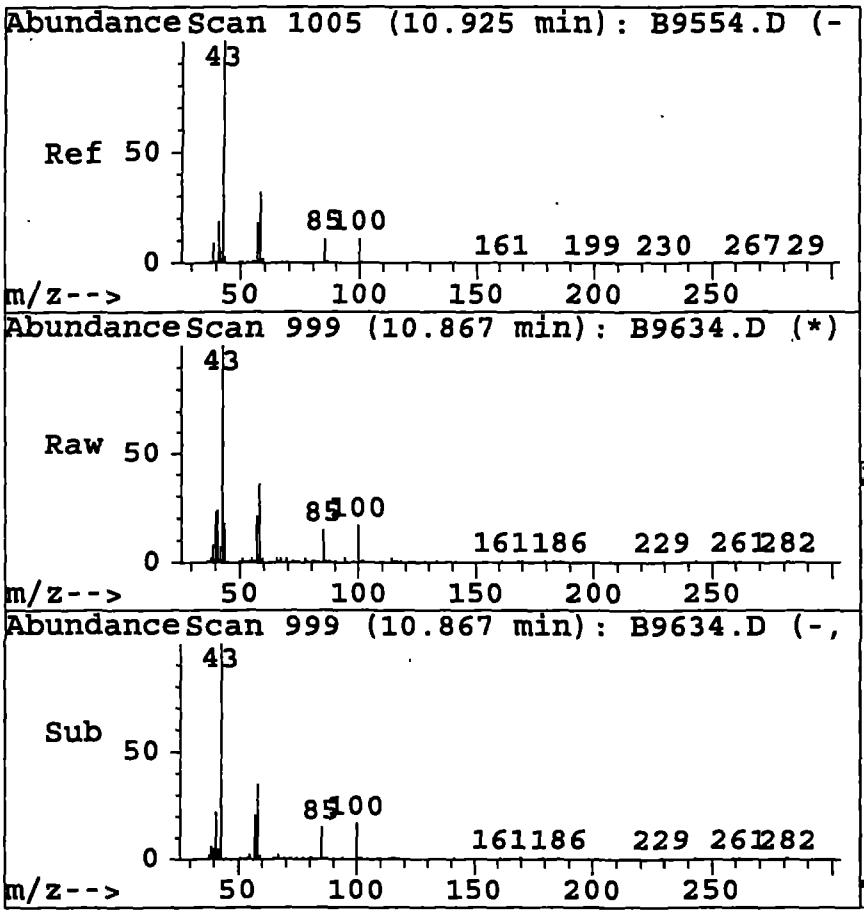


#26
2-Butanone
Concen: 24.80 ug/Kg
RT: 6.49 min Scan# 554
Delta R.T. -0.04 min
Lab File: B9634.D
Acq: 5 Feb 102 6:03 pm

Tgt Ion:43 Resp: 69639

Ion	Ratio	Lower	Upper
43	100		
72	18.9	14.5	24.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

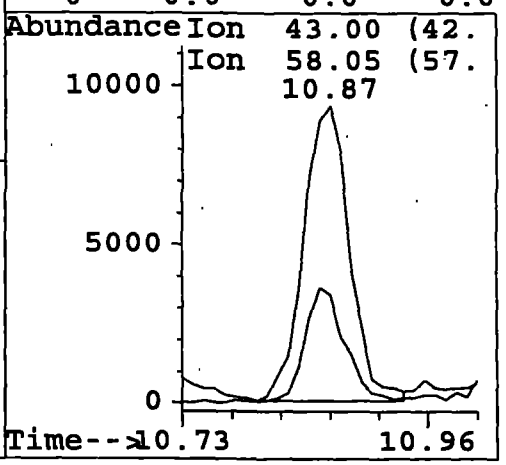


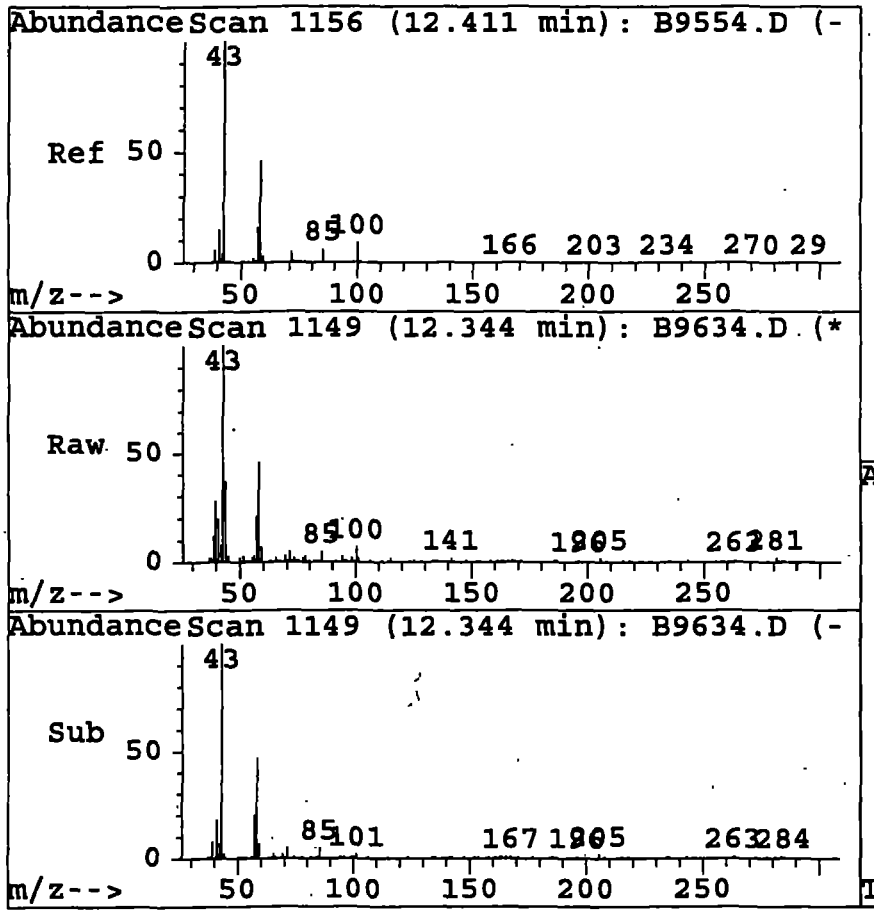


#53
4-Methyl-2-Pentanone
Concen: 4.36 ug/Kg
RT: 10.87 min Scan# 999
Delta R.T. -0.05 min
Lab File: B9634.D
Acq: 5 Feb 102 6:03 pm

Tgt Ion:43 Resp: 27922

Ion	Ratio	Lower	Upper
43	100		
58	36.4	27.0	44.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

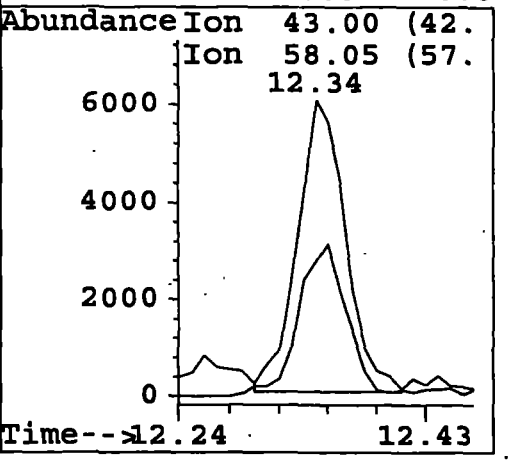


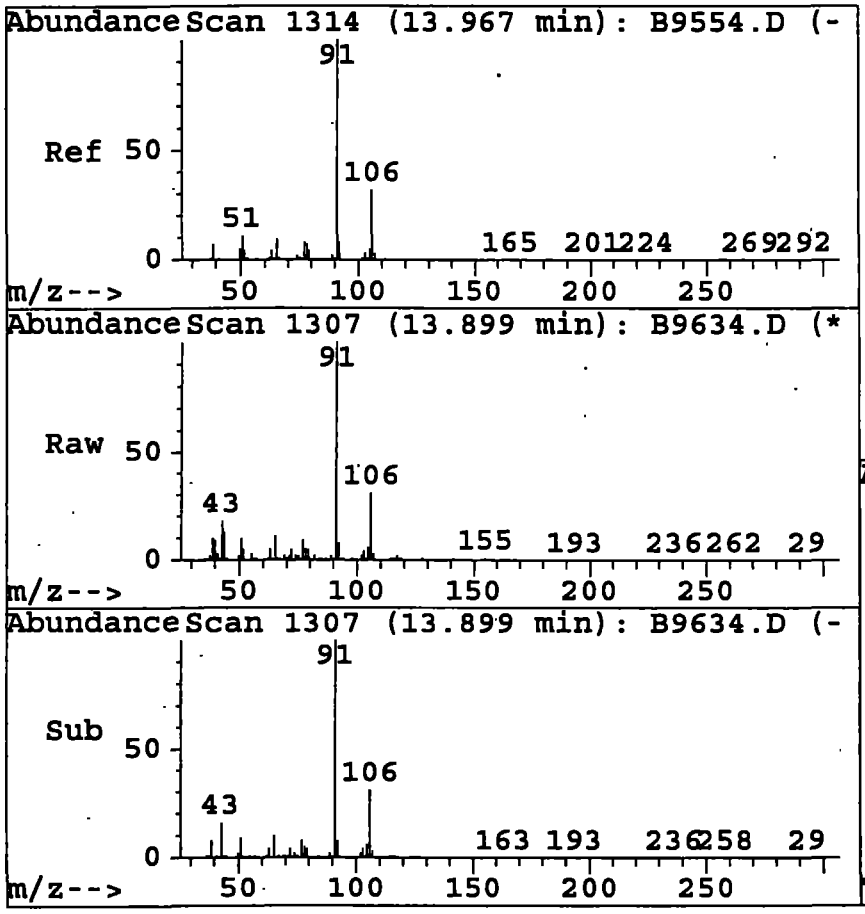


#61
2-Hexanone
Concen: 3.53 ug/Kg
RT: 12.34 min Scan# 1149
Delta R.T. -0.06 min
Lab File: B9634.D
Acq: 5 Feb 102 6:03 pm

Tgt Ion:43 Resp: 16190

Ion	Ratio	Lower	Upper
43	100		
58	45.6	41.5	62.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

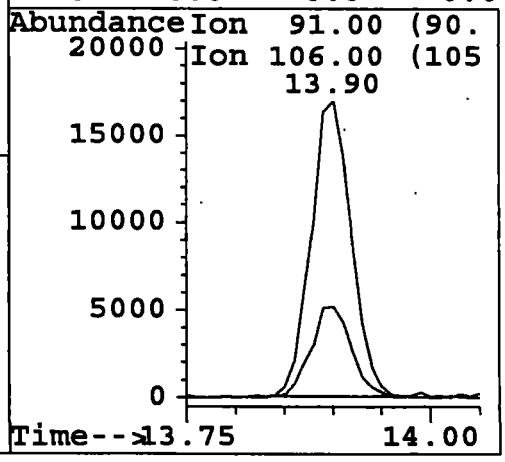


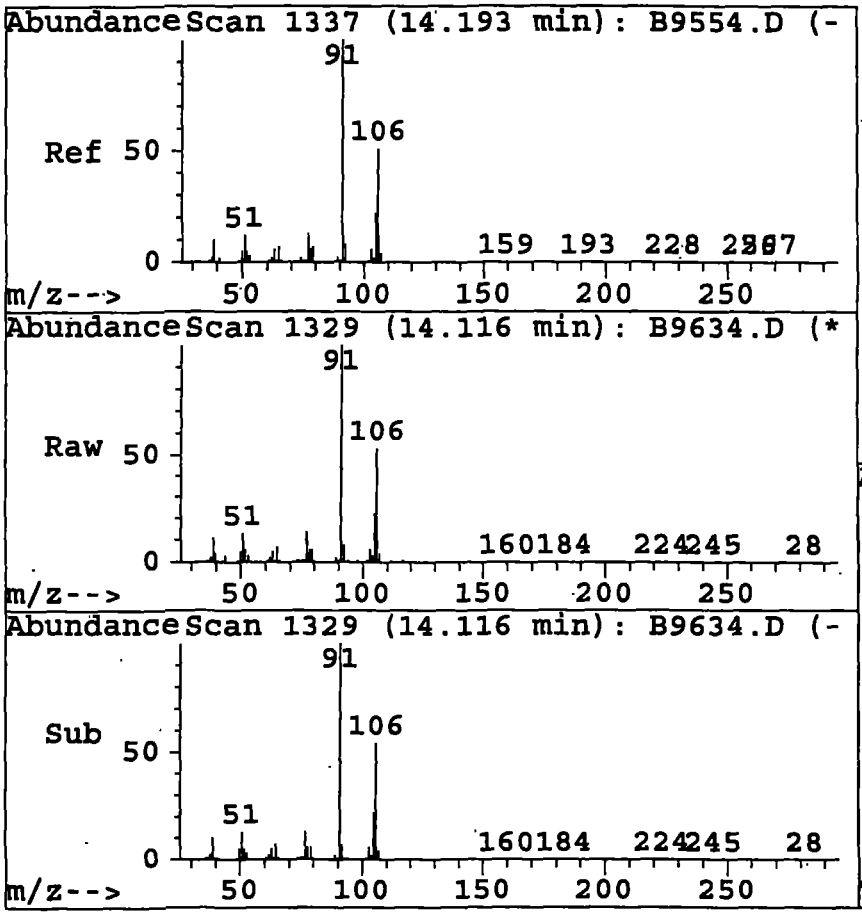


#67
Ethylbenzene
Concen: 2.15 ug/Kg
RT: 13.90 min Scan# 1307
Delta R.T. -0.06 min
Lab File: B9634.D
Acq: 5 Feb 102 6:03 pm

Tgt Ion:91 Resp: 47508

Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.2	36.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

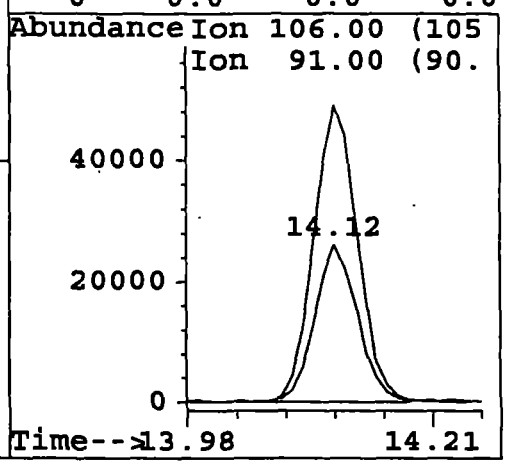


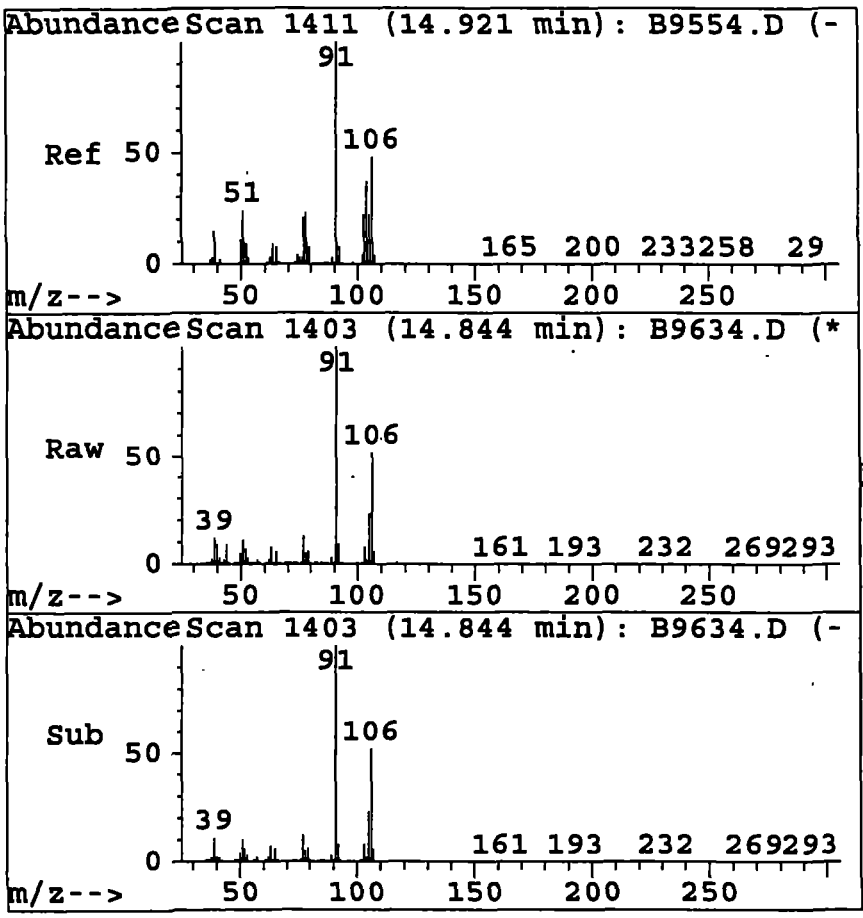


#68
(m+p)Xylene
Concen: 8.93 ug/Kg
RT: 14.12 min Scan# 1329
Delta R.T. -0.07 min
Lab File: B9634.D
Acq: 5 Feb 102 6:03 pm

Tgt Ion:106 Resp: 72507

Ion	Ratio	Lower	Upper
106	100		
91	187.3	154.0	230.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

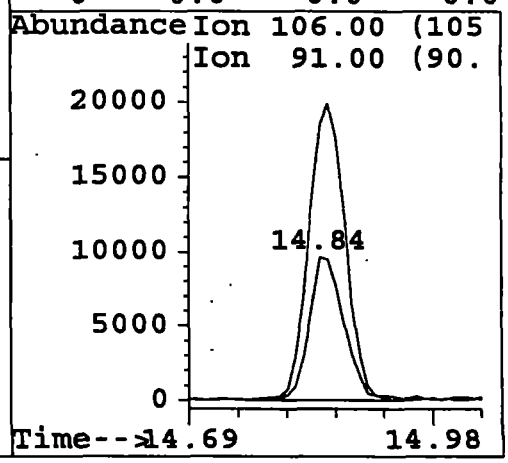




#69
o-Xylene
Concen: 3.51 ug/Kg
RT: 14.84 min Scan# 1403
Delta R.T. -0.08 min
Lab File: B9634.D
Acq: 5 Feb 102 6:03 pm

Tgt Ion:106 Resp: 28369

Ion	Ratio	Lower	Upper
106	100		
91	192.4	163.5	245.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : MTS-GB-SLU-1

Date Sampled : 01/21/02 10:30 **Order #:** 526212 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 58.9

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/02/02			
ANALYTICAL DILUTION: 0.69			Dry Weight
ACETONE	20	87	UG/KG
BENZENE	5.0	5.9 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.9 U	UG/KG
BROMOFORM	5.0	5.9 U	UG/KG
BROMOMETHANE	5.0	5.9 U	UG/KG
2-BUTANONE (MEK)	10	12 J	UG/KG
CARBON DISULFIDE	10	2.4 J	UG/KG
CARBON TETRACHLORIDE	5.0	5.9 U	UG/KG
CHLOROBENZENE	5.0	5.9 U	UG/KG
CHLOROETHANE	5.0	5.9 U	UG/KG
CHLOROFORM	5.0	5.9 U	UG/KG
CHLOROMETHANE	5.0	2.9 J	UG/KG
IBROMOCHLOROMETHANE	5.0	5.9 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.9 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.9 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.9 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.9 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.9 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.9 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.9 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.9 U	UG/KG
ETHYLBENZENE	5.0	13	UG/KG
2-HEXANONE	10	12 U	UG/KG
METHYLENE CHLORIDE	5.0	5.9 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	12 U	UG/KG
STYRENE	5.0	5.9 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.9 U	UG/KG
TETRACHLOROETHENE	5.0	5.9 U	UG/KG
TOLUENE	5.0	5.9 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.9 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.9 U	UG/KG
TRICHLOROETHENE	5.0	5.9 U	UG/KG
VINYL CHLORIDE	5.0	5.9 U	UG/KG
O-XYLENE	5.0	20	UG/KG
M+P-XYLENE	5.0	61	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	90	%
TOLUENE-D8	(71 - 128 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	116	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9589.D
Acq On : 2 Feb 102 9:37 pm
Sample : 526212 0.69
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 22:05 19102

Vial: 20
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.33	168	601974	50.00	ug/Kg	-0.08
35) 1,4 - Difluorobenzene	8.51	114	1245439	50.00	ug/Kg	-0.08
52) d5 - Chlorobenzene	13.59	117	868382	50.00	ug/Kg	-0.09
74) d4 - Dichlorobenzene	18.03	152	232616	50.00	ug/Kg	-0.10

System Monitoring Compounds						%Recovery
36) surr4,Dibrflmethane	7.21	113	347349	58.18	ug/Kg	116.37%
58) surr3,Toluene-d8	11.01	98	1078937	54.30	ug/Kg	108.60%
59) surr2,bfb	15.81	95	358956	45.23	ug/Kg	90.46%

Target Compounds						Qvalue
3) Chloromethane	1.85	50	31620	2.42	ug/Kg	93 J
12) Acetone	3.70	43	112204	74.63	ug/Kg	98
14) Carbon Disulfide	3.91	76	41174	2.11	ug/Kg	98 J
16) Allyl Chloride	3.91	76	41174	~~13.68~~	~~ug/Kg#~~	~~1~~
26) 2-Butanone	6.47	43	32527	10.54	ug/Kg	98 J
39) Iso-Butyl Alcohol	8.36	43	14232	~~25.30~~	~~ug/Kg~~	~~81~~
46) 1,4-Dioxane	9.70	88	131	~~1.71~~	~~ug/Kg~~	~~90~~
67) Ethylbenzene	13.87	91	298356	10.69	ug/Kg	97
68) (m+p)Xylene	14.10	106	532491	51.97	ug/Kg	99
69) o-Xylene	14.83	106	178184	17.47	ug/Kg	97
84) 1,2,4-Trimethylbenzene	17.38	105	26616	2.13	ug/Kg	91 NT
92) Nitrobenzene	20.71	77	1384	~~4.10~~	~~ug/Kg#~~	~~43~~

CP 2/3

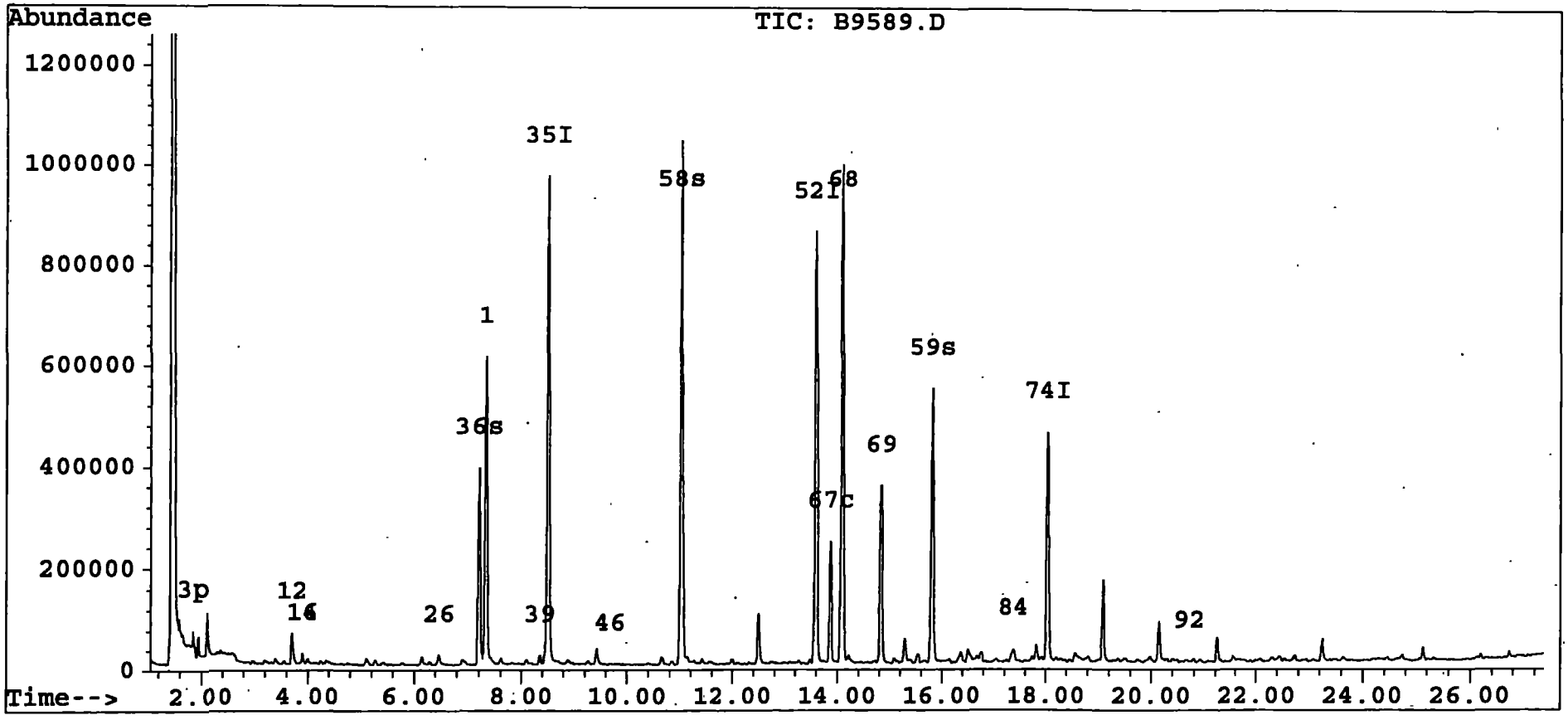
(#) = qualifier out of range (m) = manual integration
B9589.D SOL0201.M Sat Feb 02 22:05:46 2002

Quantitation Report

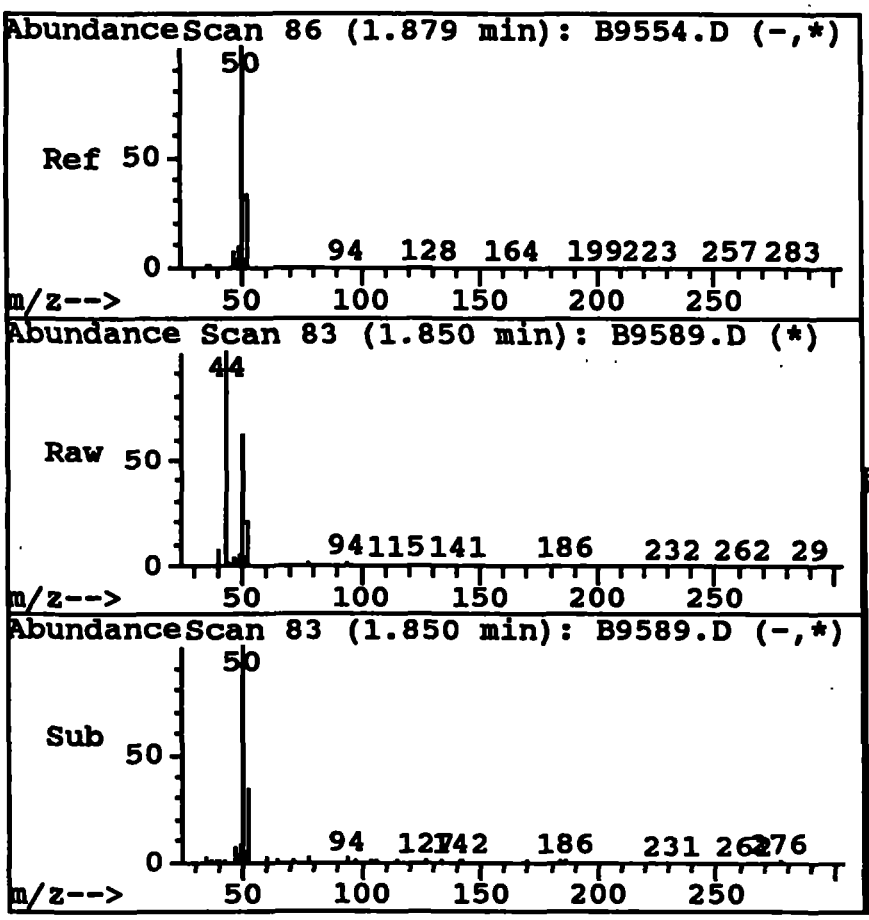
Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9589.D
Acq On : 2 Feb 102 9:37 pm
Sample : 526212 0.69
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 22:05 19102

Vial: 20
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



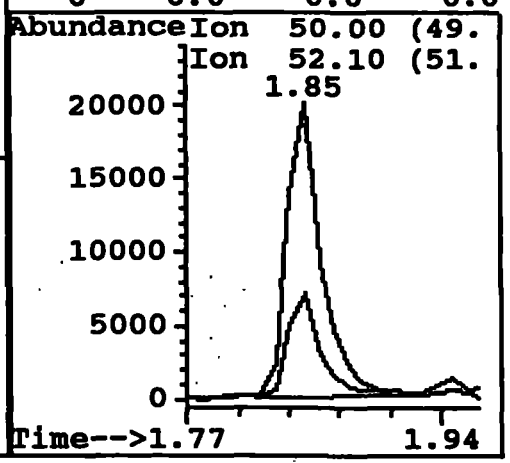
160

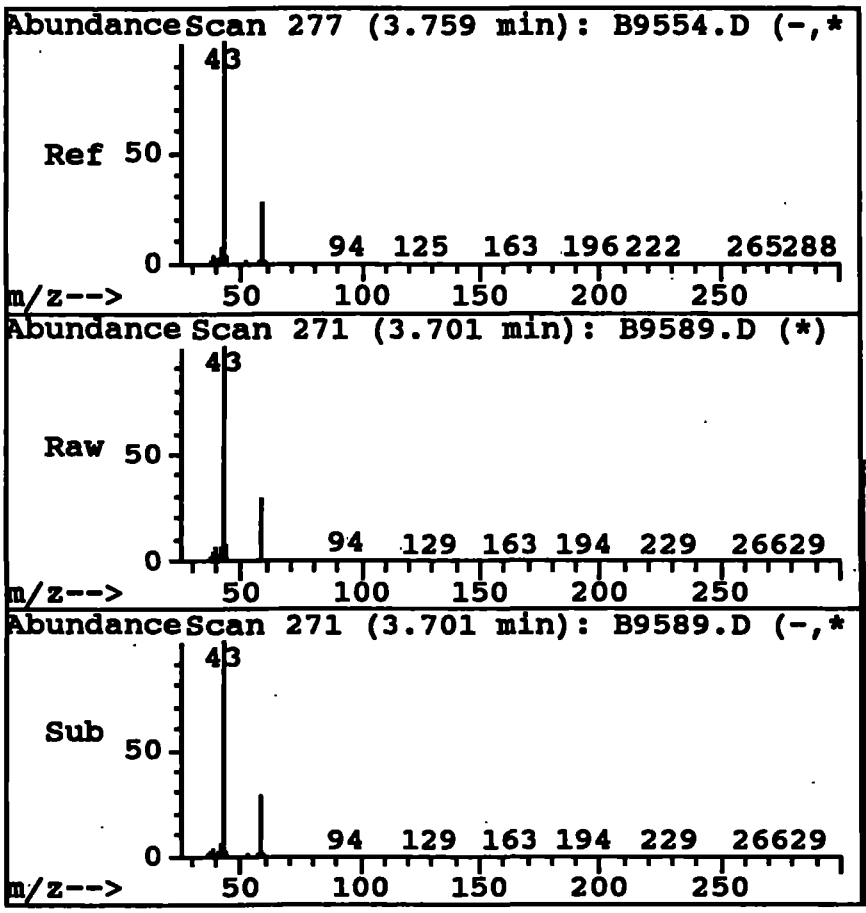


#3
Chloromethane
Concen: 2.42 ug/Kg
RT: 1.85 min Scan# 83
Delta R.T. -0.03 min
Lab File: B9589.D
Acq: 2 Feb 102 9:37 pm

Tgt Ion:50 Resp: 31620

Ion	Ratio	Lower	Upper
50	100		
52	35.9	25.7	38.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

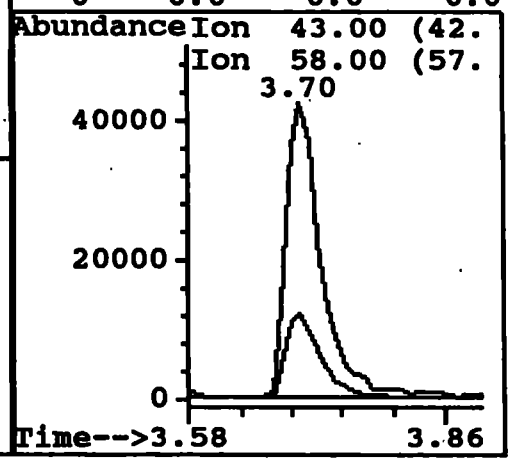


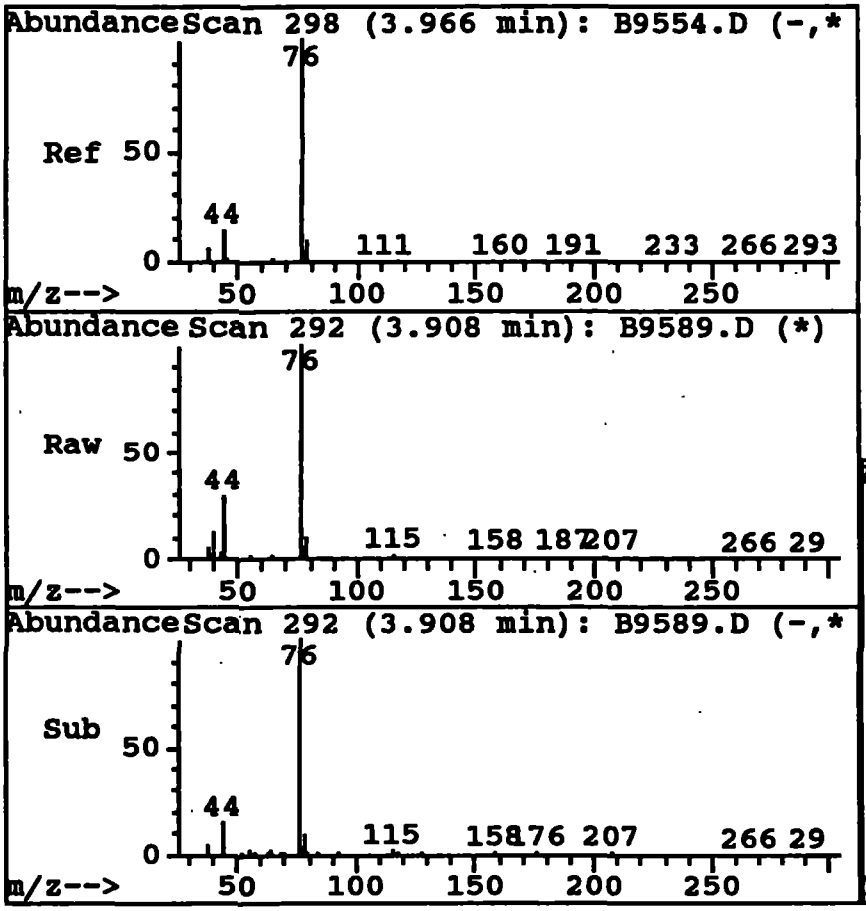


#12
Acetone
Concen: 74.63 ug/Kg
RT: 3.70 min Scan# 271
Delta R.T. -0.06 min
Lab File: B9589.D
Acq: 2 Feb 102 9:37 pm

Tgt Ion:43 Resp: 112204

Ion	Ratio	Lower	Upper
43	100		
58	29.3	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

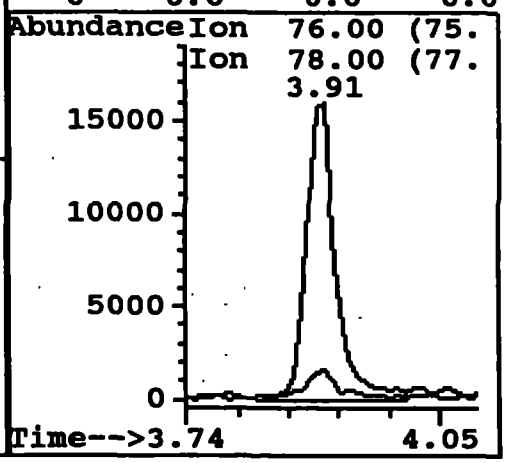


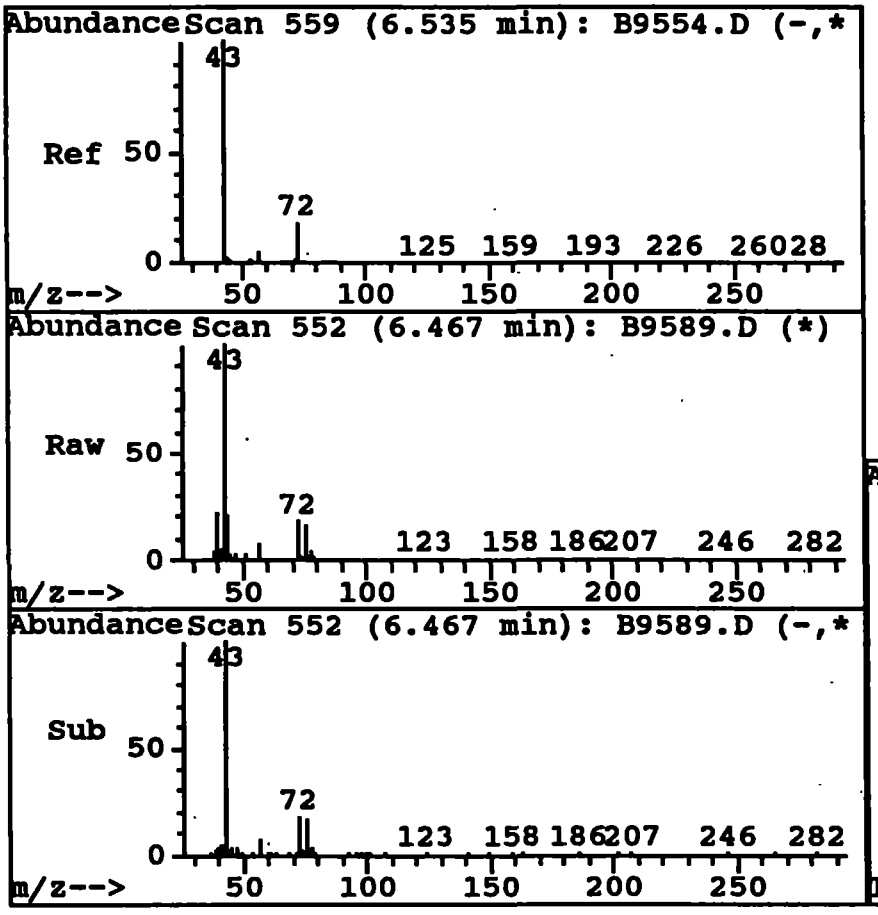


#14
Carbon Disulfide
Concen: 2.11 ug/Kg
RT: 3.91 min Scan# 292
Delta R.T. -0.06 min
Lab File: B9589.D
Acq: 2 Feb 102 9:37 pm

Tgt Ion:76 Resp: 41174

Ion	Ratio	Lower	Upper
76	100		
78	10.0	6.4	11.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

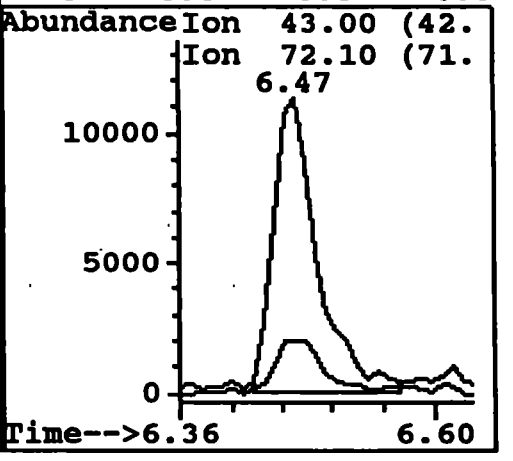


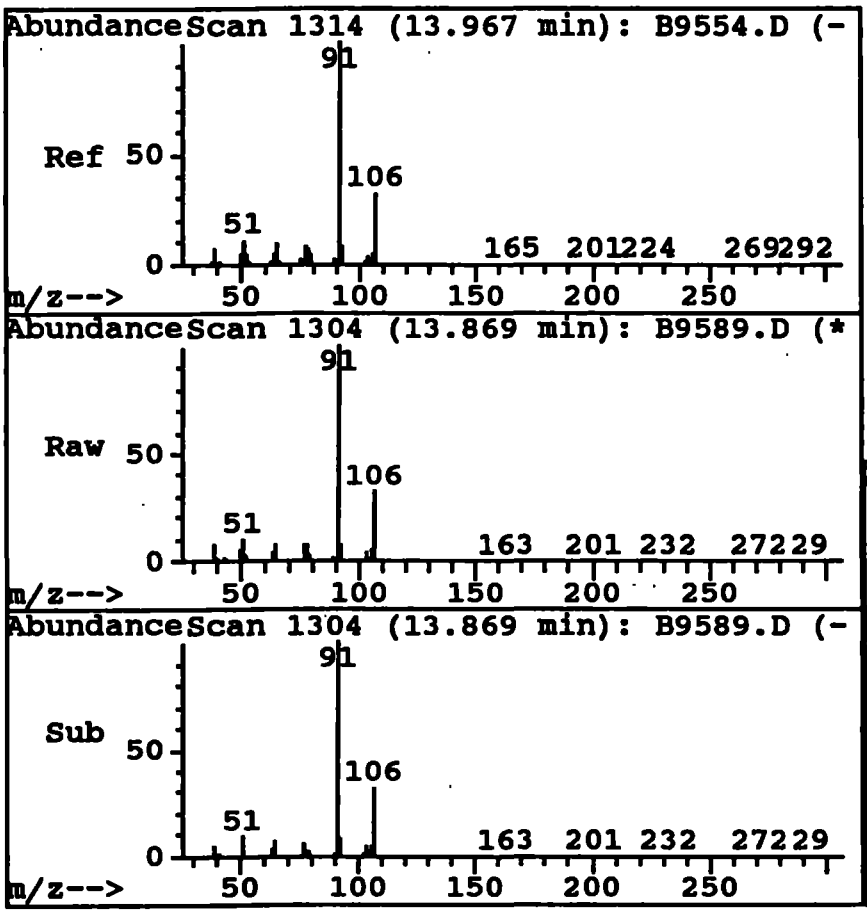


#26
2-Butanone
Concen: 10.54 ug/Kg
RT: 6.47 min Scan# 552
Delta R.T. -0.07 min
Lab File: B9589.D
Acq: 2 Feb 102 9:37 pm

Tgt Ion:43 Resp: 32527

Ion	Ratio	Lower	Upper
43	100		
72	18.1	14.5	24.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

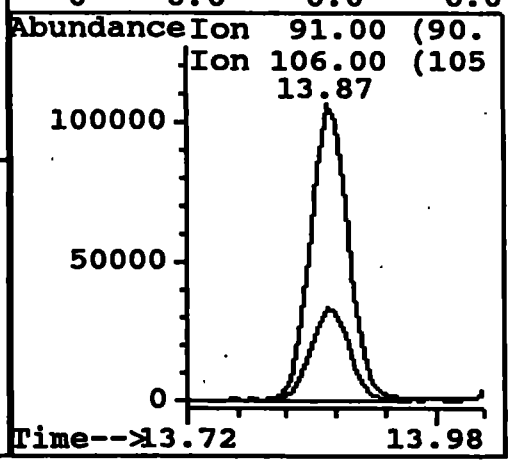


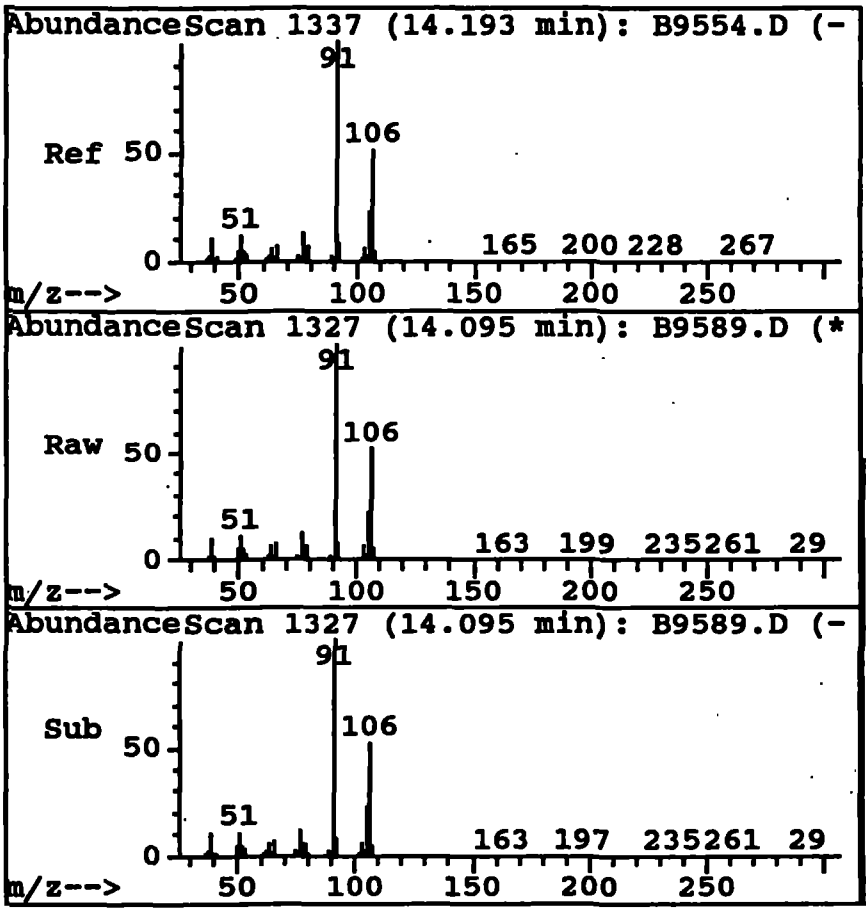


#67
Ethylbenzene
Concen: 10.69 ug/Kg
RT: 13.87 min Scan# 1304
Delta R.T. -0.10 min
Lab File: B9589.D
Acq: 2 Feb 102 9:37 pm

Tgt Ion:91 Resp: 298356

Ion	Ratio	Lower	Upper
91	100		
106	31.8	24.2	36.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

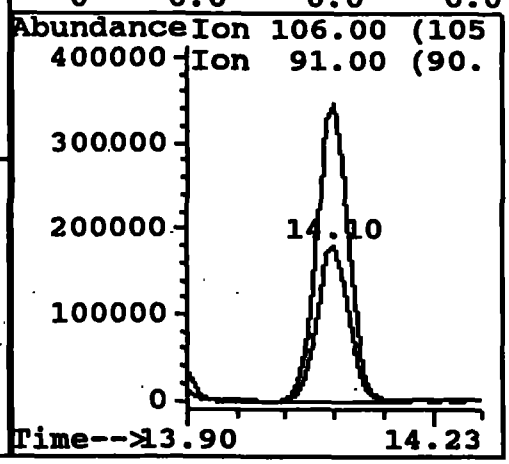


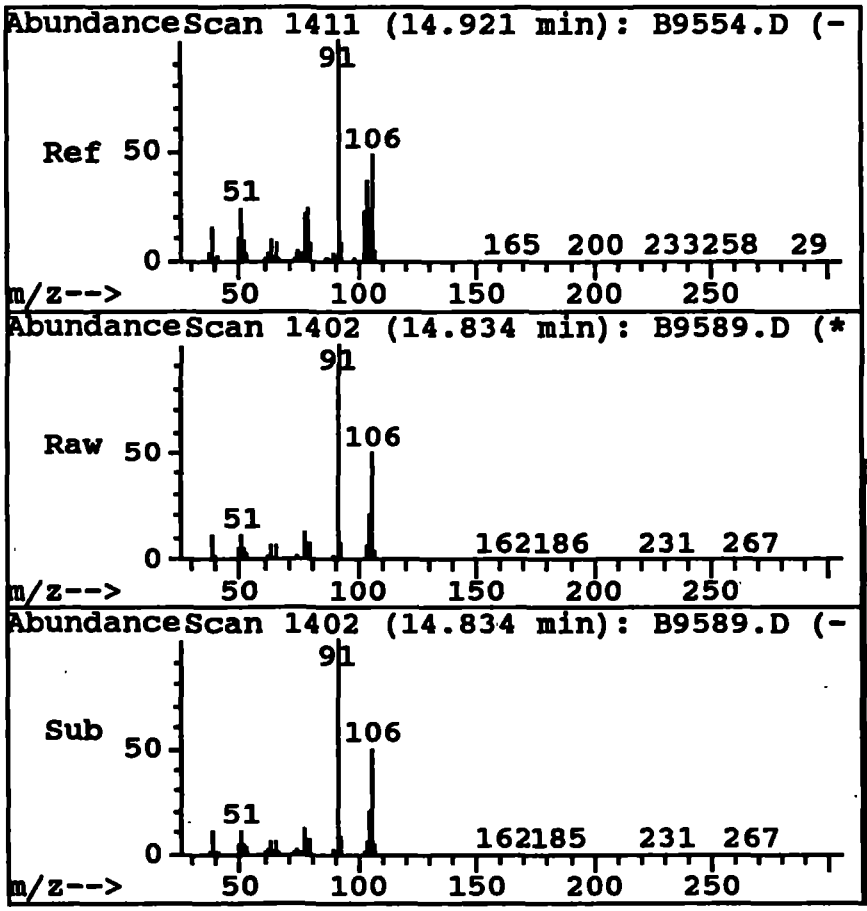


#68
(m+p)Xylene
Concen: 51.97 ug/Kg
RT: 14.10 min Scan# 1327
Delta R.T. -0.10 min
Lab File: B9589.D
Acq: 2 Feb 102 9:37 pm

Tgt Ion:106 Resp: 532491

Ion	Ratio	Lower	Upper
106	100		
91	191.2	154.0	230.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

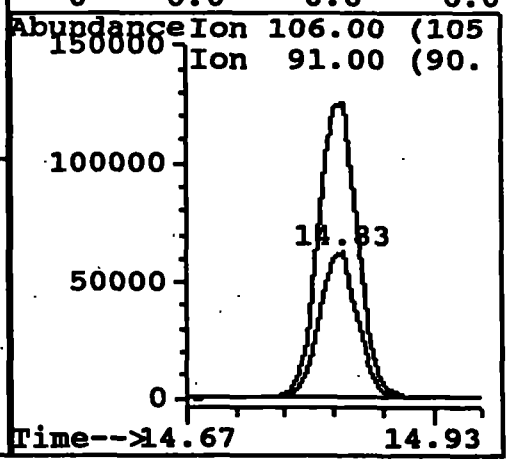




#69
o-Xylene
Concen: 17.47 ug/Kg
RT: 14.83 min Scan# 1402
Delta R.T. -0.09 min
Lab File: B9589.D
Acq: 2 Feb 102 9:37 pm

Tgt Ion:106 Resp: 178184

Ion	Ratio	Lower	Upper
106	100		
91	199.5	163.5	245.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : MTS-GB-SLU-1

Date Sampled : 01/21/02 10:30 **Order #:** 526212 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 58.9

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/05/02			
ANALYTICAL DILUTION: 0.47			Dry Weight
ACETONE	20	140	UG/KG
BENZENE	5.0	4.0 U	UG/KG
BROMODICHLOROMETHANE	5.0	4.0 U	UG/KG
BROMOFORM	5.0	4.0 U	UG/KG
BROMOMETHANE	5.0	4.0 U	UG/KG
2-BUTANONE (MEK)	10	24	UG/KG
CARBON DISULFIDE	10	2.5 J	UG/KG
CARBON TETRACHLORIDE	5.0	4.0 U	UG/KG
CHLOROBENZENE	5.0	4.0 U	UG/KG
CHLOROETHANE	5.0	2.7 J	UG/KG
CHLOROFORM	5.0	4.0 U	UG/KG
CHLOROMETHANE	5.0	11	UG/KG
IBROMOCHLOROMETHANE	5.0	4.0 U	UG/KG
1,1-DICHLOROETHANE	5.0	4.0 U	UG/KG
1,2-DICHLOROETHANE	5.0	4.0 U	UG/KG
1,1-DICHLOROETHENE	5.0	4.0 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	4.0 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	4.0 U	UG/KG
1,2-DICHLOROPROPANE	5.0	4.0 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	4.0 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	4.0 U	UG/KG
ETHYLBENZENE	5.0	14	UG/KG
2-HEXANONE	10	1.3 J	UG/KG
METHYLENE CHLORIDE	5.0	4.0 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	2.0 J	UG/KG
STYRENE	5.0	4.0 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	4.0 U	UG/KG
TETRACHLOROETHENE	5.0	4.0 U	UG/KG
TOLUENE	5.0	4.0 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	4.0 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	4.0 U	UG/KG
TRICHLOROETHENE	5.0	4.0 U	UG/KG
VINYL CHLORIDE	5.0	4.0 U	UG/KG
O-XYLENE	5.0	22	UG/KG
M+P-XYLENE	5.0	61	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	88	%
TOLUENE-D8	(71 - 128 %)	111	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	124	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9635.D Vial: 10
Acq On : 5 Feb 102 6:39 pm Operator: DROOT
Sample : 526212 0.47 Inst : 5971 - In
Misc : TTEM-KS R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 5 19:07 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.35	168	509118	50.00 ug/Kg	-0.06
35) 1,4 - Difluorobenzene	8.53	114	1048472	50.00 ug/Kg	-0.06
52) d5 - Chlorobenzene	13.62	117	686429	50.00 ug/Kg	-0.06
74) d4 - Dichlorobenzene	18.06	152	174841	50.00 ug/Kg	-0.07
System Monitoring Compounds					%Recovery
36) surr4,Dibrflmethane	7.23	113	311283	61.94 ug/Kg	123.88%
58) surr3,Toluene-d8	11.04	98	872618	55.56 ug/Kg	111.12%
59) surr2,bfb	15.84	95	275400	43.90 ug/Kg	87.80%
Target Compounds					Qvalue
3) Chloromethane	1.86	50	152342	13.76 ug/Kg	99
6) Chloroethane	2.52	64	15230	3.39 ug/Kg	98
12) Acetone	3.71	43	217403	170.97 ug/Kg	96
14) Carbon Disulfide	3.92	76	52284	3.17 ug/Kg	99
15) Acetonitrile	4.15	41	12451	102.59 ug/Kg#	57
16) Allyl Chloride	3.92	76	51760	20.33 ug/Kg#	1
26) 2-Butanone	6.49	43	76226	29.21 ug/Kg	100
33) Tetrahydrofuran	6.93	42	13041	3.02 ug/Kg	88
39) Iso-Butyl Alcohol	8.39	43	21092	44.53 ug/Kg	80
42) N-Heptane	8.39	43	22116	2.34 ug/Kg#	72
46) 1,4-Dioxane	9.79	88	164	2.55 ug/Kg	83
53) 4-Methyl-2-Pentanone	10.86	43	15877	2.48 ug/Kg	88
61) 2-Hexanone	12.35	43	7731	1.69 ug/Kg	89
67) Ethylbenzene	13.90	91	377531	17.11 ug/Kg	96
68) (m+p)Xylene	14.12	106	630300	77.82 ug/Kg	98
69) o-Xylene	14.85	106	228361	28.32 ug/Kg	100
80) 1,3,5-Trimethylbenzene	16.53	105	37906	4.01 ug/Kg	100
84) 1,2,4-Trimethylbenzene	17.41	105	27545	2.94 ug/Kg	90
85) sec-Butylbenzene	17.41	105	27545	2.01 ug/Kg#	59

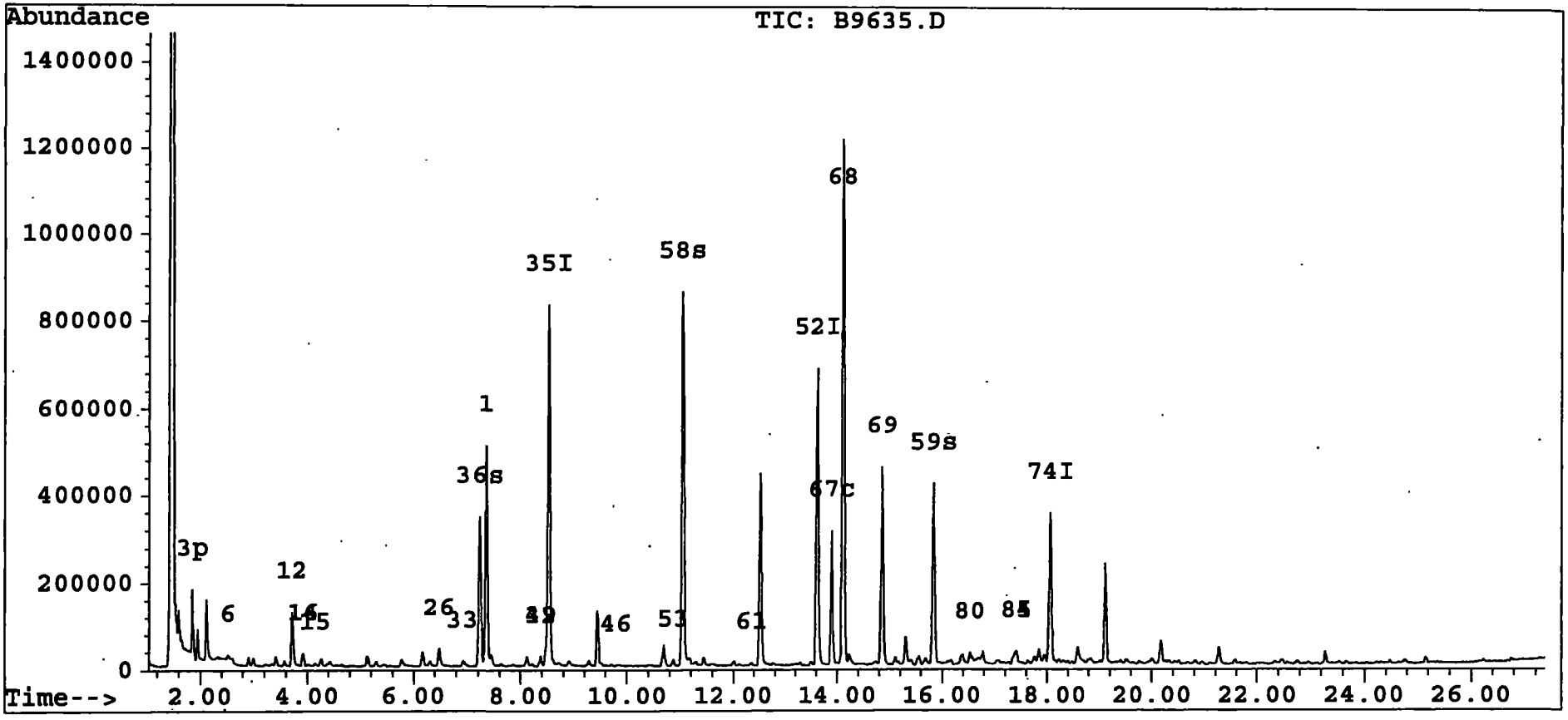
(#) = qualifier out of range (m) = manual integration

Quantitation Report

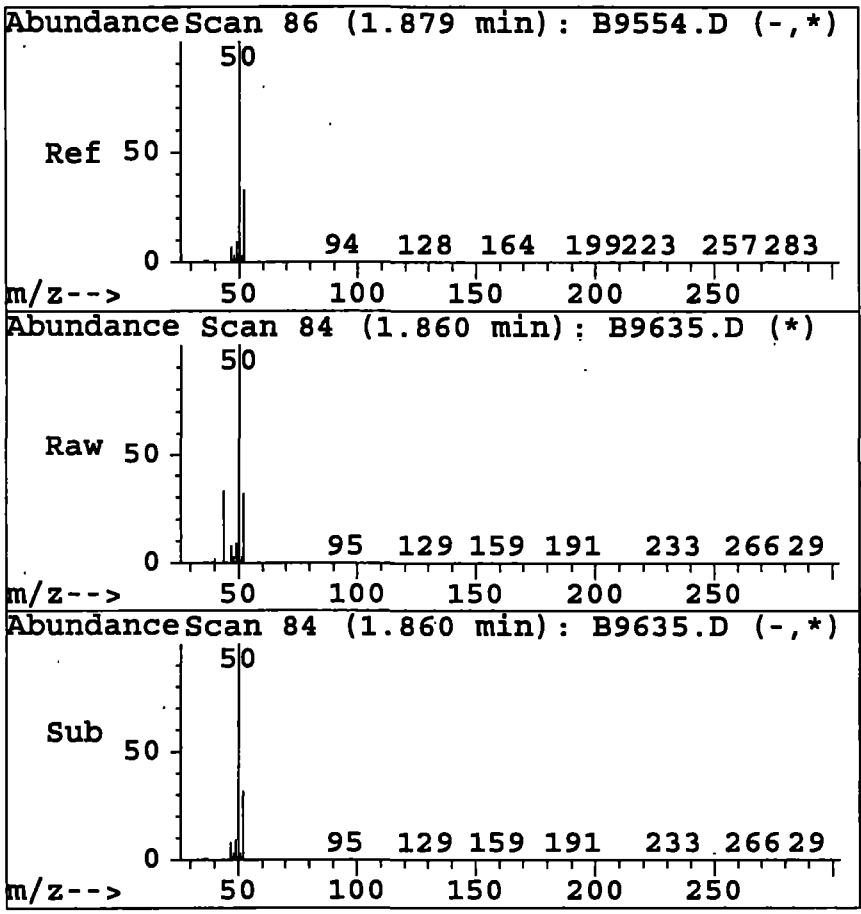
Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9635.
Acq On : 5 Feb 102 6:39 pm
Sample : 526212 0.47
Misc : TTEM-KS R22-10416 8260B.TC5
Quant Time: Feb 5 19:07 19102

Vial: 10
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration



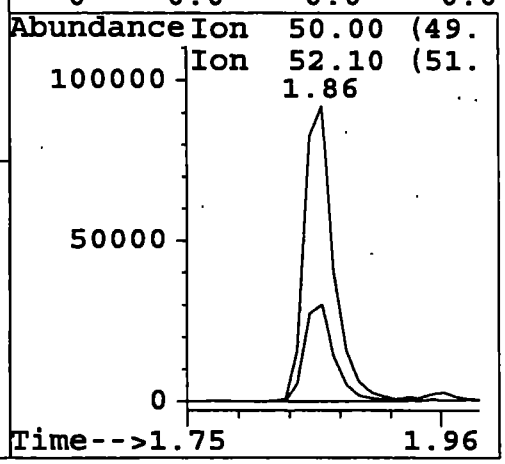
170

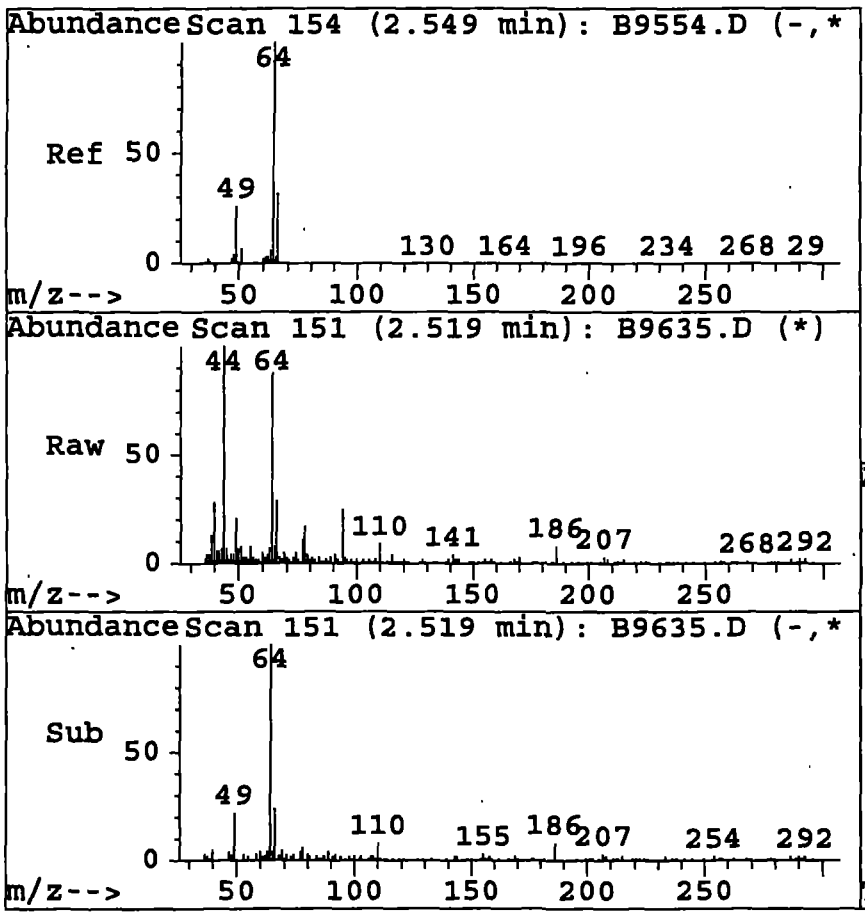


#3
Chloromethane
Concen: 13.76 ug/Kg
RT: 1.86 min Scan# 84
Delta R.T. -0.01 min
Lab File: B9635.D
Acq: 5 Feb 102 6:39 pm

Tgt Ion:50 Resp: 152342

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.7	38.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

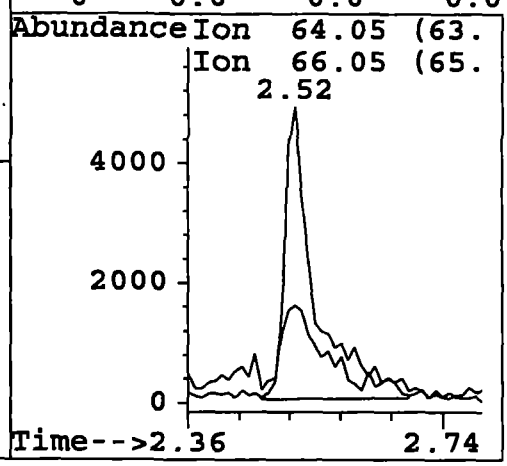


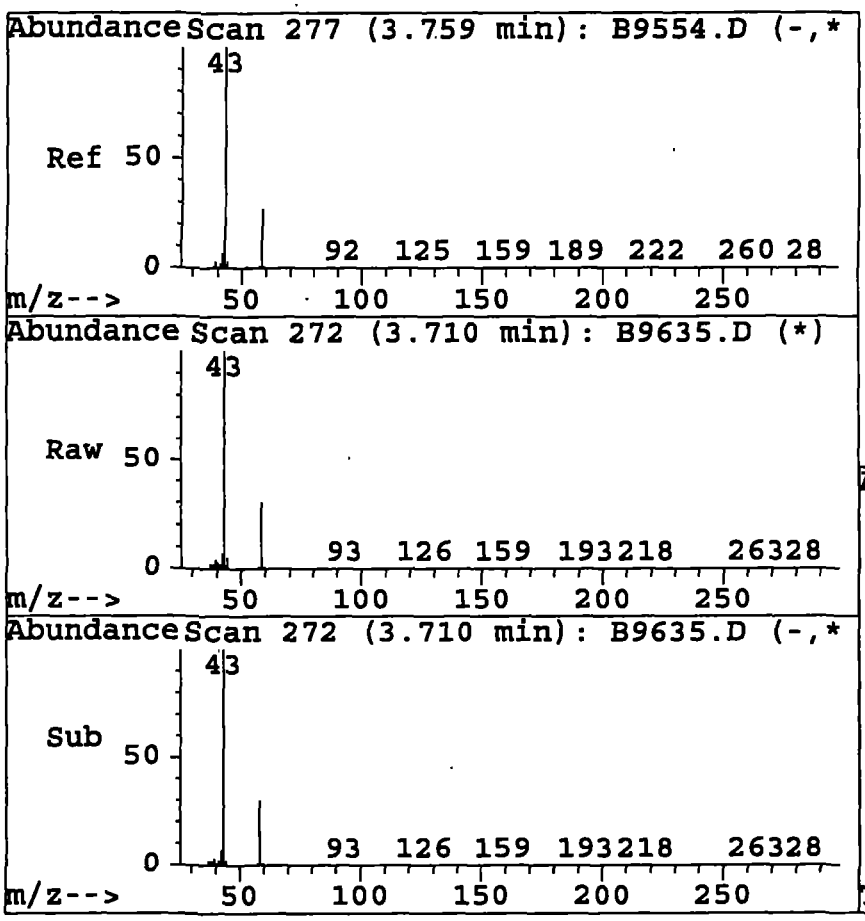


#6
Chloroethane
Concen: 3.39 ug/Kg
RT: 2.52 min Scan# 151
Delta R.T. -0.03 min
Lab File: B9635.D
Acq: 5 Feb 102 6:39 pm

Tgt Ion:64.05 Resp: 15230

Ion	Ratio	Lower	Upper
64	100		
66	32.9	24.0	39.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

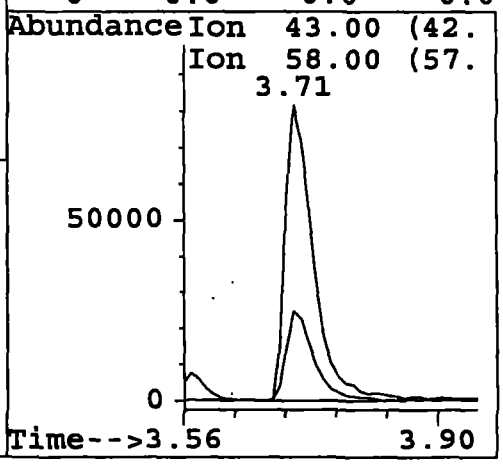


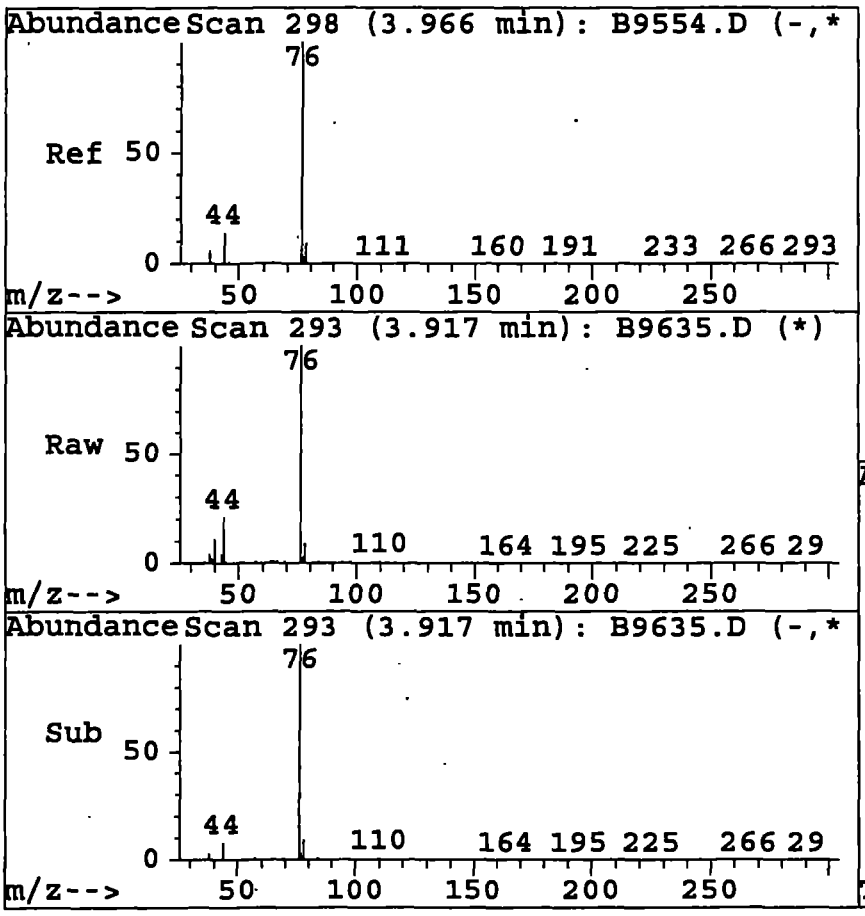


#12
Acetone
Concen: 170.97 ug/Kg
RT: 3.71 min Scan# 272
Delta R.T. -0.04 min
Lab File: B9635.D
Acq: 5 Feb 102 6:39 pm

Tgt Ion:43 Resp: 217403

Ion	Ratio	Lower	Upper
43	100		
58	30.4	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

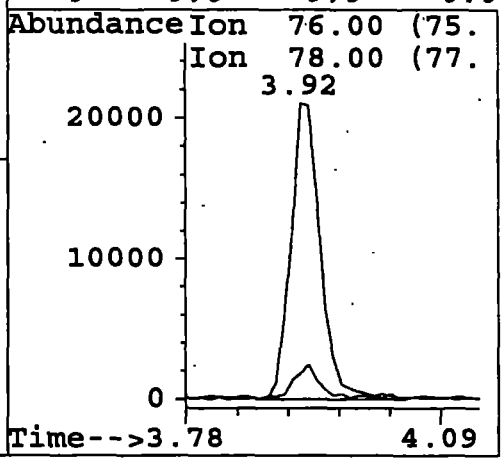


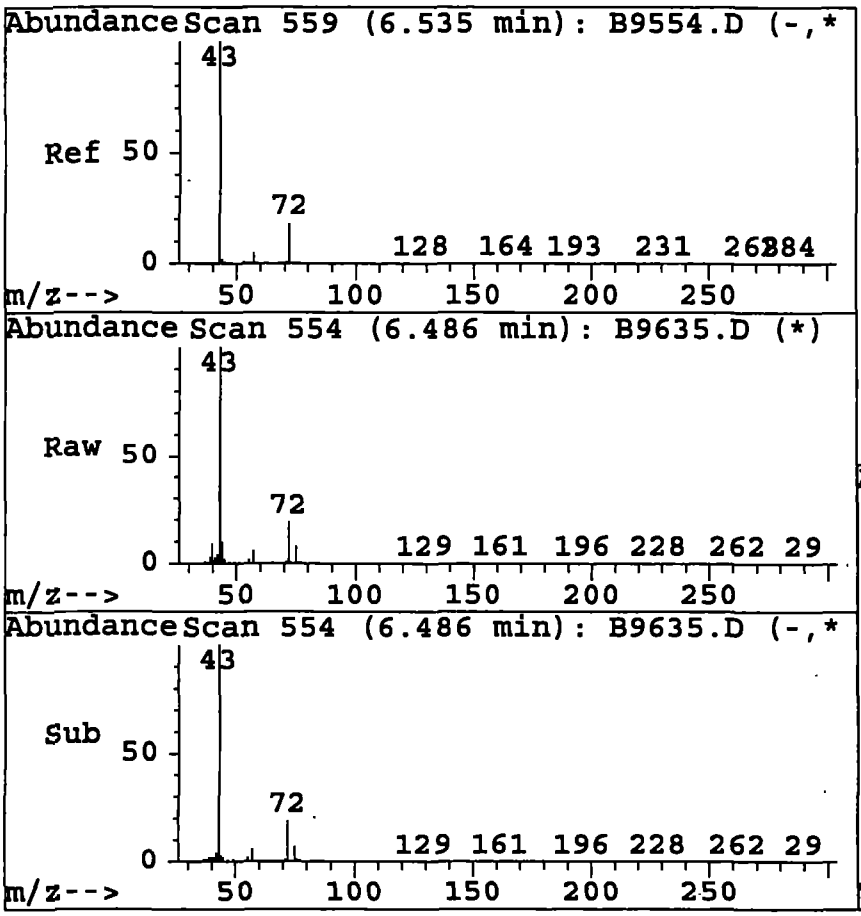


#14
Carbon Disulfide
Concen: 3.17 ug/Kg
RT: 3.92 min Scan# 293
Delta R.T. -0.05 min
Lab File: B9635.D
Acq: 5 Feb 102 6:39 pm

Tgt Ion:76 Resp: 52284

Ion	Ratio	Lower	Upper
76	100		
78	8.9	6.4	11.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

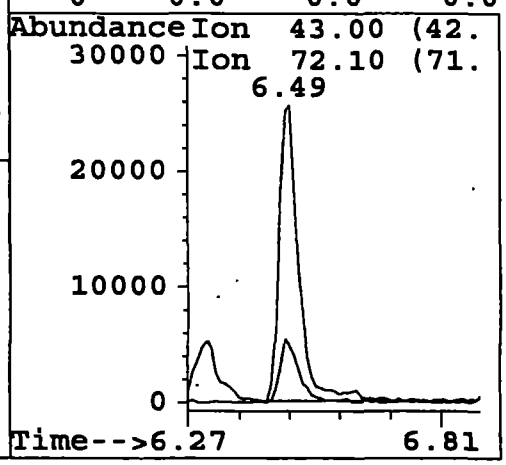


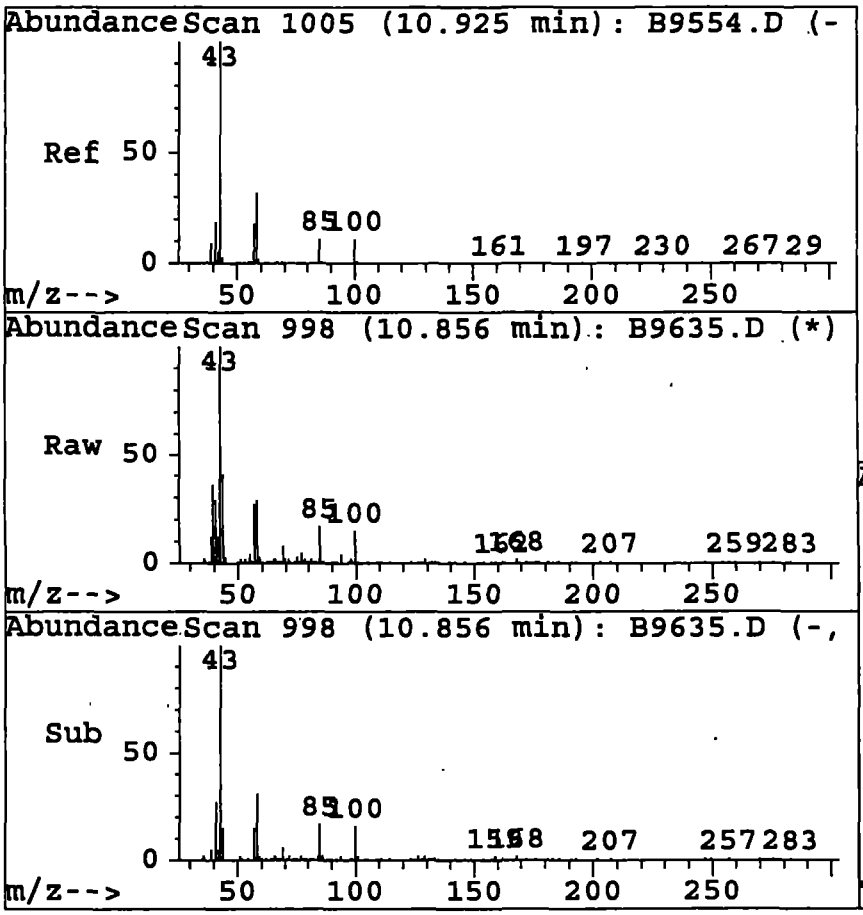


#26
2-Butanone
Concen: 29.21 ug/Kg
RT: 6.49 min Scan# 554
Delta R.T. -0.04 min
Lab File: B9635.D
Acq: 5 Feb 102 6:39 pm

Tgt Ion:43 Resp: 76226

Ion	Ratio	Lower	Upper
43	100		
72	19.3	14.5	24.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

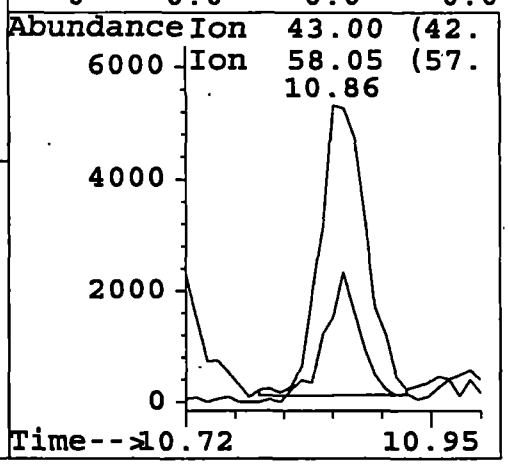


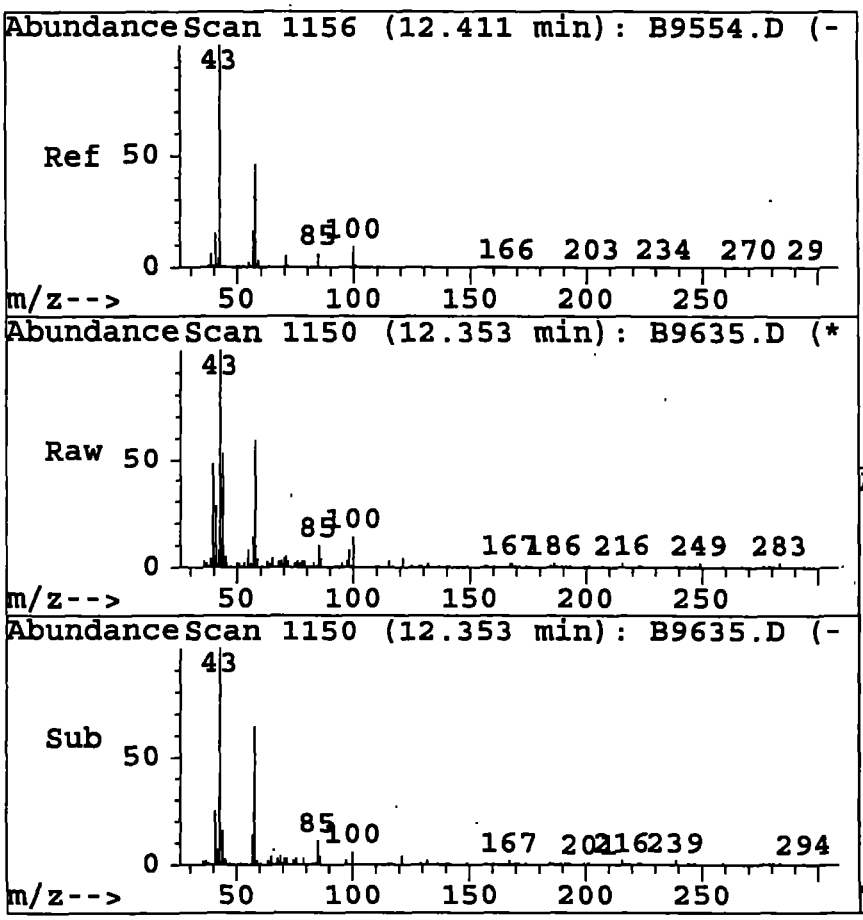


#53
4-Methyl-2-Pentanone
Concen: 2.48 ug/Kg
RT: 10.86 min Scan# 998
Delta R.T. -0.06 min
Lab File: B9635.D
Acq: 5 Feb 102 6:39 pm

Tgt Ion:43 Resp: 15877

Ion	Ratio	Lower	Upper
43	100		
58	28.6	27.0	44.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

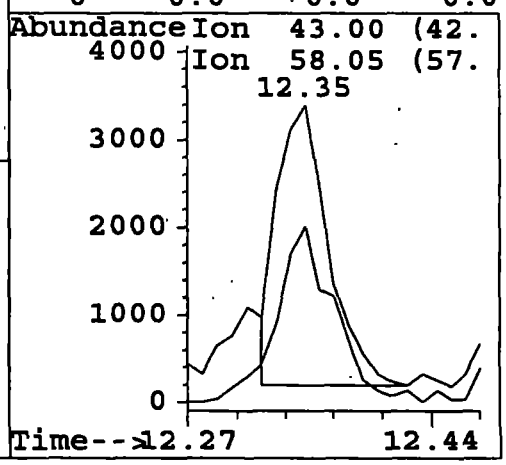


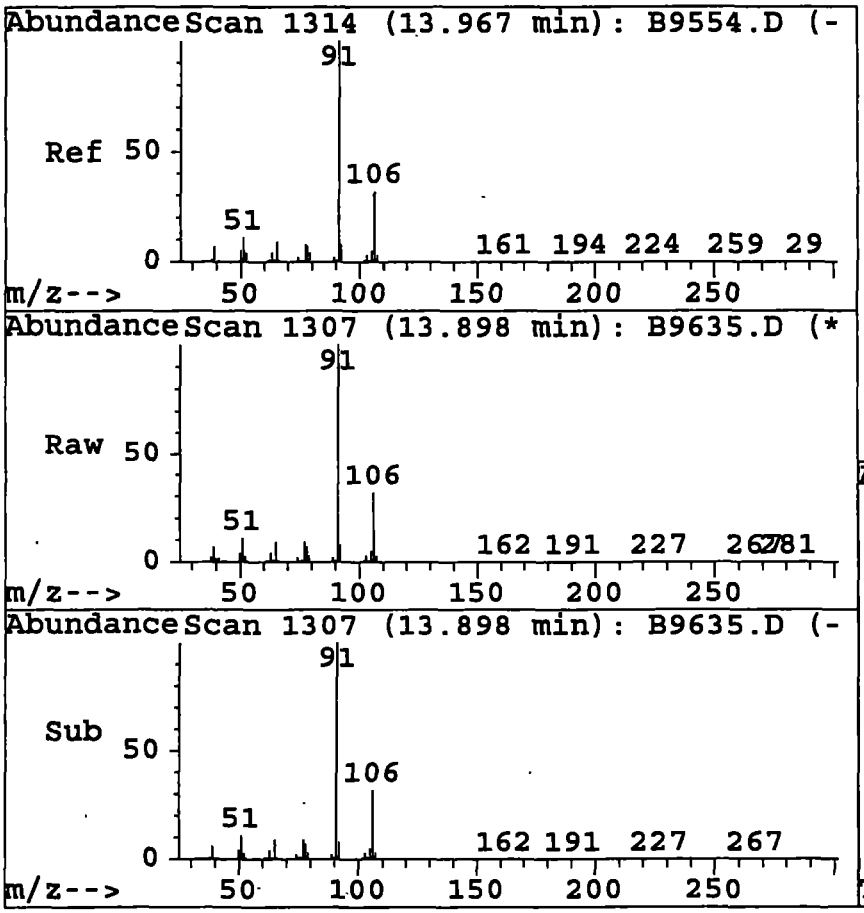


#61
2-Hexanone
Concen: 1.69 ug/Kg
RT: 12.35 min Scan# 1150
Delta R.T. -0.05 min
Lab File: B9635.D
Acq: 5 Feb 102 6:39 pm

Tgt Ion:43 Resp: 7731

Ion	Ratio	Lower	Upper
43	100		
58	59.4	41.5	62.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

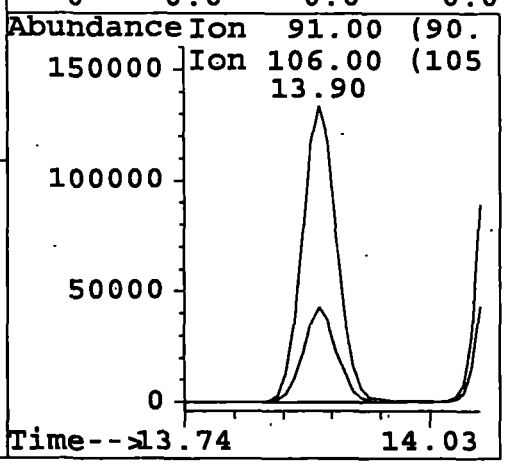


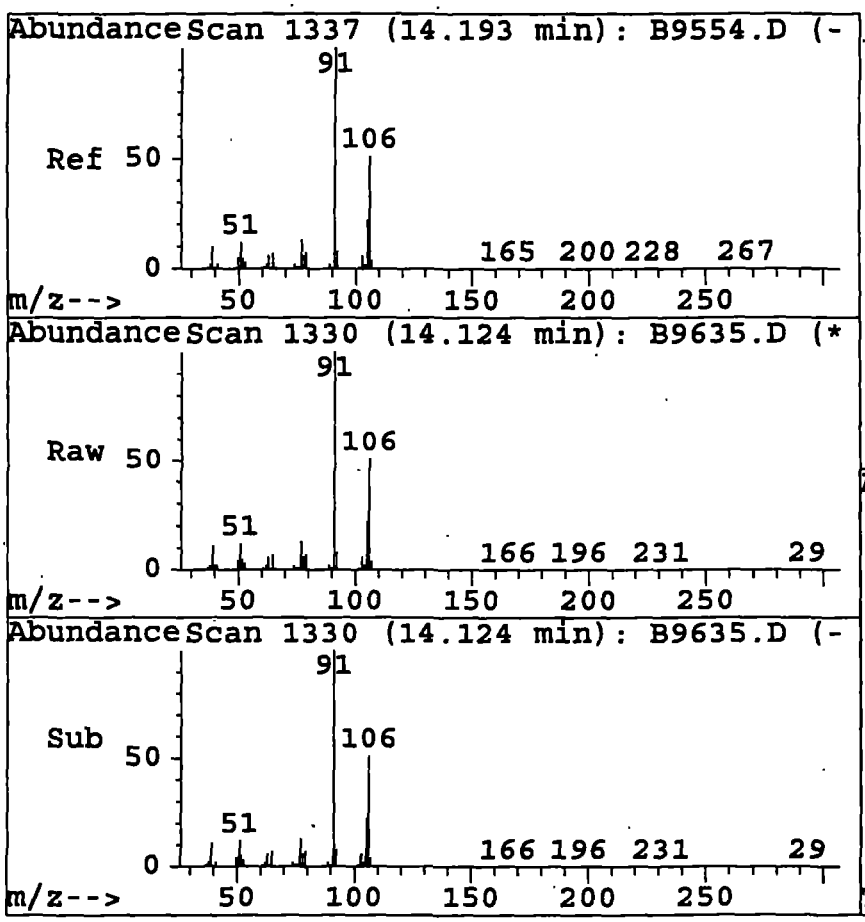


#67
Ethylbenzene
Concen: 17.11 ug/Kg
RT: 13.90 min Scan# 1307
Delta R.T. -0.06 min
Lab File: B9635.D
Acq: 5 Feb 102 6:39 pm

Tgt Ion:91 Resp: 377531

Ion	Ratio	Lower	Upper
91	100		
106	32.2	24.2	36.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

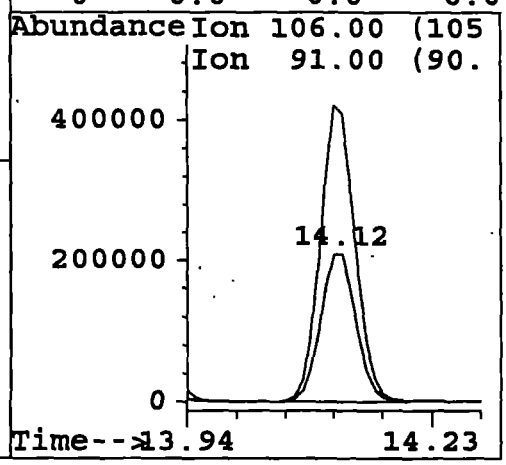


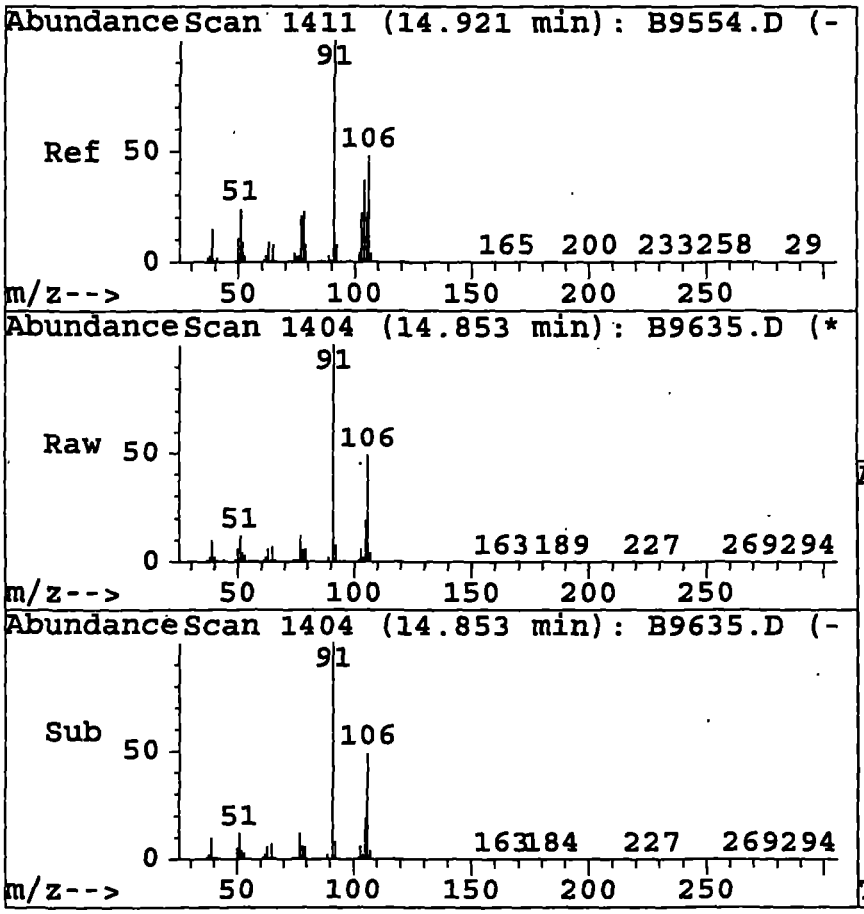


#68
(m+p)Xylene
Concen: 77.82 ug/Kg
RT: 14.12 min Scan# 1330
Delta R.T. -0.06 min
Lab File: B9635.D
Acq: 5 Feb 102 6:39 pm

Tgt Ion:106 Resp: 630300

Ion	Ratio	Lower	Upper
106	100		
91	194.9	154.0	230.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

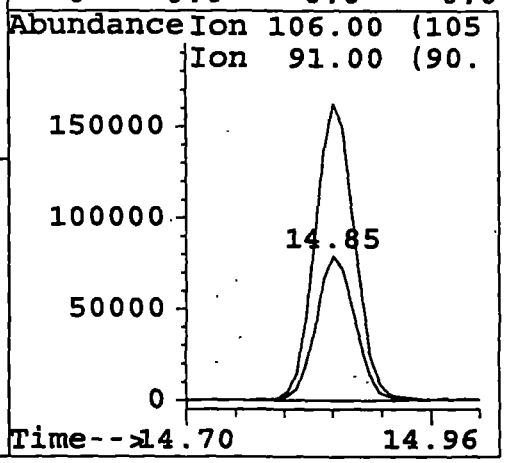




#69
o-Xylene
Concen: 28.32 ug/Kg
RT: 14.85 min Scan# 1404
Delta R.T. -0.07 min
Lab File: B9635.D
Acq: 5 Feb 102 6:39 pm

Tgt Ion:106 Resp: 228361

Ion	Ratio	Lower	Upper
106	100		
91	204.8	163.5	245.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : SR-S-3-6/10

Date Sampled : 01/19/02 09:50 **Order #:** 526213 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 77.0

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/01/02			
ANALYTICAL DILUTION: 0.84			Dry Weight
ACETONE	20	16 J	UG/KG
BENZENE	5.0	5.5 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.5 U	UG/KG
BROMOFORM	5.0	5.5 U	UG/KG
BROMOMETHANE	5.0	5.5 U	UG/KG
2-BUTANONE (MEK)	10	11 U	UG/KG
CARBON DISULFIDE	10	11 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.5 U	UG/KG
CHLOROBENZENE	5.0	5.5 U	UG/KG
CHLOROETHANE	5.0	5.5 U	UG/KG
CHLOROFORM	5.0	5.5 U	UG/KG
CHLOROMETHANE	5.0	5.5 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.5 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.5 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.5 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.5 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.5 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.5 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.5 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.5 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.5 U	UG/KG
ETHYLBENZENE	5.0	5.5 U	UG/KG
2-HEXANONE	10	11 U	UG/KG
METHYLENE CHLORIDE	5.0	5.5 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	11 U	UG/KG
STYRENE	5.0	5.5 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.5 U	UG/KG
TETRACHLOROETHENE	5.0	5.5 U	UG/KG
TOLUENE	5.0	5.5 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.5 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.5 U	UG/KG
TRICHLOROETHENE	5.0	5.5 U	UG/KG
VINYL CHLORIDE	5.0	5.5 U	UG/KG
O-XYLENE	5.0	5.5 U	UG/KG
M+P-XYLENE	5.0	5.5 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	102	%
TOLUENE-D8	(71 - 128 %)	105	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	103	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9566.D
Acq On : 1 Feb 102 8:41 pm
Sample : 526213 0.84
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 1 21:09 19102

Vial: 20
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.35	168	776701	50.00 ug/Kg	-0.06
35) 1,4 - Difluorobenzene	8.53	114	1543825	50.00 ug/Kg	-0.06
52) d5 - Chlorobenzene	13.61	117	1156635	50.00 ug/Kg	-0.07
74) d4 - Dichlorobenzene	18.06	152	462856	50.00 ug/Kg	-0.07
System Monitoring Compounds					%Recovery
36) surr4,Dibrflmethane	7.22	113	380446	51.41 ug/Kg	102.82%
58) surr3,Toluene-d8	11.04	98	1386310	52.38 ug/Kg	104.77%
59) surr2,bfb	15.83	95	538436	50.94 ug/Kg	101.88%
Target Compounds					Qvalue
12) Acetone	3.72	43	28823	14.86 ug/Kg	96 J
39) Iso-Butyl Alcohol	8.39	43	2901	~~4.16 ug/Kg~~	~~83~~

2/2

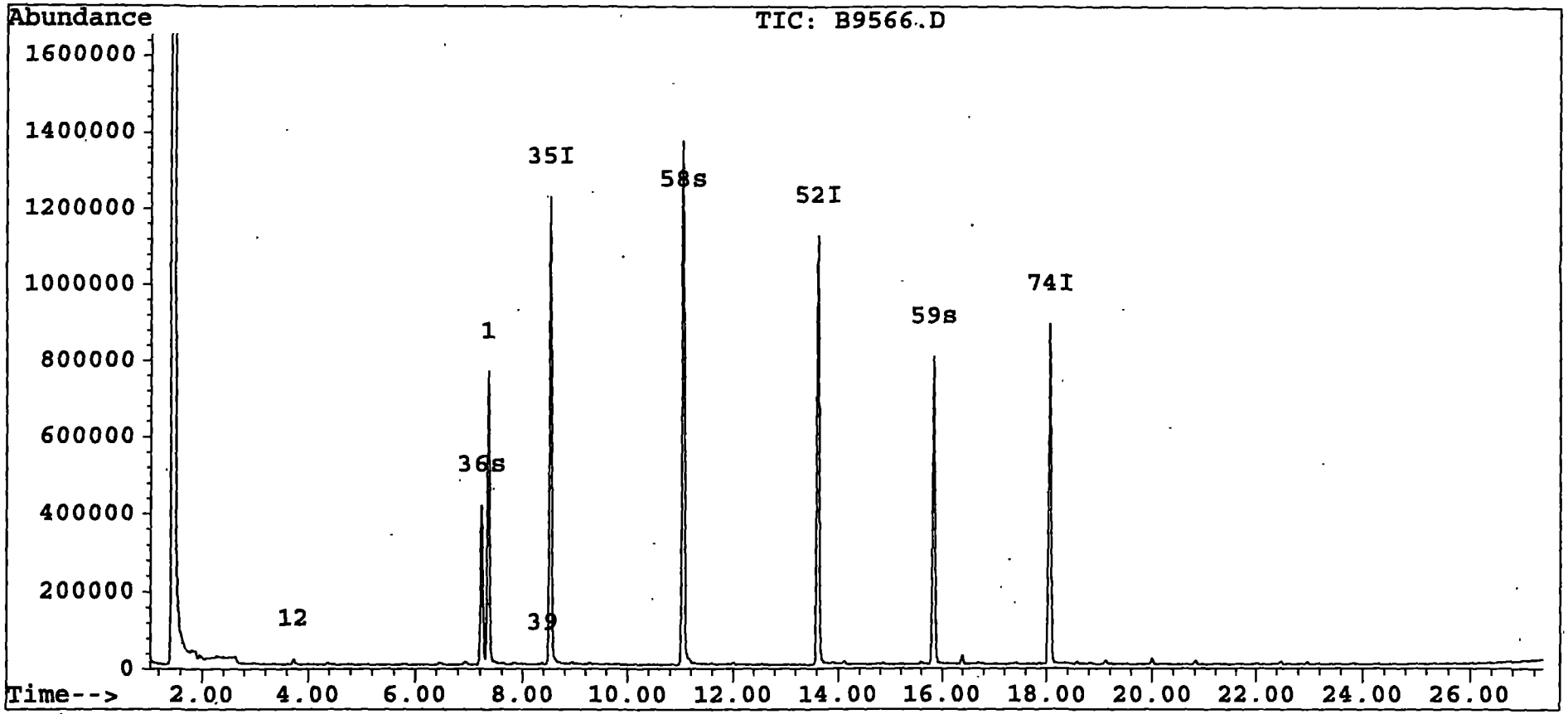
(#) = qualifier out of range (m) = manual integration
B9566.D SOL0201.M Fri Feb 01 21:09:45 2002

Quantitation Report

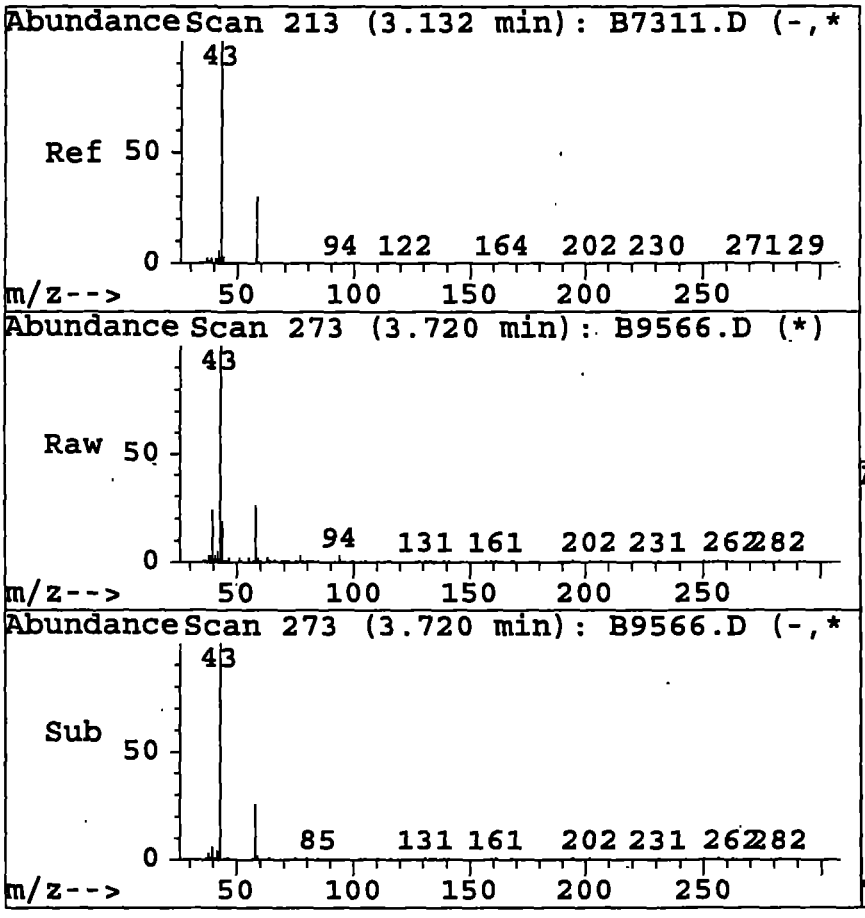
Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9566.L
Acq On : 1 Feb 102 8:41 pm
Sample : 526213 0.84
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 1 21:09 19102

Vial: 20
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



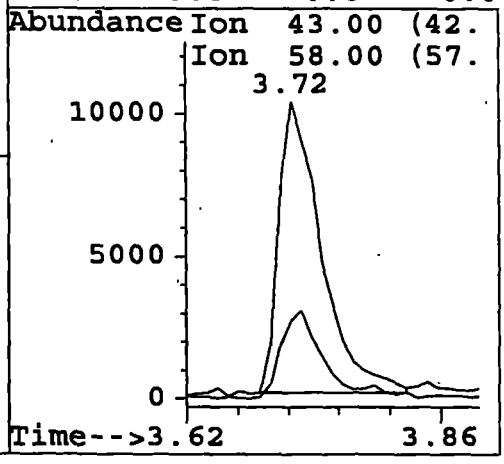
183



#12
Acetone
Concen: 14.86 ug/Kg
RT: 3.72 min Scan# 273
Delta R.T. -0.04 min
Lab File: B9566.D
Acq: 1 Feb 102 8:41 pm

Tgt Ion:43 Resp: 28823

Ion	Ratio	Lower	Upper
43	100		
58	26.2	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : SR-S-3-2/6

Date Sampled : 01/19/02 09:00 **Order #:** 526214 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 85.5

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/01/02			
ANALYTICAL DILUTION: 0.85			Dry Weight
ACETONE	20	69	UG/KG
BENZENE	5.0	5.0 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.0 U	UG/KG
BROMOFORM	5.0	5.0 U	UG/KG
BROMOMETHANE	5.0	5.0 U	UG/KG
2-BUTANONE (MEK)	10	10 U	UG/KG
CARBON DISULFIDE	10	10 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.0 U	UG/KG
CHLOROBENZENE	5.0	5.0 U	UG/KG
CHLOROETHANE	5.0	5.0 U	UG/KG
CHLOROFORM	5.0	5.0 U	UG/KG
LOROMETHANE	5.0	5.0 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.0 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
ETHYLBENZENE	5.0	5.0 U	UG/KG
2-HEXANONE	10	10 U	UG/KG
METHYLENE CHLORIDE	5.0	5.0 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/KG
STYRENE	5.0	5.0 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/KG
TETRACHLOROETHENE	5.0	5.0 U	UG/KG
TOLUENE	5.0	5.0 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/KG
TRICHLOROETHENE	5.0	5.0 U	UG/KG
VINYL CHLORIDE	5.0	5.0 U	UG/KG
O-XYLENE	5.0	5.0 U	UG/KG
M+P-XYLENE	5.0	5.0 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	103	%
TOLUENE-D8	(71 - 128 %)	105	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	104	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9565.D Vial: 19
Acq On : 1 Feb 102 8:04 pm Operator: TTRAVER
Sample : 526214 0.85 Inst : 5971 - In
Misc : TTEM R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 1 20:32 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.35	168	820234	50.00 ug/Kg	-0.06
35) 1,4 - Difluorobenzene	8.53	114	1584824	50.00 ug/Kg	-0.06
52) d5 - Chlorobenzene	13.62	117	1187987	50.00 ug/Kg	-0.06
74) d4 - Dichlorobenzene	18.06	152	493223	50.00 ug/Kg	-0.07
System Monitoring Compounds					**%Recovery**
36) surr4,Dibrflmethane	7.23	113	396743	52.23 ug/Kg	104.45%
58) surr3,Toluene-d8	11.04	98	1426823	52.49 ug/Kg	104.98%
59) surr2,bfb	15.84	95	561384	51.71 ug/Kg	103.42%
Target Compounds					**Qvalue**
12) Acetone	3.72	43	142301	69.46 ug/Kg	92
39) Iso-Butyl Alcohol	8.38	43	3350	~~4.68 ug/Kg~~	~~98~~

CP 2/2

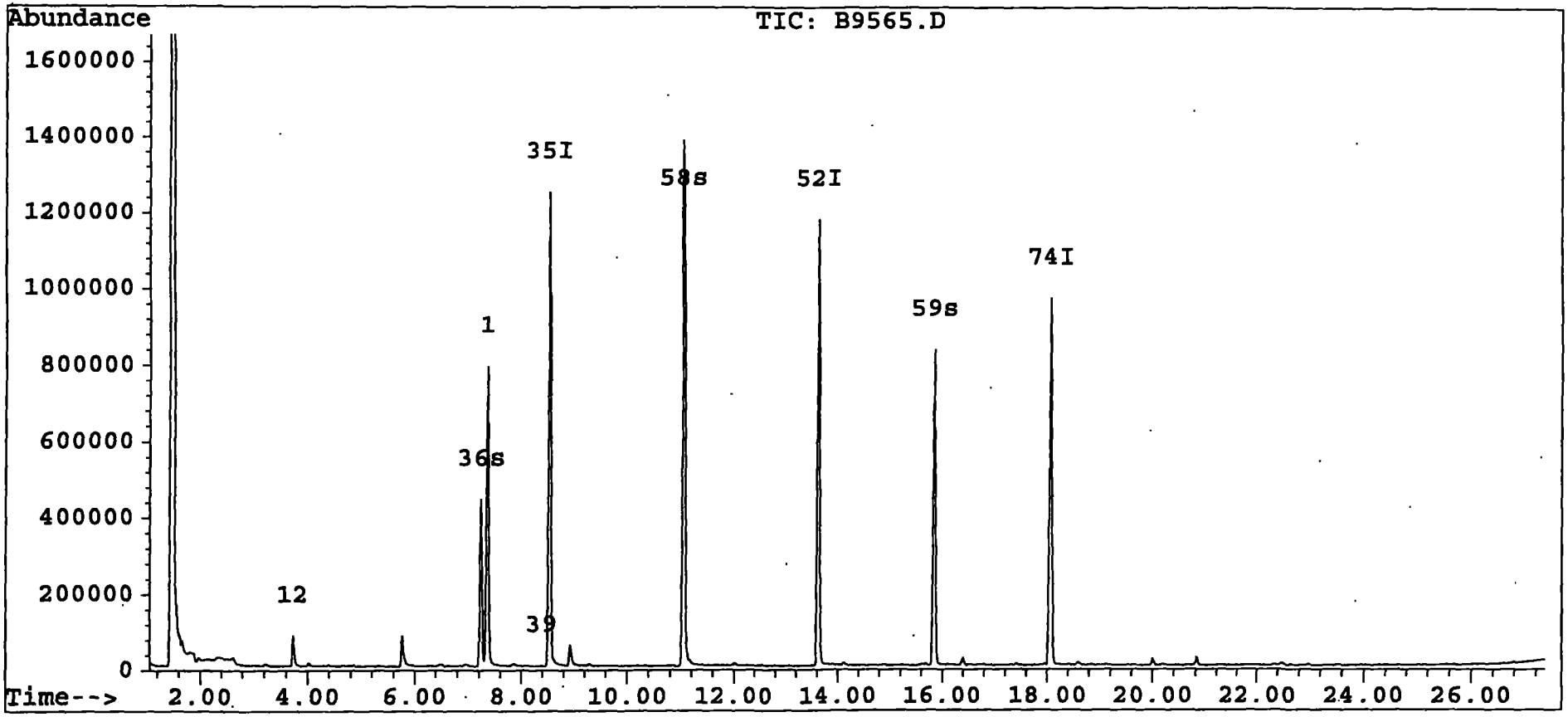
(#) = qualifier out of range (m) = manual integration
B9565.D SOL0201.M Fri Feb 01 20:32:36 2002 Page 1

Quantitation Report

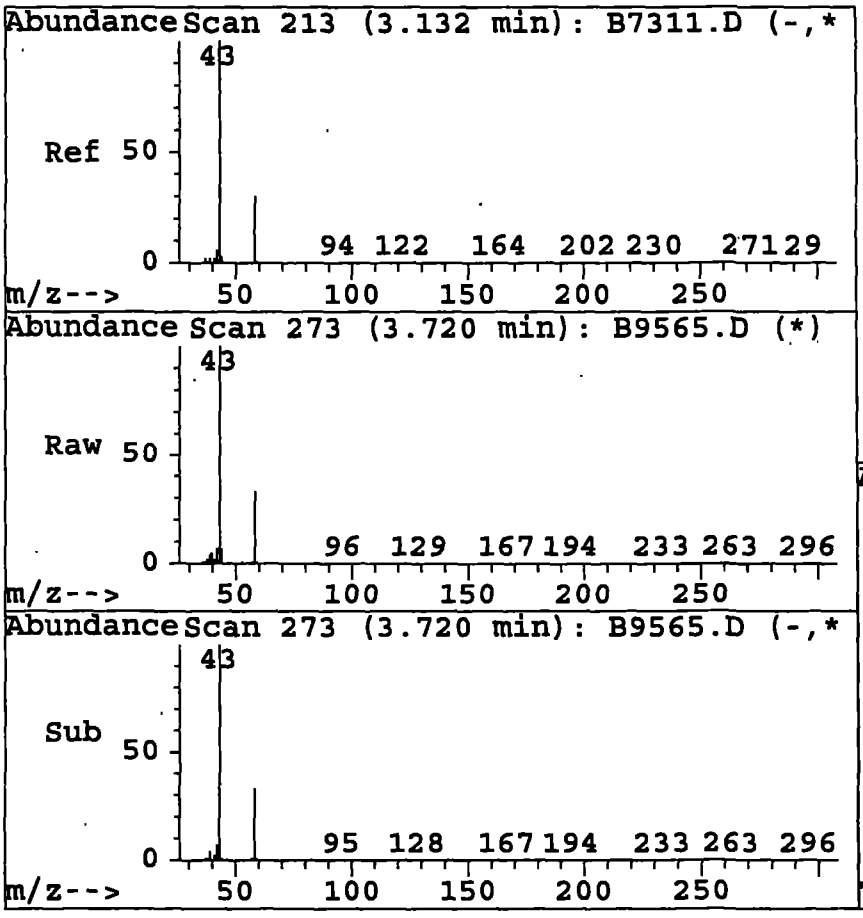
Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9565.
Acq On : 1 Feb 102 8:04 pm
Sample : 526214 0.85
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 1 20:32 19102

Vial: 19
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



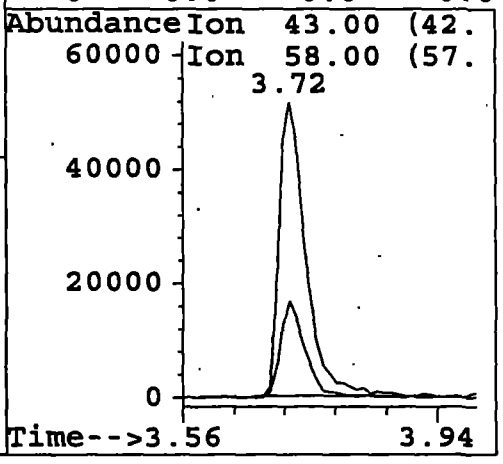
187



#12
Acetone
Concen: 69.46 ug/Kg
RT: 3.72 min Scan# 273
Delta R.T. -0.04 min
Lab File: B9565.D
Acq: 1 Feb 102 8:04 pm

Tgt Ion:43 Resp: 142301

Ion	Ratio	Lower	Upper
43	100		
58	32.7	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : SR-S-3-2/6-FD

Date Sampled : 01/19/02 09:00 **Order #:** 526215 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 78.9

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/02/02			
ANALYTICAL DILUTION: 0.82			Dry Weight
ACETONE	20	12 J	UG/KG
BENZENE	5.0	5.2 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.2 U	UG/KG
BROMOFORM	5.0	5.2 U	UG/KG
BROMOMETHANE	5.0	5.2 U	UG/KG
2-BUTANONE (MEK)	10	10 U	UG/KG
CARBON DISULFIDE	10	10 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.2 U	UG/KG
CHLOROBENZENE	5.0	5.2 U	UG/KG
CHLOROETHANE	5.0	5.2 U	UG/KG
CHLOROFORM	5.0	5.2 U	UG/KG
ILOROMETHANE	5.0	5.2 U	UG/KG
IBROMOCHLOROMETHANE	5.0	5.2 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.2 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.2 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.2 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.2 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.2 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.2 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.2 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.2 U	UG/KG
ETHYLBENZENE	5.0	5.2 U	UG/KG
2-HEXANONE	10	1.6 J	UG/KG
METHYLENE CHLORIDE	5.0	5.2 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/KG
STYRENE	5.0	5.2 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.2 U	UG/KG
TETRACHLOROETHENE	5.0	5.2 U	UG/KG
TOLUENE	5.0	5.2 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.2 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.2 U	UG/KG
TRICHLOROETHENE	5.0	5.2 U	UG/KG
VINYL CHLORIDE	5.0	5.2 U	UG/KG
O-XYLENE	5.0	5.2 U	UG/KG
M+P-XYLENE	5.0	5.2 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	103	%
TOLUENE-D8	(71 - 128 %)	104	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	119	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9577.D
Acq On : 2 Feb 102 2:16 pm
Sample : 526215 0.82
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 14:44 19102

Vial: 8
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.32	168	828981	50.00 ug/Kg	-0.09
35) 1,4 - Difluorobenzene	8.50	114	1607084	50.00 ug/Kg	-0.09
52) d5 - Chlorobenzene	13.58	117	1263357	50.00 ug/Kg	-0.10
74) d4 - Dichlorobenzene	18.03	152	476038	50.00 ug/Kg	-0.10
System Monitoring Compounds					**%Recovery**
36) surr4,Dibrflmethane	7.21	113	458996	59.58 ug/Kg	119.17%
58) surr3,Toluene-d8	11.01	98	1502858	51.99 ug/Kg	103.98%
59) surr2,bfb	15.80	95	592138	51.29 ug/Kg	102.57%
Target Compounds					**Qvalue**
12) Acetone	3.70	43	24082	11.63 ug/Kg	94 J
18) TBA	4.61	59	22474	29.40 ug/Kg#	82 NJ
29) Propionitrile	6.54	54	2524	~~2.22 ug/Kg#~~	~~80~~
39) Iso-Butyl Alcohol	8.35	43	3214	~~4.43 ug/Kg#~~	~~74~~
46) 1,4-Dioxane	9.52	88	357	~~3.62 ug/Kg#~~	~~34~~
61) 2-Hexanone	12.32	43	13519	1.60 ug/Kg	86 J
92) Nitrobenzene	20.73	77	1348	~~1.95 ug/Kg#~~	~~48~~

CP 2/3

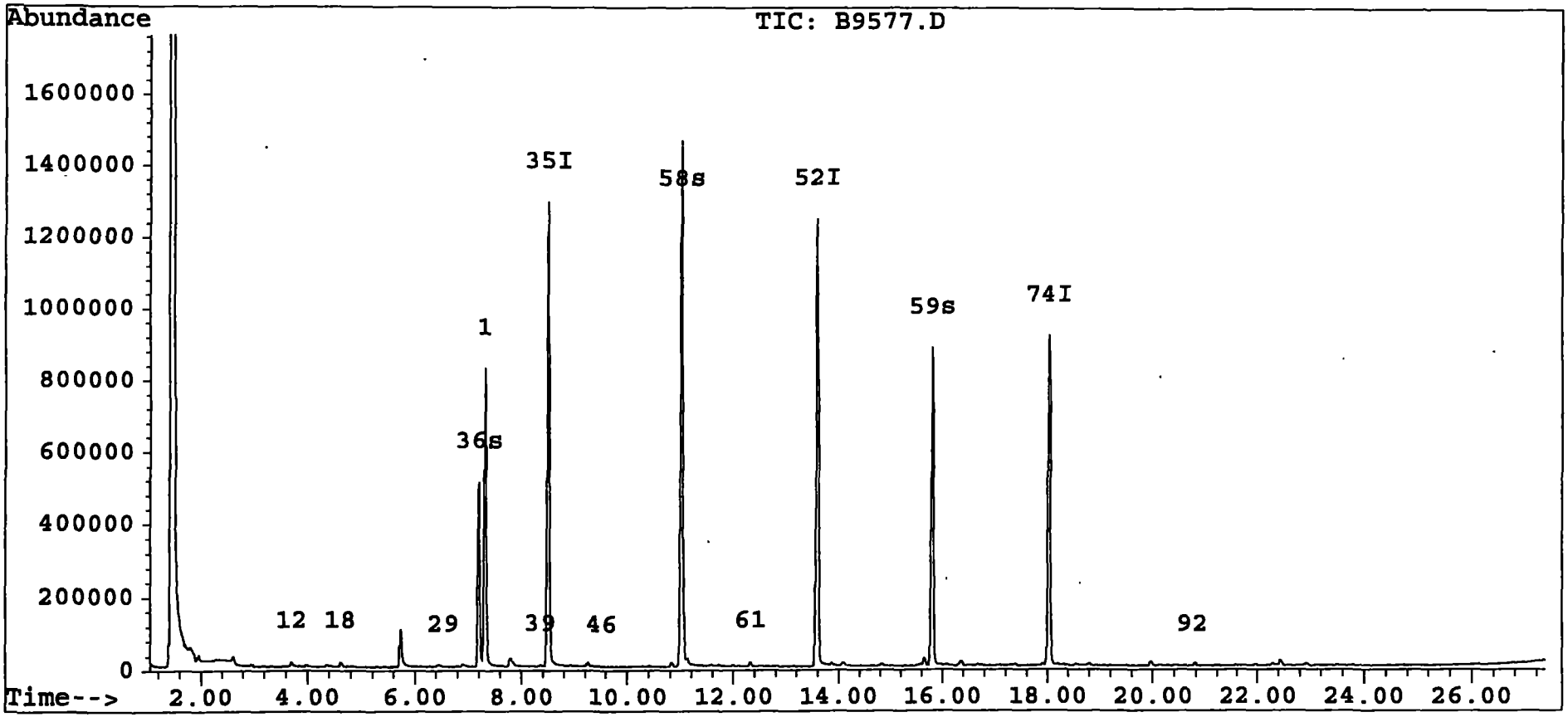
(#) = qualifier out of range (m) = manual integration

Quantitation Report

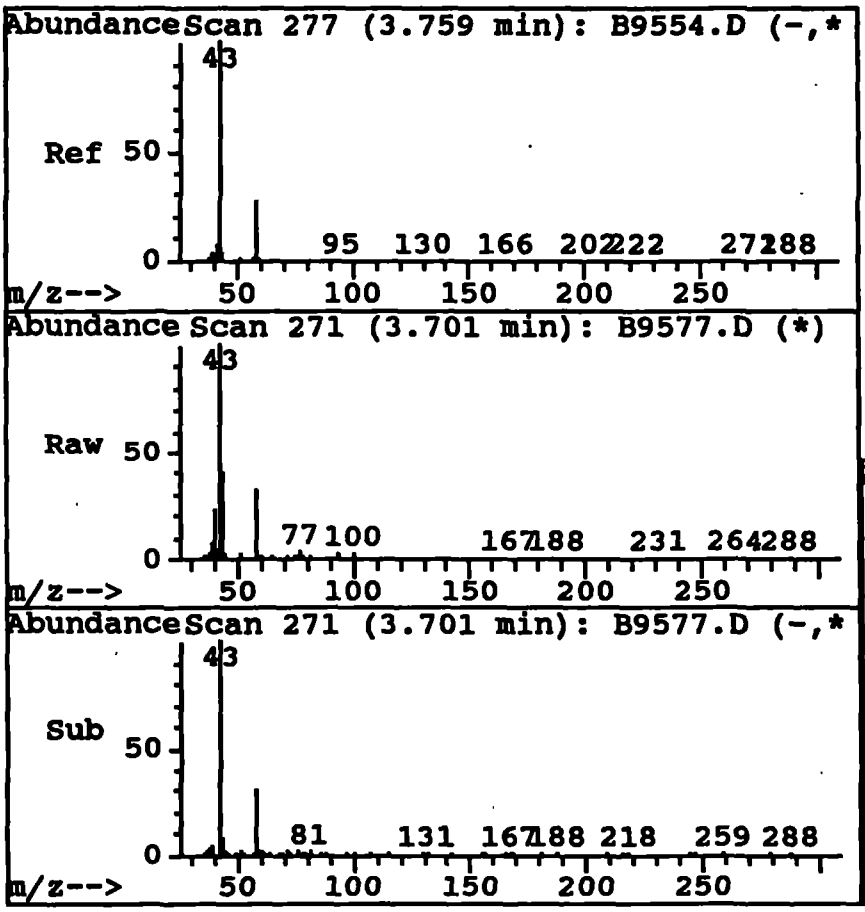
Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9577.D
Acq On : 2 Feb 102 2:16 pm
Sample : 526215 0.82
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 14:44 19102

Vial: 8
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



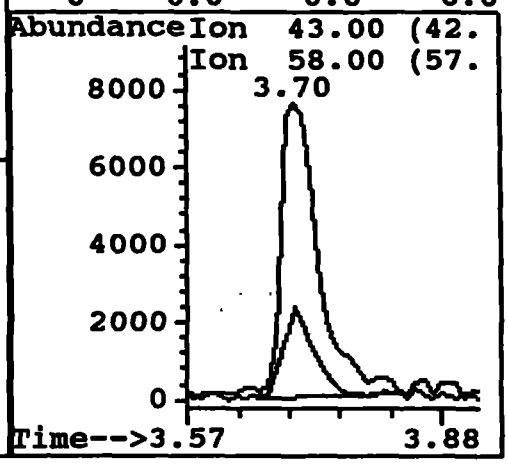
191

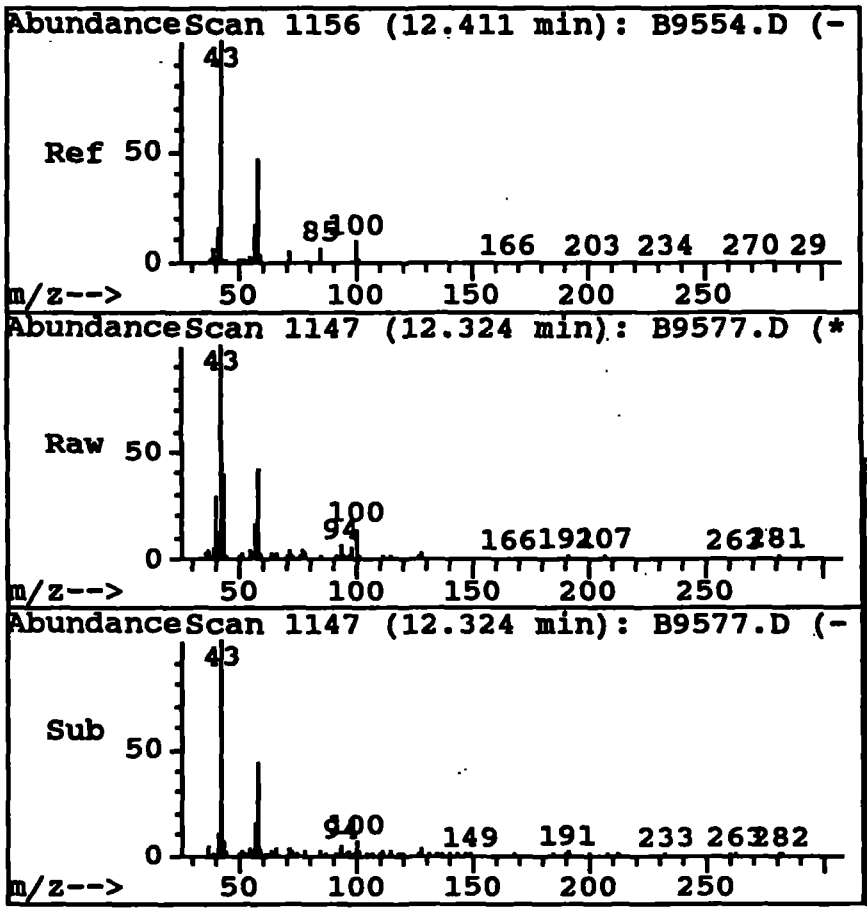


#12
Acetone
Concen: 11.63 ug/Kg
RT: 3.70 min Scan# 271
Delta R.T. -0.06 min
Lab File: B9577.D
Acq: 2 Feb 102 2:16 pm

Tgt Ion:43 Resp: 24082

Ion	Ratio	Lower	Upper
43	100		
58	31.7	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

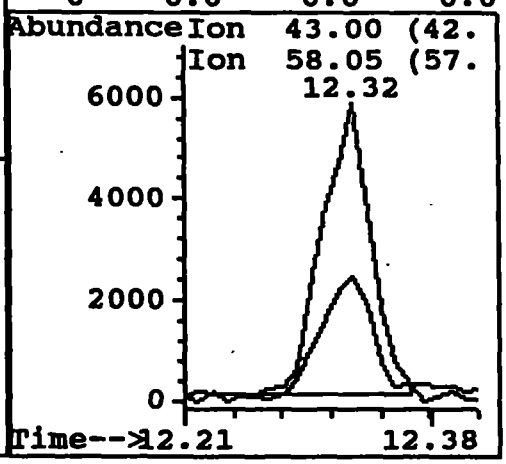




#61
2-Hexanone
Concen: 1.60 ug/Kg
RT: 12.32 min Scan# 1147
Delta R.T. -0.09 min
Lab File: B9577.D
Acq: 2 Feb 102 2:16 pm

Tgt Ion:43 Resp: 13519

Ion	Ratio	Lower	Upper
43	100		
58	41.8	41.5	62.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : SWD-S-1-2/4

Date Sampled : 01/17/02 16:15 **Order #:** 526216 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 79.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/01/02			
ANALYTICAL DILUTION: 0.75			Dry Weight
ACETONE	20	190	UG/KG
BENZENE	5.0	4.7 U	UG/KG
BROMODICHLOROMETHANE	5.0	4.7 U	UG/KG
BROMOFORM	5.0	4.7 U	UG/KG
BROMOMETHANE	5.0	4.7 U	UG/KG
2-BUTANONE (MEK)	10	9.4 U	UG/KG
CARBON DISULFIDE	10	9.4 U	UG/KG
CARBON TETRACHLORIDE	5.0	4.7 U	UG/KG
CHLOROBENZENE	5.0	4.7 U	UG/KG
CHLOROETHANE	5.0	4.7 U	UG/KG
CHLOROFORM	5.0	4.7 U	UG/KG
'LOROMETHANE	5.0	4.7 U	UG/KG
.BROMOCHLOROMETHANE	5.0	4.7 U	UG/KG
1,1-DICHLOROETHANE	5.0	4.7 U	UG/KG
1,2-DICHLOROETHANE	5.0	4.7 U	UG/KG
1,1-DICHLOROETHENE	5.0	4.7 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	4.7 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	4.7 U	UG/KG
1,2-DICHLOROPROPANE	5.0	4.7 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	4.7 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	4.7 U	UG/KG
ETHYLBENZENE	5.0	4.7 U	UG/KG
2-HEXANONE	10	9.4 U	UG/KG
METHYLENE CHLORIDE	5.0	4.7 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	9.4 U	UG/KG
STYRENE	5.0	4.7 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	4.7 U	UG/KG
TETRACHLOROETHENE	5.0	4.7 U	UG/KG
TOLUENE	5.0	4.7 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	4.7 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	4.7 U	UG/KG
TRICHLOROETHENE	5.0	4.7 U	UG/KG
VINYL CHLORIDE	5.0	4.7 U	UG/KG
O-XYLENE	5.0	4.7 U	UG/KG
M+P-XYLENE	5.0	4.7 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	104	%
TOLUENE-D8	(71 - 128 %)	105	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	101	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9564.D Vial: 18
Acq On : 1 Feb 102 7:28 pm Operator: TTRAVER
Sample : 526216 0.75 Inst : 5971 - In
Misc : TTEM R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 1 19:56 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.36	168	821789	50.00 ug/Kg	-0.06
35) 1,4 - Difluorobenzene	8.54	114	1613503	50.00 ug/Kg	-0.06
52) d5 - Chlorobenzene	13.63	117	1213474	50.00 ug/Kg	-0.06
74) d4 - Dichlorobenzene	18.06	152	490085	50.00 ug/Kg	-0.07
System Monitoring Compounds					**%Recovery**
36) surr4,Dibrflmethane	7.24	113	389334	50.34 ug/Kg	100.68%
58) surr3,Toluene-d8	11.05	98	1464180	52.73 ug/Kg	105.47%
59) surr2,bfb	15.84	95	573864	51.75 ug/Kg	103.49%
Target Compounds					**Qvalue**
12) Acetone	3.71	43	412940	201.18 ug/Kg	99
39) Iso-Butyl Alcohol	8.40	43	3784	~~5.19 ug/Kg~~	~~95~~
46) 1,4-Dioxane	9.60	88	263	~~2.66 ug/Kg#~~	57
92) Nitrobenzene	20.76	77	1173	~~1.65 ug/Kg#~~	47

CF 4/2

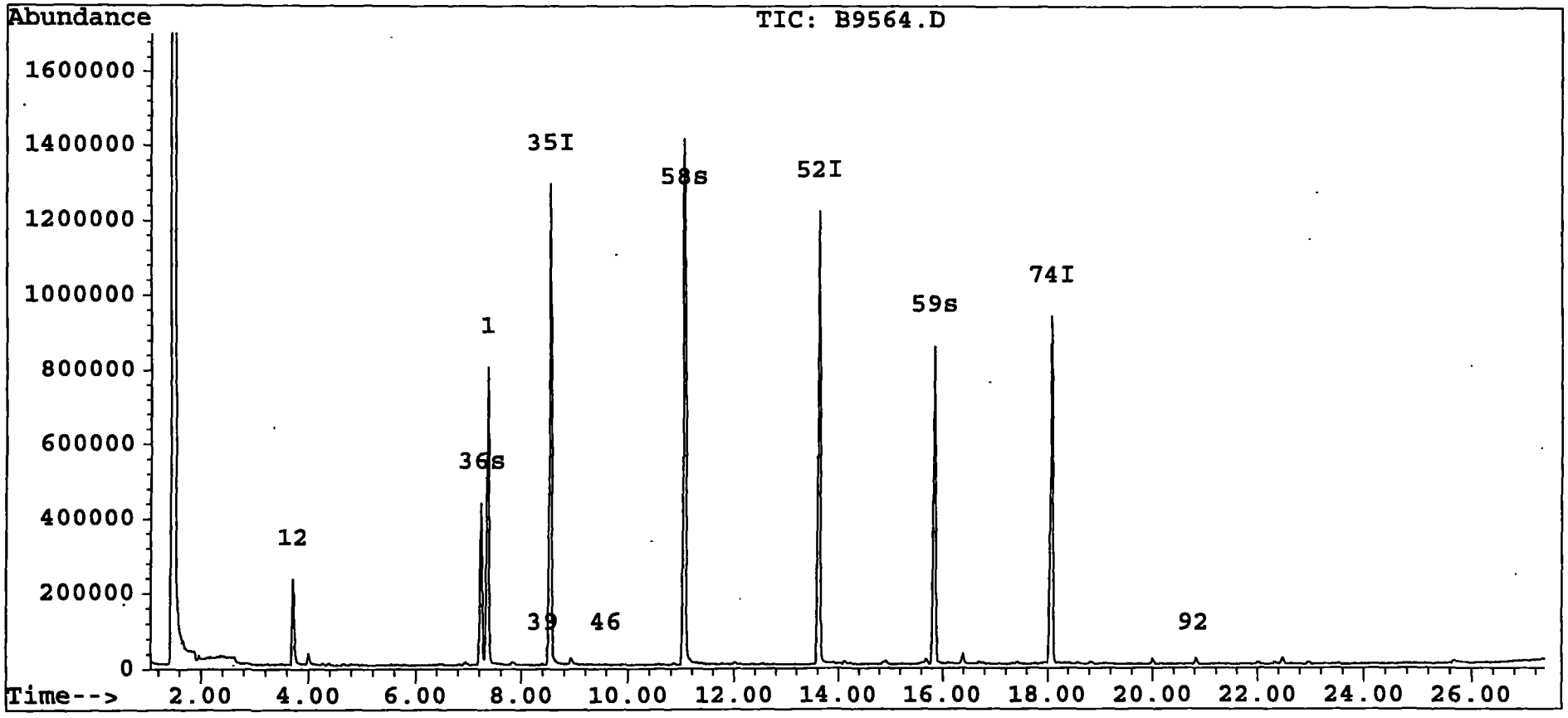
(#) = qualifier out of range (m) = manual integration

Quantitation Report

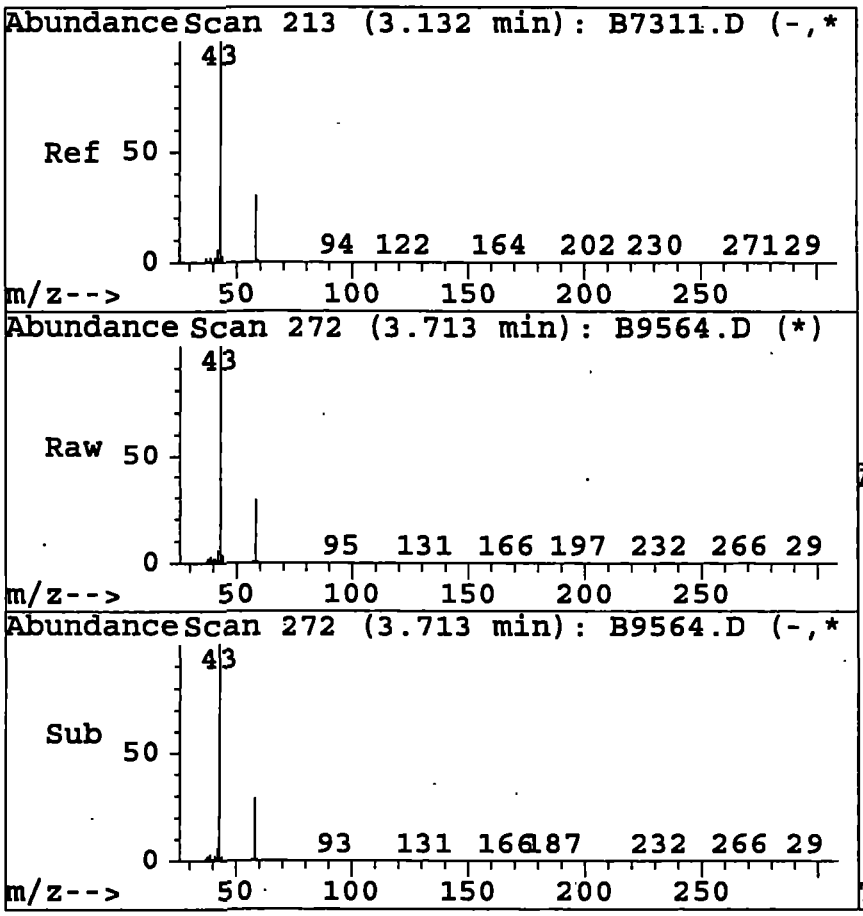
Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9564.
Acq On : 1 Feb 102 7:28 pm
Sample : 526216 0.75
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 1 19:56 19102

Vial: 18
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



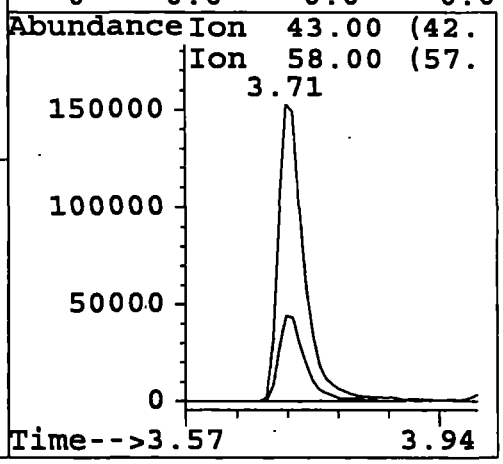
196



#12
Acetone
Concen: 201.18 ug/Kg
RT: 3.71 min Scan# 272
Delta R.T. -0.05 min
Lab File: B9564.D
Acq: 1 Feb 102 7:28 pm

Tgt Ion:43 Resp: 412940

Ion	Ratio	Lower	Upper
43	100		
58	28.7	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : SI-S-4-6/10

Date Sampled : 01/20/02 12:15 **Order #:** 526217 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 83.3

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/02/02			
ANALYTICAL DILUTION: 0.68			Dry Weight
ACETONE	20	17	UG/KG
BENZENE	5.0	4.1 U	UG/KG
BROMODICHLOROMETHANE	5.0	4.1 U	UG/KG
BROMOFORM	5.0	4.1 U	UG/KG
BROMOMETHANE	5.0	4.1 U	UG/KG
2-BUTANONE (MEK)	10	1.9 J	UG/KG
CARBON DISULFIDE	10	2.2 J	UG/KG
CARBON TETRACHLORIDE	5.0	4.1 U	UG/KG
CHLOROBENZENE	5.0	4.1 U	UG/KG
CHLOROETHANE	5.0	4.1 U	UG/KG
CHLOROFORM	5.0	4.1 U	UG/KG
CHLOROMETHANE	5.0	4.1 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	4.1 U	UG/KG
1,1-DICHLOROETHANE	5.0	4.1 U	UG/KG
1,2-DICHLOROETHANE	5.0	4.1 U	UG/KG
1,1-DICHLOROETHENE	5.0	4.1 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	4.1 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	4.1 U	UG/KG
1,2-DICHLOROPROPANE	5.0	4.1 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	4.1 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	4.1 U	UG/KG
ETHYLBENZENE	5.0	4.1 U	UG/KG
2-HEXANONE	10	8.2 U	UG/KG
METHYLENE CHLORIDE	5.0	4.1 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	3.6 J	UG/KG
STYRENE	5.0	4.1 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	4.1 U	UG/KG
TETRACHLOROETHENE	5.0	4.1 U	UG/KG
TOLUENE	5.0	4.1 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	4.1 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	4.1 U	UG/KG
TRICHLOROETHENE	5.0	4.1 U	UG/KG
VINYL CHLORIDE	5.0	4.1 U	UG/KG
O-XYLENE	5.0	4.1 U	UG/KG
M+P-XYLENE	5.0	4.1 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	99	%
TOLUENE-D8	(71 - 128 %)	104	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	117	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9579.D
Acq On : 2 Feb 102 3:30 pm
Sample : 526217 0.68
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 15:58 19102

Vial: 10
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.32	168	837180	50.00 ug/Kg	-0.09
35) 1,4 - Difluorobenzene	8.50	114	1602416	50.00 ug/Kg	-0.09
52) d5 - Chlorobenzene	13.58	117	1267443	50.00 ug/Kg	-0.10
74) d4 - Dichlorobenzene	18.03	152	490078	50.00 ug/Kg	-0.10
System Monitoring Compounds					**%Recovery**
36) surr4,Dibrflmethane	7.21	113	450700	58.68 ug/Kg	117.36%
58) surr3,Toluene-d8	11.01	98	1508884	52.03 ug/Kg	104.06%
59) surr2,bfb	15.80	95	571358	49.33 ug/Kg	98.65%
Target Compounds					**Qvalue**
12) Acetone	3.70	43	41952	20.06 ug/Kg	97
14) Carbon Disulfide	3.90	76	72270	2.66 ug/Kg	97 J
16) Allyl Chloride	3.90	76	72270	~~17.26 ug/Kg#~~	~~1~~
26) 2-Butanone	6.46	43	10407	2.42 ug/Kg#	85 J
46) 1,4-Dioxane	9.26	88	287	~~2.92 ug/Kg~~	~~87~~
53) 4-Methyl-2-Pentanone	10.83	43	51343	4.35 ug/Kg	97 J

P

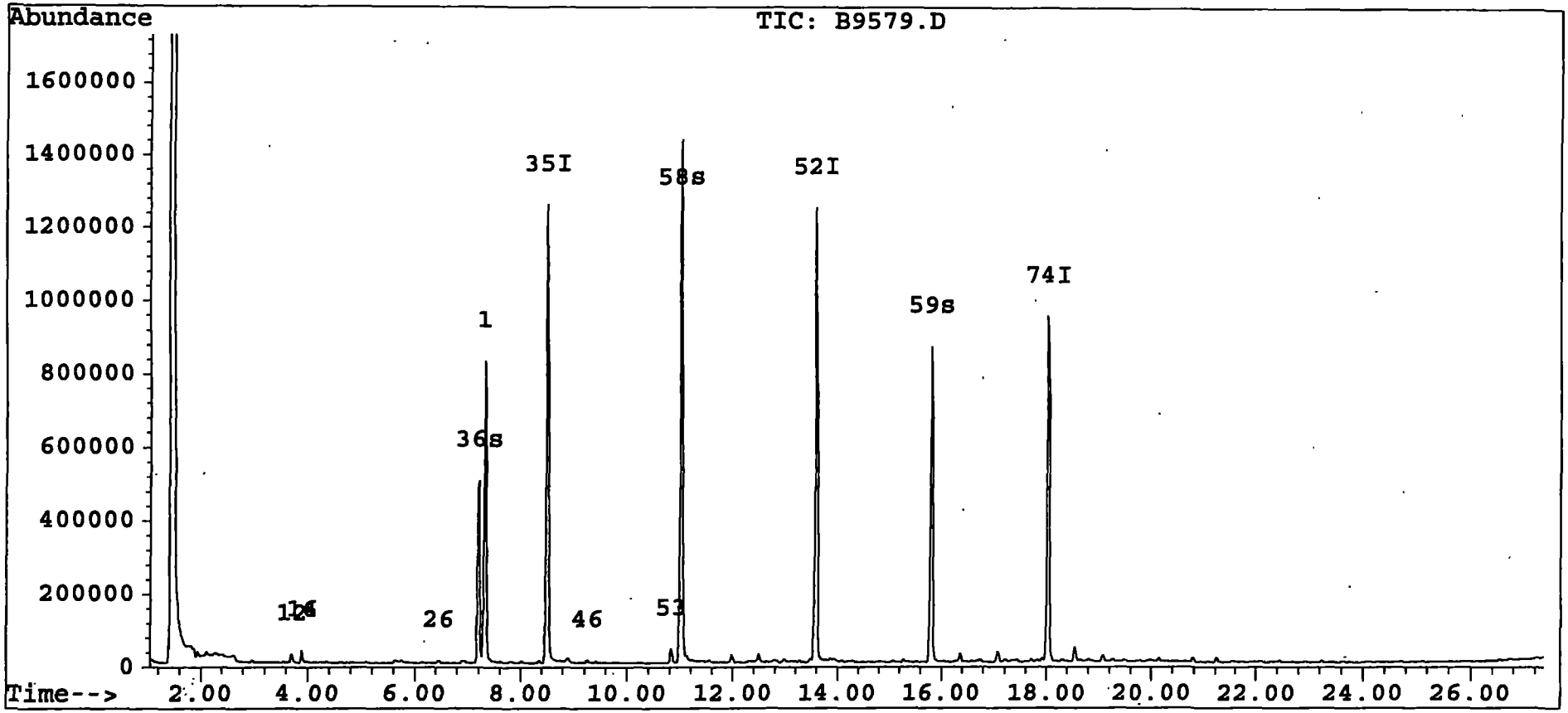
(#) = qualifier out of range (m) = manual integration

Quantitation Report

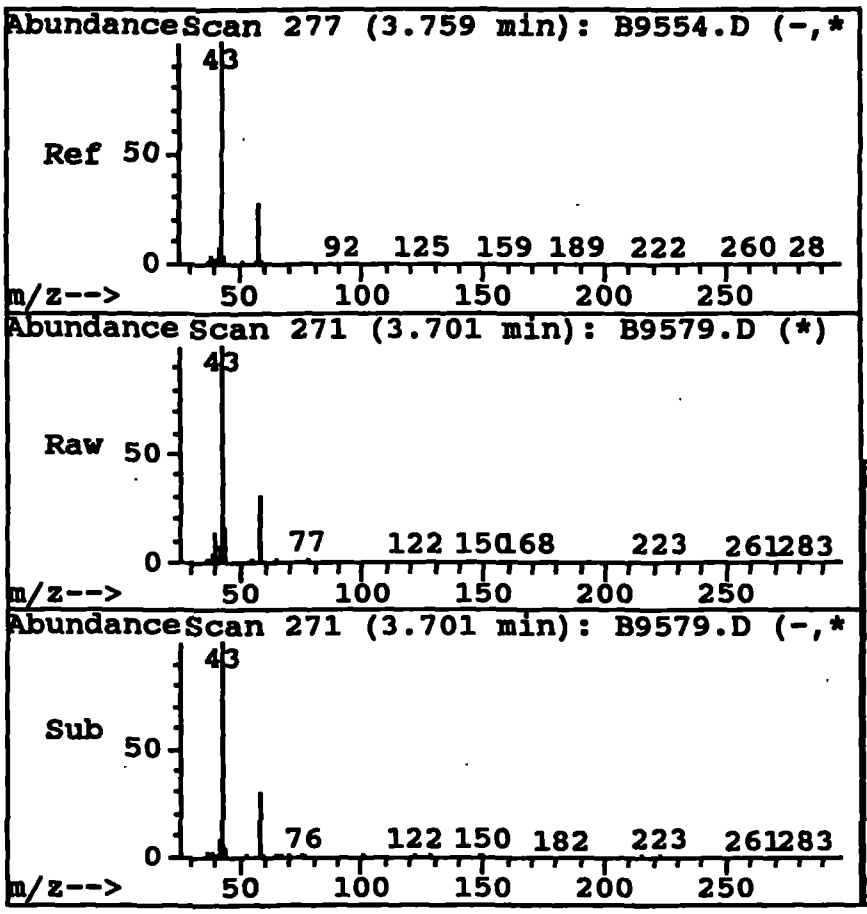
Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9579.D
Acq On : 2 Feb 102 3:30 pm
Sample : 526217 0.68
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 15:58 19102

Vial: 10
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



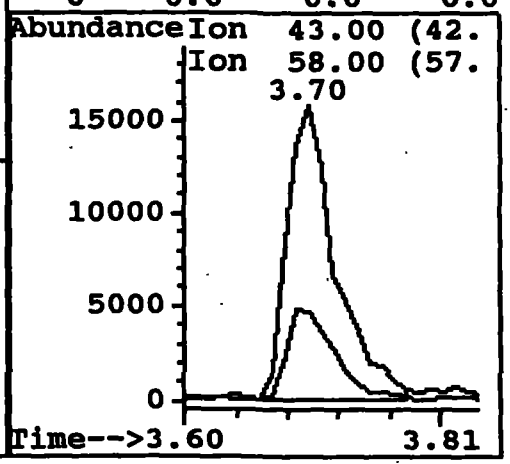
200

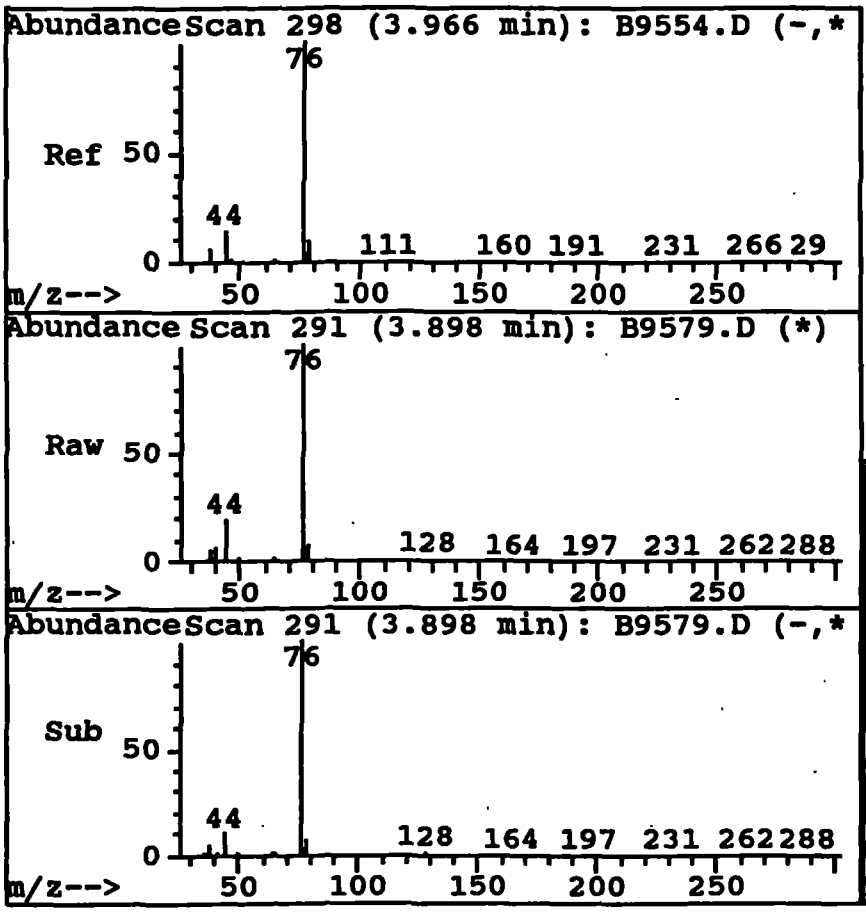


#12
Acetone
Concen: 20.06 ug/Kg
RT: 3.70 min Scan# 271
Delta R.T. -0.06 min
Lab File: B9579.D
Acq: 2 Feb 102 3:30 pm

Tgt Ion:43 Resp: 41952

Ion	Ratio	Lower	Upper
43	100		
58	30.2	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

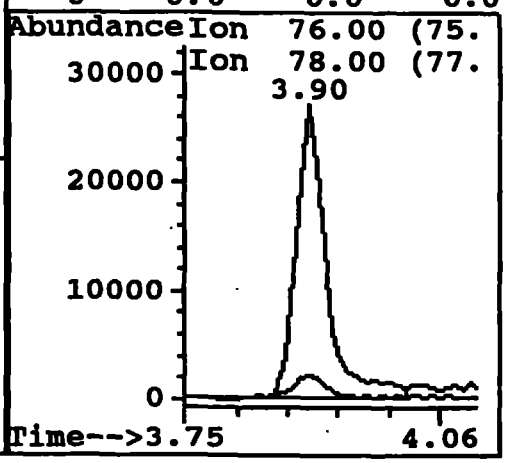


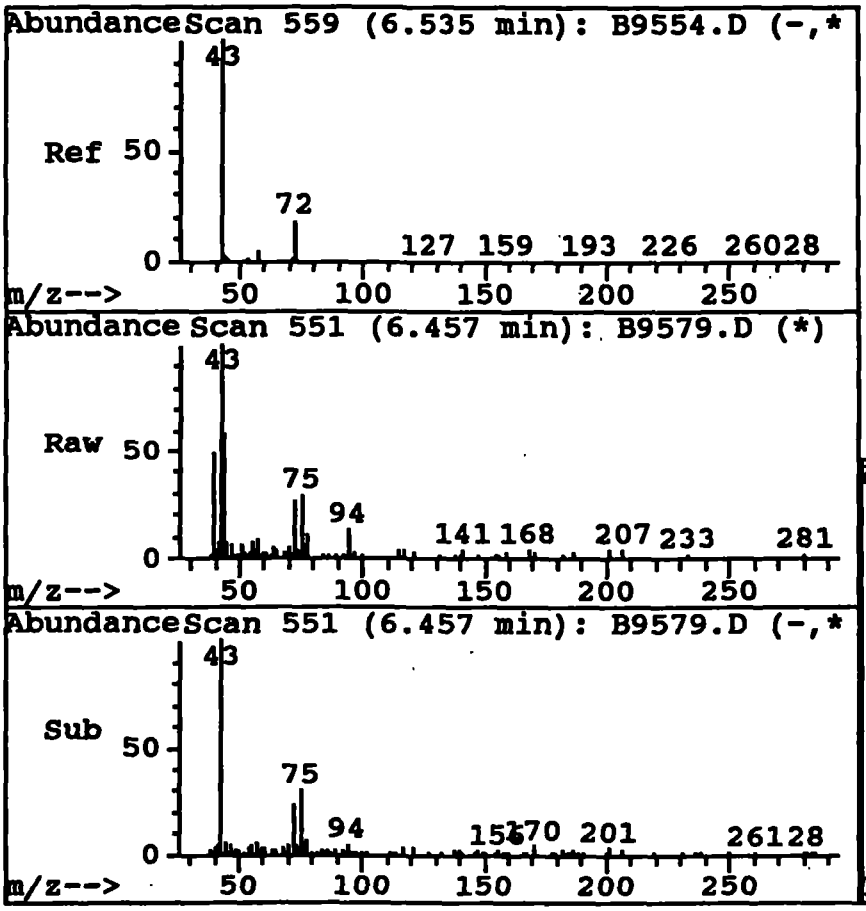


#14
Carbon Disulfide
Concen: 2.66 ug/Kg
RT: 3.90 min Scan# 291
Delta R.T. -0.07 min
Lab File: B9579.D
Acq: 2 Feb 102 3:30 pm

Tgt Ion:76 Resp: 72270

Ion	Ratio	Lower	Upper
76	100		
78	7.9	6.4	11.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

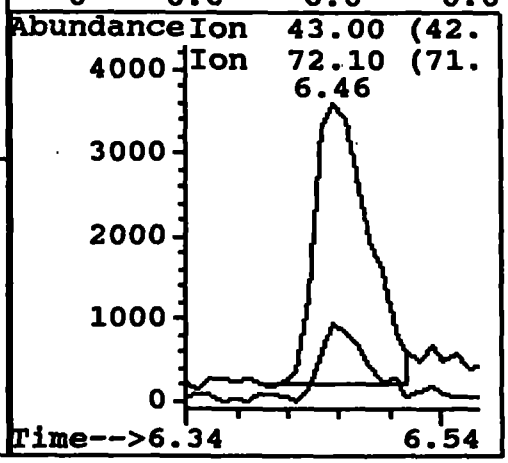


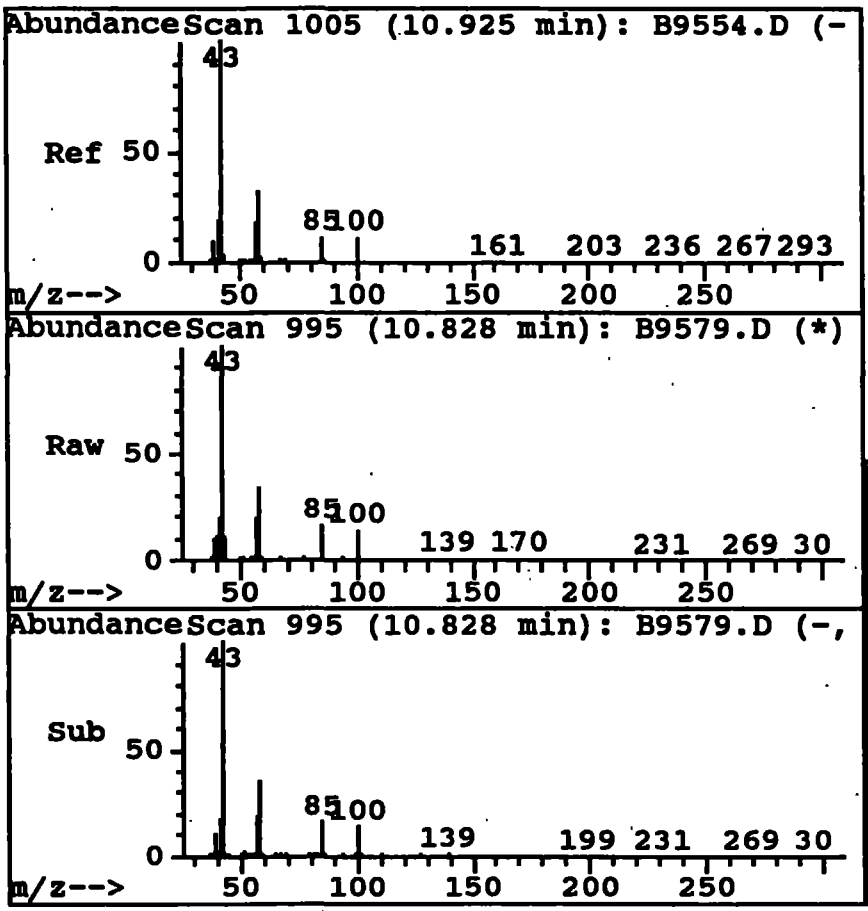


#26
2-Butanone
Concen: 2.42 ug/Kg
RT: 6.46 min Scan# 551
Delta R.T. -0.08 min
Lab File: B9579.D
Acq: 2 Feb 102 3:30 pm

Tgt Ion:43 Resp: 10407

Ion	Ratio	Lower	Upper
43	100		
72	26.2	14.5	24.1#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

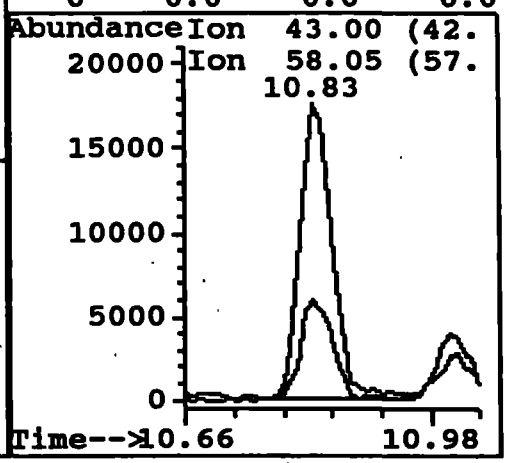




#53
4-Methyl-2-Pentanone
Concen: 4.35 ug/Kg
RT: 10.83 min Scan# 995
Delta R.T. -0.10 min
Lab File: B9579.D
Acq: 2 Feb 102 3:30 pm

Tgt Ion:43 Resp: 51343

Ion	Ratio	Lower	Upper
43	100		
58	34.1	27.0	44.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : SI-S-1-10/14

Date Sampled : 01/20/02 10:35 **Order #:** 526218 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 84.0

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/02/02			
ANALYTICAL DILUTION: 0.70			Dry Weight
ACETONE	20	10 J	UG/KG
BENZENE	5.0	4.2 U	UG/KG
BROMODICHLOROMETHANE	5.0	4.2 U	UG/KG
BROMOFORM	5.0	4.2 U	UG/KG
BROMOMETHANE	5.0	4.2 U	UG/KG
2-BUTANONE (MEK)	10	2.0 J	UG/KG
CARBON DISULFIDE	10	1.3 J	UG/KG
CARBON TETRACHLORIDE	5.0	4.2 U	UG/KG
CHLOROBENZENE	5.0	4.2 U	UG/KG
CHLOROETHANE	5.0	4.2 U	UG/KG
CHLOROFORM	5.0	4.2 U	UG/KG
CHLOROMETHANE	5.0	4.2 U	UG/KG
IBROMOCHLOROMETHANE	5.0	4.2 U	UG/KG
,1-DICHLOROETHANE	5.0	4.2 U	UG/KG
1,2-DICHLOROETHANE	5.0	4.2 U	UG/KG
1,1-DICHLOROETHENE	5.0	4.2 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	4.2 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	4.2 U	UG/KG
1,2-DICHLOROPROPANE	5.0	4.2 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	4.2 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	4.2 U	UG/KG
ETHYLBENZENE	5.0	4.2 U	UG/KG
2-HEXANONE	10	8.3 U	UG/KG
METHYLENE CHLORIDE	5.0	4.2 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	8.3 U	UG/KG
STYRENE	5.0	4.2 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	4.2 U	UG/KG
TETRACHLOROETHENE	5.0	4.2 U	UG/KG
TOLUENE	5.0	4.2 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	4.2 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	4.2 U	UG/KG
TRICHLOROETHENE	5.0	4.2 U	UG/KG
VINYL CHLORIDE	5.0	4.2 U	UG/KG
O-XYLENE	5.0	4.2 U	UG/KG
M+P-XYLENE	5.0	4.2 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
-BROMOFLUOROBENZENE	(42 - 149 %)	102	%
TOLUENE-D8	(71 - 128 %)	104	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	122	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9580.D
Acq On : 2 Feb 102 4:07 pm
Sample : 526218 0.70
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 16:35 19102

Vial: 11
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.32	168	794430	50.00 ug/Kg	-0.09
35) 1,4 - Difluorobenzene	8.50	114	1501668	50.00 ug/Kg	-0.09
52) d5 - Chlorobenzene	13.59	117	1223743	50.00 ug/Kg	-0.09
74) d4 - Dichlorobenzene	18.03	152	490137	50.00 ug/Kg	-0.10
System Monitoring Compounds					**%Recovery**
36) surr4,Dibrflmethane	7.20	113	440080	61.14 ug/Kg	122.28%
58) surr3,Toluene-d8	11.01	98	1452899	51.89 ug/Kg	103.78%
59) surr2,bfb	15.80	95	572983	51.23 ug/Kg	102.47%
Target Compounds					**Qvalue**
12) Acetone	3.71	43	24320	12.26 ug/Kg	93 J
14) Carbon Disulfide	3.90	76	42069	1.63 ug/Kg#	88 J
16) Allyl Chloride	3.90	76	39469	~~9.94 ug/Kg#~~	~~1~~
26) 2-Butanone	6.47	43	9721	2.39 ug/Kg	100 J
39) Iso-Butyl Alcohol	8.35	43	5221	~~7.70 ug/Kg~~	~~98~~

CP 2/3

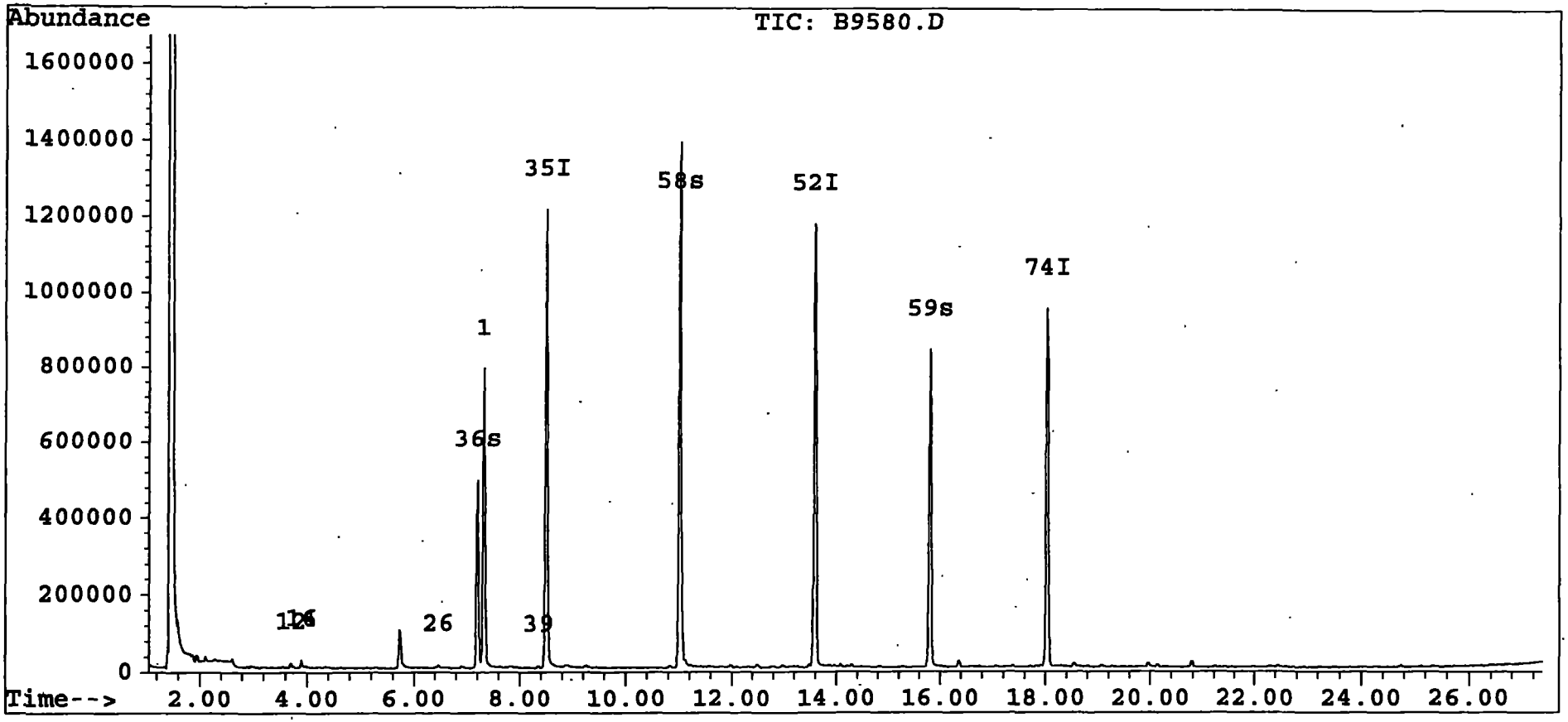
(#) = qualifier out of range (m) = manual integration

Quantitation Report

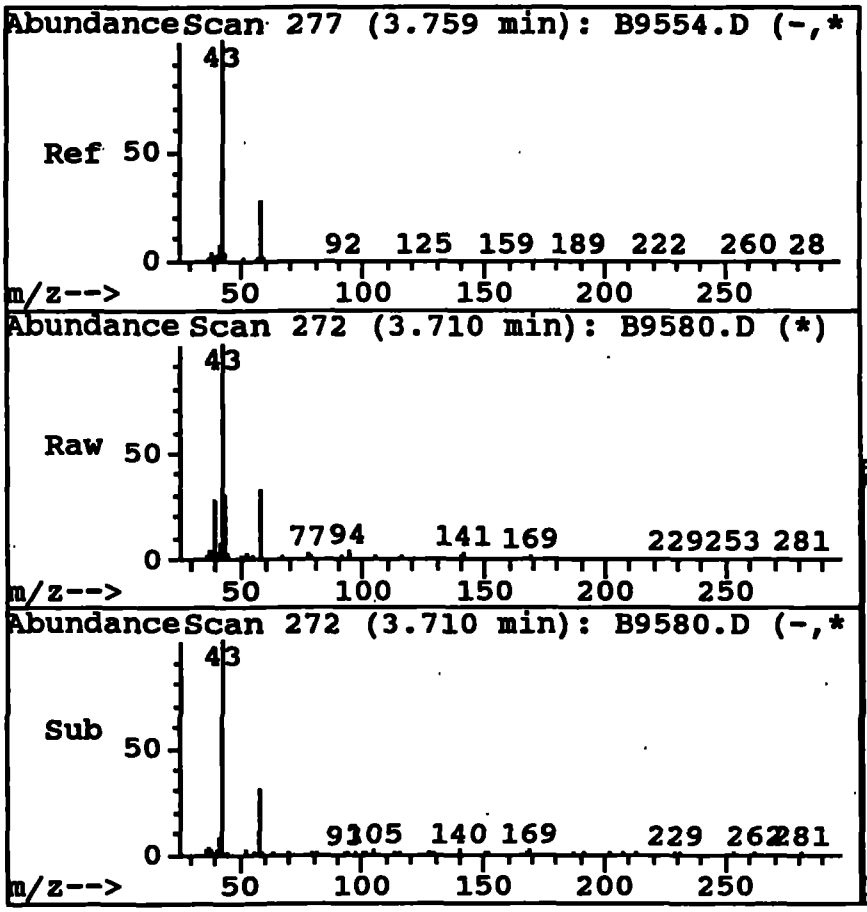
Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9580.D
Acq On : 2 Feb 102 4:07 pm
Sample : 526218 0.70
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 16:35 19102

Vial: 11
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



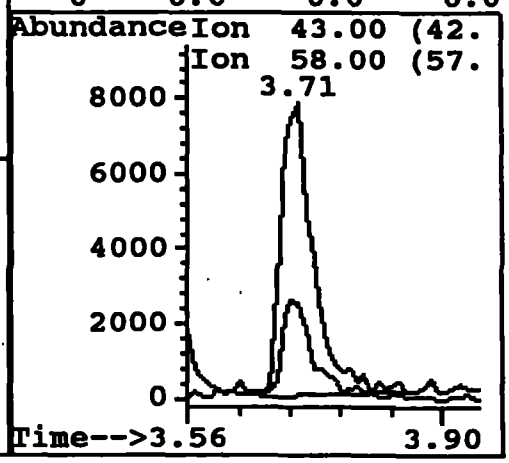
207

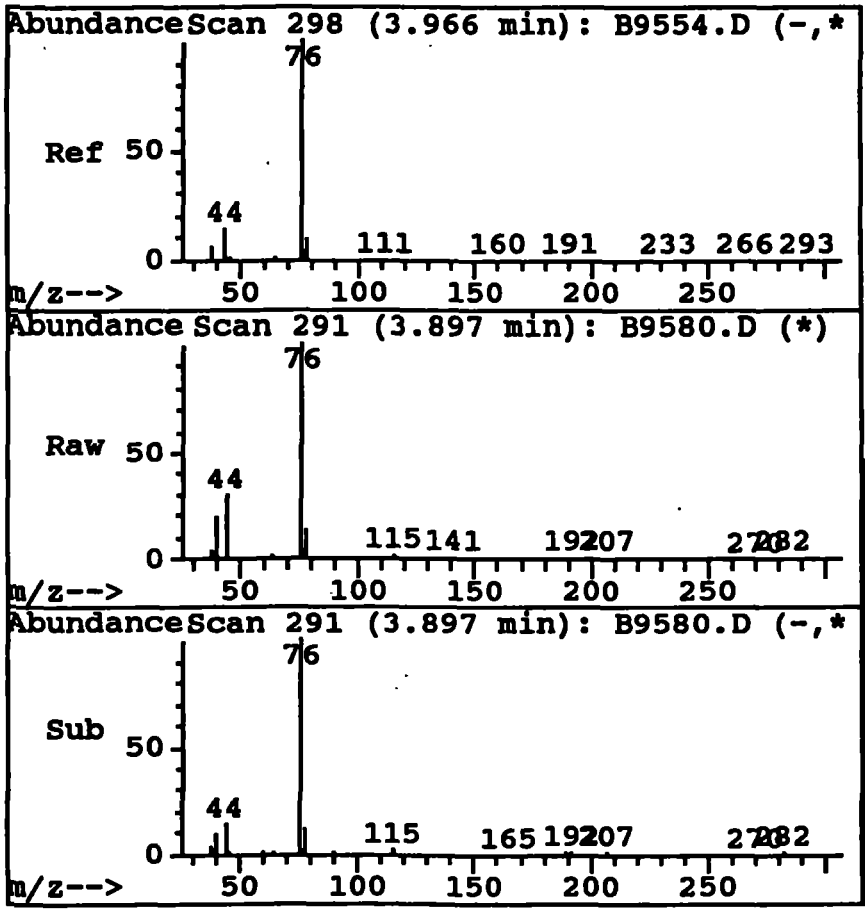


#12
Acetone
Concen: 12.26 ug/Kg
RT: 3.71 min Scan# 272
Delta R.T. -0.05 min
Lab File: B9580.D
Acq: 2 Feb 102 4:07 pm

Tgt Ion:43 Resp: 24320

Ion	Ratio	Lower	Upper
43	100		
58	32.2	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

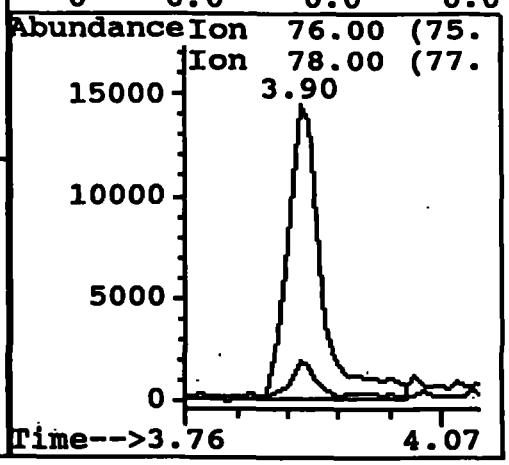


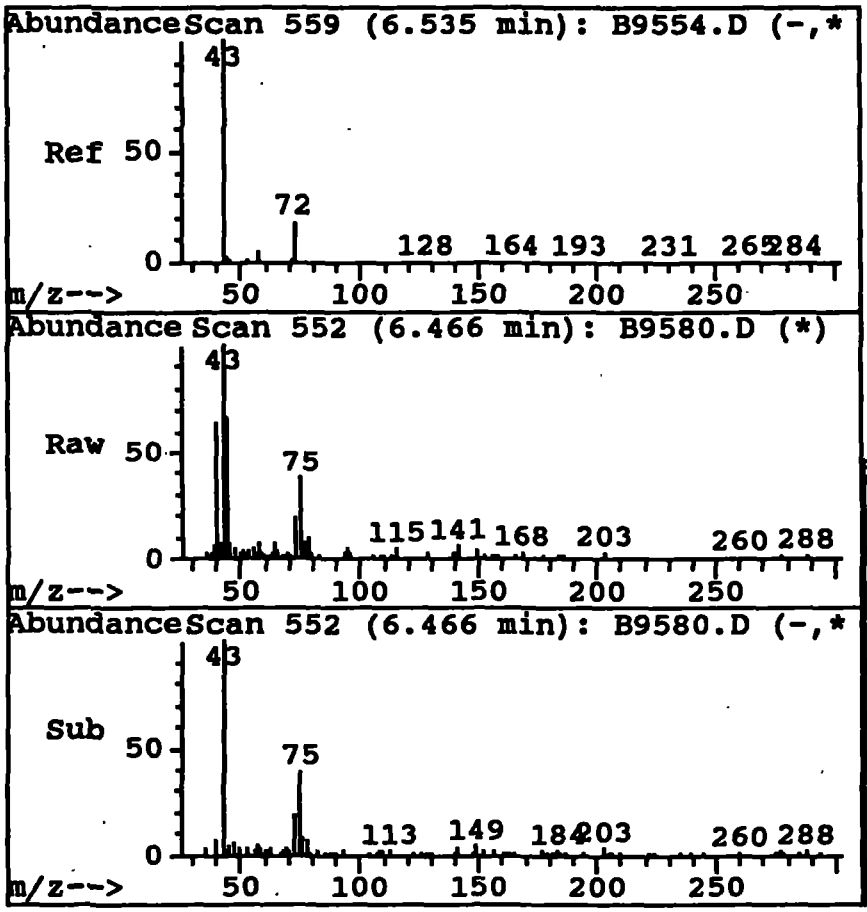


#14
Carbon Disulfide
Concen: 1.63 ug/Kg
RT: 3.90 min Scan# 291
Delta R.T. -0.07 min
Lab File: B9580.D
Acq: 2 Feb 102 4:07 pm

Tgt Ion:76 Resp: 42069

Ion	Ratio	Lower	Upper
76	100		
78	13.5	6.4	11.9#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

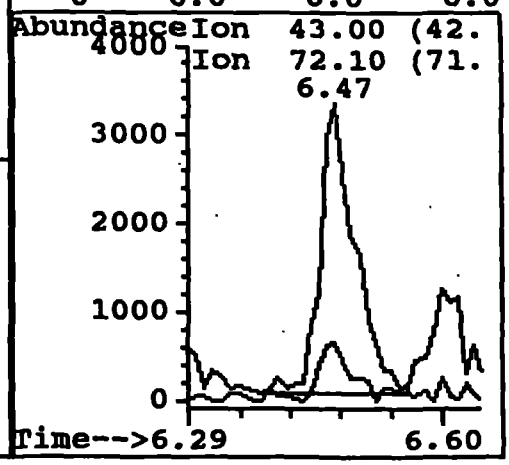




#26
2-Butanone
Concen: 2.39 ug/Kg
RT: 6.47 min Scan# 552
Delta R.T. -0.07 min
Lab File: B9580.D
Acq: 2 Feb 102 4:07 pm

Tgt Ion:43 Resp: 9721

Ion	Ratio	Lower	Upper
43	100		
72	19.1	14.5	24.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : ST-SLU

Date Sampled : 01/20/02 14:30 **Order #:** 526219 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 10.5

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/02/02			
ANALYTICAL DILUTION: 1.28			Dry Weight
ACETONE	20	18000 E	UG/KG
BENZENE	5.0	61 U	UG/KG
BROMODICHLOROMETHANE	5.0	61 U	UG/KG
BROMOFORM	5.0	61 U	UG/KG
BROMOMETHANE	5.0	61 U	UG/KG
2-BUTANONE (MEK)	10	9500 E	UG/KG
CARBON DISULFIDE	10	550	UG/KG
CARBON TETRACHLORIDE	5.0	61 U	UG/KG
CHLOROBENZENE	5.0	61 U	UG/KG
CHLOROETHANE	5.0	61 U	UG/KG
CHLOROFORM	5.0	61 U	UG/KG
CHLOROMETHANE	5.0	61 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	61 U	UG/KG
1,1-DICHLOROETHANE	5.0	61 U	UG/KG
1,2-DICHLOROETHANE	5.0	61 U	UG/KG
1,1-DICHLOROETHENE	5.0	61 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	61 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	61 U	UG/KG
1,2-DICHLOROPROPANE	5.0	61 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	61 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	61 U	UG/KG
ETHYLBENZENE	5.0	1400	UG/KG
2-HEXANONE	10	120 U	UG/KG
METHYLENE CHLORIDE	5.0	61 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	120 U	UG/KG
STYRENE	5.0	61 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	61 U	UG/KG
TETRACHLOROETHENE	5.0	61 U	UG/KG
TOLUENE	5.0	59 J	UG/KG
1,1,1-TRICHLOROETHANE	5.0	61 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	61 U	UG/KG
TRICHLOROETHENE	5.0	61 U	UG/KG
VINYL CHLORIDE	5.0	61 U	UG/KG
O-XYLENE	5.0	750	UG/KG
M+P-XYLENE	5.0	1100	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	276 *	%
TOLUENE-D8	(71 - 128 %)	145 *	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	150 *	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9591.D Vial: 22
Acq On : 2 Feb 102 10:51 pm Operator: TTRAVER
Sample : 526219 1.28 Inst : 5971 - In
Misc : TTEM R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 2 23:19 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.33	168	459468	50.00 ug/Kg	-0.08
35) 1,4 - Difluorobenzene	8.51	114	918058	50.00 ug/Kg	-0.08
52) d5 - Chlorobenzene	13.59	117	520530	50.00 ug/Kg	-0.09
74) d4 - Dichlorobenzene	18.05	152	60677	50.00 ug/Kg	-0.08
System Monitoring Compounds					%Recovery
36) surr4,Dibrflmethane	7.20	113	329814	74.95 ug/Kg	149.90%
58) surr3,Toluene-d8	11.01	98	865779	72.69 ug/Kg	145.39%
59) surr2,bfb	15.78	95	657183	138.15 ug/Kg	276.30%
Target Compounds					Qvalue
12) Acetone	3.69	43	1682358	1465.97 ug/Kg	98 E
14) Carbon Disulfide	3.91	76	674608	45.26 ug/Kg	99
15) Acetonitrile	3.69	41	30583	~~279.22 ug/Kg~~	~~98~~
16) Allyl Chloride	3.91	76	666672	~~290.19 ug/Kg#~~	~~1~~
26) 2-Butanone	6.46	43	1871313	794.49 ug/Kg	98 E
33) Tetrahydrofuran	6.89	42	135919	94.77 ug/Kg	98 NT
39) Iso-Butyl Alcohol	8.36	43	44313	~~106.86 ug/Kg~~	~~92~~
42) N-Heptane	8.03	43	2739966	~~330.86 ug/Kg#~~	~~1~~
49) 2-Nitropropane	10.20	43	685949	~~453.95 ug/Kg#~~	~~90~~
53) 4-Methyl-2-Pentanone	10.95	43	107877	~~22.25 ug/Kg#~~	~~59~~
54) Toluene	11.13	91	76365	4.88 ug/Kg	99 J
56) Ethyl Methacrylate	11.36	69	19838	~~4.30 ug/Kg~~	~~91~~
57) 1,1,2-Trichloroethane	11.90	83	91901	~~28.50 ug/Kg#~~	~~10~~
61) 2-Hexanone	12.26	43	2281739	~~656.89 ug/Kg#~~	~~30~~
67) Ethylbenzene	13.88	91	1975771	118.08 ug/Kg	97
68) (m+p)Xylene	14.10	106	603503	98.26 ug/Kg	93
69) o-Xylene	14.83	106	378686	61.93 ug/Kg	100
70) Styrene	14.85	104	32959	~~3.13 ug/Kg#~~	~~1~~
72) Isopropylbenzene	15.55	105	1195132	75.27 ug/Kg	99
75) 1,1,2,2-Tetrachloroethane	16.15	83	2465015	~~1782.20 ug/Kg#~~	~~38~~
76) Trans-1,4-Dichloro-2-buten	16.16	53	815249	~~2136.44 ug/Kg#~~	~~1~~
77) 1,2,3-Trichloropropane	16.24	110	146492	~~377.36 ug/Kg~~	~~89~~
78) n-Propylbenzene	16.34	91	3738413	703.16 ug/Kg	97 NT
79) Bromobenzene	16.24	156	17038	~~15.40 ug/Kg#~~	~~1~~
80) 1,3,5-Trimethylbenzene	16.52	105	7587446	2312.55 ug/Kg	90
81) 2-Chlorotoluene	16.52	91	937848	~~295.58 ug/Kg#~~	~~46~~
82) 4-Chlorotoluene	16.69	91	408280	~~116.42 ug/Kg#~~	~~54~~
83) tert-Butylbenzene	17.30	119	203399	~~68.13 ug/Kg#~~	~~75~~
84) 1,2,4-Trimethylbenzene	17.40	105	8673531	2666.30 ug/Kg	95 NT
85) sec-Butylbenzene	17.74	105	2702622	568.58 ug/Kg	98 NT
86) p-Isopropyltoluene	17.30	119	203399	~~68.13 ug/Kg#~~	~~81~~
89) n-Butylbenzene	18.83	91	2978954	857.27 ug/Kg#	84 NT
92) Nitrobenzene	20.70	77	24885	~~282.29 ug/Kg~~	~~98~~

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9591.D Vial: 22
Acq On : 2 Feb 102 10:51 pm Operator: TTRAVER
Sample : 526219 1.28 Inst : 5971 - In
Misc : TTEM R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 2 23:19 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalen	22.45	128	117729	57.57 ug/Kg	99 NT
96) 1,2,3-Tclbenzene	22.87	180	2880	~~3.20 ug/Kg~~	~~100~~

CP 2/3

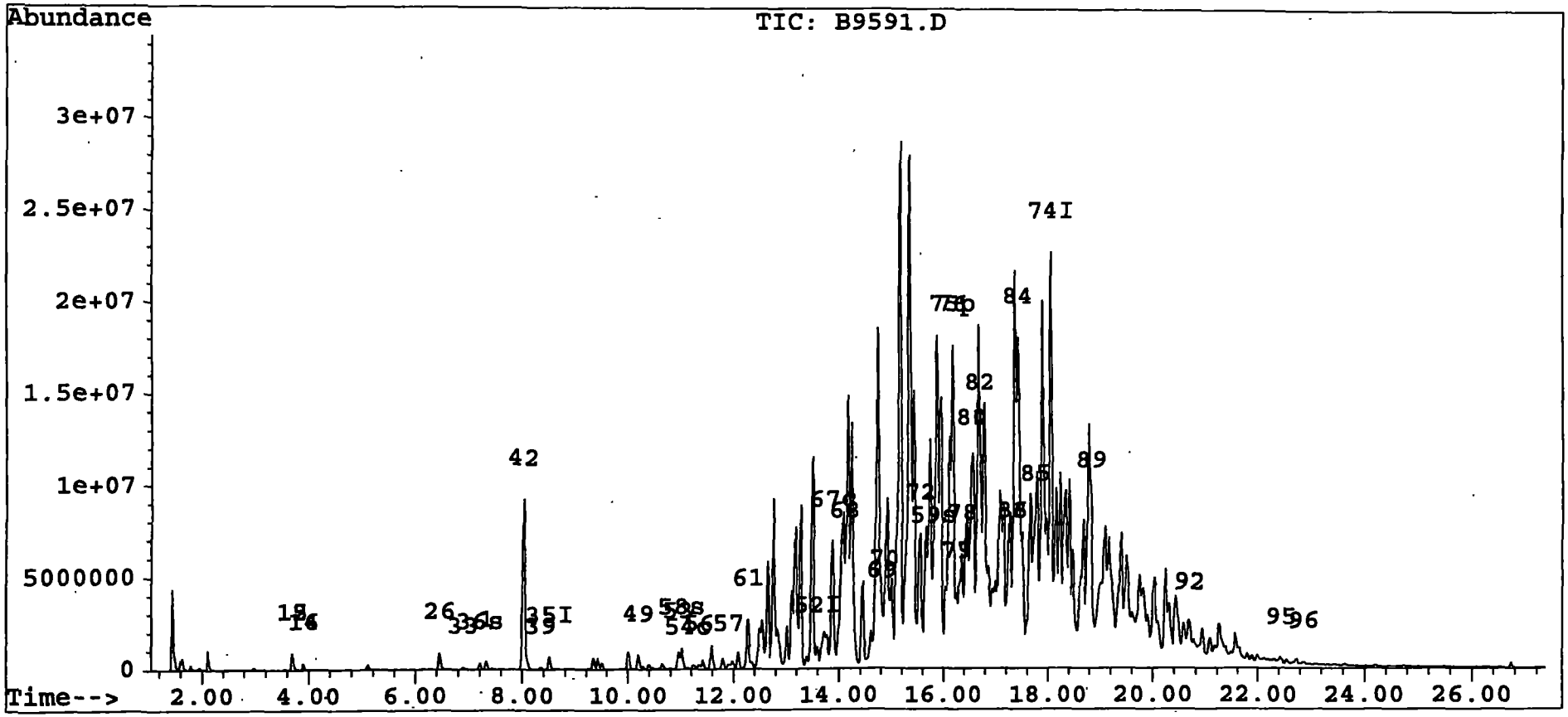
(#) = qualifier out of range (m) = manual integration

Quantitation Report

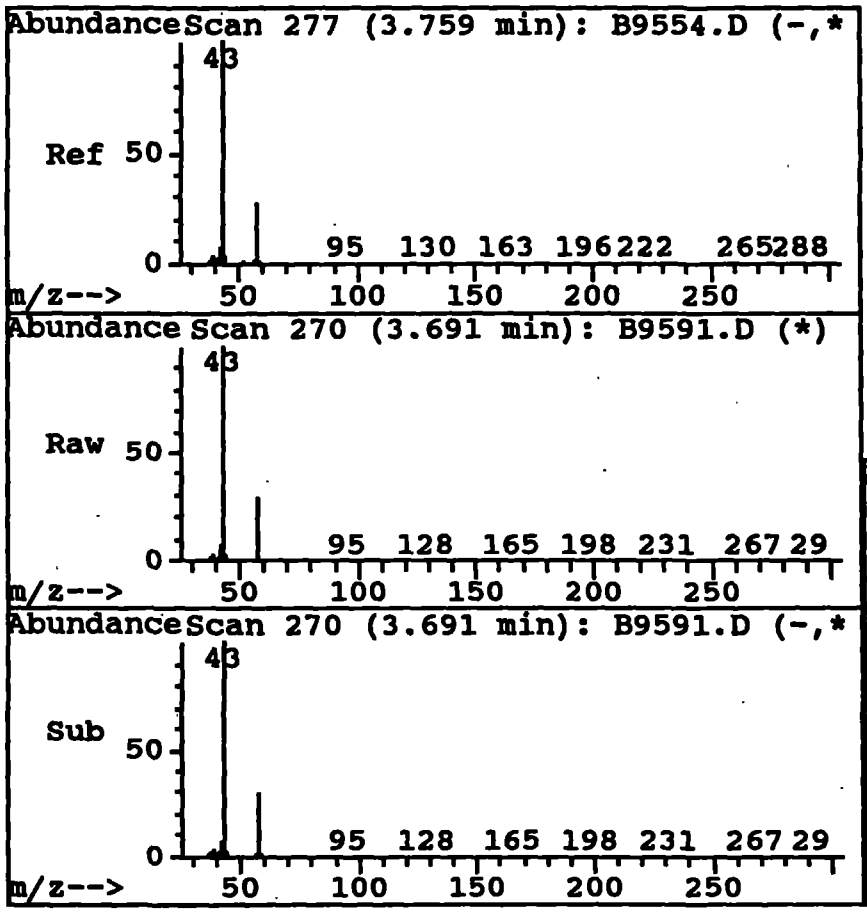
Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9591.D
Acq On : 2 Feb 102 10:51 pm
Sample : 526219 1.28
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 23:19 19102

Vial: 22
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



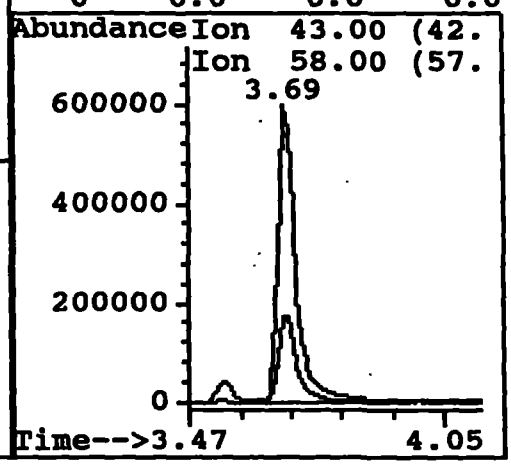
214

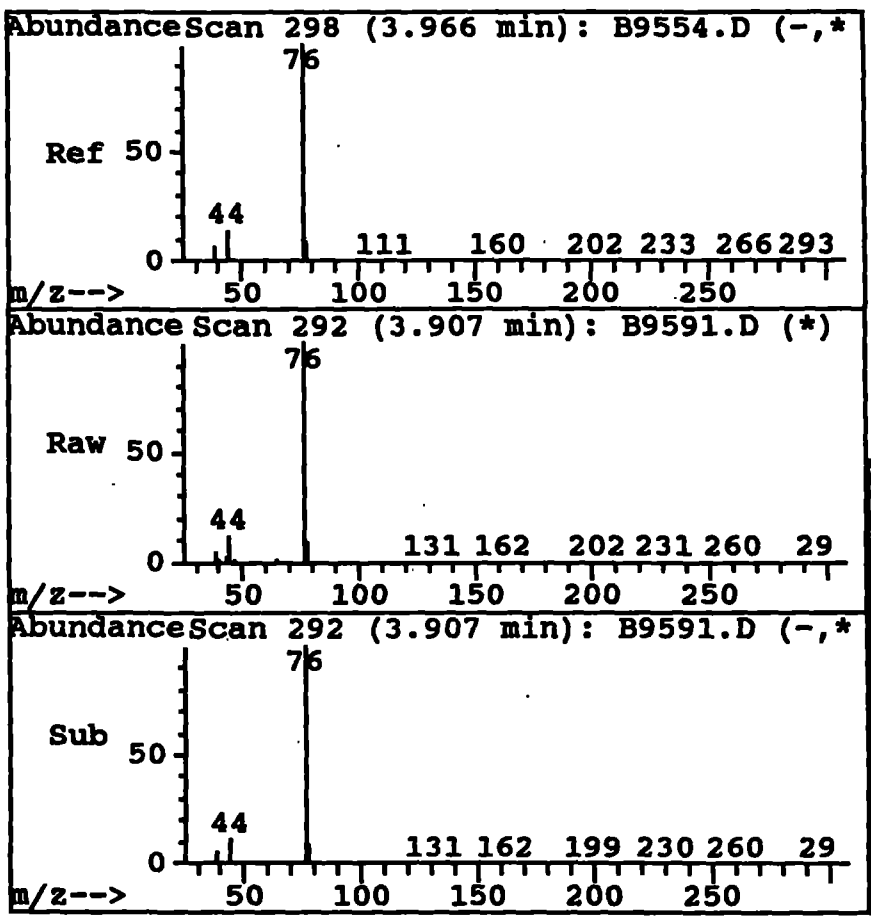


#12
Acetone
Concen: 1465.97 ug/Kg
RT: 3.69 min Scan# 270
Delta R.T. -0.07 min
Lab File: B9591.D
Acq: 2 Feb 102 10:51 pm

Tgt Ion:43 Resp: 1682358

Ion	Ratio	Lower	Upper
43	100		
58	29.4	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

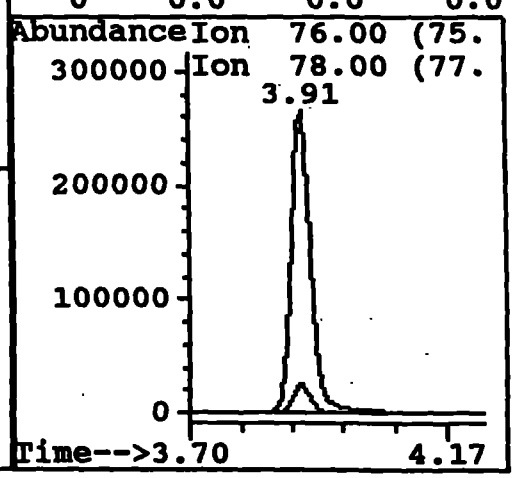


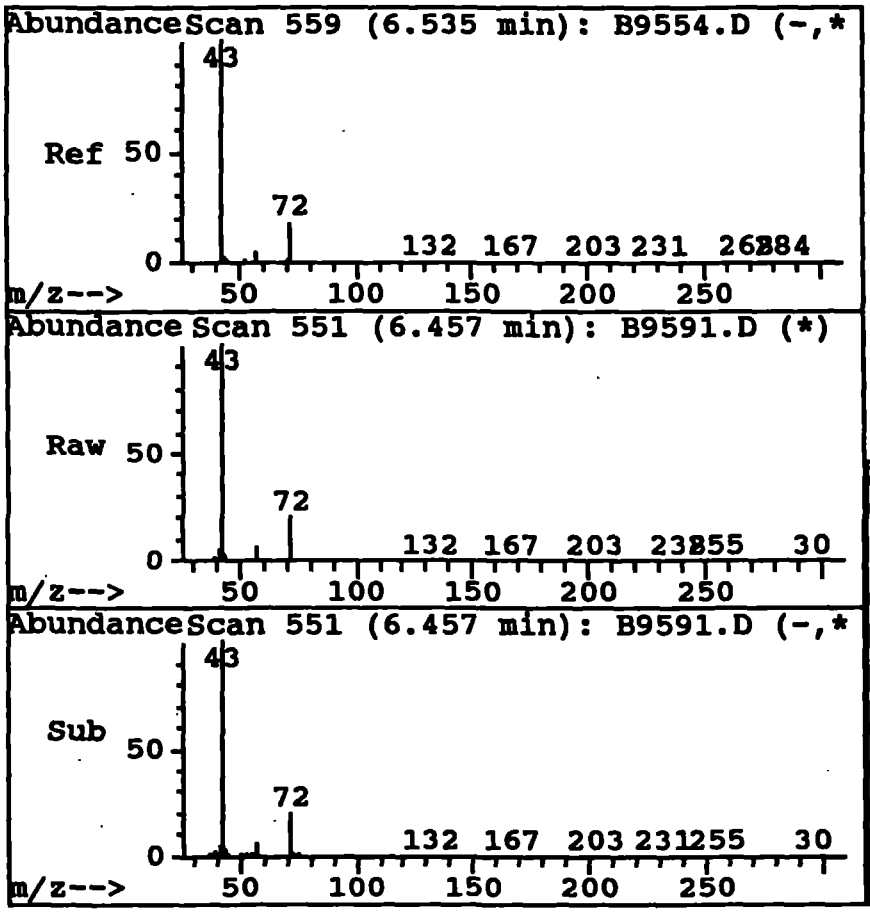


#14
Carbon Disulfide
Concen: 45.26 ug/Kg
RT: 3.91 min Scan# 292
Delta R.T. -0.06 min
Lab File: B9591.D
Acq: 2 Feb 102 10:51 pm

Tgt Ion:76 Resp: 674608

Ion	Ratio	Lower	Upper
76	100		
78	9.5	6.4	11.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

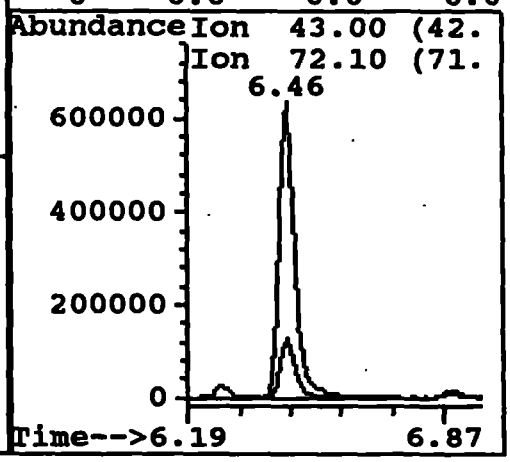


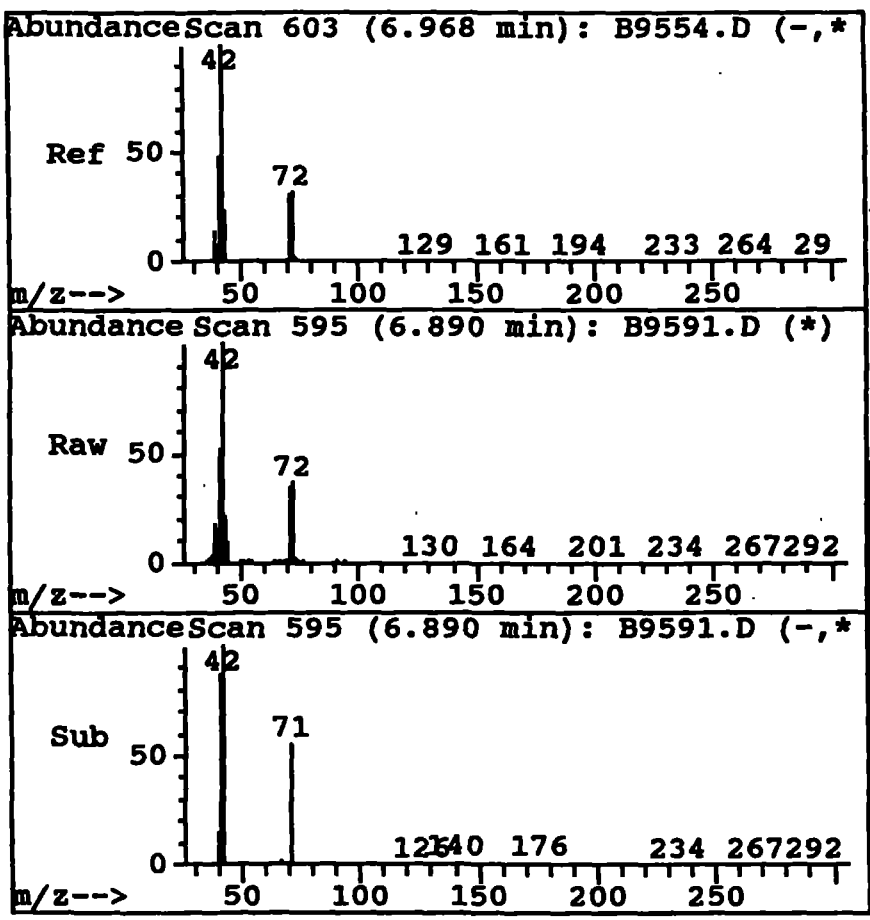


#26
2-Butanone
Concen: 794.49 ug/Kg
RT: 6.46 min Scan# 551
Delta R.T. -0.08 min
Lab File: B9591.D
Acq: 2 Feb 102 10:51 pm

Tgt Ion:43 Resp: 1871313

Ion	Ratio	Lower	Upper
43	100		
72	20.2	14.5	24.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

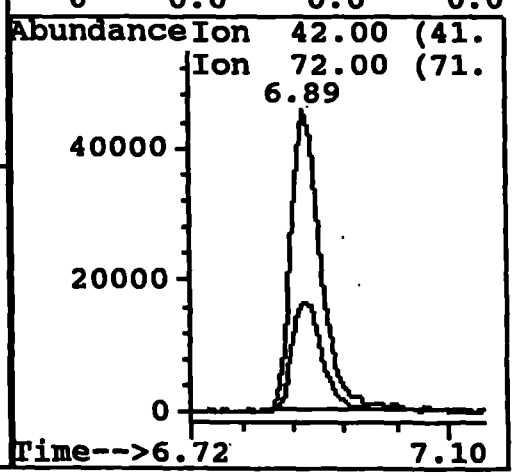


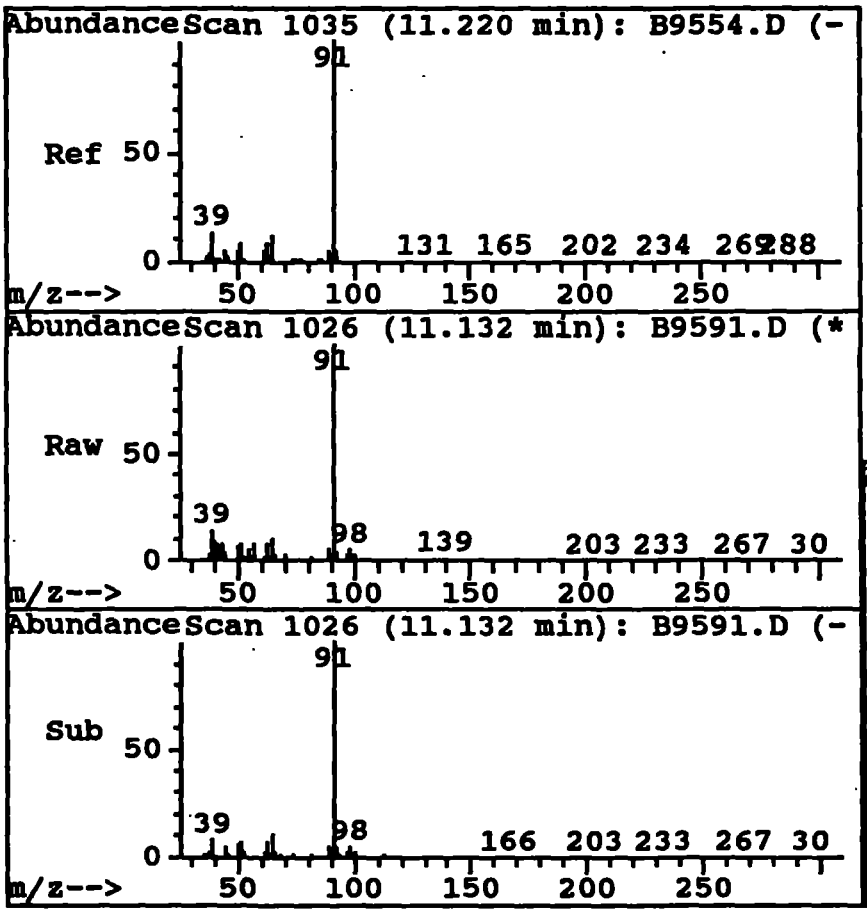


#33
Tetrahydrofuran
Concen: 94.77 ug/Kg
RT: 6.89 min Scan# 595
Delta R.T. -0.08 min
Lab File: B9591.D
Acq: 2 Feb 102 10:51 pm

Tgt Ion:42 Resp: 135919

Ion	Ratio	Lower	Upper
42	100		
72	37.6	29.2	48.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

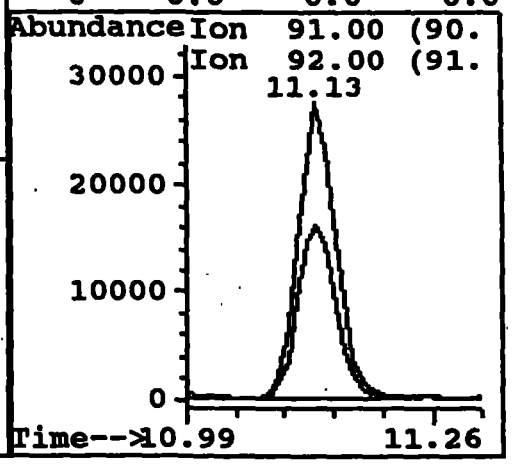


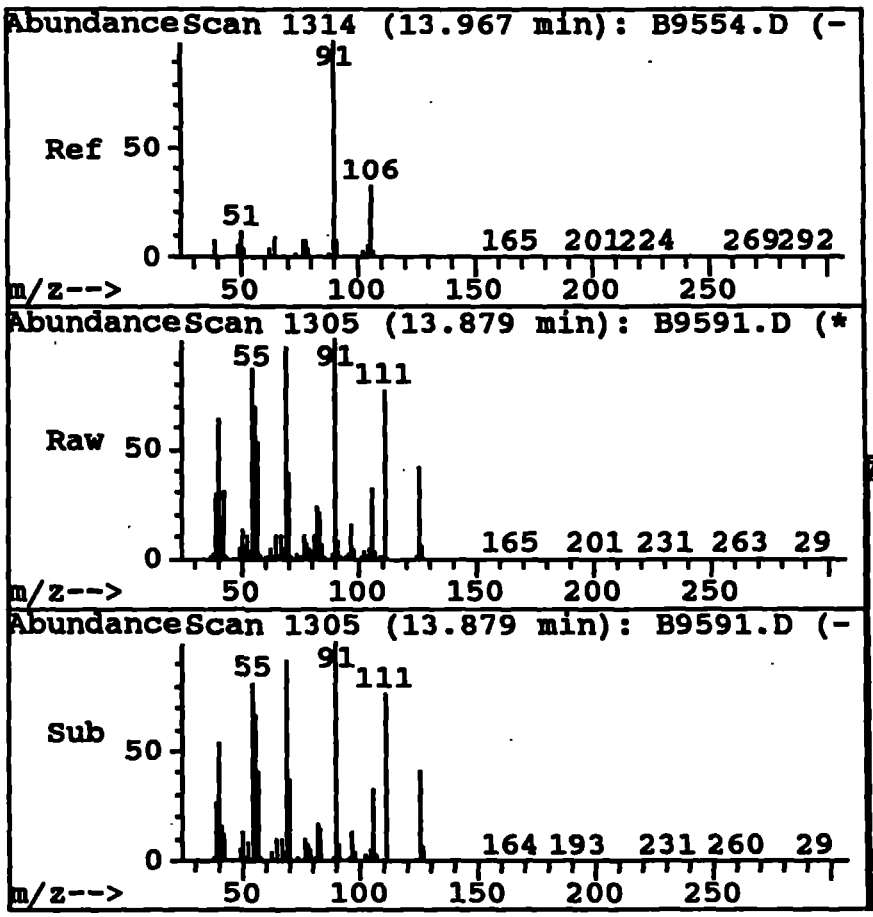


#54
Toluene
Concen: 4.88 ug/Kg
RT: 11.13 min Scan# 1026
Delta R.T. -0.09 min
Lab File: B9591.D
Acq: 2 Feb 102 10:51 pm

Tgt Ion:91 Resp: 76365

Ion	Ratio	Lower	Upper
91	100		
92	59.0	47.9	71.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

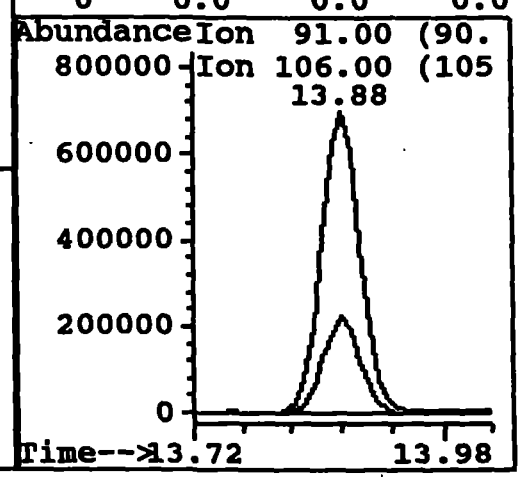


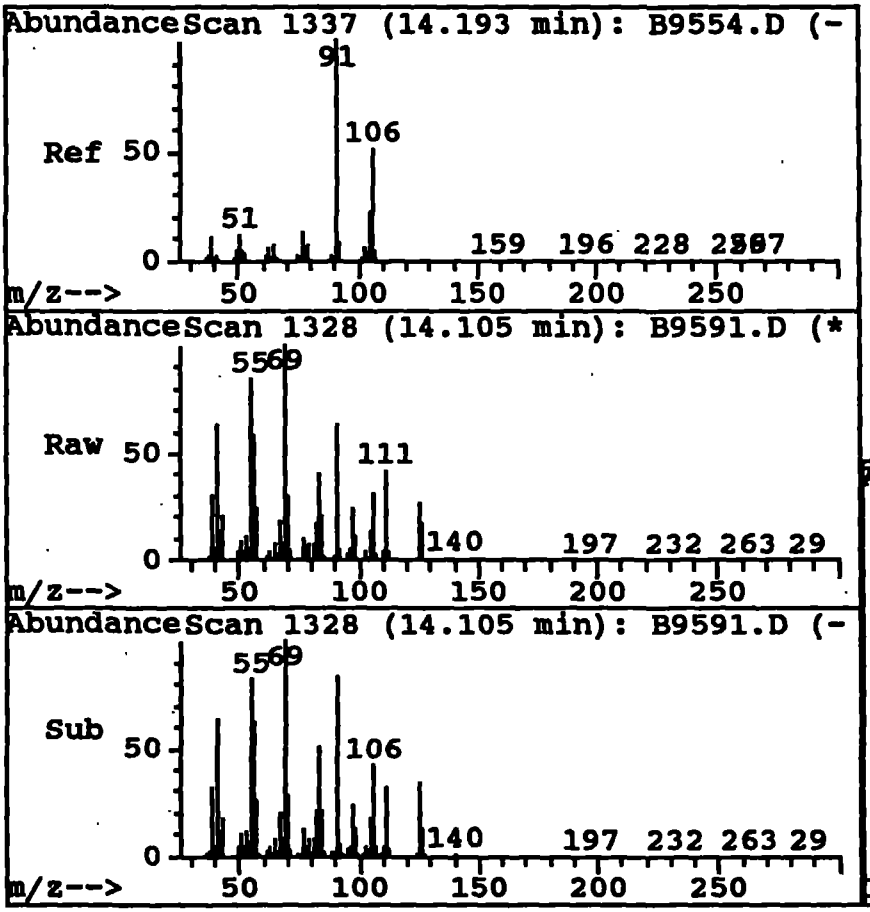


#67
Ethylbenzene
Concen: 118.08 ug/Kg
RT: 13.88 min Scan# 1305
Delta R.T. -0.09 min
Lab File: B9591.D
Acq: 2 Feb 102 10:51 pm

Tgt Ion:91 Resp: 1975771

Ion	Ratio	Lower	Upper
91	100		
106	31.8	24.2	36.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

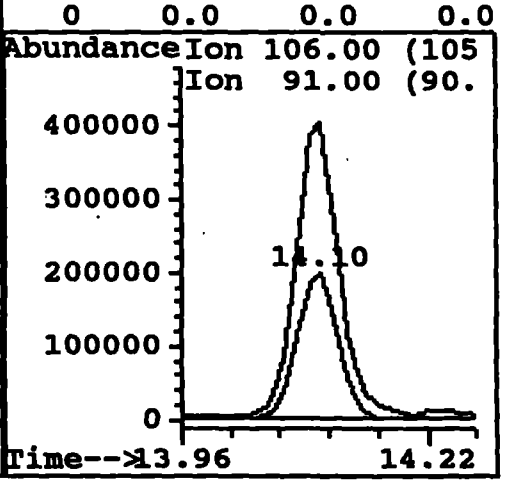


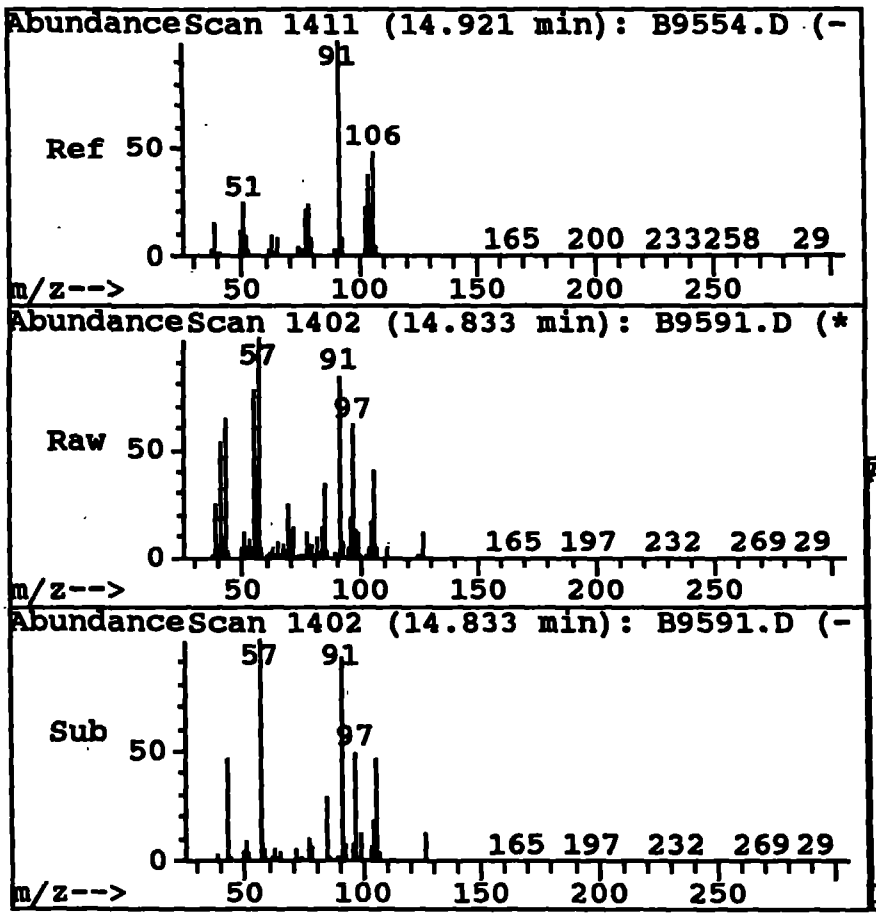


#68
(m+p)Xylene
Concen: 98.26 ug/Kg
RT: 14.10 min Scan# 1328
Delta R.T. -0.09 min
Lab File: B9591.D
Acq: 2 Feb 102 10:51 pm

Tgt Ion:106 Resp: 603503

Ion	Ratio	Lower	Upper
106	100		
91	202.2	154.0	230.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

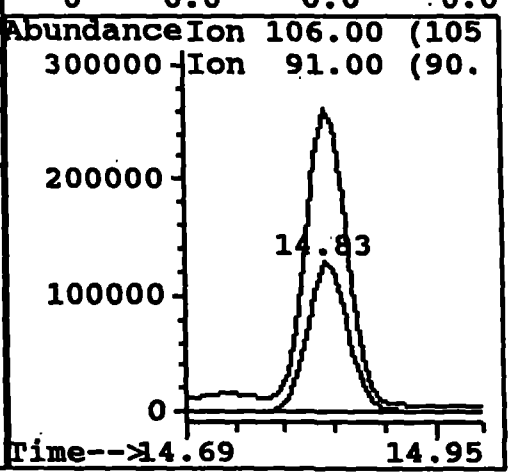


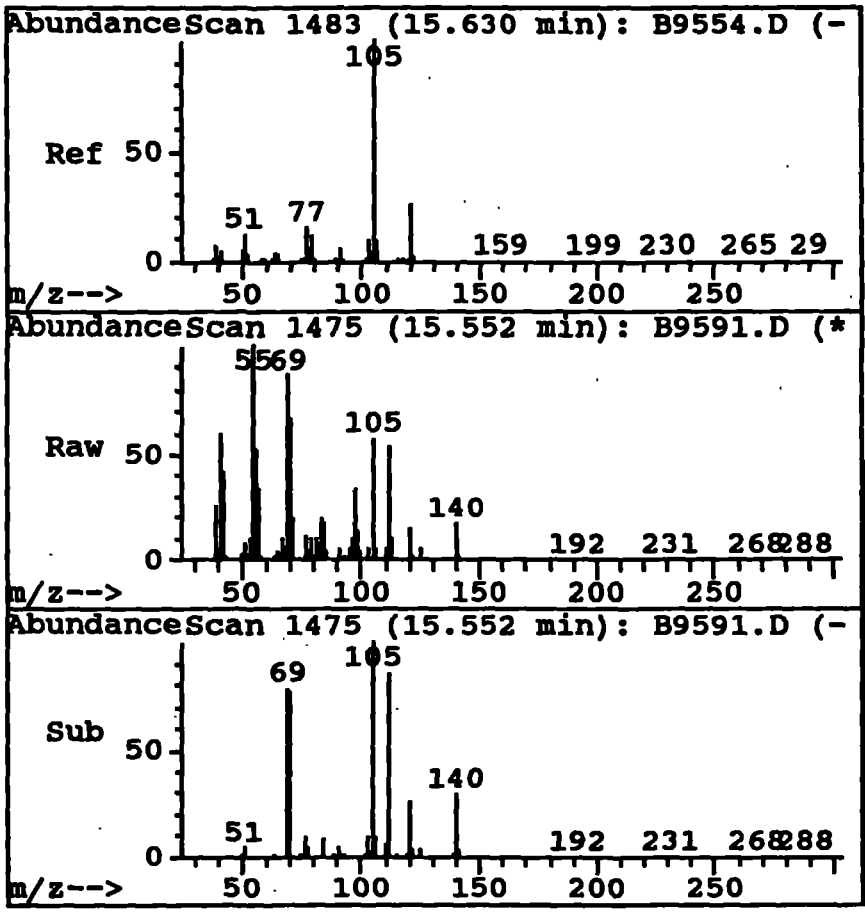


#69
o-Xylene
Concen: 61.93 ug/Kg
RT: 14.83 min Scan# 1402
Delta R.T. -0.09 min
Lab File: B9591.D
Acq: 2 Feb 102 10:51 pm

Tgt Ion:106 Resp: 378686

Ion	Ratio	Lower	Upper
106	100		
91	204.9	163.5	245.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

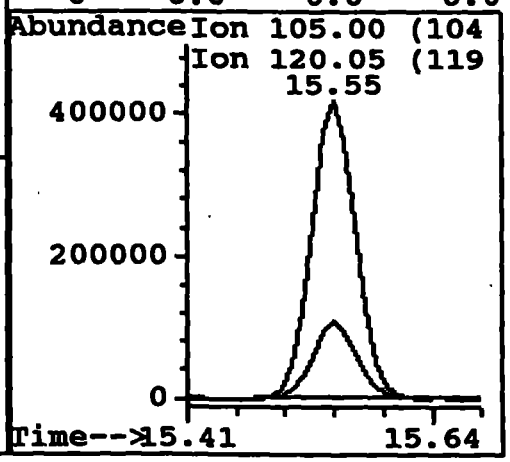


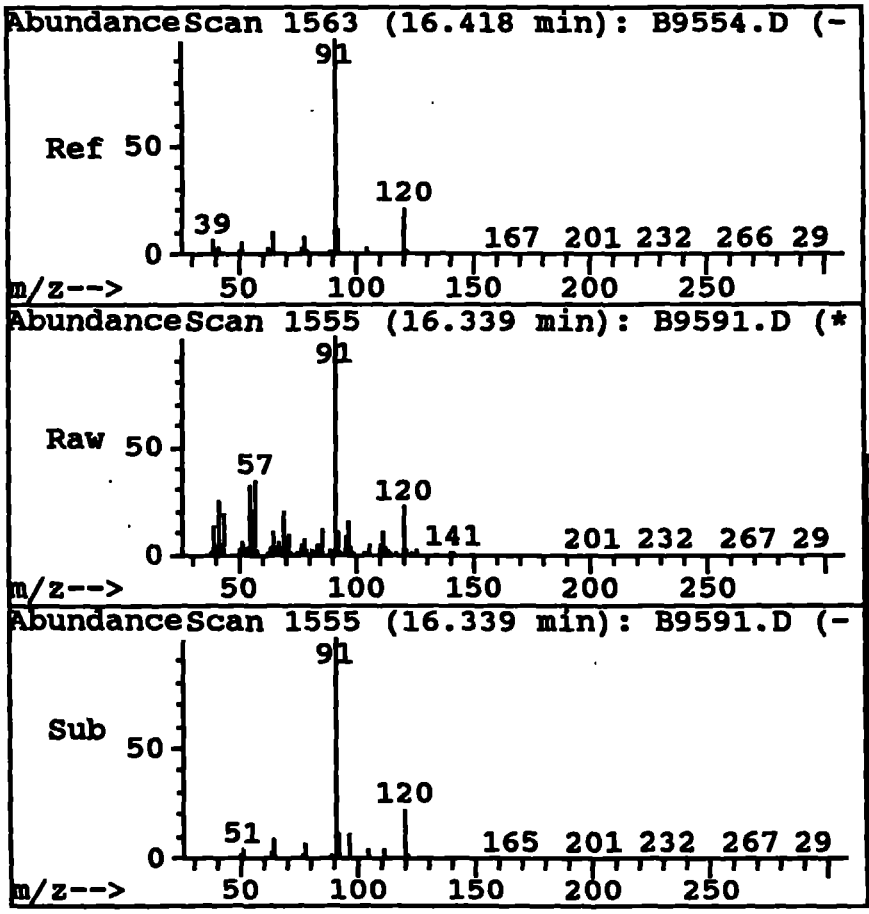


#72
Isopropylbenzene
Concen: 75.27 ug/Kg
RT: 15.55 min Scan# 1475
Delta R.T. -0.08 min
Lab File: B9591.D
Acq: 2 Feb 102 10:51 pm

Tgt Ion:105 Resp: 1195132

Ion	Ratio	Lower	Upper
105	100		
120	26.0	20.6	30.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

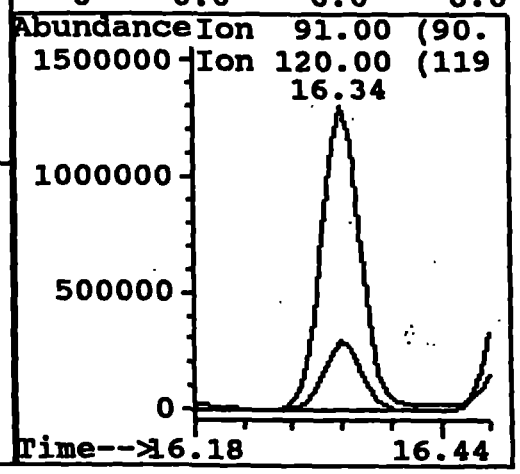


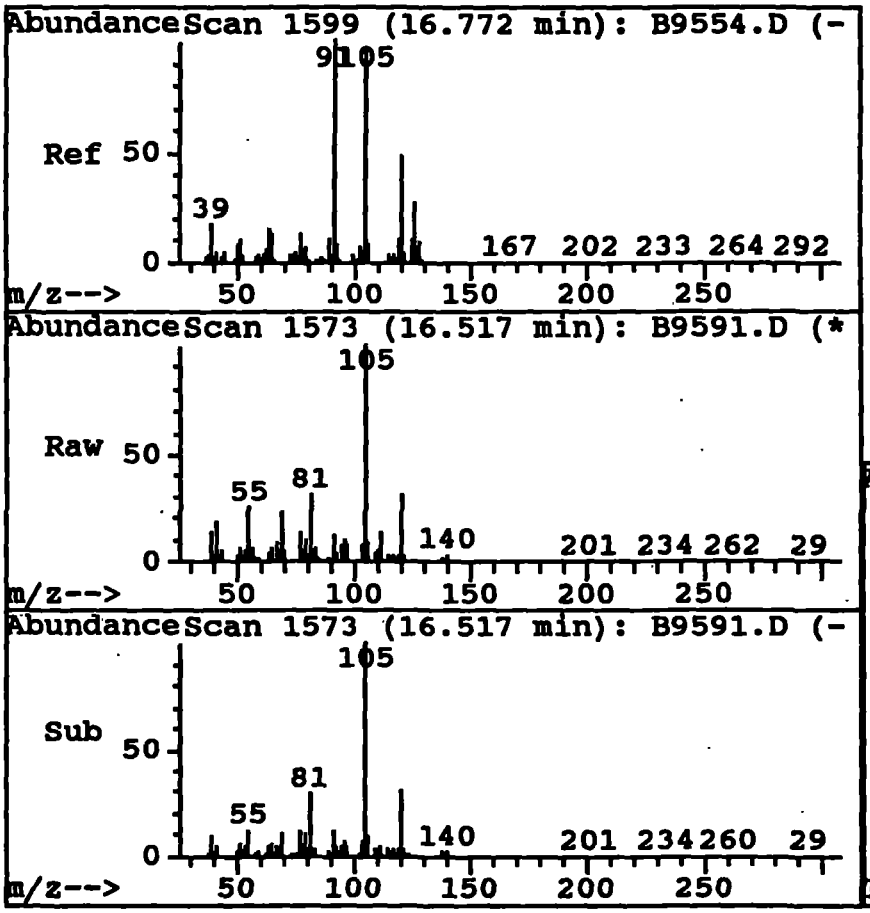


#78
n-Propylbenzene
Concen: 703.16 ug/Kg
RT: 16.34 min Scan# 1555
Delta R.T. -0.08 min
Lab File: B9591.D
Acq: 2 Feb 102 10:51 pm

Tgt Ion:91 Resp: 3738413

Ion	Ratio	Lower	Upper
91	100		
120	22.2	16.8	25.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

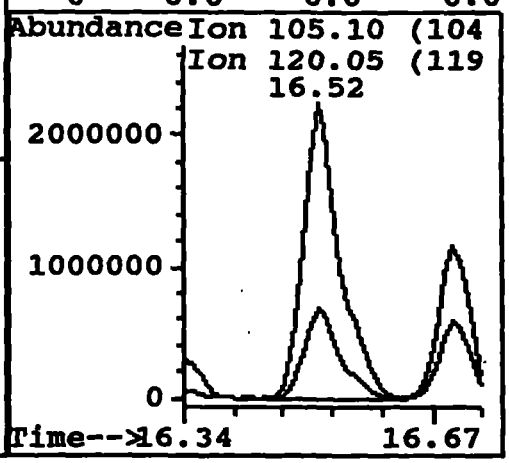


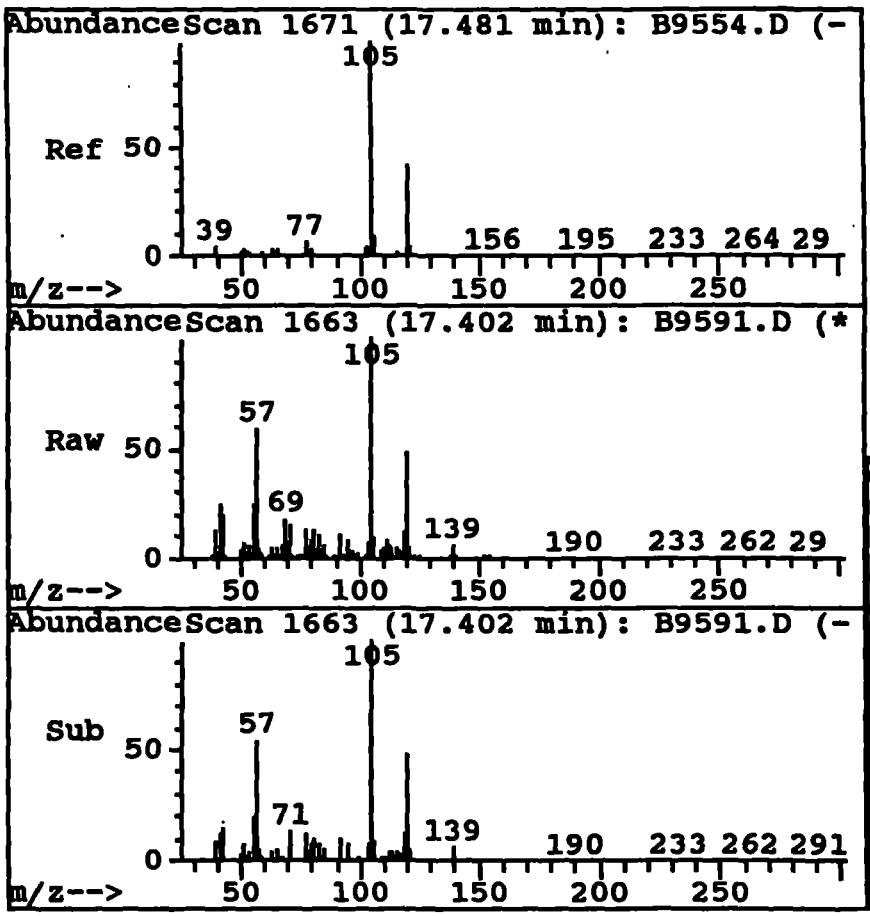


#80
1,3,5-Trimethylbenzene
Concen: 2312.55 ug/Kg
RT: 16.52 min Scan# 1573
Delta R.T. -0.26 min
Lab File: B9591.D
Acq: 2 Feb 102 10:51 pm

Tgt Ion:105.1 Resp: 7587446

Ion	Ratio	Lower	Upper
105	100		
120	30.6	20.6	30.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

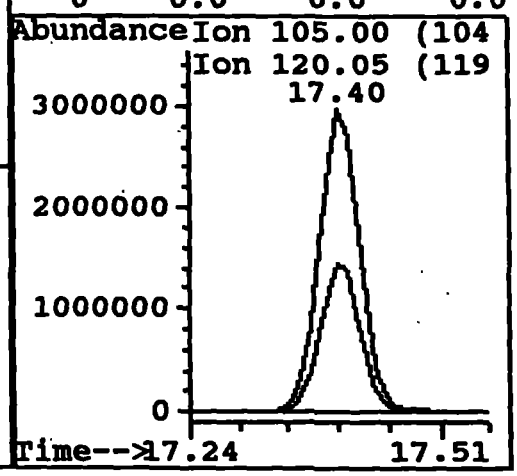


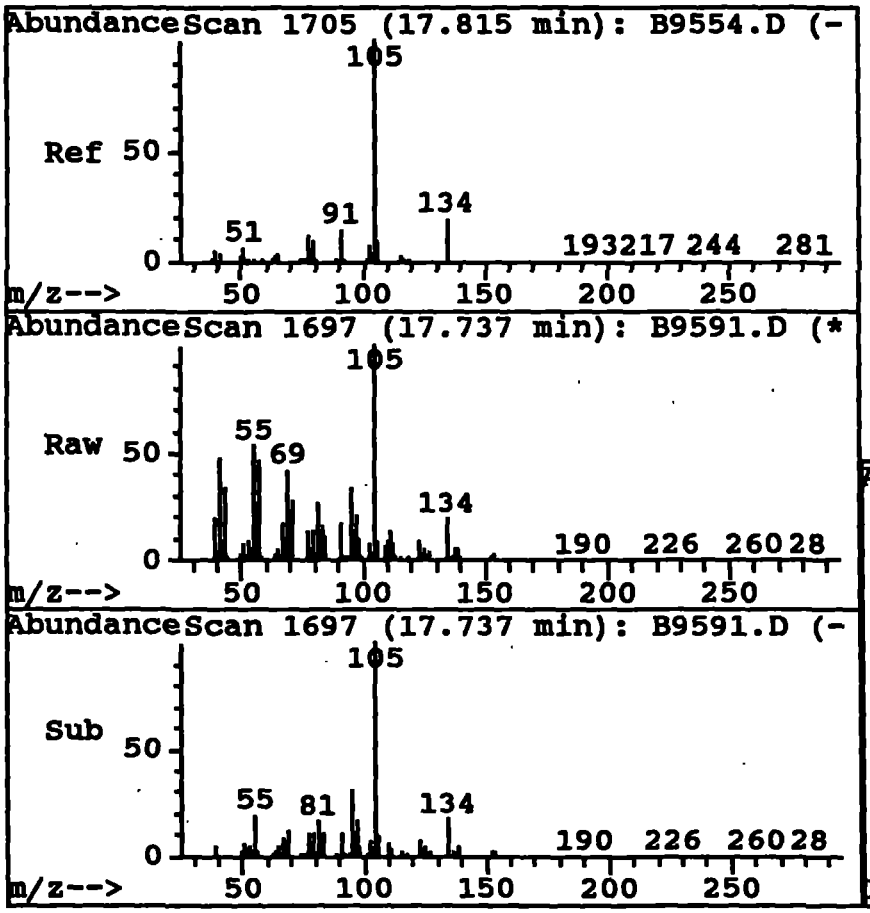


#84
1,2,4-Trimethylbenzene
Concen: 2666.30 ug/Kg
RT: 17.40 min Scan# 1663
Delta R.T. -0.08 min
Lab File: B9591.D
Acq: 2 Feb 102 10:51 pm

Tgt Ion:105 Resp: 8673531

Ion	Ratio	Lower	Upper
105	100		
120	48.3	35.9	53.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

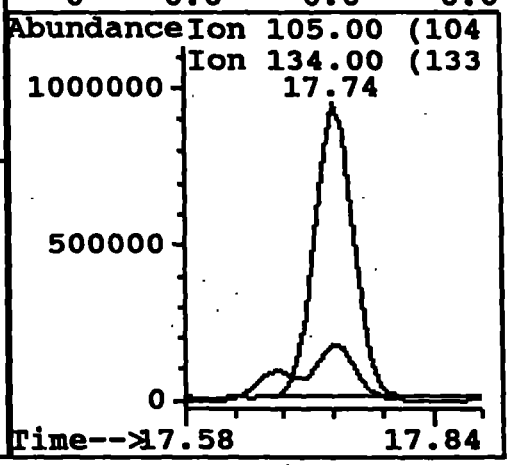


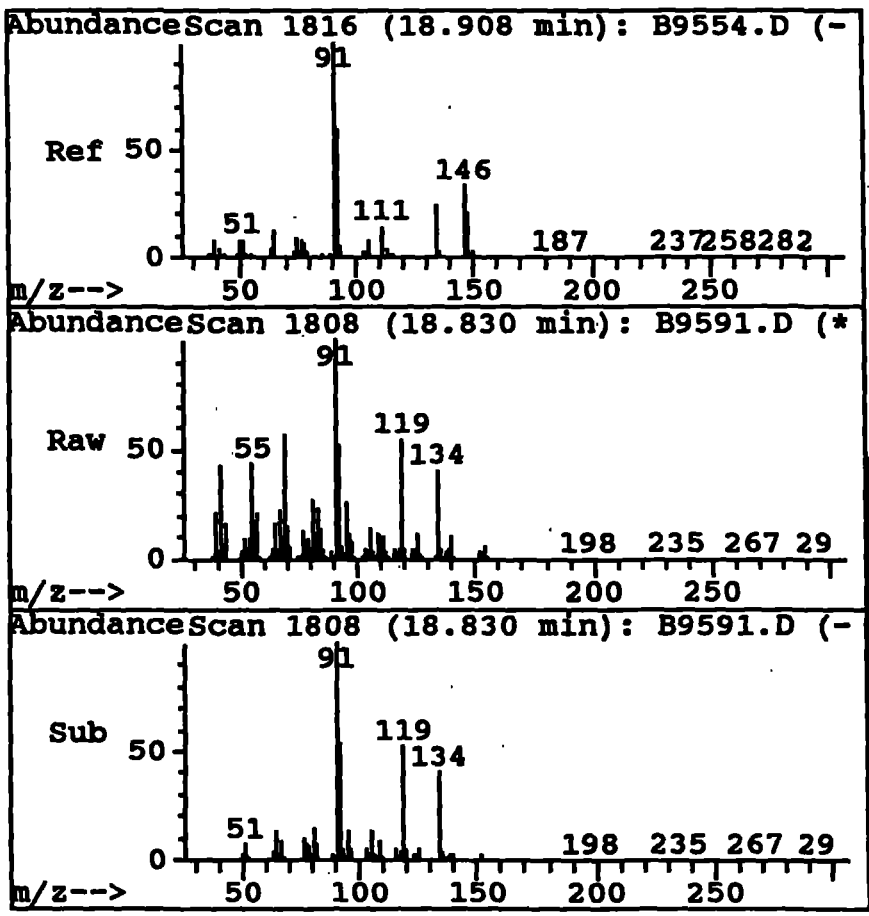


#85
sec-Butylbenzene
Concen: 568.58 ug/Kg
RT: 17.74 min Scan# 1697
Delta R.T. -0.08 min
Lab File: B9591.D
Acq: 2 Feb 102 10:51 pm

Tgt Ion:105 Resp: 2702622

Ion	Ratio	Lower	Upper
105	100		
134	18.9	14.5	21.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

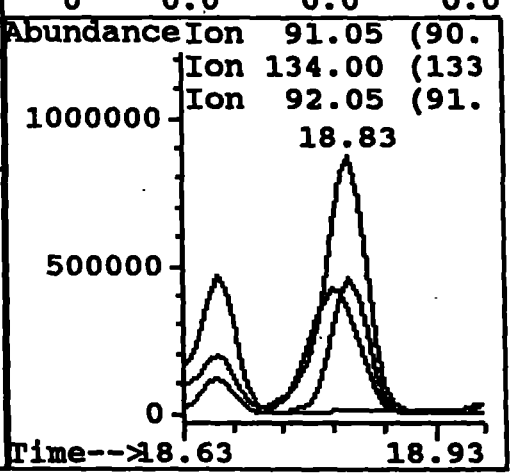


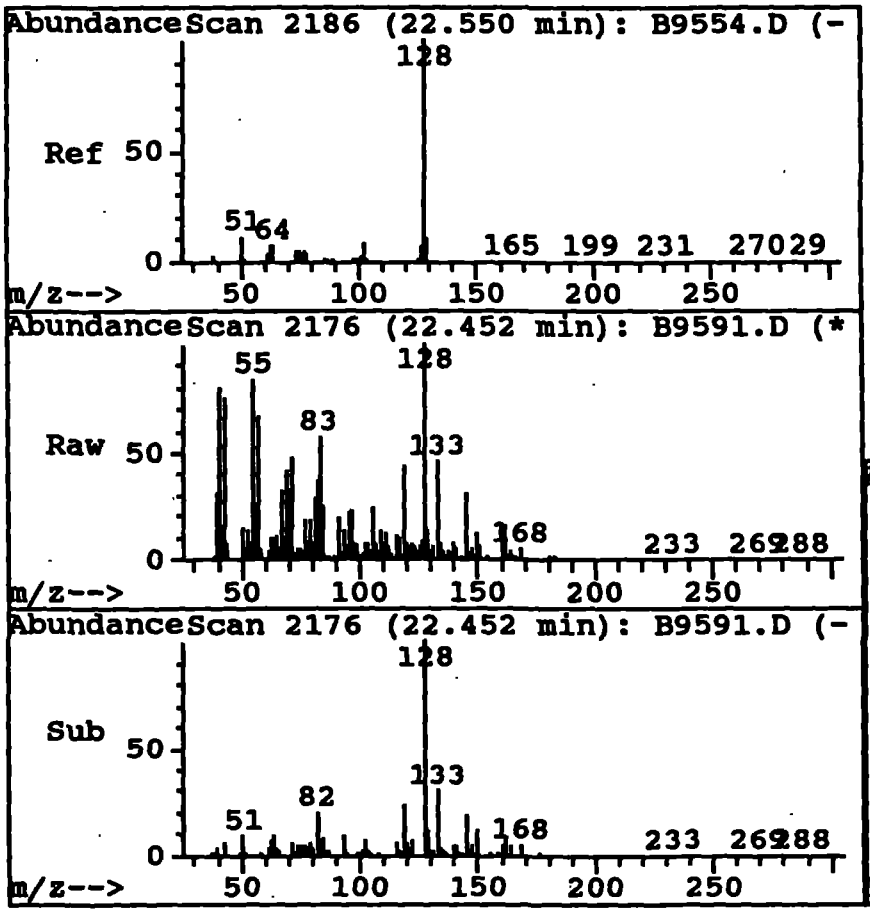


#89
n-Butylbenzene
Concen: 857.27 ug/Kg
RT: 18.83 min Scan# 1808
Delta R.T. -0.08 min
Lab File: B9591.D
Acq: 2 Feb 102 10:51 pm

Tgt Ion:91.05 Resp: 2978954

Ion	Ratio	Lower	Upper
91	100		
134	40.0	19.4	29.1#
92	52.5	47.9	71.8
0	0.0	0.0	0.0

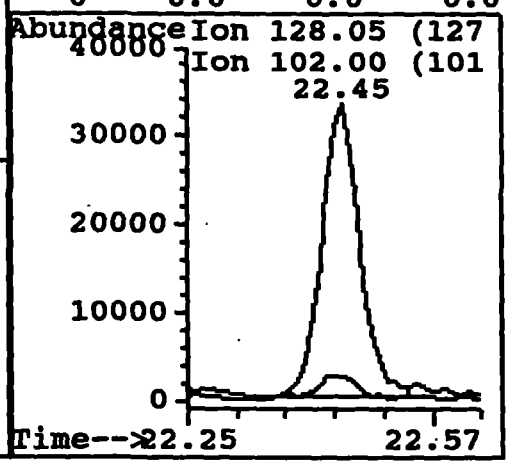




#95
Naphthalen
Concen: 57.57 ug/Kg
RT: 22.45 min Scan# 2176
Delta R.T. -0.10 min
Lab File: B9591.D
Acq: 2 Feb 102 10:51 pm

Tgt Ion:128.05 Resp: 117729

Ion	Ratio	Lower	Upper
128	100		
102	8.1	6.1	9.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : ST-SLU

Date Sampled : 01/20/02 14:30 **Order #:** 526219 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 10.5

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 01/29/02			
ANALYTICAL DILUTION: 138.00			Dry Weight
ACETONE	20	13000 J	UG/KG
BENZENE	5.0	6600 U	UG/KG
BROMODICHLOROMETHANE	5.0	6600 U	UG/KG
BROMOFORM	5.0	6600 U	UG/KG
BROMOMETHANE	5.0	6600 U	UG/KG
2-BUTANONE (MEK)	10	11000 J	UG/KG
CARBON DISULFIDE	10	13000 U	UG/KG
CARBON TETRACHLORIDE	5.0	6600 U	UG/KG
CHLOROBENZENE	5.0	6600 U	UG/KG
CHLOROETHANE	5.0	6600 U	UG/KG
CHLOROFORM	5.0	6600 U	UG/KG
CHLOROMETHANE	5.0	6600 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	6600 U	UG/KG
1,1-DICHLOROETHANE	5.0	6600 U	UG/KG
1,2-DICHLOROETHANE	5.0	6600 U	UG/KG
1,1-DICHLOROETHENE	5.0	6600 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	6600 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	6600 U	UG/KG
1,2-DICHLOROPROPANE	5.0	6600 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	6600 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	6600 U	UG/KG
ETHYLBENZENE	5.0	1800 J	UG/KG
2-HEXANONE	10	13000 U	UG/KG
METHYLENE CHLORIDE	5.0	6600 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	13000 U	UG/KG
STYRENE	5.0	6600 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	6600 U	UG/KG
TETRACHLOROETHENE	5.0	6600 U	UG/KG
TOLUENE	5.0	6600 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	6600 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	6600 U	UG/KG
TRICHLOROETHENE	5.0	6600 U	UG/KG
VINYL CHLORIDE	5.0	6600 U	UG/KG
O-XYLENE	5.0	6600 U	UG/KG
M+P-XYLENE	5.0	1400 J	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	116	%
TOLUENE-D8	(71 - 128 %)	106	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	99	%

Quantitation Report (Not Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012902\Q7268.D Vial: 18
Acq On : 29 Jan 2002 6:07 pm Operator: B.ALLGEIER
Sample : 526219 Inst : GC/MS Ins
Misc : TTEM R22-10416 8260B.TC5 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 29 18:35 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.57	168	1266418	50.00	ug/L	0.00
34) 1,4-Difluorobenzene	12.93	114	2072105	50.00	ug/L	0.00
58) d5-Chlorobenzene	18.20	117	1788600	50.00	ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.52	152	888133	50.00	ug/L	0.00
System Monitoring Compounds						
35) surr4,Dibrflmethane	11.62	113	643560	49.45	ug/L	0.00
Spiked Amount 50.000			Recovery	=	98.90%	
52) SURR3,Toluene-d8	15.56	98	2164997	53.09	ug/L	0.00
Spiked Amount 50.000			Recovery	=	106.18%	
57) SURR2,BFB	20.34	95	991460	57.92	ug/L	0.00
Spiked Amount 50.000			Recovery	=	115.84%	

Target Compounds						Qvalue
12) Acetone	7.46	43	35477	10.28	ug/L	94 J
13) Iodomethane	~~7.70~~	~~142~~	~~412~~	~~2.48~~	~~ug/L~~	~~74~~
27) 2-Butanone	10.75	43	44854	8.38	ug/L #	85 J
31) Tetrahydrofuran	11.29	42	23664	7.00	ug/L #	82 NT
45) 1,4-Dioxane	~~14.10~~	~~88~~	~~341~~	~~3.10~~	~~ug/L~~	~~97~~
46) Methyl Methacrylate	~~13.91~~	~~69~~	~~361~~	~~2.32~~	~~ug/L #~~	~~1~~
60) 2-Hexanone	~~16.75~~	~~43~~	~~13320~~	~~1.73~~	~~ug/L #~~	~~61~~
66) Ethylbenzene	18.37	106	25152	1.41	ug/L #	93 J
67) (m+p)Xylene	18.56	106	23074	1.09	ug/L #	83 J
71) Isopropylbenzene	19.97	105	80908	1.58	ug/L	99
73) trans-1,4-Dichloro-2-Buten	~~20.59~~	~~53~~	~~33708~~	~~6.61~~	~~ug/L #~~	~~1~~
75) 1,1,2,2-Tetrachloroethane	~~20.59~~	~~83~~	~~68015~~	~~5.35~~	~~ug/L #~~	~~38~~
77) 1,2,3-Trichloropropane	~~20.73~~	~~110~~	~~5085~~	~~1.71~~	~~ug/L #~~	~~1~~
78) n-Propylbenzene	20.74	91	238741	3.78	ug/L	97
81) 1,3,5-Trimethylbenzene	21.05	105	318161	8.13	ug/L #	94
83) 1,2,4-Trimethylbenzene	21.77	105	961249	24.34	ug/L	96
84) sec-Butylbenzene	22.08	105	232649	4.36	ug/L	98
85) p-Isopropyltoluene	22.33	119	3101018	71.55	ug/L	98
88) n-Butylbenzene	~~23.11~~	~~91~~	~~310504~~	~~6.78~~	~~ug/L #~~	~~92~~
94) Naphthalen	26.75	128	604313	18.44	ug/L	100

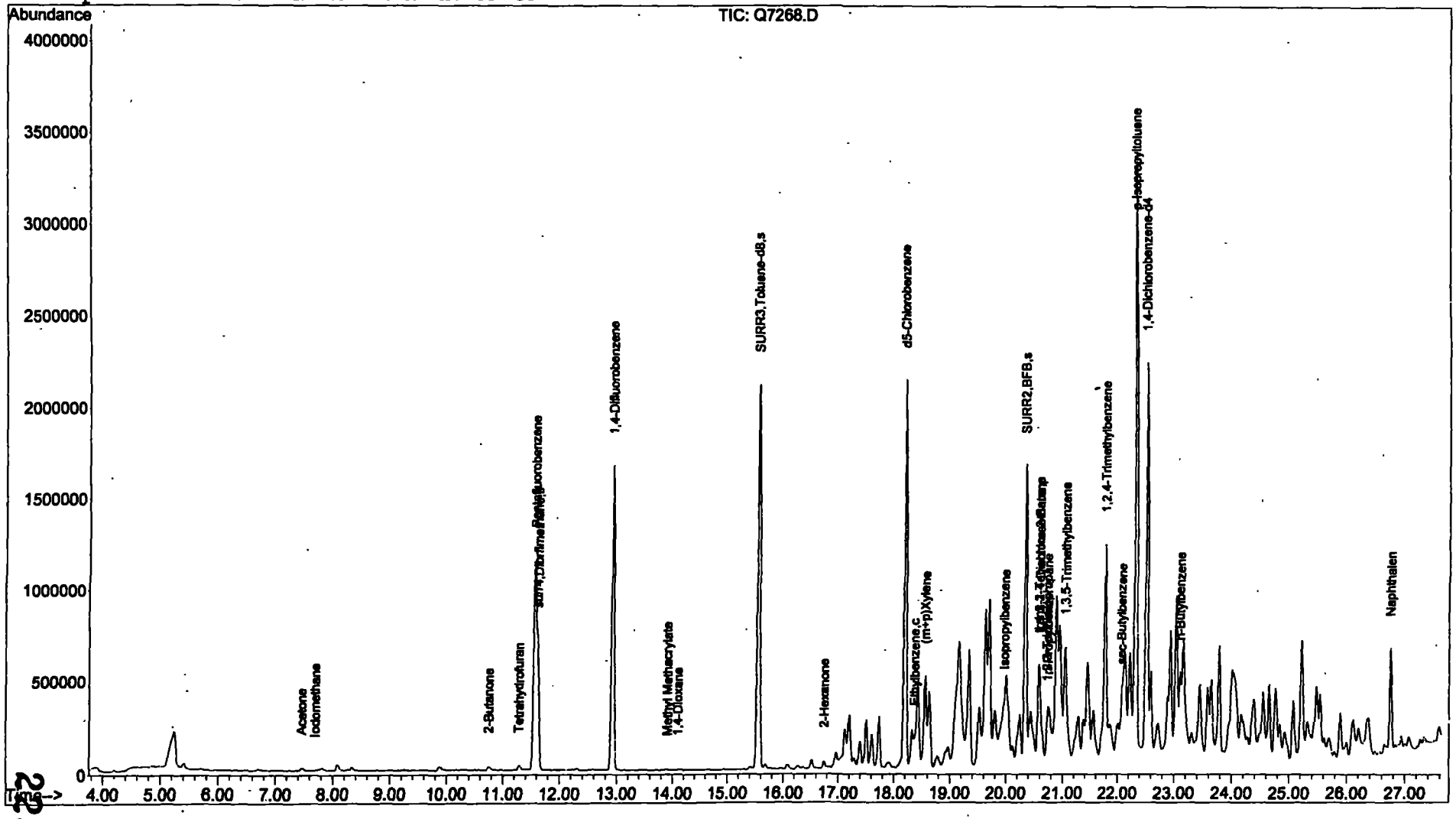
BP 1/31

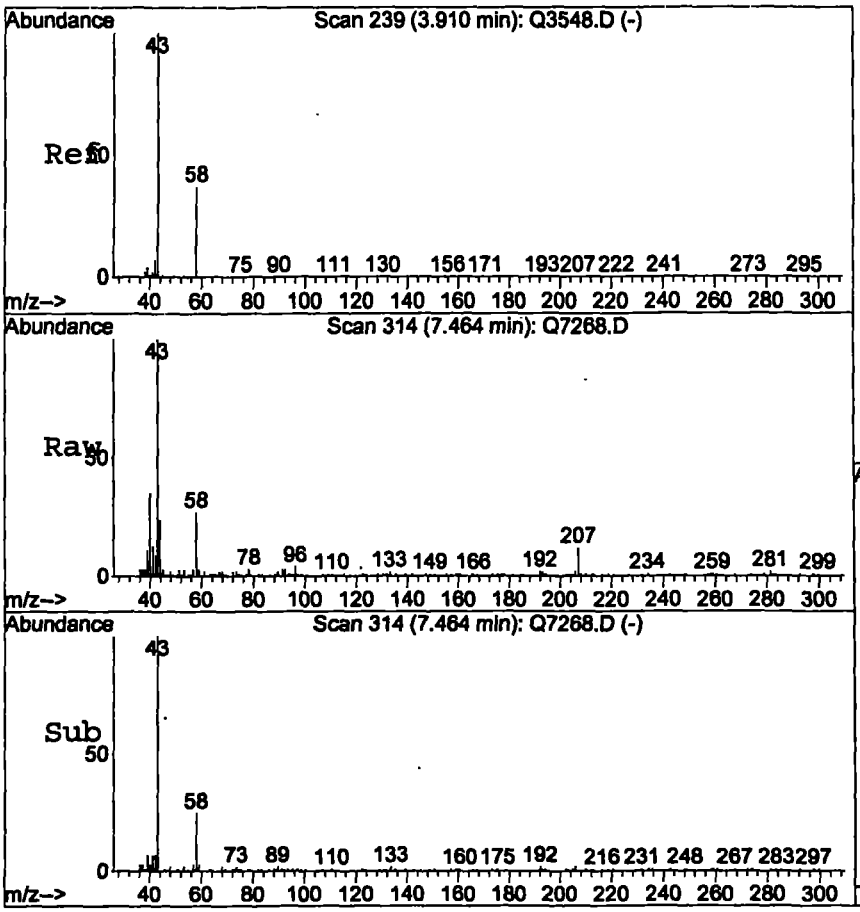
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA6\DATA\012902\Q7268.D Vial: 18
Acq On : 29 Jan 2002 6:07 pm Operator: B.ALLGEIER
Sample : 526219 Inst : GC/MS Ins
Misc : TTEM R22-10416 8260B.TC5 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 29 18:35 2002 Quant Results File: EXP0124.RES

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration

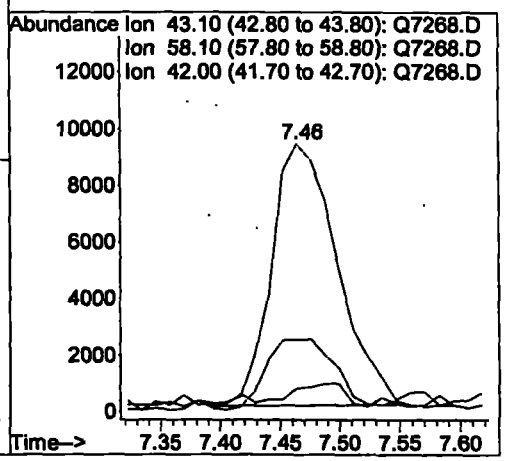


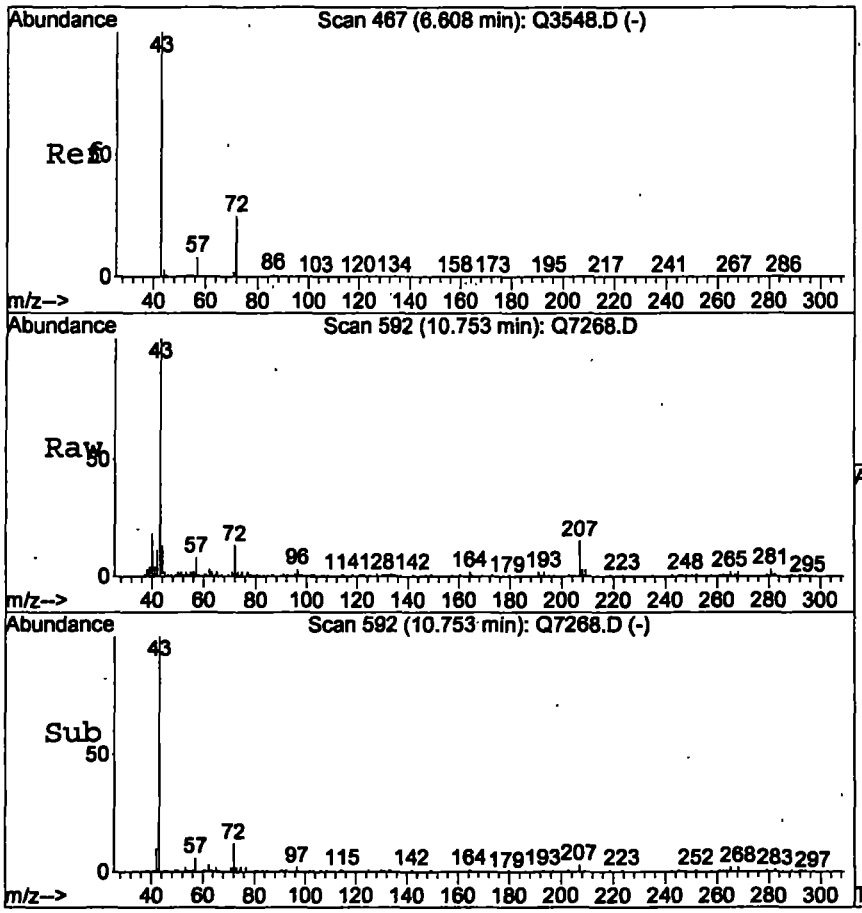


#12
Acetone
Concen: 10.28 ug/L
RT: 7.46 min Scan# 314
Delta R.T. 0.02 min
Lab File: Q7268.D
Acq: 29 Jan 2002 6:07 pm

Tgt Ion: 43 Resp: 35477

Ion	Ratio	Lower	Upper
43	100		
58	27.0	1.3	61.3
42	8.9	0.0	38.7

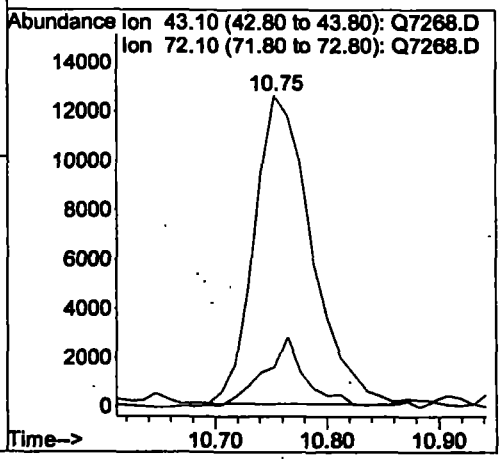


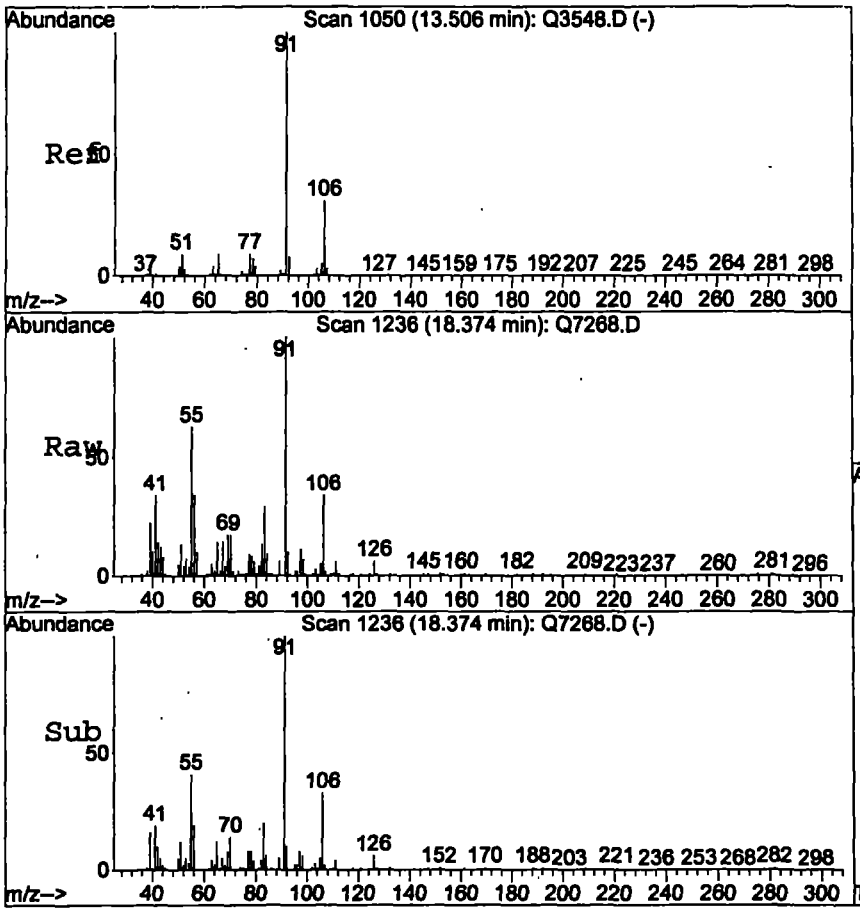


#27
2-Butanone
Concen: 8.38 ug/L
RT: 10.75 min Scan# 592
Delta R.T. 0.02 min
Lab File: Q7268.D
Acq: 29 Jan 2002 6:07 pm

Tgt Ion: 43 Resp: 44854

Ion	Ratio	Lower	Upper
43	100		
72	13.0	16.0	24.0#

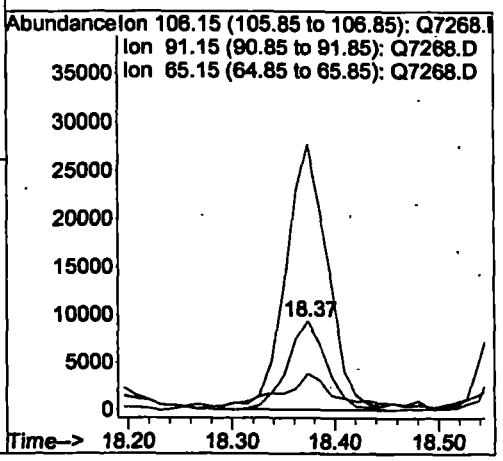


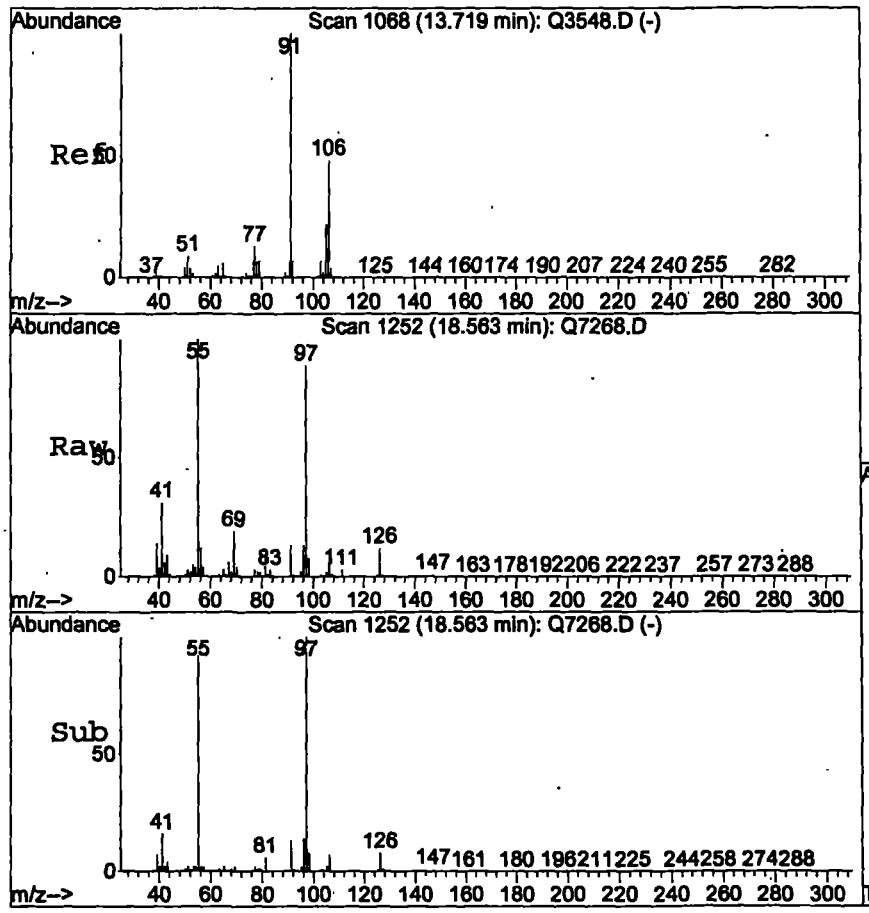


#66
Ethylbenzene
Concen: 1.41 ug/L
RT: 18.37 min Scan# 1236
Delta R.T. -0.00 min
Lab File: Q7268.D
Acq: 29 Jan 2002 6:07 pm

Tgt Ion:106 Resp: 25152

Ion	Ratio	Lower	Upper
106	100		
91	302.1	244.5	366.7
65	59.0	22.0	33.0#

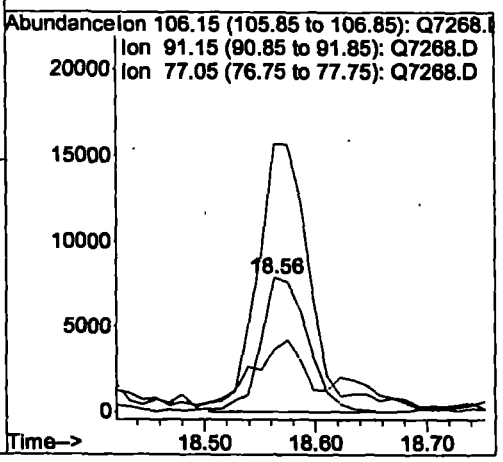




#67
(m+p)Xylene
Concen: 1.09 ug/L
RT: 18.56 min Scan# 1252
Delta R.T. -0.02 min
Lab File: Q7268.D
Acq: 29 Jan 2002 6:07 pm

Tgt Ion:106 Resp: 23074

Ion	Ratio	Lower	Upper
106	100		
91	207.6	151.6	227.4
77	52.2	20.5	30.7#



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/27/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : HWSC-SLU

Date Sampled : 01/20/02 16:00 **Order #:** 526220 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 53.7

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/02/02			
ANALYTICAL DILUTION: 0.68			Dry Weight
ACETONE	20	1600 E	UG/KG
BENZENE	5.0	6.3 U	UG/KG
BROMODICHLOROMETHANE	5.0	6.3 U	UG/KG
BROMOFORM	5.0	6.3 U	UG/KG
BROMOMETHANE	5.0	6.3 U	UG/KG
2-BUTANONE (MEK)	10	350 E	UG/KG
CARBON DISULFIDE	10	19	UG/KG
CARBON TETRACHLORIDE	5.0	6.3 U	UG/KG
CHLOROBENZENE	5.0	6.3 U	UG/KG
CHLOROETHANE	5.0	6.3 U	UG/KG
CHLOROFORM	5.0	6.3 U	UG/KG
CHLOROMETHANE	5.0	6.3 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	6.3 U	UG/KG
1,1-DICHLOROETHANE	5.0	6.3 U	UG/KG
1,2-DICHLOROETHANE	5.0	6.3 U	UG/KG
1,1-DICHLOROETHENE	5.0	6.3 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	6.3 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	6.3 U	UG/KG
1,2-DICHLOROPROPANE	5.0	6.3 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	6.3 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	6.3 U	UG/KG
ETHYLBENZENE	5.0	2.0 J	UG/KG
2-HEXANONE	10	45	UG/KG
METHYLENE CHLORIDE	5.0	6.3 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	74	UG/KG
STYRENE	5.0	6.3 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	6.3 U	UG/KG
TETRACHLOROETHENE	5.0	6.3 U	UG/KG
TOLUENE	5.0	4.5 J	UG/KG
1,1,1-TRICHLOROETHANE	5.0	6.3 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	6.3 U	UG/KG
TRICHLOROETHENE	5.0	6.3 U	UG/KG
VINYL CHLORIDE	5.0	6.3 U	UG/KG
O-XYLENE	5.0	2.8 J	UG/KG
M+P-XYLENE	5.0	6.3 J	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	55	%
TOLUENE-D8	(71 - 128 %)	161 *	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	147 *	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9581.D
Acq On : 2 Feb 102 4:44 pm
Sample : 526220 0.68
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 17:12 19102

Vial: 12
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Q 2/4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.32	168	371869	50.00 ug/Kg	-0.09 *
35) 1,4 - Difluorobenzene	8.50	114	668452	50.00 ug/Kg	-0.09 *
52) d5 - Chlorobenzene	13.59	117	230902	50.00 ug/Kg	-0.09 *
74) d4 - Dichlorobenzene	18.04	152	21016	50.00 ug/Kg	-0.09 *
System Monitoring Compounds					%Recovery
36) surr4,Dibrflmethane	7.20	113	235966	73.64 ug/Kg	147.29% *
58) surr3,Toluene-d8	11.01	98	424371	80.33 ug/Kg	160.65% *
59) surr2,bfb	15.81	95	58292	27.62 ug/Kg	55.25%
Target Compounds					Qvalue
9) Acrolein	3.45	56	15297	~~47.63 ug/Kg#~~	~~1~~
12) Acetone	3.69	43	1144444	1232.16 ug/Kg	96 E
14) Carbon Disulfide	3.90	76	187675	15.56 ug/Kg	99
15) Acetonitrile	3.69	41	21708	~~244.88 ug/Kg~~	~~95~~
16) Allyl Chloride	3.90	76	185936	~~100.00 ug/Kg#~~	~~1~~
18) TBA	4.62	59	32492	94.77 ug/Kg	96 NT
23) Vinyl Acetate	5.28	43	73550	~~10.22 ug/Kg#~~	~~49~~
26) 2-Butanone	6.45	43	527777	276.86 ug/Kg	98 E
39) Iso-Butyl Alcohol	8.36	43	162224	~~537.25 ug/Kg~~	~~81~~
42) N-Heptane	8.36	43	160942	~~26.69 ug/Kg#~~	~~75~~ ok
45) Methyl Methacrylate	9.62	69	5173	~~1.98 ug/Kg#~~	~~1~~
46) 1,4-Dioxane	9.56	88	203	~~4.95 ug/Kg#~~	~~41~~
48) Bromodichloromethane	9.86	83	18660	~~4.00 ug/Kg#~~	~~30~~
49) 2-Nitropropane	10.20	43	28820	~~26.19 ug/Kg~~	~~98~~
53) 4-Methyl-2-Pentanone	10.84	43	127510	59.29 ug/Kg	99
54) Toluene	11.13	91	24894	3.59 ug/Kg	92 J
61) 2-Hexanone	12.31	43	54986	35.69 ug/Kg	99
67) Ethylbenzene	13.87	91	12414	1.67 ug/Kg	95 J
68) (m+p)Xylene	14.08	106	13790	5.06 ug/Kg	91
69) o-Xylene	14.83	106	6126	2.26 ug/Kg	99 J
70) Styrene	14.86	104	7898	~~1.69 ug/Kg~~	~~99~~
72) Isopropylbenzene	15.51	105	24490	~~3.48 ug/Kg#~~	~~68~~
75) 1,1,2,2-Tetrachloroethane	16.13	83	70694	~~147.57 ug/Kg#~~	~~34~~
76) Trans-1,4-Dichloro-2-buten	16.13	53	23734	~~179.58 ug/Kg#~~	~~1~~
77) 1,2,3-Trichloropropane	16.13	110	8587	~~63.86 ug/Kg#~~	~~14~~
78) n-Propylbenzene	16.33	91	35709	19.39 ug/Kg	99 NT
80) 1,3,5-Trimethylbenzene	16.50	105	93805	82.55 ug/Kg	92
81) 2-Chlorotoluene	16.51	91	9122	~~8.30 ug/Kg#~~	~~52~~
82) 4-Chlorotoluene	16.67	91	6328	~~5.21 ug/Kg#~~	~~61~~
83) tert-Butylbenzene	17.38	119	16827	~~16.27 ug/Kg~~	~~83~~
84) 1,2,4-Trimethylbenzene	17.39	105	157680	139.95 ug/Kg	95
85) sec-Butylbenzene	17.72	105	38025	~~23.10 ug/Kg~~	~~93~~
89) n-Butylbenzene	18.82	91	43229	~~35.92 ug/Kg#~~	~~79~~

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9581.D Vial: 12
Acq On : 2 Feb 102 4:44 pm Operator: TTRAVER
Sample : 526220 0.68 Inst : 5971 - In
Misc : TTEM R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 2 17:12 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
90) 1,2-Dclbenz	18.79	146	1889	~~3.19 ug/Kg#~~	1
92) Nitrobenzene	20.70	77	490	~~16.05 ug/Kg#~~	~~55~~
95) Naphthalen	22.46	128	7987	9.14 ug/Kg#	93 NT

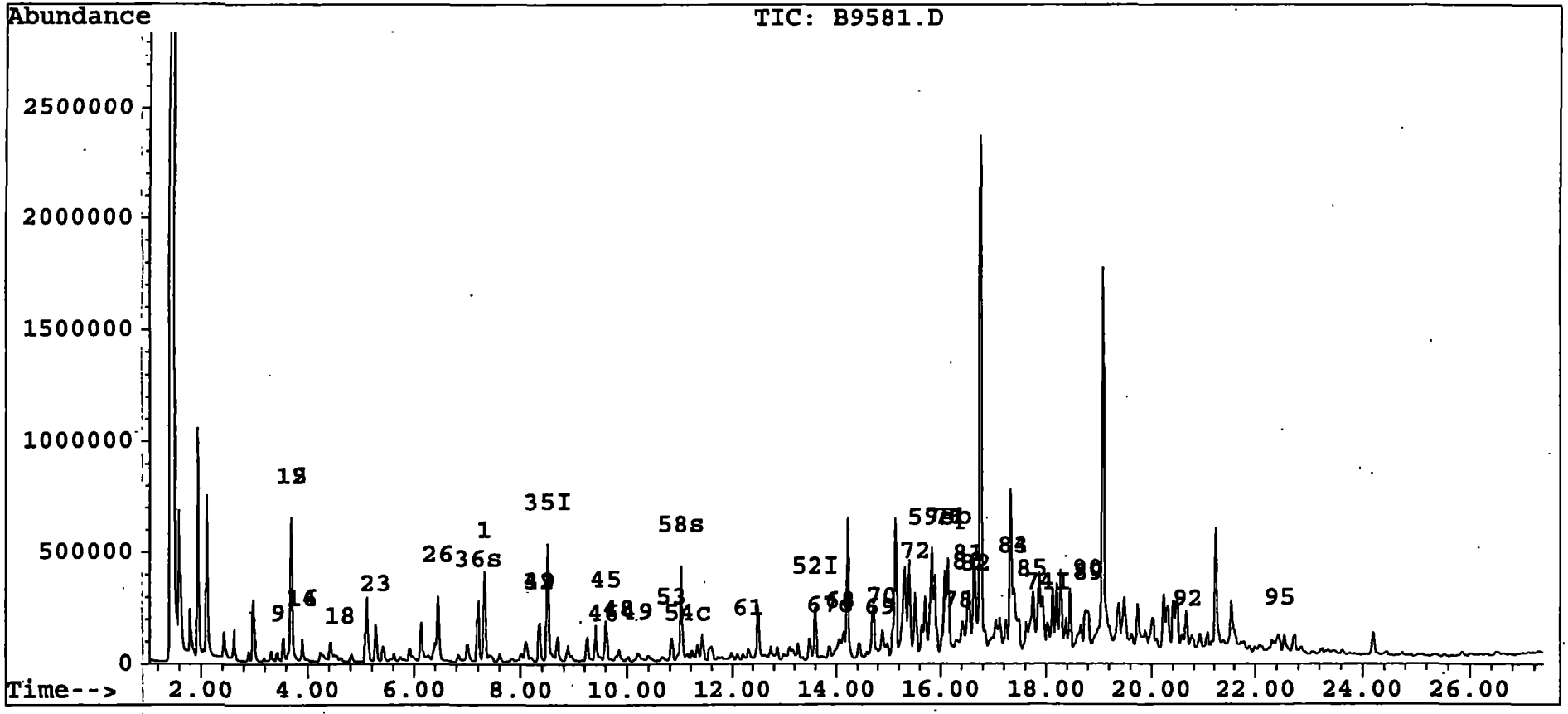
(#) = qualifier out of range (m) = manual integration

Quantitation Report

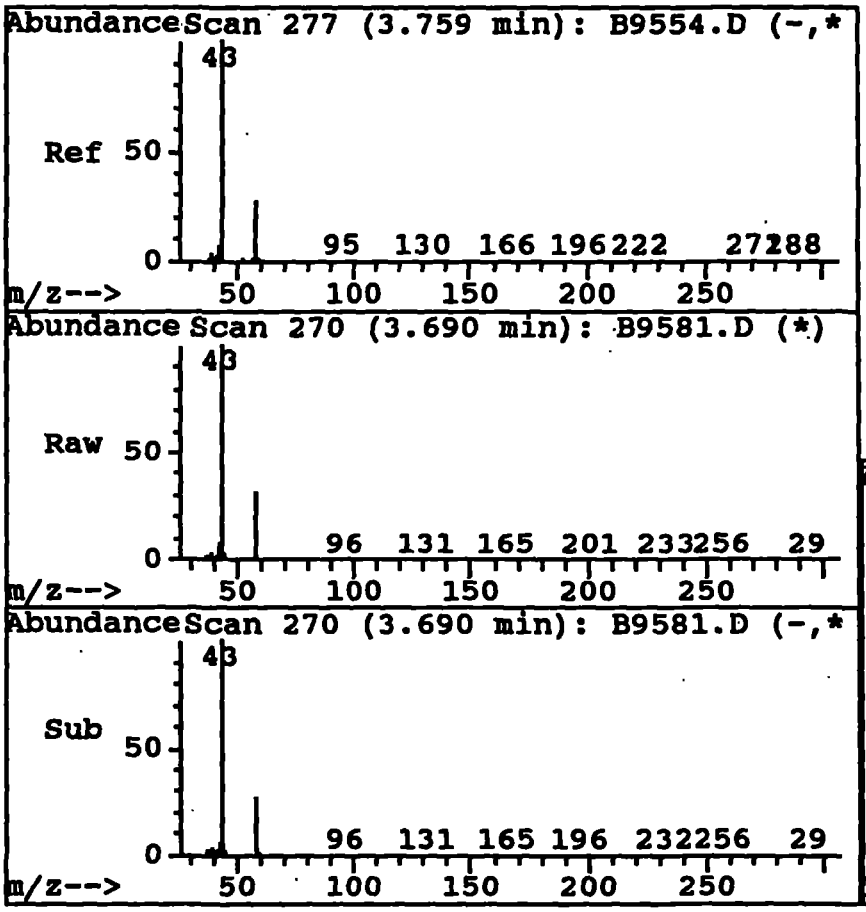
Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9581.D
Acq On : 2 Feb 102 4:44 pm
Sample : 526220 0.68
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 17:12 19102

Vial: 12
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



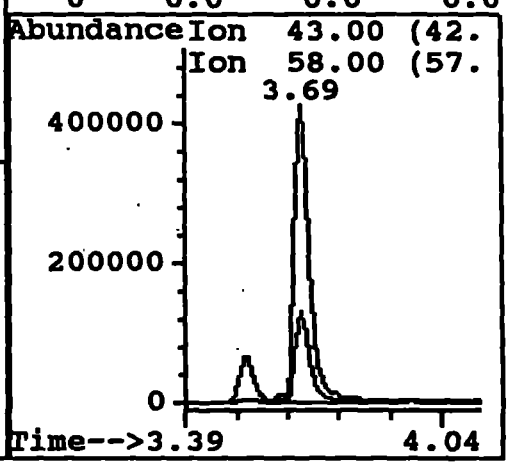
233

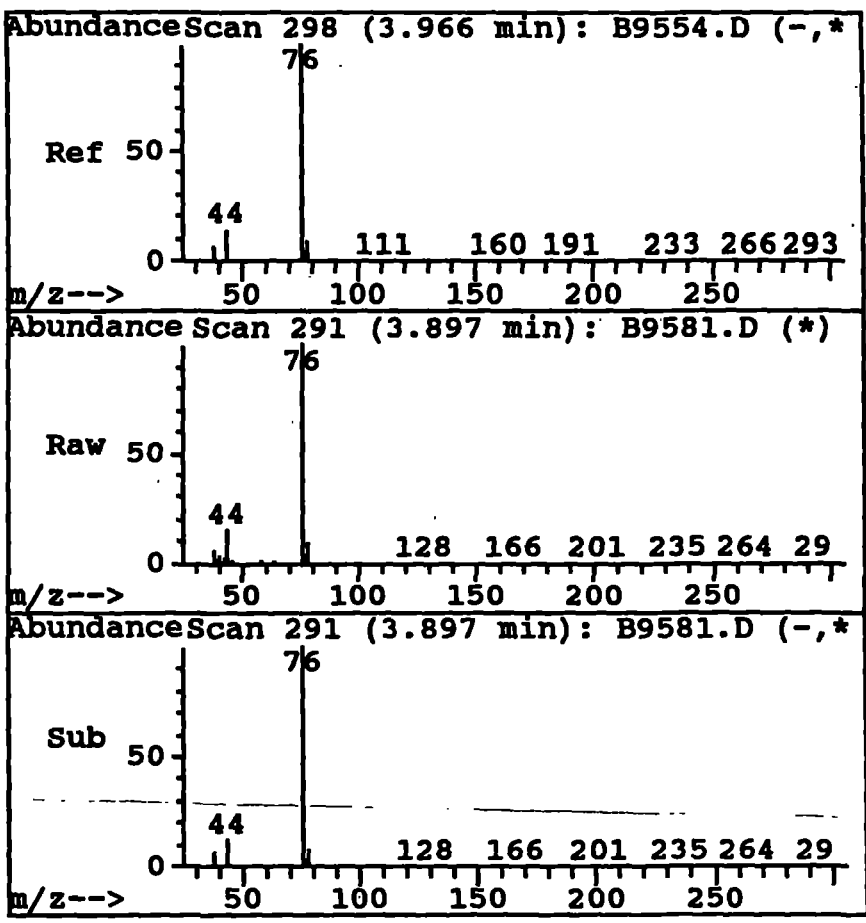


#12
Acetone
Concen: 1232.16 ug/Kg
RT: 3.69 min Scan# 270
Delta R.T. -0.07 min
Lab File: B9581.D
Acq: 2 Feb 102 4:44 pm

Tgt Ion:43 Resp: 1144444

Ion	Ratio	Lower	Upper
43	100		
58	30.7	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

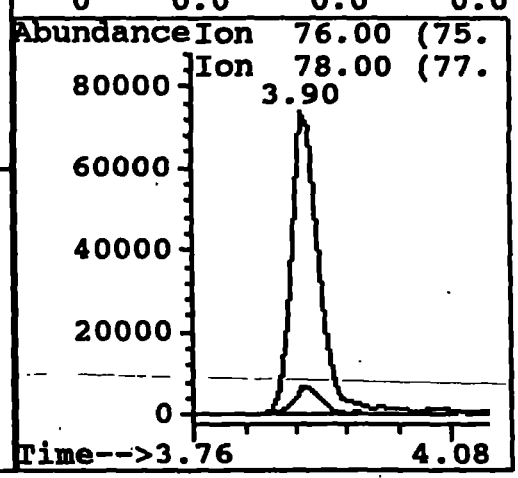


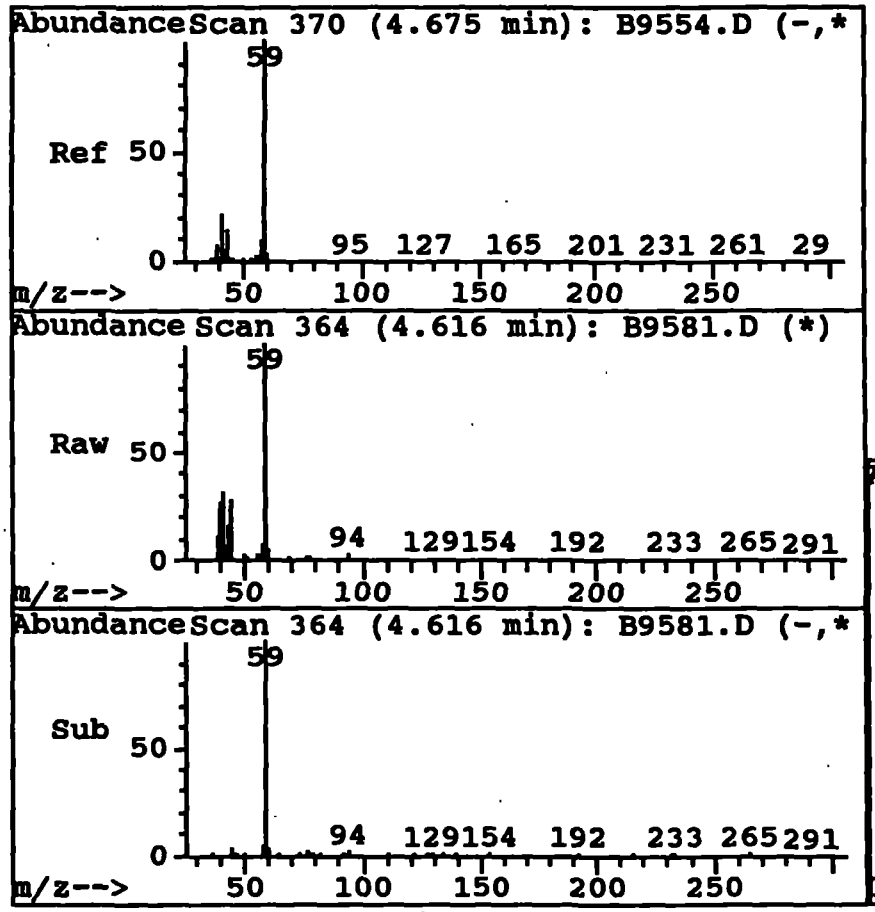


#14
Carbon Disulfide
Concen: 15.56 ug/Kg
RT: 3.90 min Scan# 291
Delta R.T. -0.07 min
Lab File: B9581.D
Acq: 2 Feb 102 4:44 pm

Tgt Ion:76 Resp: 187675

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.4	11.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

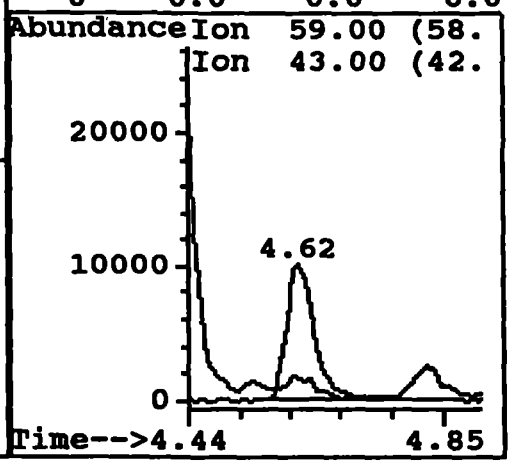


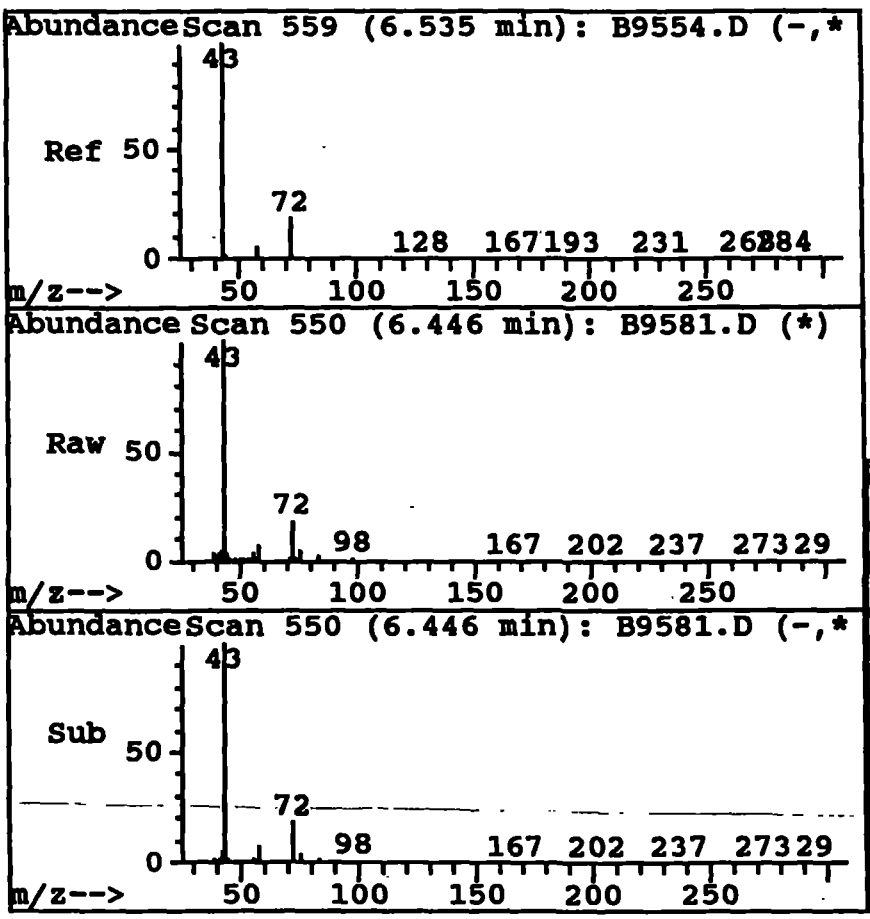


#18
TBA
Concen: 94.77 ug/Kg
RT: 4.62 min Scan# 364
Delta R.T. -0.06 min
Lab File: B9581.D
Acq: 2 Feb 102 4:44 pm

Tgt Ion:59 Resp: 32492

Ion	Ratio	Lower	Upper
59	100		
43	15.6	11.1	16.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

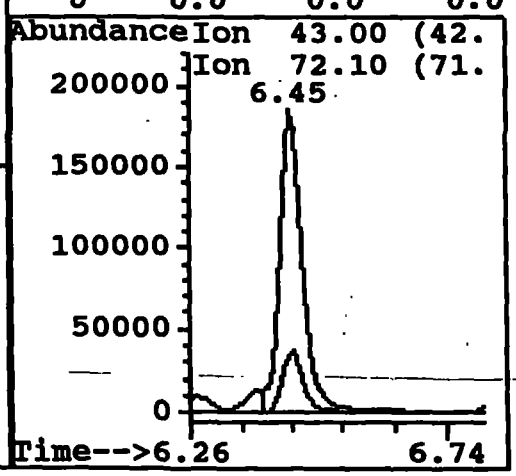


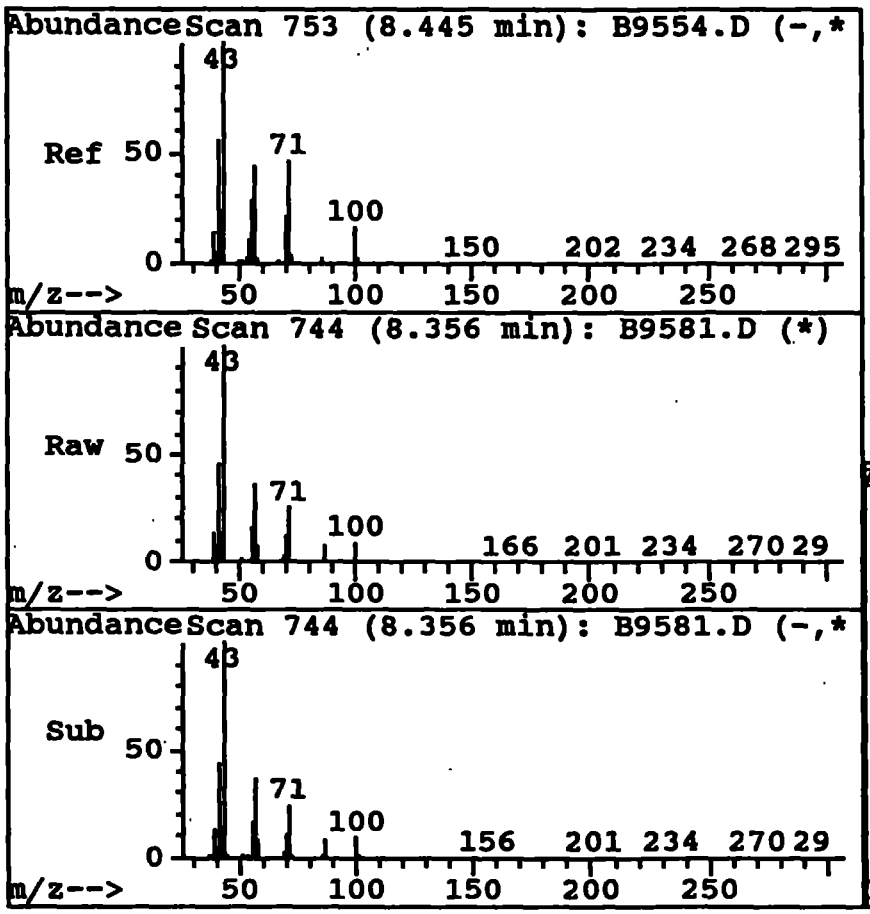


#26
2-Butanone
Concen: 276.86 ug/Kg
RT: 6.45 min Scan# 550
Delta R.T. -0.09 min
Lab File: B9581.D
Acq: 2 Feb 102 4:44 pm

Tgt Ion:43 Resp: 527777

Ion	Ratio	Lower	Upper
43	100		
72	18.2	14.5	24.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

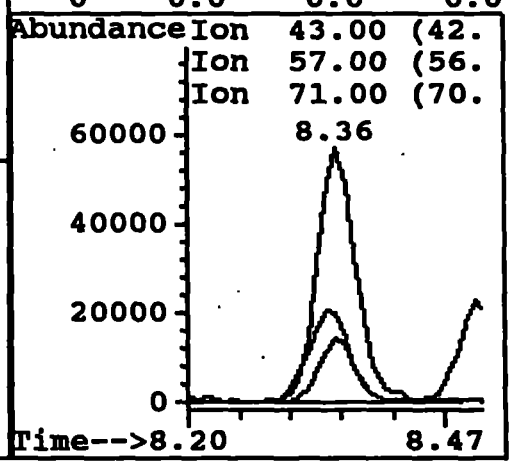


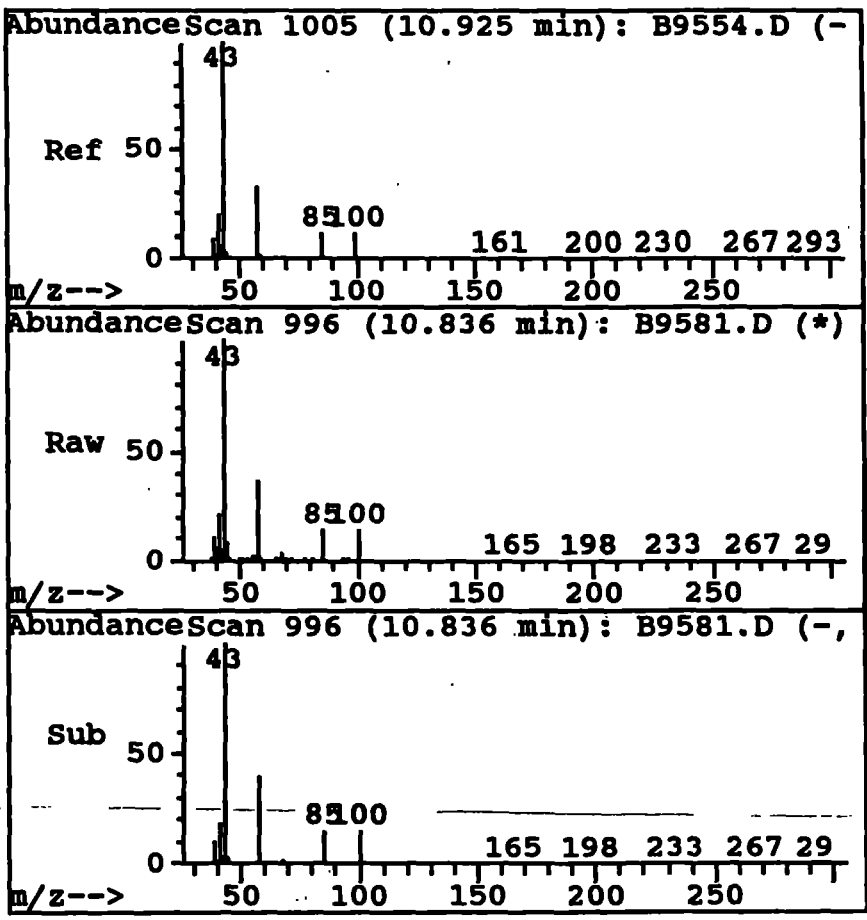


#42
N-Heptane
Concen: 26.69 ug/Kg
RT: 8.36 min Scan# 744
Delta R.T. -0.09 min
Lab File: B9581.D
Acq: 2 Feb 102 4:44 pm

Tgt Ion:43 Resp: 160942

Ion	Ratio	Lower	Upper
43	100		
57	35.6	34.9	58.1
71	24.9	35.3	58.8#
0	0.0	0.0	0.0

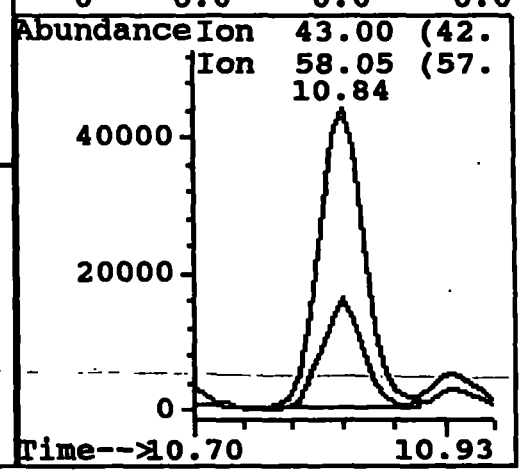


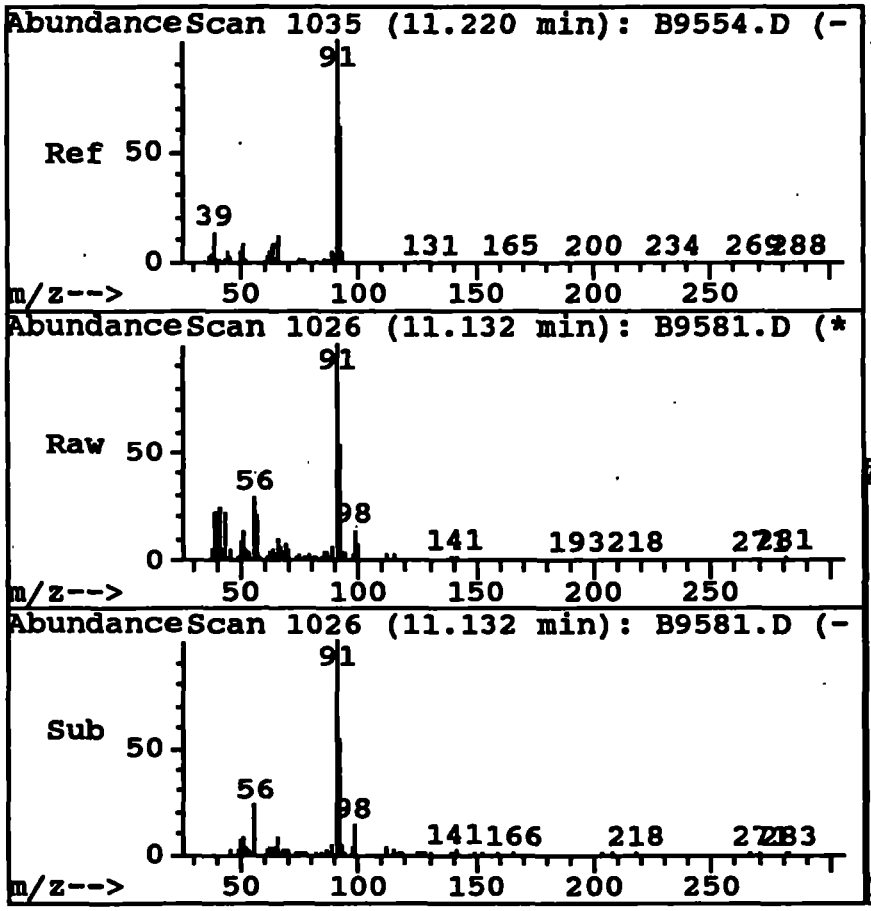


#53
4-Methyl-2-Pentanone
Concen: 59.29 ug/Kg
RT: 10.84 min Scan# 996
Delta R.T. -0.09 min
Lab File: B9581.D
Acq: 2 Feb 102 4:44 pm

Tgt Ion:43 Resp: 127510

Ion	Ratio	Lower	Upper
43	100		
58	36.8	27.0	44.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

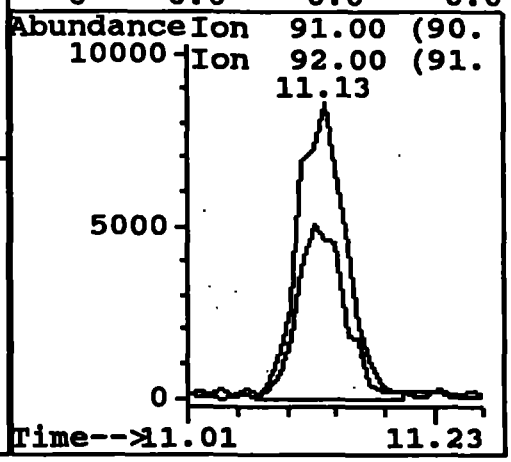


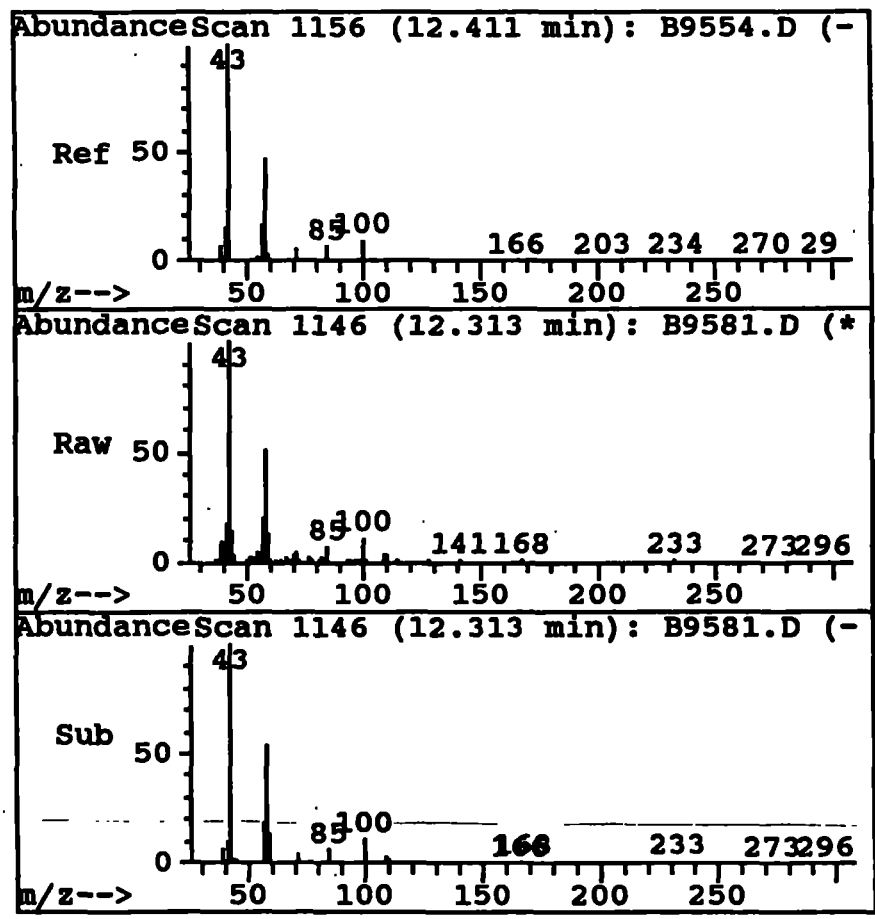


#54
Toluene
Concen: 3.59 ug/Kg
RT: 11.13 min Scan# 1026
Delta R.T. -0.09 min
Lab File: B9581.D
Acq: 2 Feb 102 4:44 pm

Tgt Ion:91 Resp: 24894

Ion	Ratio	Lower	Upper
91	100		
92	53.7	47.9	71.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

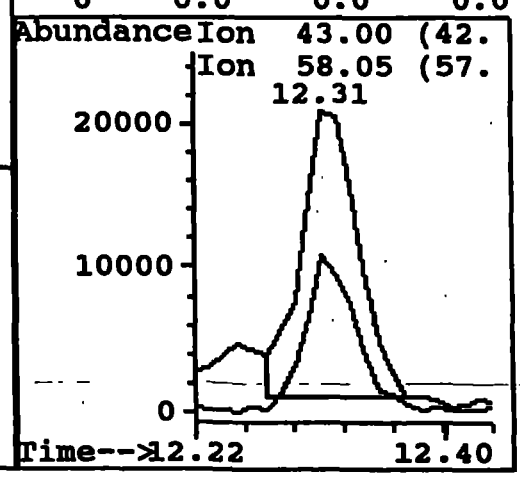


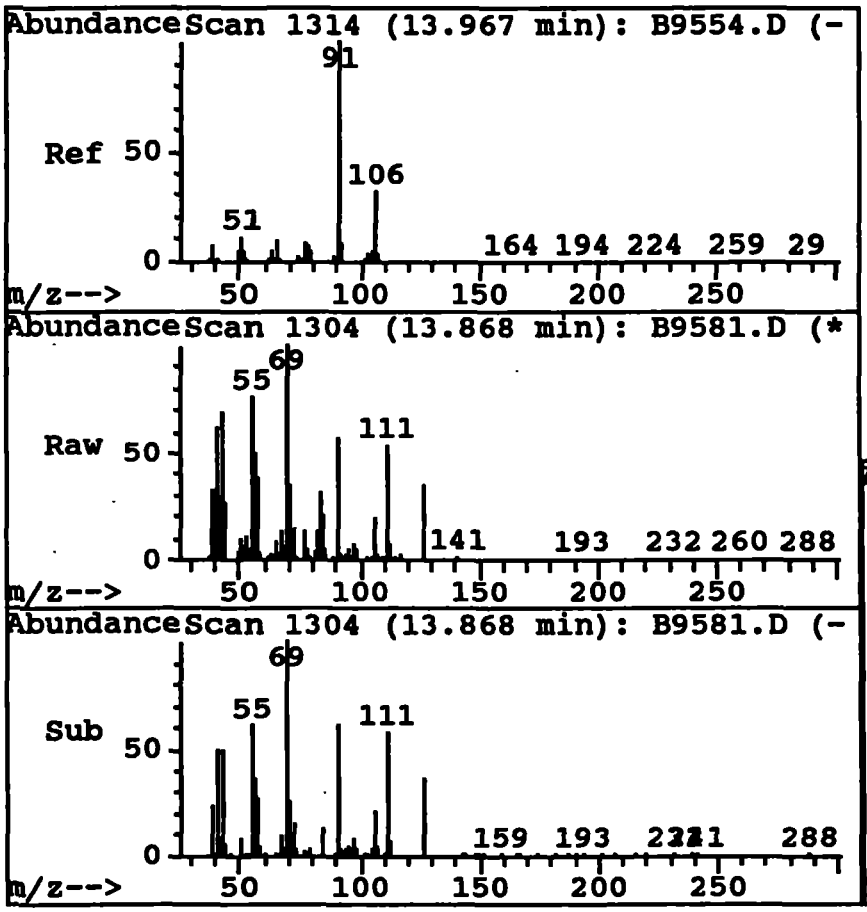


#61
2-Hexanone
Concen: 35.69 ug/Kg
RT: 12.31 min Scan# 1146
Delta R.T. -0.10 min
Lab File: B9581.D
Acq: 2 Feb 102 4:44 pm

Tgt Ion:43 Resp: 54986

Ion	Ratio	Lower	Upper
43	100		
58	51.4	41.5	62.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

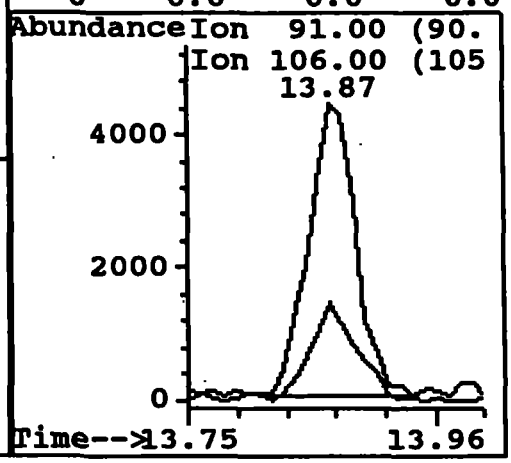


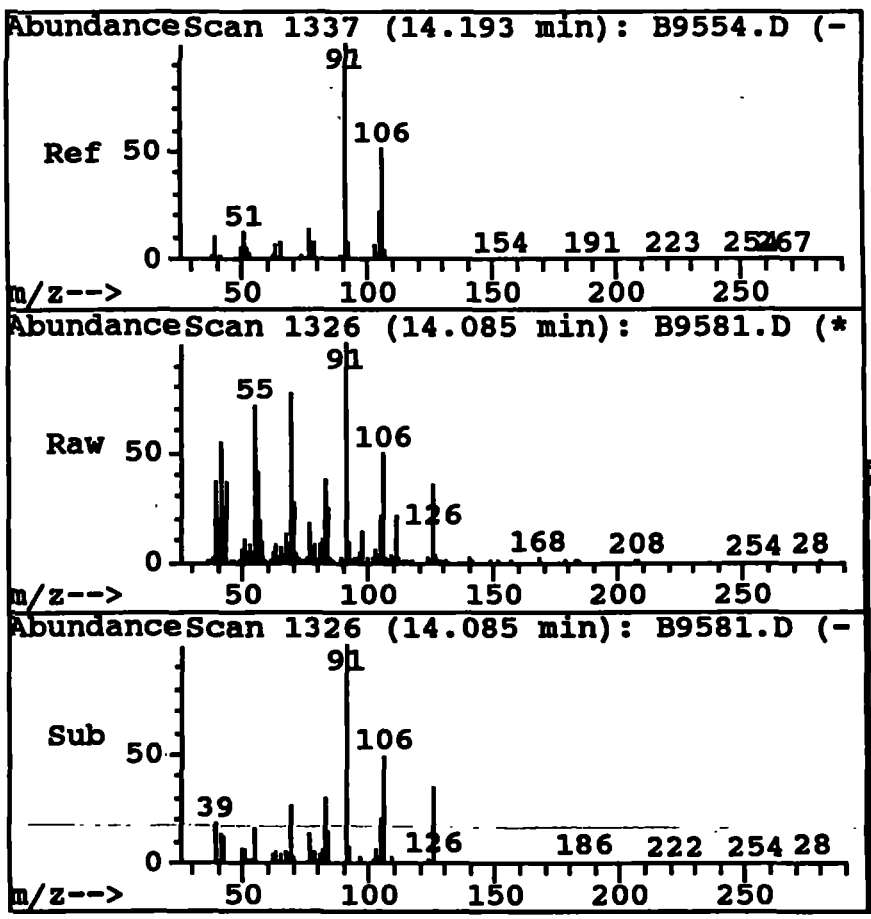


#67
Ethylbenzene
Concen: 1.67 ug/Kg
RT: 13.87 min Scan# 1304
Delta R.T. -0.10 min
Lab File: B9581.D
Acq: 2 Feb 102 4:44 pm

Tgt Ion:91 Resp: 12414

Ion	Ratio	Lower	Upper
91	100		
106	33.0	24.2	36.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

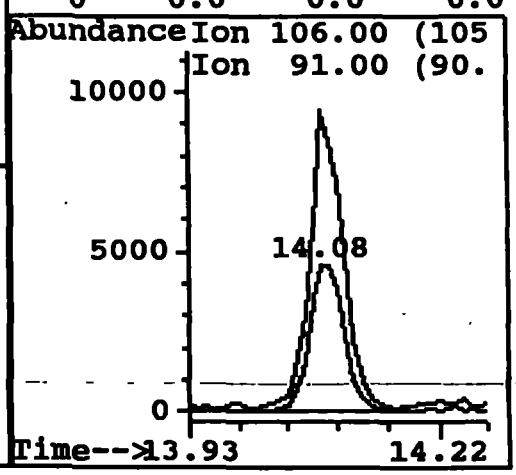


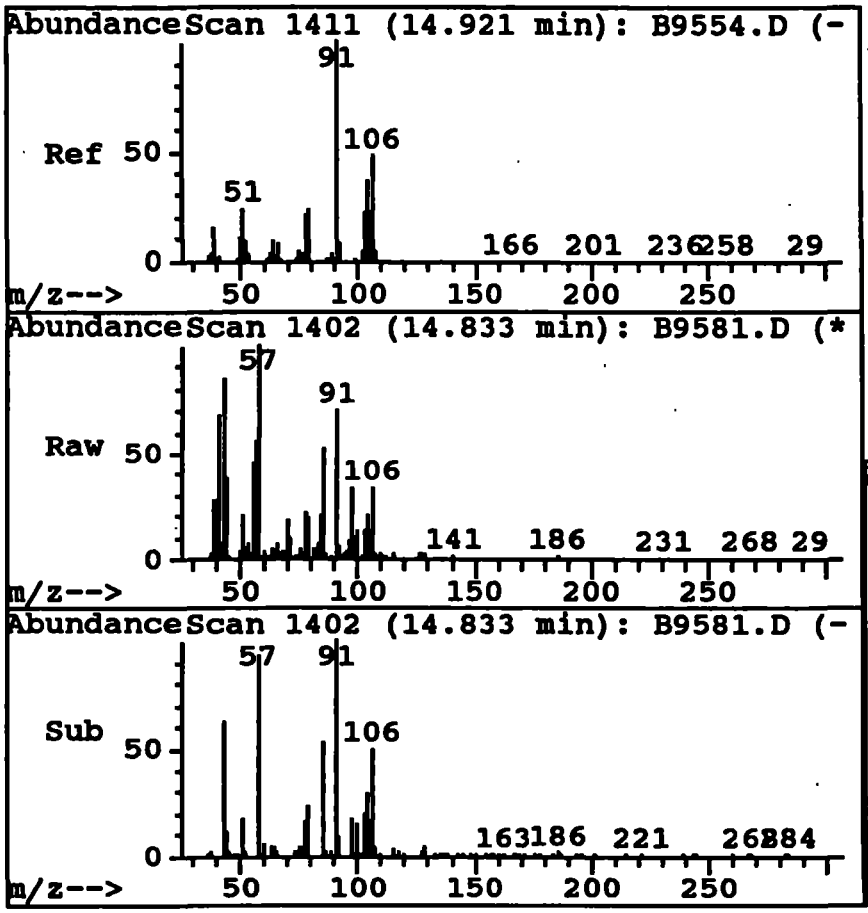


#68
(m+p)Xylene
Concen: 5.06 ug/Kg
RT: 14.08 min Scan# 1326
Delta R.T. -0.11 min
Lab File: B9581.D
Acq: 2 Feb 102 4:44 pm

Tgt Ion:106 Resp: 13790

Ion	Ratio	Lower	Upper
106	100		
91	205.9	154.0	230.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

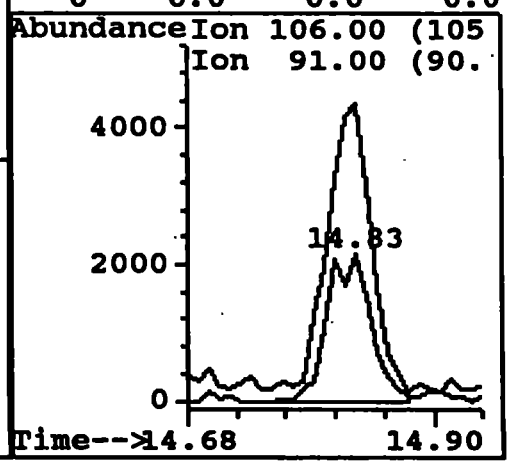


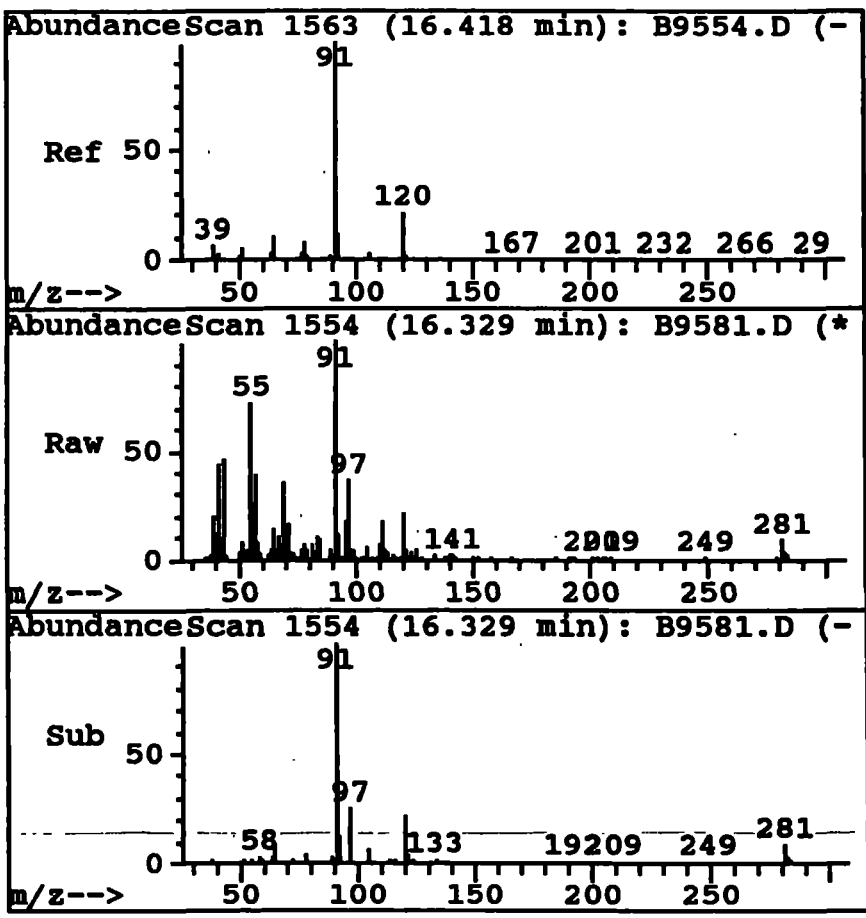


#69
o-Xylene
Concen: 2.26 ug/Kg
RT: 14.83 min Scan# 1402
Delta R.T. -0.09 min
Lab File: B9581.D
Acq: 2 Feb 102 4:44 pm

Tgt Ion:106 Resp: 6126

Ion	Ratio	Lower	Upper
106	100		
91	202.5	163.5	245.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

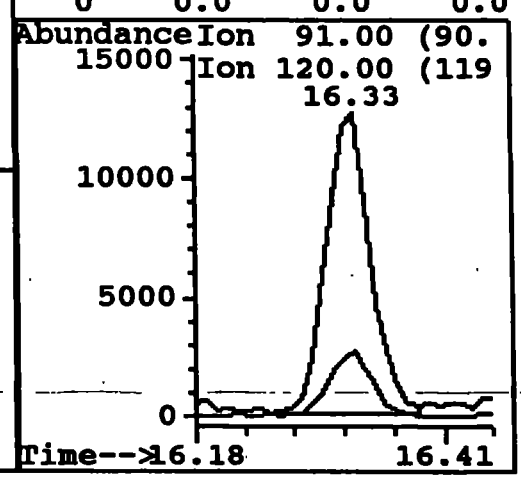


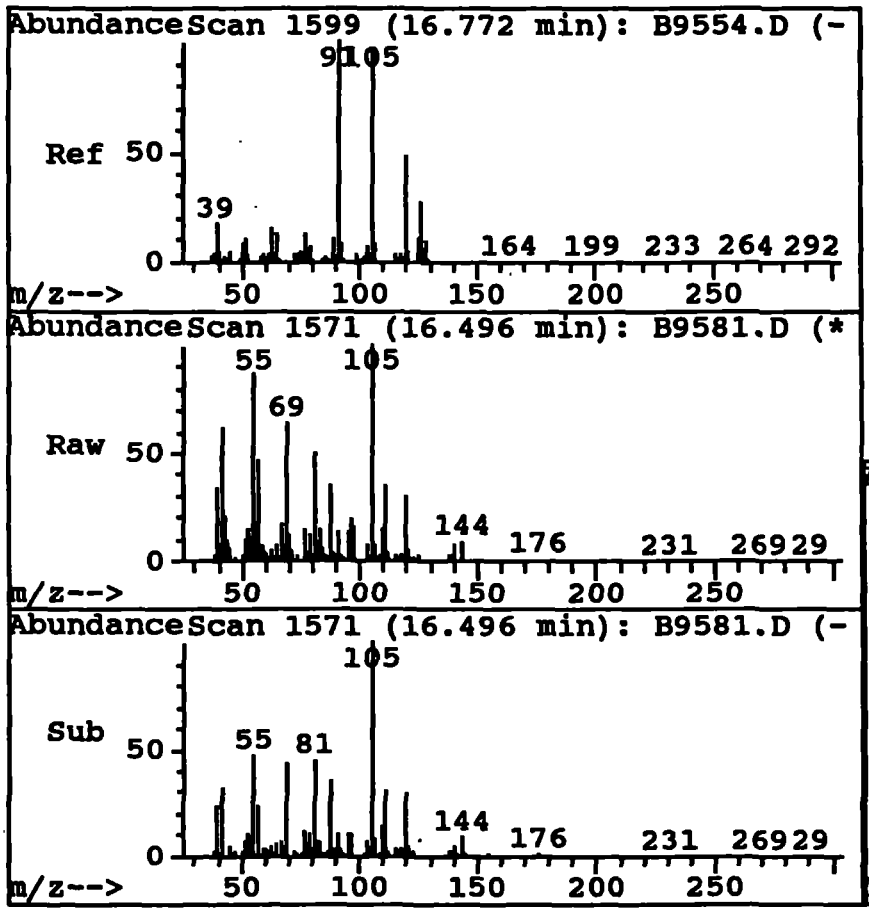


#78
n-Propylbenzene
Concen: 19.39 ug/Kg
RT: 16.33 min Scan# 1554
Delta R.T. -0.09 min
Lab File: B9581.D
Acq: 2 Feb 102 4:44 pm

Tgt Ion:91 Resp: 35709

Ion	Ratio	Lower	Upper
91	100		
120	21.4	16.8	25.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

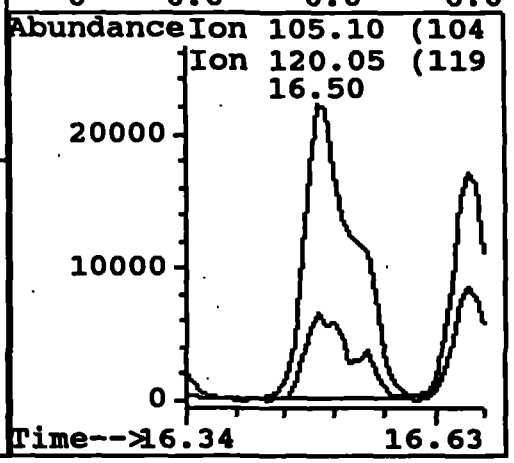


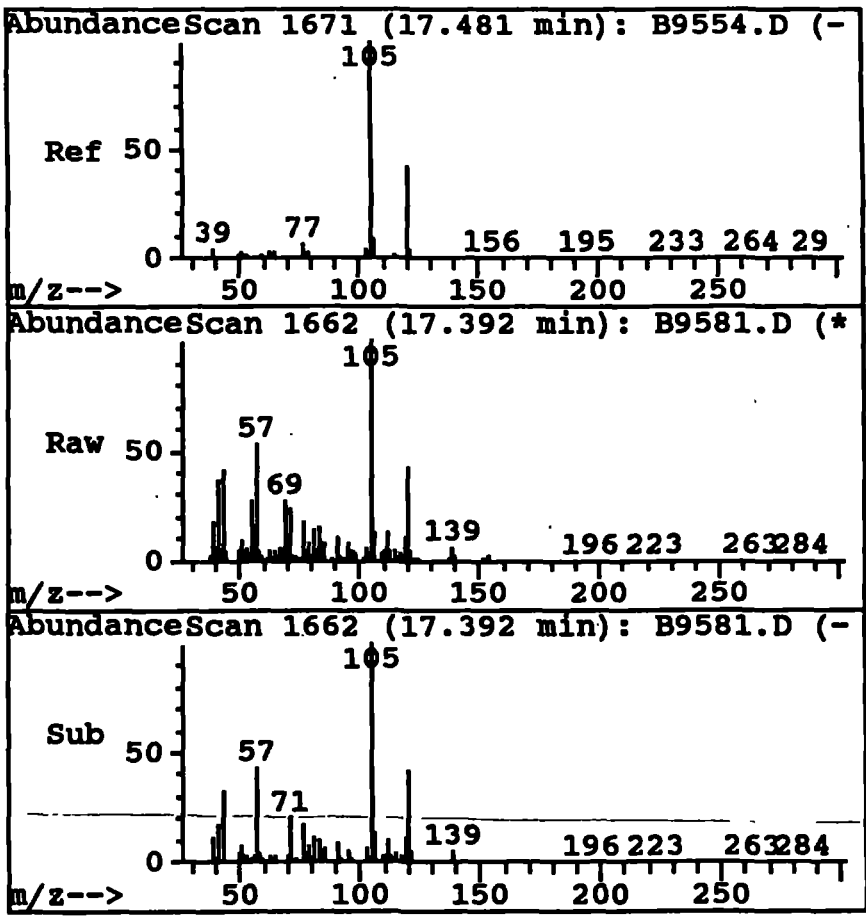


#80
1,3,5-Trimethylbenzene
Concen: 82.55 ug/Kg
RT: 16.50 min Scan# 1571
Delta R.T. -0.28 min
Lab File: B9581.D
Acq: 2 Feb 102 4:44 pm

Tgt Ion:105.1 Resp: 93805

Ion	Ratio	Lower	Upper
105	100		
120	29.6	20.6	30.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

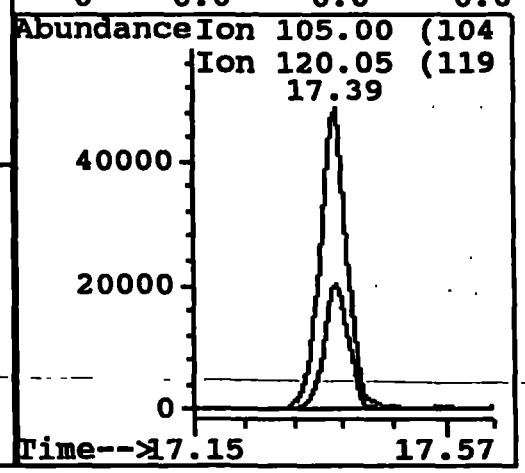


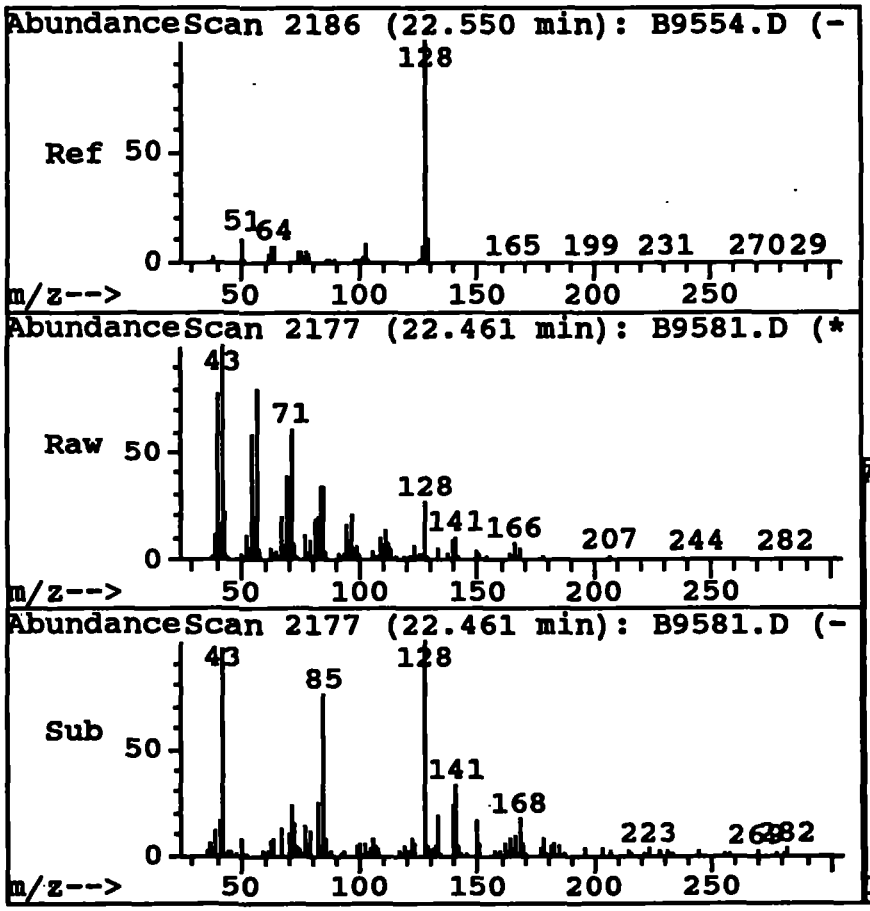


#84
1,2,4-Trimethylbenzene
Concen: 139.95 ug/Kg
RT: 17.39 min Scan# 1662
Delta R.T. -0.09 min
Lab File: B9581.D
Acq: 2 Feb 102 4:44 pm

Tgt Ion:105 Resp: 157680

Ion	Ratio	Lower	Upper
105	100		
120	41.8	35.9	53.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

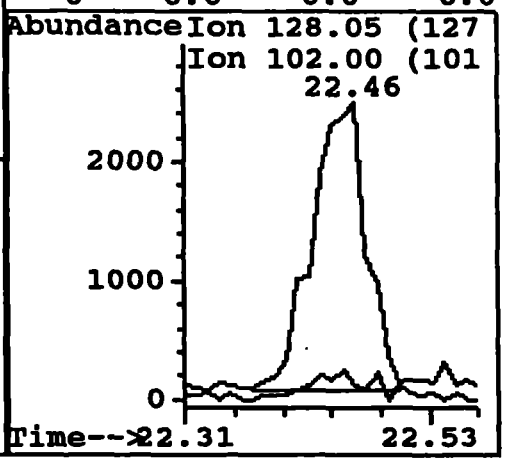




#95
Naphthalen
Concen: 9.14 ug/Kg
RT: 22.46 min Scan# 2177
Delta R.T. -0.09 min
Lab File: B9581.D
Acq: 2 Feb 102 4:44 pm

Tgt Ion:128.05 Resp: 7987

Ion	Ratio	Lower	Upper
128	100		
102	5.3	6.1	9.2#
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : HWSC-SLU

Date Sampled : 01/20/02 16:00 **Order #:** 526220 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 53.7

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/03/02			
ANALYTICAL DILUTION: 46.00			Dry Weight
ACETONE	20	1700 U	UG/KG
BENZENE	5.0	430 U	UG/KG
BROMODICHLOROMETHANE	5.0	430 U	UG/KG
BROMOFORM	5.0	430 U	UG/KG
BROMOMETHANE	5.0	430 U	UG/KG
2-BUTANONE (MEK)	10	860 U	UG/KG
CARBON DISULFIDE	10	860 U	UG/KG
CARBON TETRACHLORIDE	5.0	430 U	UG/KG
CHLOROBENZENE	5.0	430 U	UG/KG
CHLOROETHANE	5.0	430 U	UG/KG
CHLOROFORM	5.0	430 U	UG/KG
CHLOROMETHANE	5.0	430 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	430 U	UG/KG
1,1-DICHLOROETHANE	5.0	430 U	UG/KG
1,2-DICHLOROETHANE	5.0	430 U	UG/KG
1,1-DICHLOROETHENE	5.0	430 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
1,2-DICHLOROPROPANE	5.0	430 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	430 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	430 U	UG/KG
ETHYLBENZENE	5.0	430 U	UG/KG
2-HEXANONE	10	860 U	UG/KG
METHYLENE CHLORIDE	5.0	430 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	860 U	UG/KG
STYRENE	5.0	430 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	430 U	UG/KG
TETRACHLOROETHENE	5.0	430 U	UG/KG
TOLUENE	5.0	430 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	430 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	430 U	UG/KG
TRICHLOROETHENE	5.0	430 U	UG/KG
VINYL CHLORIDE	5.0	430 U	UG/KG
O-XYLENE	5.0	430 U	UG/KG
M+P-XYLENE	5.0	430 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	91	%
TOLUENE-D8	(71 - 128 %)	102	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	103	%

Quantitation Report (Not Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020302\Q7350.D Vial: 8
Acq On : 3 Feb 2002 2:45 pm Operator: TTRAVER
Sample : 526220 46.0 Inst : GC/MS Ins
Misc : TTEM R22-10416 8260B.TCLH Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 3 15:14 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.56	168	792836	50.00 ug/L	0.00
34) 1,4-Difluorobenzene	12.93	114	1188403	50.00 ug/L	0.01
58) d5-Chlorobenzene	18.20	117	988948	50.00 ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.52	152	497029	50.00 ug/L	0.00
System Monitoring Compounds					
35) surr4,Dibrflmethane	11.62	113	383823	51.60 ug/L	0.01
Spiked Amount 50.000			Recovery	= 103.20%	
52) SURR3,Toluene-d8	15.55	98	1187006	50.79 ug/L	0.00
Spiked Amount 50.000			Recovery	= 101.58%	
57) SURR2,BFB	20.34	95	446632	45.50 ug/L	0.00
Spiked Amount 50.000			Recovery	= 91.00%	
Target Compounds					Qvalue
12) Acetone	7.47	43	6709	3.10 ug/L	81
13) Iodomethane	~~7.71~~	~~142~~	~~3157~~	~~2.72 ug/L~~	~~86~~
18) TBA	~~8.55~~	~~59~~	~~1812~~	~~3.49 ug/L~~	~~97~~
27) 2-Butanone	~~10.76~~	~~43~~	~~4343~~	~~1.30 ug/L #~~	~~79~~
28) Propionitrile	~~10.95~~	~~54~~	~~2028~~	~~1.87 ug/L #~~	~~86~~
40) Iso-Butyl Alcohol	~~12.16~~	~~43~~	~~474~~	~~1.73 ug/L~~	~~93~~
45) 1,4-Dioxane	~~14.09~~	~~88~~	~~699~~	~~11.07 ug/L #~~	~~71~~
46) Methyl Methacrylate	~~13.93~~	~~69~~	~~1023~~	~~2.56 ug/L~~	~~87~~
90) 1,2-Dibromo-3-chloropropan	~~24.81~~	~~75~~	~~1283~~	~~1.12 ug/L #~~	~~22~~

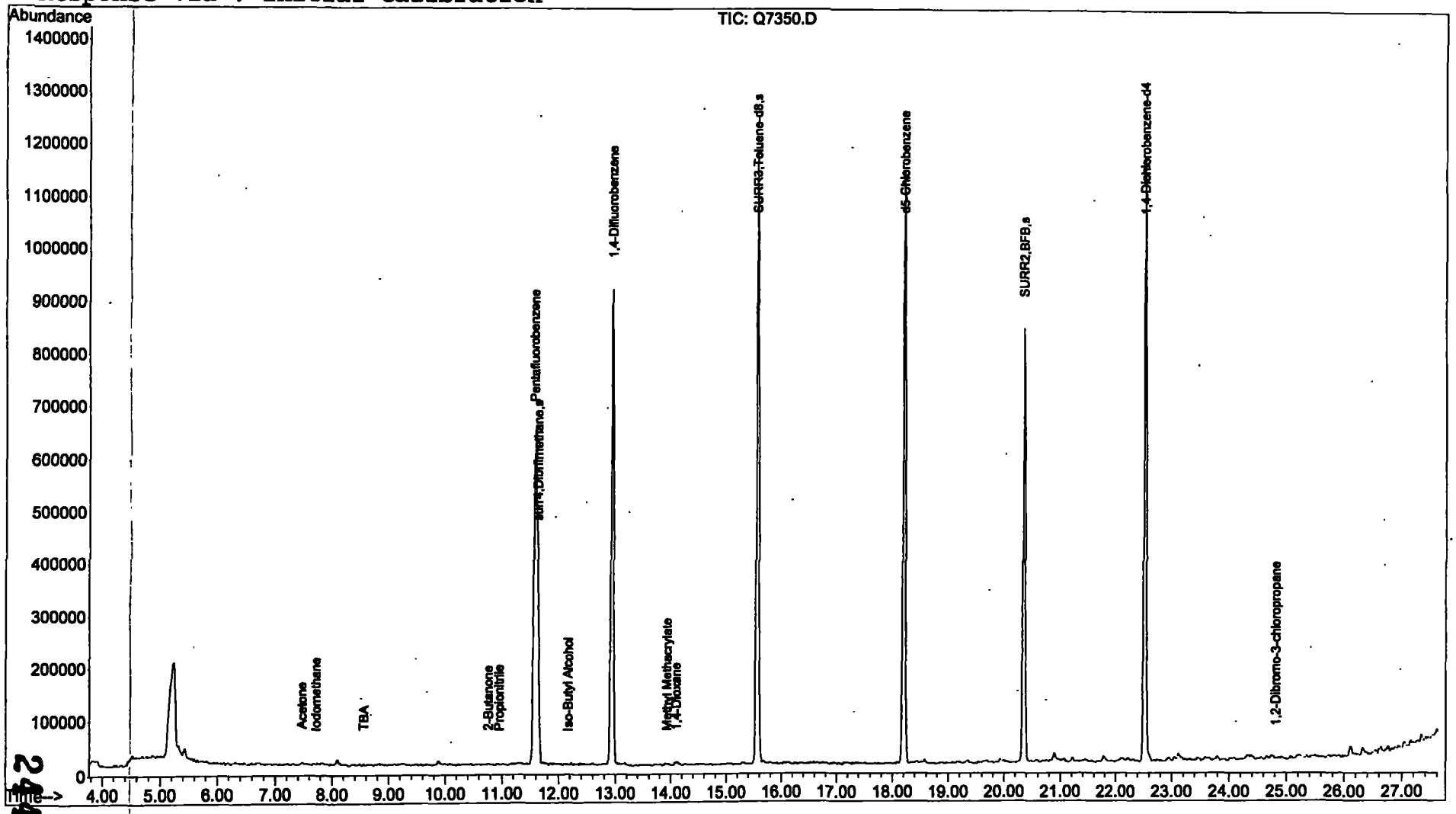
BA 2/4

(#) = qualifier out of range (m) = manual integration

Quantita' 'n Report

Data File : J:\ACQUDATA\MSVOA6\DATA\020302\Q7350.D Vial: 8
Acq On : 3 Feb 2002 2:45 pm Operator: TTRAVER
Sample : 526220 46.0 Inst : GC/MS Ins
Misc : TTEM R22-10416 8260B.TCLH Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 3 15:14 2002 Quant Results File: EXP0124.RES

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : BAC-SLU

Date Sampled : 01/20/02 17:00 **Order #:** 526221 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 74.8

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/02/02			
ANALYTICAL DILUTION: 3.82			Dry Weight
ACETONE	20	170	UG/KG
BENZENE	5.0	26 U	UG/KG
BROMODICHLOROMETHANE	5.0	26 U	UG/KG
BROMOFORM	5.0	26 U	UG/KG
BROMOMETHANE	5.0	26 U	UG/KG
2-BUTANONE (MEK)	10	29 J	UG/KG
CARBON DISULFIDE	10	51 U	UG/KG
CARBON TETRACHLORIDE	5.0	26 U	UG/KG
CHLOROBENZENE	5.0	26 U	UG/KG
CHLOROETHANE	5.0	26 U	UG/KG
CHLOROFORM	5.0	26 U	UG/KG
CHLOROMETHANE	5.0	26 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	26 U	UG/KG
1,1-DICHLOROETHANE	5.0	26 U	UG/KG
1,2-DICHLOROETHANE	5.0	26 U	UG/KG
1,1-DICHLOROETHENE	5.0	26 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	26 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	26 U	UG/KG
1,2-DICHLOROPROPANE	5.0	26 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	26 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	26 U	UG/KG
ETHYLBENZENE	5.0	26 U	UG/KG
2-HEXANONE	10	51 U	UG/KG
METHYLENE CHLORIDE	5.0	26 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	11 J	UG/KG
STYRENE	5.0	26 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	26 U	UG/KG
TETRACHLOROETHENE	5.0	26 U	UG/KG
TOLUENE	5.0	26 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	26 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	26 U	UG/KG
TRICHLOROETHENE	5.0	26 U	UG/KG
VINYL CHLORIDE	5.0	26 U	UG/KG
O-XYLENE	5.0	26 U	UG/KG
M+P-XYLENE	5.0	26 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	101	%
TOLUENE-D8	(71 - 128 %)	104	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	123	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9582.D
Acq On : 2 Feb 102 5:20 pm
Sample : 526221 3.82
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 17:48 19102

Vial: 13
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.33	168	682153	50.00 ug/Kg	-0.08
35) 1,4 - Difluorobenzene	8.52	114	1271972	50.00 ug/Kg	-0.08
52) d5 - Chlorobenzene	13.59	117	1094473	50.00 ug/Kg	-0.09
74) d4 - Dichlorobenzene	18.04	152	404630	50.00 ug/Kg	-0.09
System Monitoring Compounds					%Recovery
36) surr4,Dibrflmethane	7.21	113	375948	61.66 ug/Kg	123.32%
58) surr3,Toluene-d8	11.03	98	1299464	51.89 ug/Kg	103.78%
59) surr2,bfb	15.81	95	506161	50.60 ug/Kg	101.21%
Target Compounds					Qvalue
12) Acetone	3.70	43	56448	33.13 ug/Kg	93
23) Vinyl Acetate	5.74	43	24978	~~1.89 ug/Kg#~~	~~78~~
26) 2-Butanone	6.47	43	19970	5.71 ug/Kg	98 J
39) Iso-Butyl Alcohol	8.37	43	6964	~~12.12 ug/Kg~~	~~78~~
46) 1,4-Dioxane	9.28	88	406	~~5.20 ug/Kg~~	~~96~~
53) 4-Methyl-2-Pentanone	10.85	43	21754	2.13 ug/Kg	97 J

CP 2/3

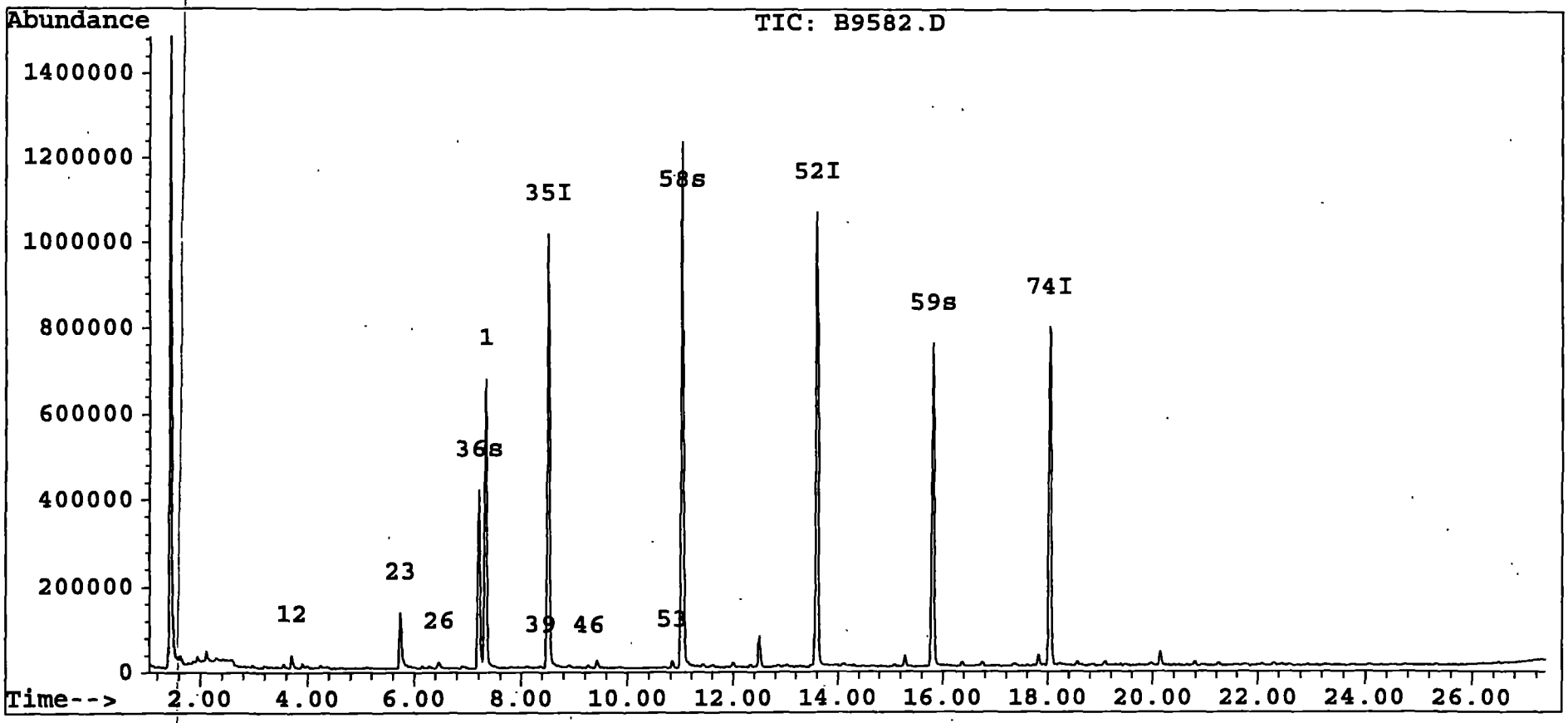
(#) = qualifier out of range (m) = manual integration

Quantitation Report

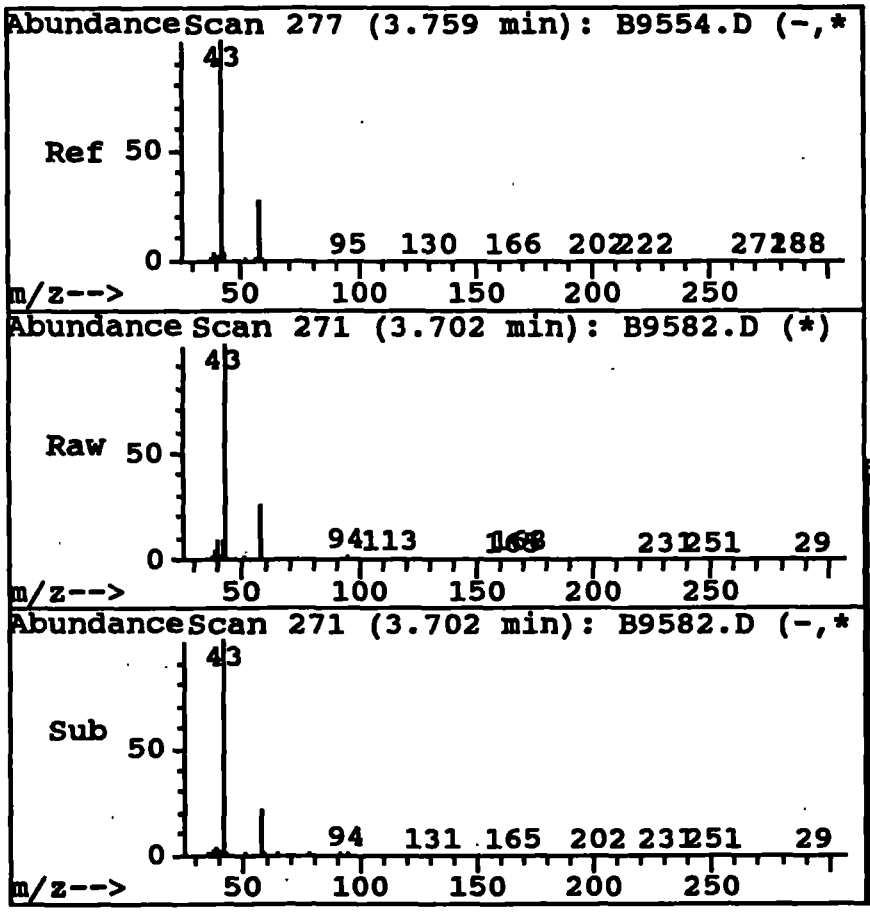
Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9582..
Acq On : 2 Feb 102 5:20 pm
Sample : 526221 3.82
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 17:48 19102

Vial: 13
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



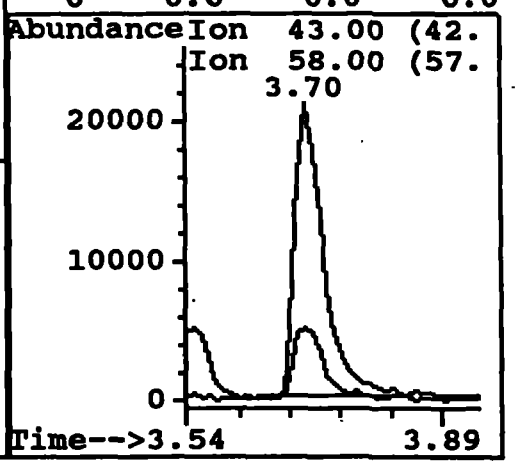
247

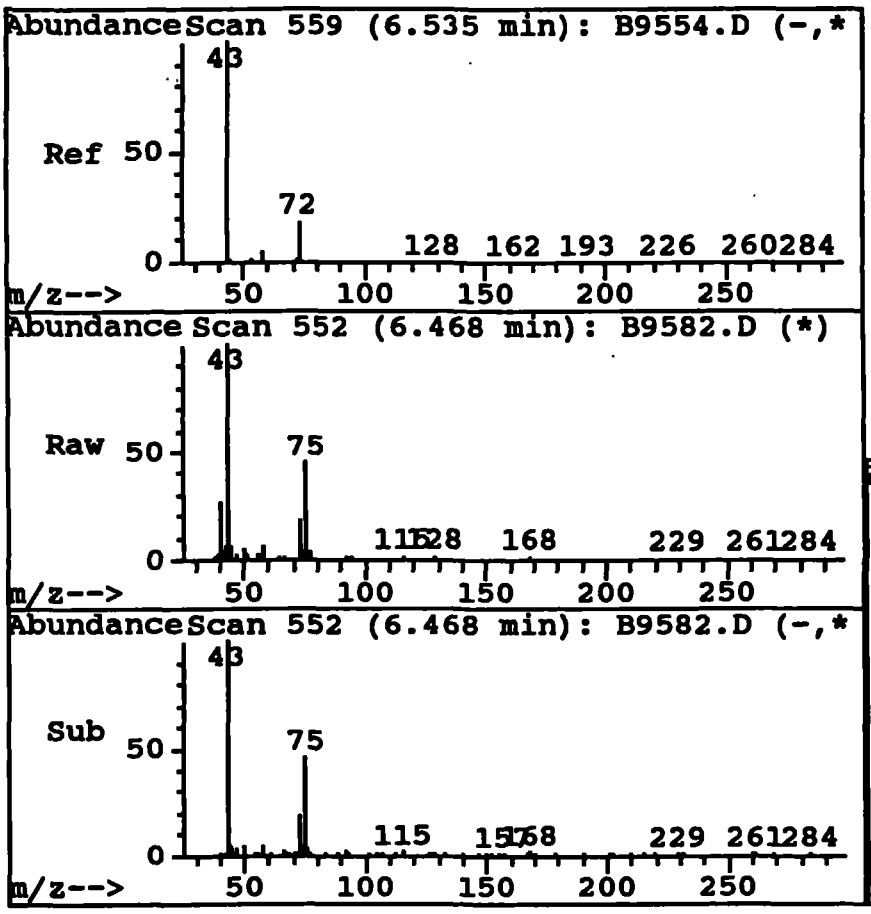


#12
Acetone
Concen: 33.13 ug/Kg
RT: 3.70 min Scan# 271
Delta R.T. -0.06 min
Lab File: B9582.D
Acq: 2 Feb 102 5:20 pm

Tgt Ion:43 Resp: 56448

Ion	Ratio	Lower	Upper
43	100		
58	24.6	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

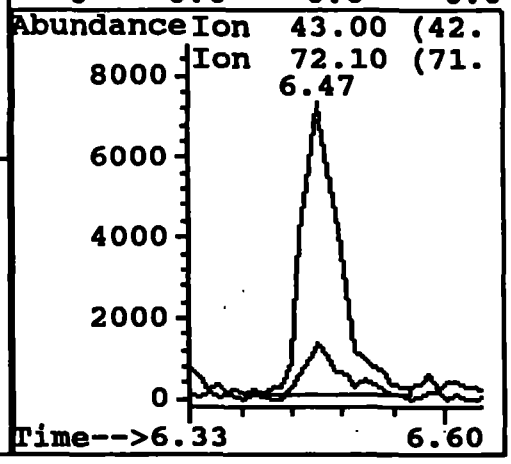


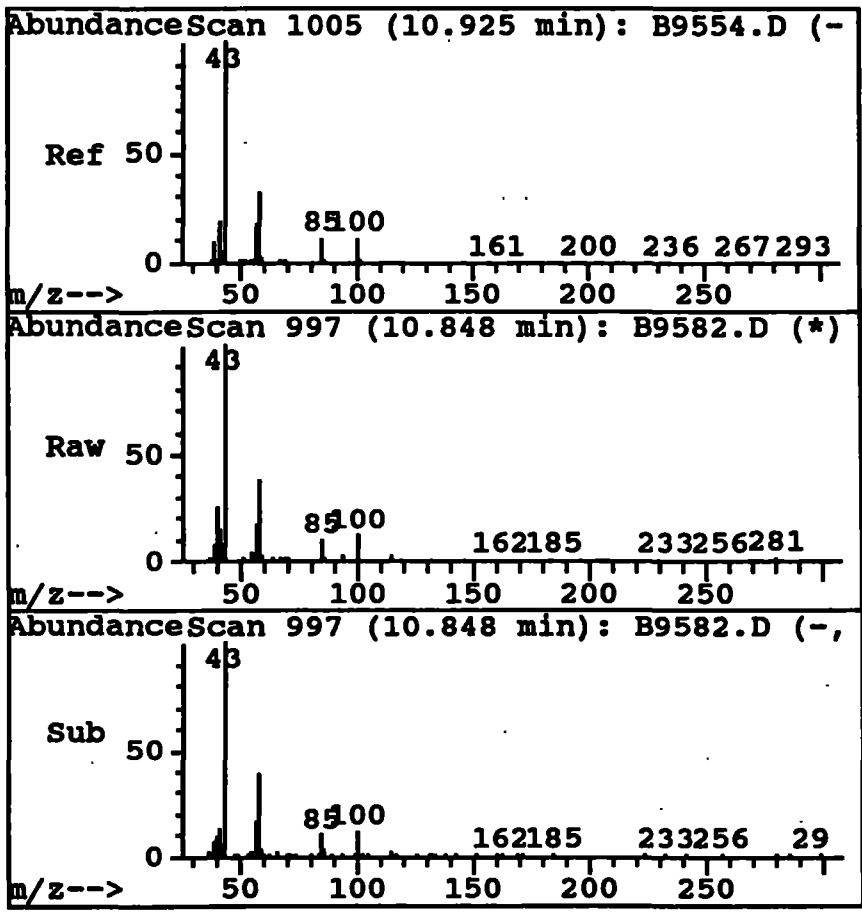


#26
2-Butanone
Concen: 5.71 ug/Kg
RT: 6.47 min Scan# 552
Delta R.T. -0.07 min
Lab File: B9582.D
Acq: 2 Feb 102 5:20 pm

Tgt Ion:43 Resp: 19970

Ion	Ratio	Lower	Upper
43	100		
72	18.3	14.5	24.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

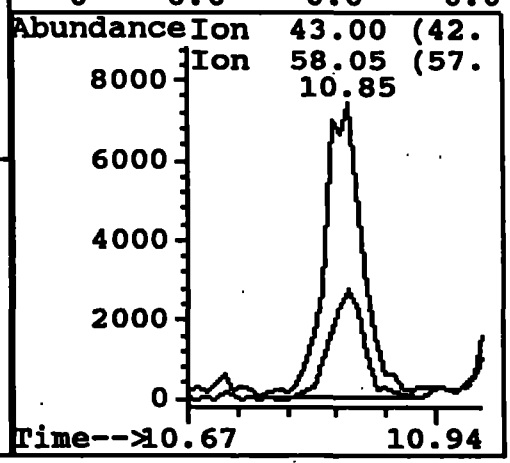




#53
4-Methyl-2-Pentanone
Concen: 2.13 ug/Kg
RT: 10.85 min Scan# 997
Delta R.T. -0.08 min
Lab File: B9582.D
Acq: 2 Feb 102 5:20 pm

Tgt Ion:43 Resp: 21754

Ion	Ratio	Lower	Upper
43	100		
58	37.8	27.0	44.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : SI-S-4-10/14

Date Sampled : 01/20/02 12:15 **Order #:** 526222 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 84.8

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/02/02			
ANALYTICAL DILUTION: 0.73			Dry Weight
ACETONE	20	5.7 J	UG/KG
BENZENE	5.0	4.3 U	UG/KG
BROMODICHLOROMETHANE	5.0	4.3 U	UG/KG
BROMOFORM	5.0	4.3 U	UG/KG
BROMOMETHANE	5.0	4.3 U	UG/KG
2-BUTANONE (MEK)	10	8.6 U	UG/KG
CARBON DISULFIDE	10	8.6 U	UG/KG
CARBON TETRACHLORIDE	5.0	4.3 U	UG/KG
CHLOROBENZENE	5.0	4.3 U	UG/KG
CHLOROETHANE	5.0	4.3 U	UG/KG
CHLOROFORM	5.0	4.3 U	UG/KG
CHLOROMETHANE	5.0	4.3 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	4.3 U	UG/KG
1,1-DICHLOROETHANE	5.0	4.3 U	UG/KG
1,2-DICHLOROETHANE	5.0	4.3 U	UG/KG
1,1-DICHLOROETHENE	5.0	4.3 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	4.3 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	4.3 U	UG/KG
1,2-DICHLOROPROPANE	5.0	4.3 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	4.3 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	4.3 U	UG/KG
ETHYLBENZENE	5.0	4.3 U	UG/KG
2-HEXANONE	10	8.6 U	UG/KG
METHYLENE CHLORIDE	5.0	4.3 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	8.6 U	UG/KG
STYRENE	5.0	4.3 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	4.3 U	UG/KG
TETRACHLOROETHENE	5.0	4.3 U	UG/KG
TOLUENE	5.0	4.3 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	4.3 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	4.3 U	UG/KG
TRICHLOROETHENE	5.0	4.3 U	UG/KG
VINYL CHLORIDE	5.0	4.3 U	UG/KG
O-XYLENE	5.0	4.3 U	UG/KG
M+P-XYLENE	5.0	4.3 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	103	%
TOLUENE-D8	(71 - 128 %)	100	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	116	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9583.D Vial: 14
Acq On : 2 Feb 102 5:57 pm Operator: TTRAVER
Sample : 526222 0.73 Inst : 5971 - In
Misc : TTEM R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 2 18:25 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.34	168	795652	50.00 ug/Kg	-0.08
35) 1,4 - Difluorobenzene	8.52	114	1515270	50.00 ug/Kg	-0.08
52) d5 - Chlorobenzene	13.60	117	1271003	50.00 ug/Kg	-0.09
74) d4 - Dichlorobenzene	18.04	152	493899	50.00 ug/Kg	-0.09
System Monitoring Compounds					%Recovery
36) surr4,Dibrflmethane	7.22	113	421700	58.06 ug/Kg	116.12%
58) surr3,Toluene-d8	11.03	98	1456386	50.08 ug/Kg	100.16%
59) surr2,bfb	15.81	95	599997	51.65 ug/Kg	103.31%
Target Compounds					Qvalue
12) Acetone	3.71	43	12982	6.53 ug/Kg	99 J
26) 2-Butanone	6.60	43	218011	~~53.45 ug/Kg#~~	~~58~~
39) Iso-Butyl Alcohol	8.37	43	3709	~~5.42 ug/Kg~~	~~86~~
46) 1,4-Dioxane	9.58	88	397	~~4.27 ug/Kg~~	~~86~~

P2/3

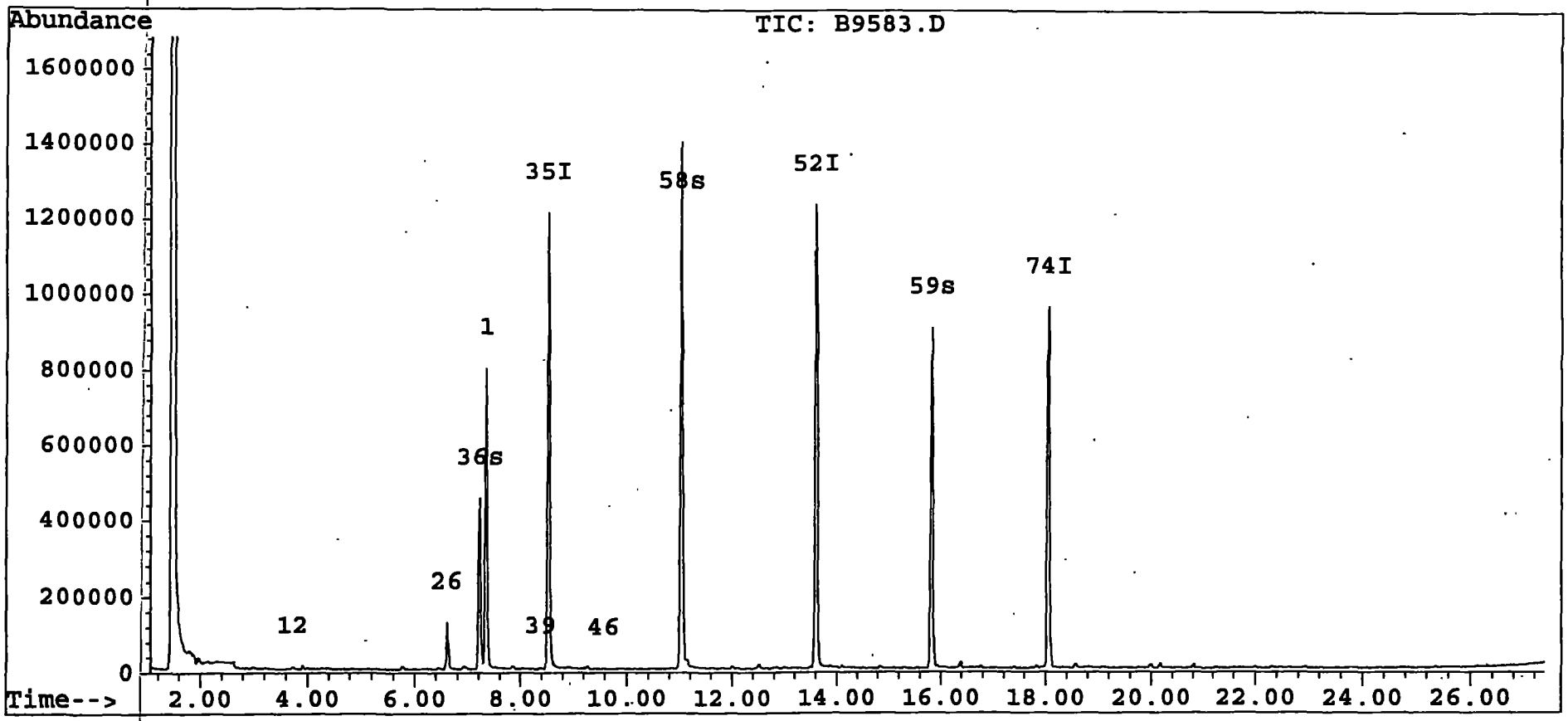
(#) = qualifier out of range (m) = manual integration

Quantita' 'n Report

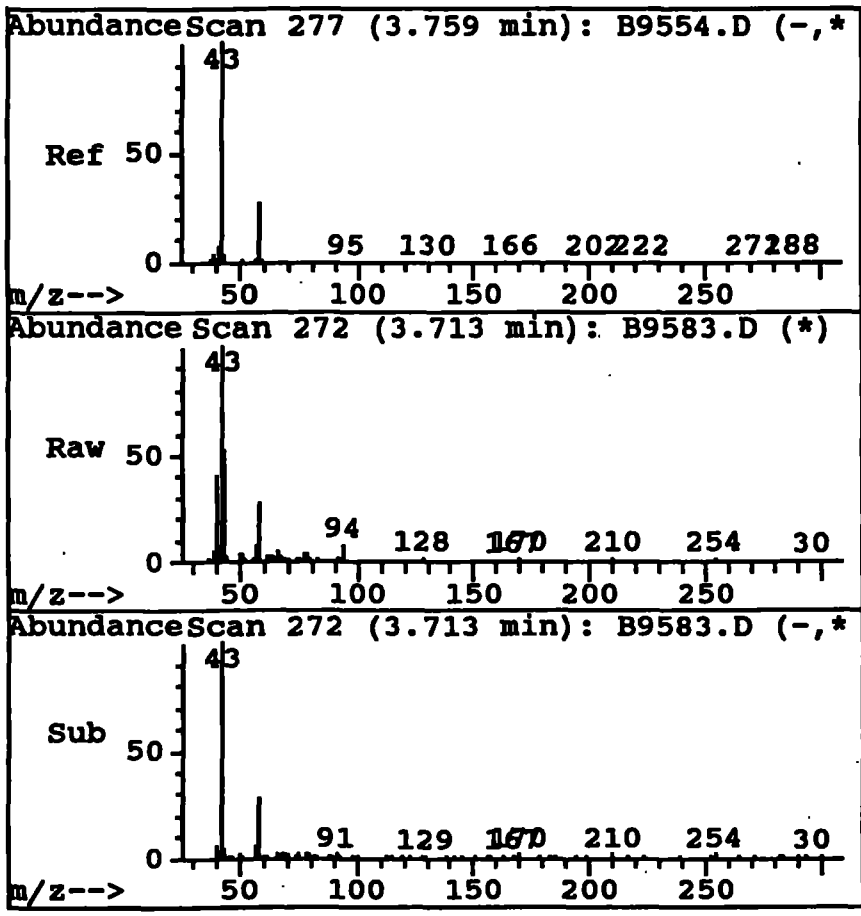
Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9583.D
Acq On : 2 Feb 102 5:57 pm
Sample : 526222 0.73
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 18:25 19102

Vial: 14
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



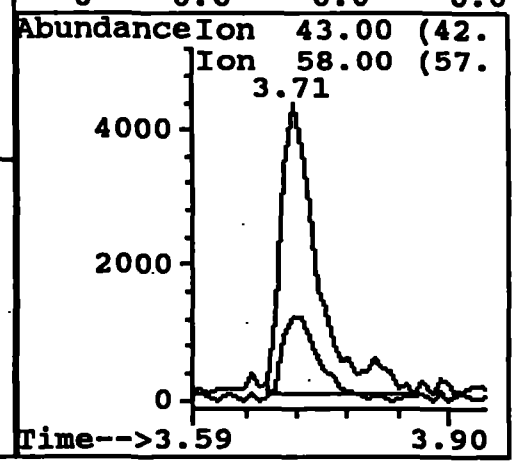
253



#12
Acetone
Concen: 6.53 ug/Kg
RT: 3.71 min Scan# 272
Delta R.T. -0.05 min
Lab File: B9583.D
Acq: 2 Feb 102 5:57 pm

Tgt Ion:43 Resp: 12982

Ion	Ratio	Lower	Upper
43	100		
58	28.0	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : SMWB-SLU

Date Sampled : 01/19/02 15:45 **Order #:** 526223 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 31.8

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/02/02			
ANALYTICAL DILUTION: 4.90			Dry Weight
ACETONE	20	18000 E	UG/KG
BENZENE	5.0	77 U	UG/KG
BROMODICHLOROMETHANE	5.0	77 U	UG/KG
BROMOFORM	5.0	77 U	UG/KG
BROMOMETHANE	5.0	77 U	UG/KG
2-BUTANONE (MEK)	10	2900	UG/KG
CARBON DISULFIDE	10	2500	UG/KG
CARBON TETRACHLORIDE	5.0	77 U	UG/KG
CHLOROBENZENE	5.0	150	UG/KG
CHLOROETHANE	5.0	77 U	UG/KG
CHLOROFORM	5.0	77 U	UG/KG
CHLOROMETHANE	5.0	190	UG/KG
DIBROMOCHLOROMETHANE	5.0	77 U	UG/KG
1,1-DICHLOROETHANE	5.0	77 U	UG/KG
1,2-DICHLOROETHANE	5.0	77 U	UG/KG
1,1-DICHLOROETHENE	5.0	77 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	77 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	77 U	UG/KG
1,2-DICHLOROPROPANE	5.0	77 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	77 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	77 U	UG/KG
ETHYLBENZENE	5.0	82	UG/KG
2-HEXANONE	10	820	UG/KG
METHYLENE CHLORIDE	5.0	77 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	12000 E	UG/KG
STYRENE	5.0	77 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	77 U	UG/KG
TETRACHLOROETHENE	5.0	77 U	UG/KG
TOLUENE	5.0	190	UG/KG
1,1,1-TRICHLOROETHANE	5.0	77 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	77 U	UG/KG
TRICHLOROETHENE	5.0	77 U	UG/KG
VINYL CHLORIDE	5.0	77 U	UG/KG
O-XYLENE	5.0	97	UG/KG
M+P-XYLENE	5.0	310	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	57	%
TOLUENE-D8	(71 - 128 %)	154 *	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	135 *	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9578.D Vial: 9
Acq On : 2 Feb 102 2:53 pm Operator: TTRAVER
Sample : 526223 4.9 Inst : 5971 - In
Misc : TTEM R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 3 9:07 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

R 2/3

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.32	168	441370	50.00 ug/Kg	-0.09
35) 1,4 - Difluorobenzene	8.50	114	856734	50.00 ug/Kg	-0.09
52) d5 - Chlorobenzene	13.59	117	358641	50.00 ug/Kg	-0.09*
74) d4 - Dichlorobenzene	18.03	152	27188	50.00 ug/Kg	-0.10*
System Monitoring Compounds					%Recovery
36) surr4,Dibrflmethane	7.20	113	276379	67.30 ug/Kg	134.60%*
58) surr3,Toluene-d8	11.01	98	630685	76.86 ug/Kg	153.71%*
59) surr2,bfb	15.80	95	93107	28.41 ug/Kg	56.81%
Target Compounds					Qvalue
3) Chloromethane	1.94	50	120394	12.55 ug/Kgm	96
9) Acrolein	3.65	56	11775	~~30.89 ug/Kg~~	~~86~~
12) Acetone	3.69	43	1303745	1182.64 ug/Kg	98 E
14) Carbon Disulfide	3.90	76	2285590	159.62 ug/Kg	100
15) Acetonitrile	4.23	41	12420	~~118.04 ug/Kg~~	~~92~~
16) Allyl Chloride	3.90	76	2277850	~~1032.16 ug/Kg#~~	~~1~~
18) TBA	4.61	59	60862	149.56 ug/Kg#	1 NT
19) Acrylonitrile	4.81	53	2836	~~2.10 ug/Kg#~~	~~22~~
23) Vinyl Acetate	5.27	43	1279513	~~149.84 ug/Kg#~~	~~50~~
26) 2-Butanone	6.45	43	422726	186.83 ug/Kg	100
39) Iso-Butyl Alcohol	8.36	43	1470846	~~3800.63 ug/Kg~~	~~96~~
42) N-Heptane	8.36	43	1532039	198.24 ug/Kg	98 NT
45) Methyl Methacrylate	9.58	69	11054	~~3.30 ug/Kg#~~	~~86~~
46) 1,4-Dioxane	9.57	88	658	~~12.52 ug/Kg#~~	~~1~~
49) 2-Nitropropane	10.00	43	683225	~~484.51 ug/Kg~~	~~94~~
53) 4-Methyl-2-Pentanone	10.84	43	2637605	789.66 ug/Kg	99 E
54) Toluene	11.13	91	134685	12.50 ug/Kg	96
56) Ethyl Methacrylate	11.78	69	15220	~~4.79 ug/Kg#~~	~~66~~
61) 2-Hexanone	12.31	43	124936	52.20 ug/Kg#	83
65) Chlorobenzene	14.03	112	68818	9.65 ug/Kg#	43
67) Ethylbenzene	13.87	91	60923	5.28 ug/Kg	95
68) (m+p)Xylene	14.08	106	84154	19.89 ug/Kg	97
69) o-Xylene	14.82	106	26938	6.39 ug/Kg	96
72) Isopropylbenzene	15.53	105	23548	~~2.15 ug/Kg~~	~~98~~
75) 1,1,2,2-Tetrachloroethane	16.12	83	47351	~~76.40 ug/Kg#~~	~~73~~
76) Trans-1,4-Dichloro-2-buten	16.27	53	21588	~~126.26 ug/Kg#~~	~~1~~
77) 1,2,3-Trichloropropane	16.12	110	7346	~~42.23 ug/Kg#~~	~~1~~
78) n-Propylbenzene	16.32	91	59945	~~25.16 ug/Kg~~	~~95~~
80) 1,3,5-Trimethylbenzene	16.50	105	183590	124.88 ug/Kg	91 NT
81) 2-Chlorotoluene	16.50	91	17316	~~12.18 ug/Kg#~~	~~58~~
~~82) 4-Chlorotoluene~~	~~16.67~~	~~91~~	~~9702~~	~~6.17 ug/Kg#~~	~~65~~
83) tert-Butylbenzene	17.39	119	22697	~~16.97 ug/Kg~~	~~86~~
84) 1,2,4-Trimethylbenzene	17.38	105	212755	145.96 ug/Kg	98 NT

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9578.D Vial: 9
Acq On : 2 Feb 102 2:53 pm Operator: TTRAVER
Sample : 526223 4.9 Inst : 5971 - In
Misc : TTEM R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 3 9:07 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) sec-Butylbenzene	17.72	105	31583	~~14.83 ug/Kg~~	~~93~~
86) p-Isopropyltoluene	17.29	119	2910	~~2.18 ug/Kg#~~	~~64~~
87) 1,3-Dclbenz	17.87	146	3855	~~5.01 ug/Kg#~~	1
88) 1,4-Dclbenz	18.07	146	1666	~~2.01 ug/Kg#~~	~~1~~
89) n-Butylbenzene	18.81	91	59245	~~28.05 ug/Kg#~~	80
90) 1,2-Dclbenz	18.79	146	1494	~~1.95 ug/Kg#~~	~~1~~
91) 1,2-Dibromo-3-chloropropan	20.32	157	203	~~2.18 ug/Kg#~~	~~1~~
92) Nitrobenzene	20.66	77	2074	~~52.51 ug/Kg#~~	~~1~~
93) 1,2,4-Tcbenzene	21.97	180	934	~~2.05 ug/Kg~~	~~100~~
95) Naphthalen	22.44	128	30613	32.29 ug/Kg	97 NT
96) 1,2,3-Tclbenzene	22.94	180	2080	~~5.16 ug/Kg~~	~~98~~

C2/3

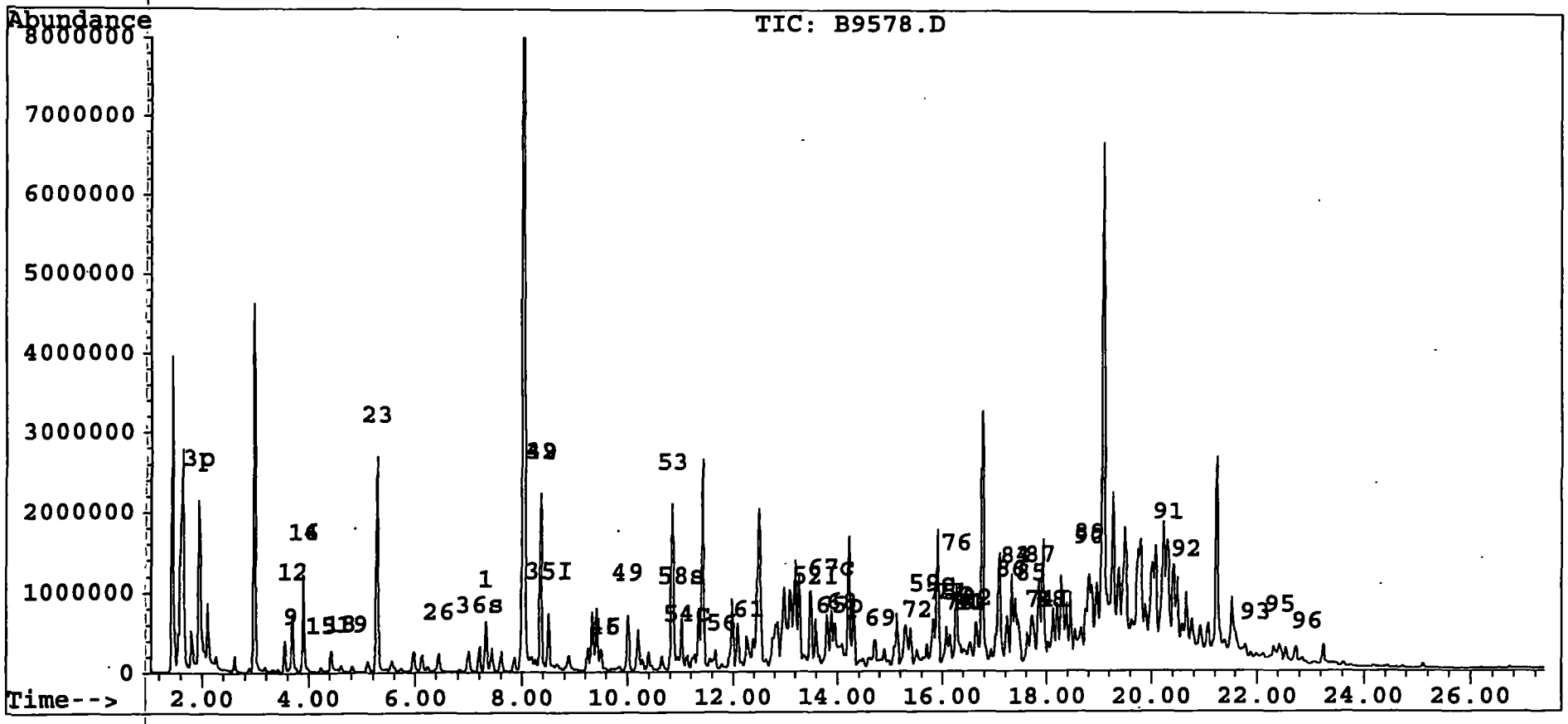
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9578.D
Acq On : 2 Feb 102 2:53 pm
Sample : 526223 4.9
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 3 9:07 19102

Vial: 9
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



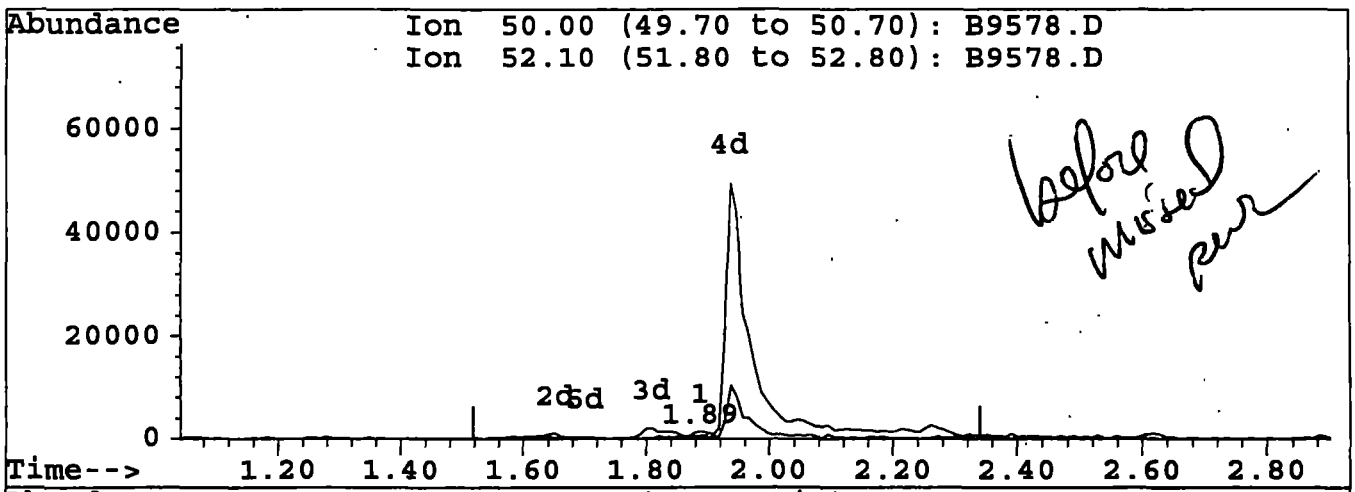
258

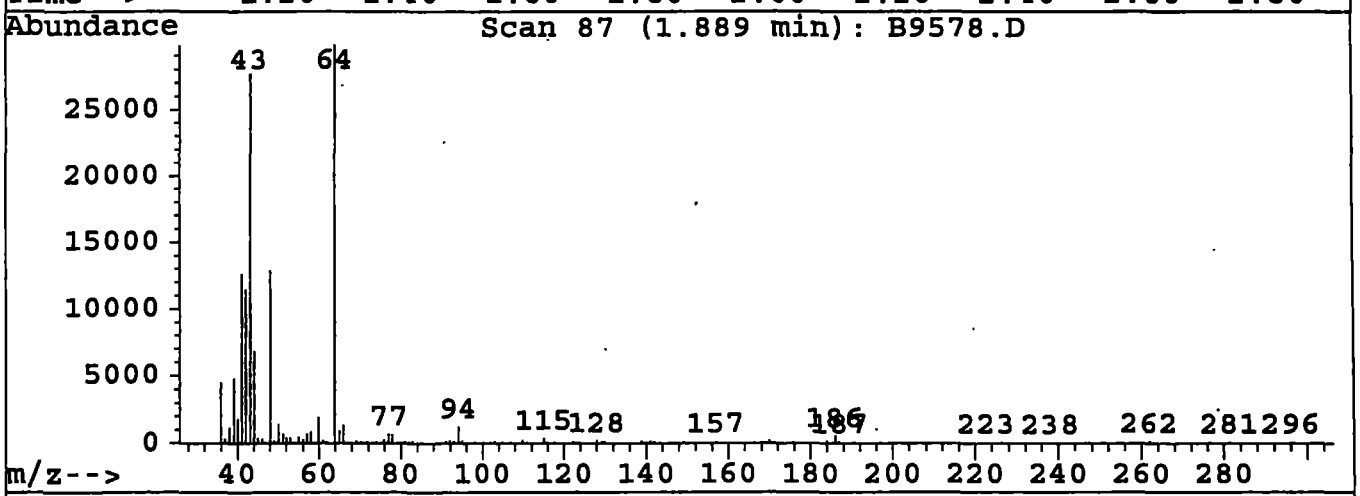
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9578.D
Acq On : 2 Feb 102 2:53 pm
Sample : 526223 4.9
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 15:21 19102

Vial: 9
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration





TIC: B9578.D

(3) Chloromethane (p)
1.89min 0.11ug/Kg
response 1016

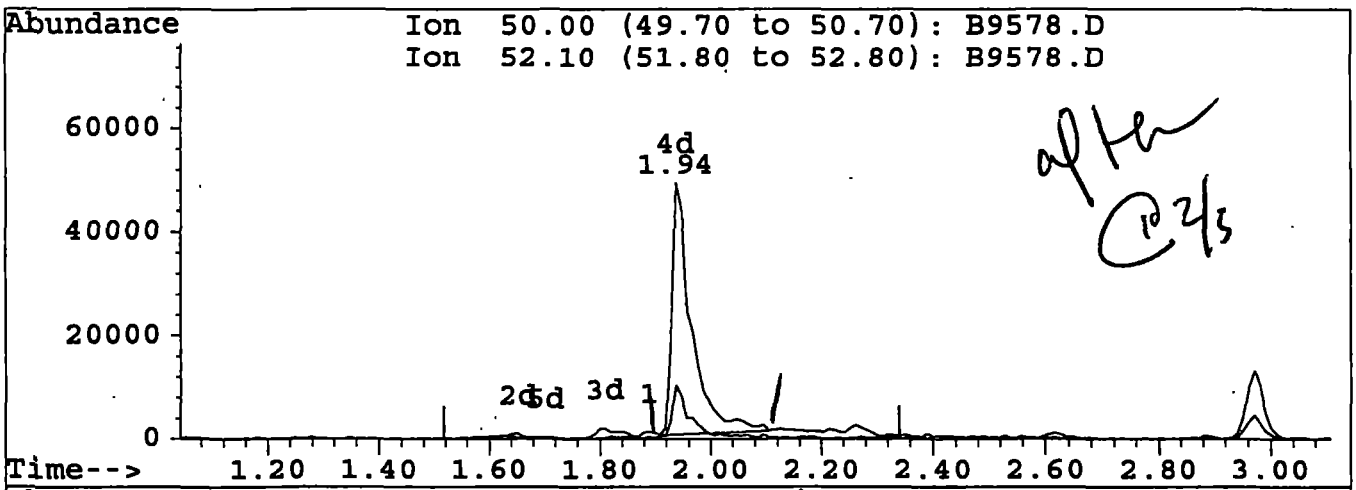
Ion	Exp%	Act%
50.00	100	100
52.10	32.00	29.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

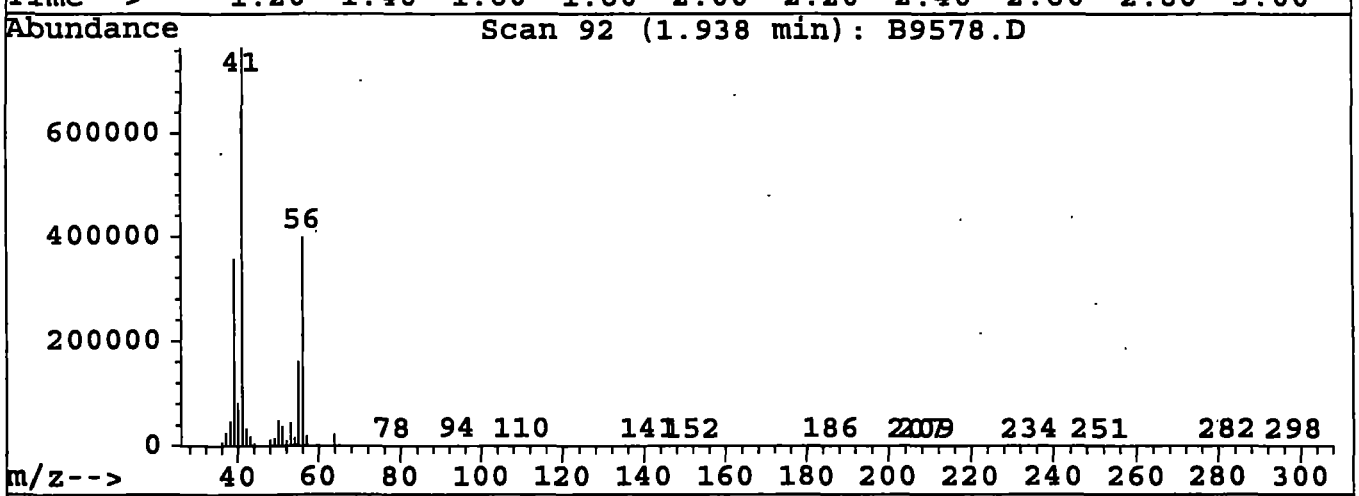
Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9578.D
Acq On : 2 Feb 102 2:53 pm
Sample : 526223 4.9
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 3 9:07 19102

Vial: 9
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



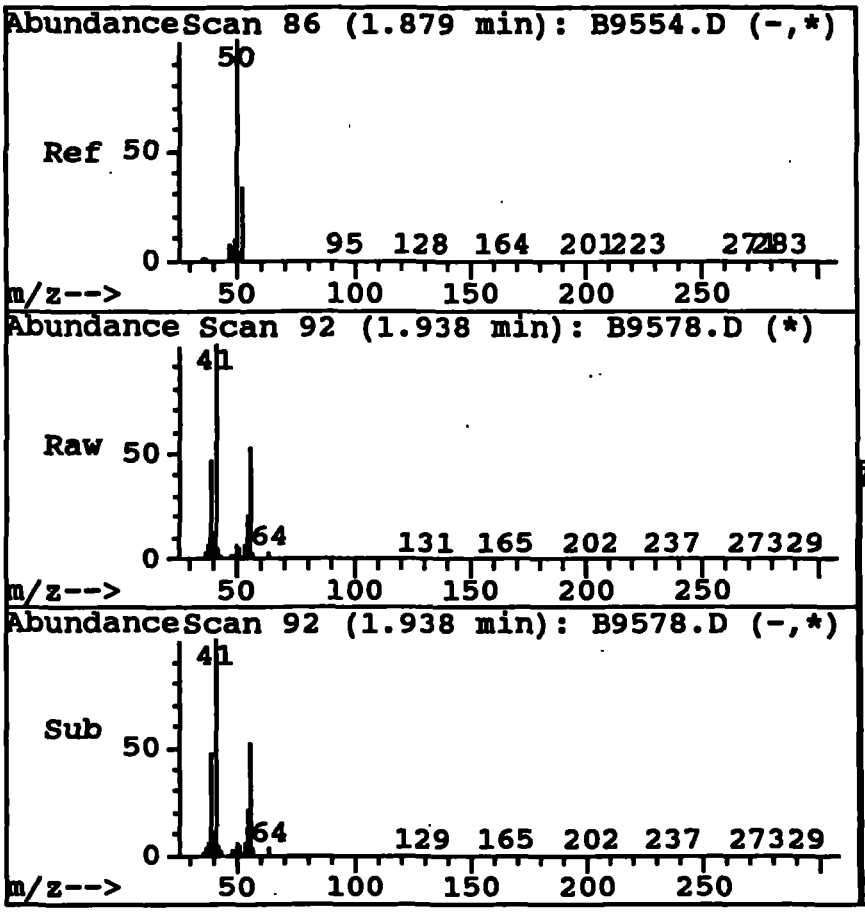
after @ 2/3



TIC: B9578.D

(3) Chloromethane (p)
1.94min 12.55ug/Kg m
response 120394

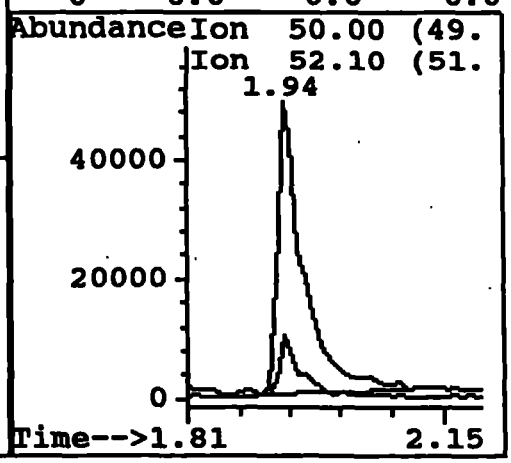
Ion	Exp%	Act%
50.00	100	100
52.10	32.00	21.13
0.00	0.00	0.00
0.00	0.00	0.00

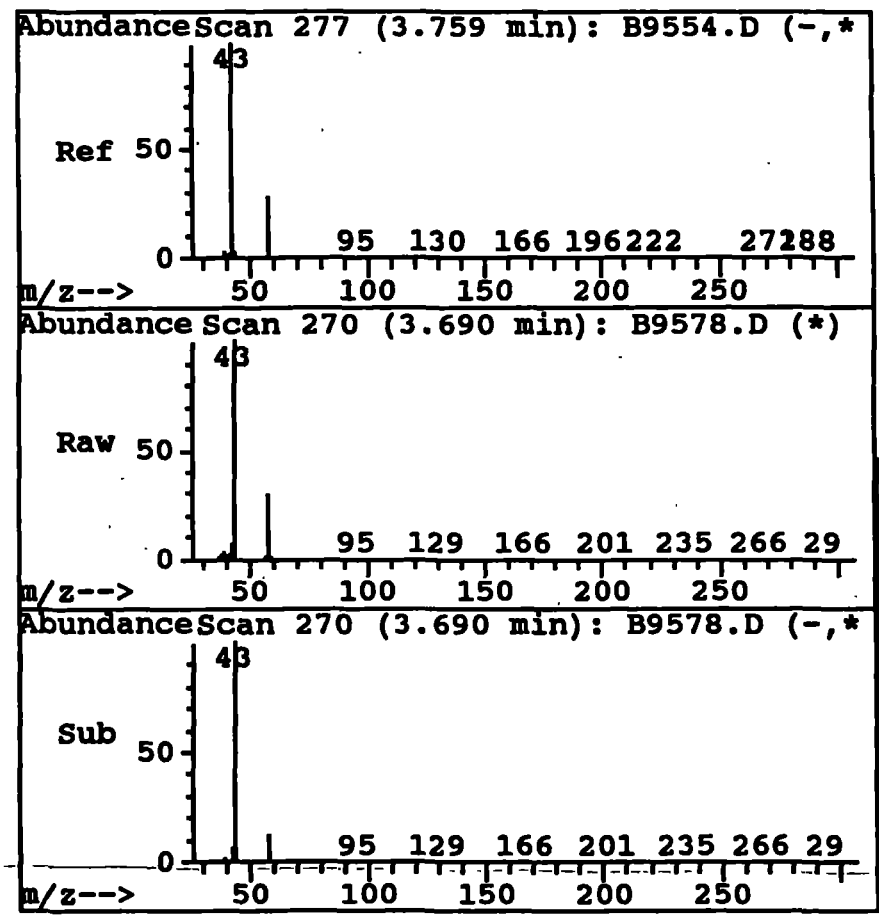


#3
Chloromethane
Concen: 12.55 ug/Kg m
RT: 1.94 min Scan# 92
Delta R.T. 0.06 min
Lab File: B9578.D
Acq: 2 Feb 102 2:53 pm

Tgt Ion:50 Resp: 120394

Ion	Ratio	Lower	Upper
50	100		
52	21.1	25.7	38.5#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

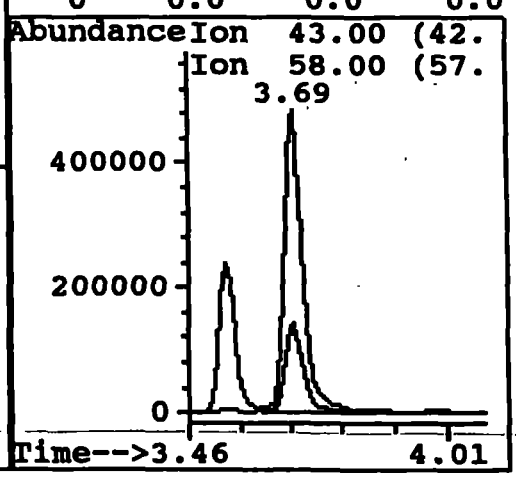


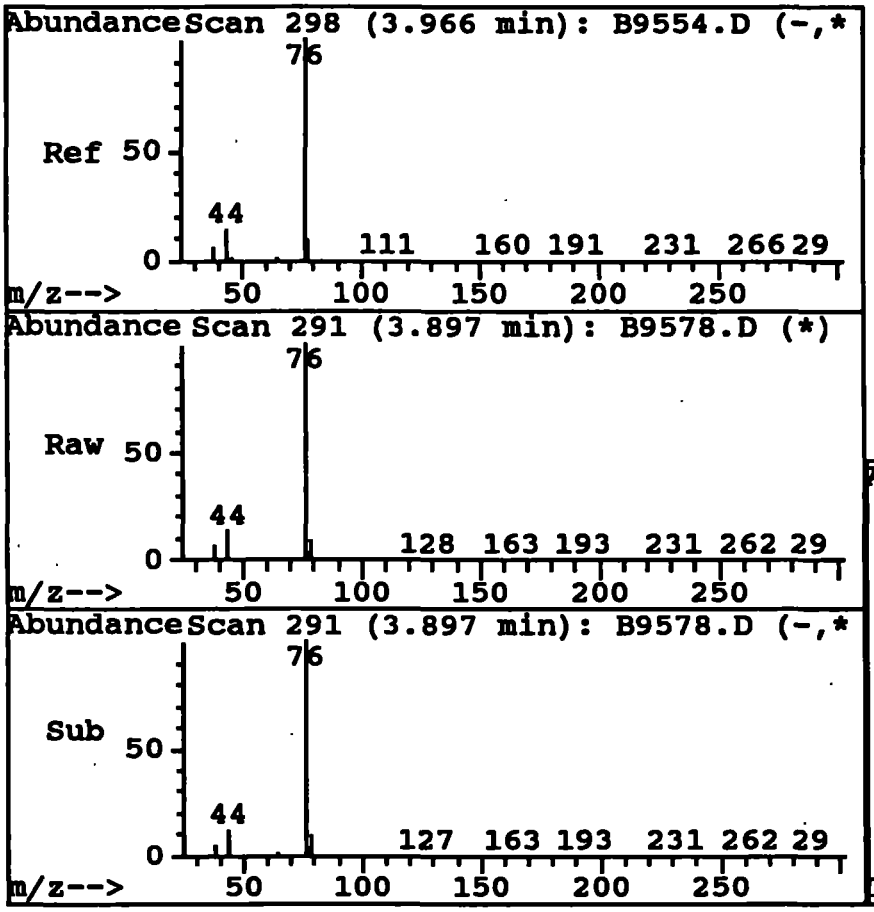


#12
Acetone
Concen: 1182.64 ug/Kg
RT: 3.69 min Scan# 270
Delta R.T. -0.07 min
Lab File: B9578.D
Acq: 2 Feb 102 2:53 pm

Tgt Ion:43 Resp: 1303745

Ion	Ratio	Lower	Upper
43	100		
58	29.4	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

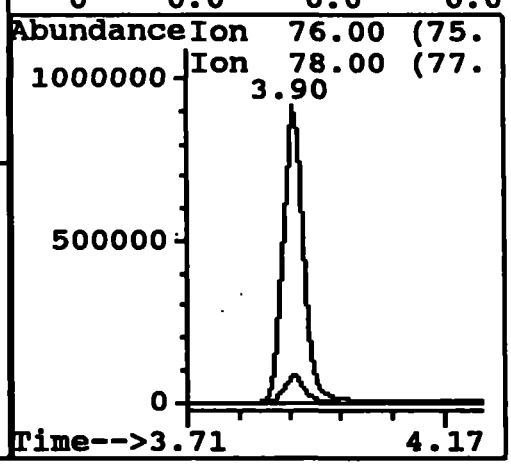


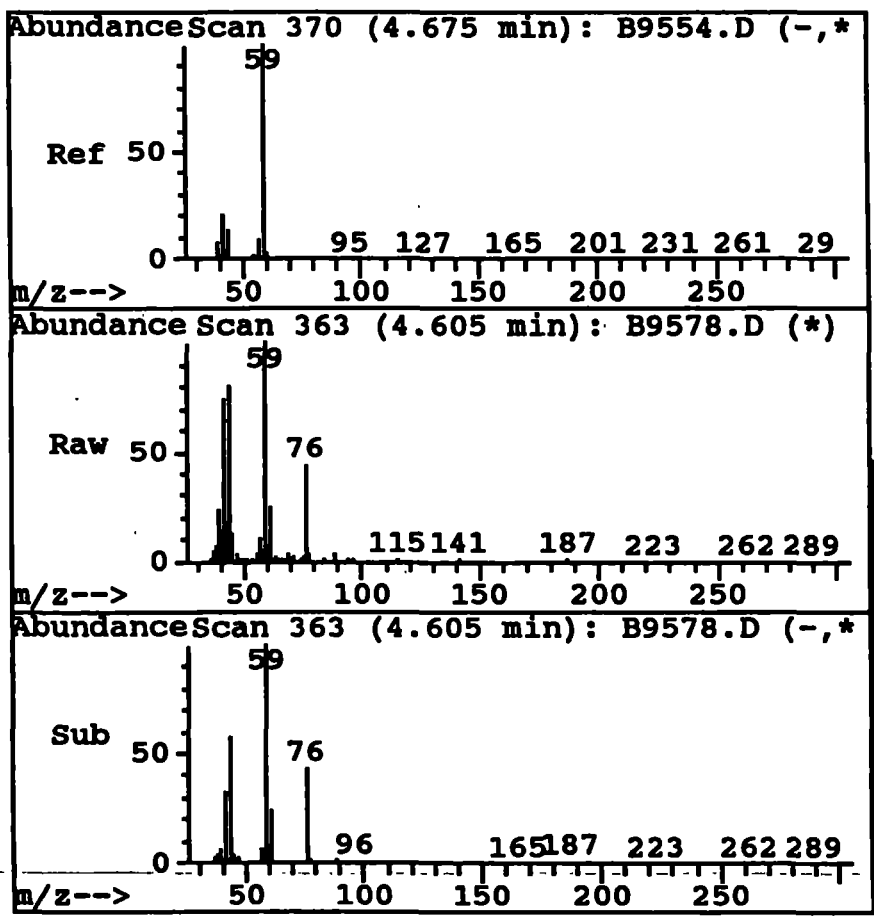


#14
Carbon Disulfide
Concen: 159.62 ug/Kg
RT: 3.90 min Scan# 291
Delta R.T. -0.07 min
Lab File: B9578.D
Acq: 2 Feb 102 2:53 pm

Tgt Ion:76 Resp: 2285590

Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.4	11.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

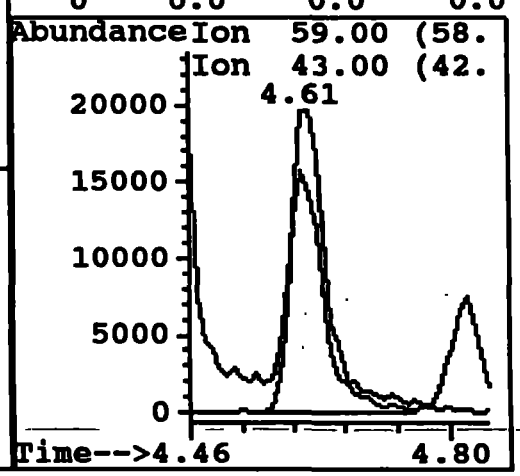


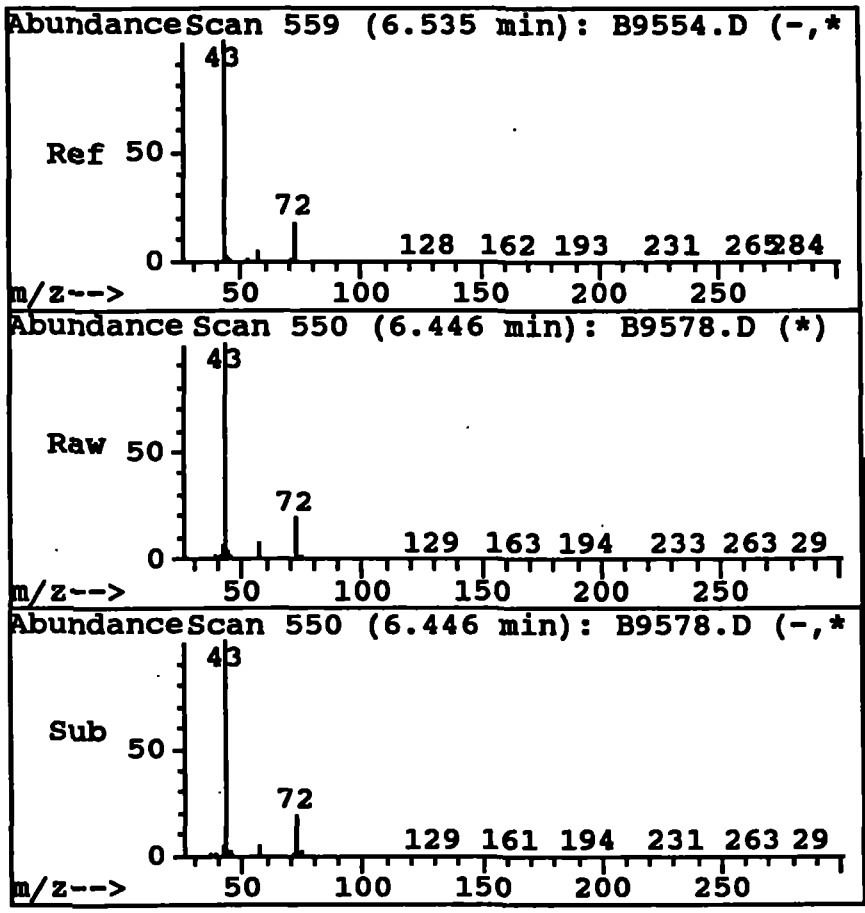


#18
TBA
Concen: 149.56 ug/Kg
RT: 4.61 min Scan# 363
Delta R.T. -0.07 min
Lab File: B9578.D
Acq: 2 Feb 102 2:53 pm

Tgt Ion:59 Resp: 60862

Ion	Ratio	Lower	Upper
59	100		
43	80.4	11.1	16.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

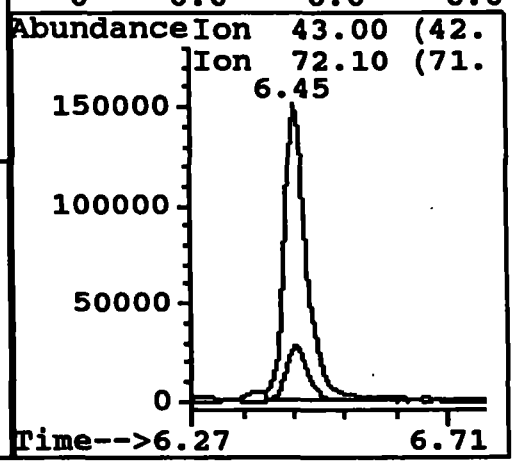


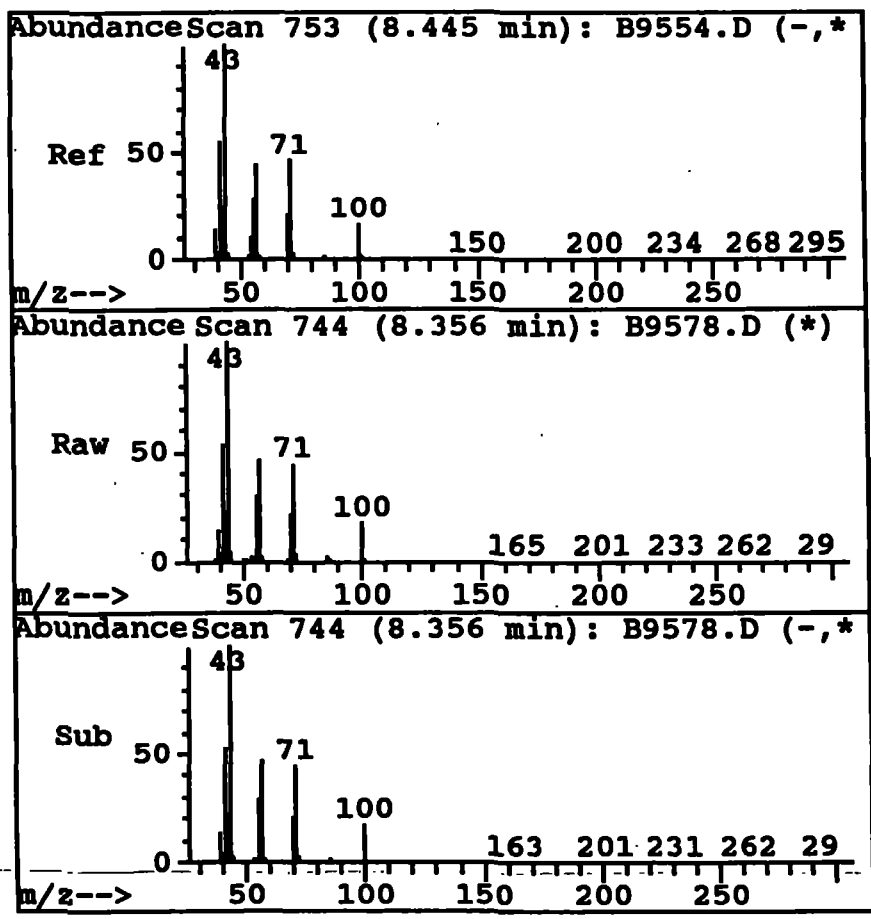


#26
2-Butanone
Concen: 186.83 ug/Kg
RT: 6.45 min Scan# 550
Delta R.T. -0.09 min
Lab File: B9578.D
Acq: 2 Feb 102 2:53 pm

Tgt Ion:43 Resp: 422726

Ion	Ratio	Lower	Upper
43	100		
72	19.0	14.5	24.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

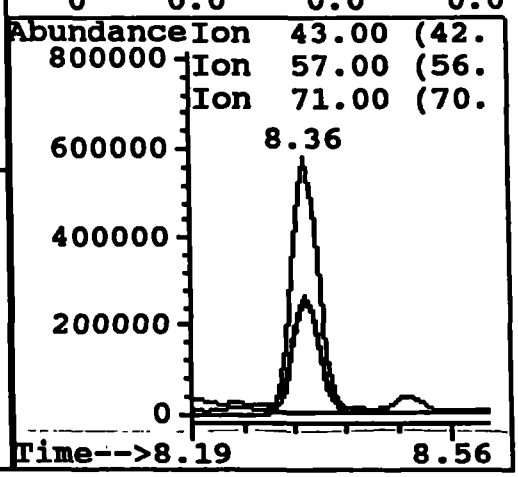


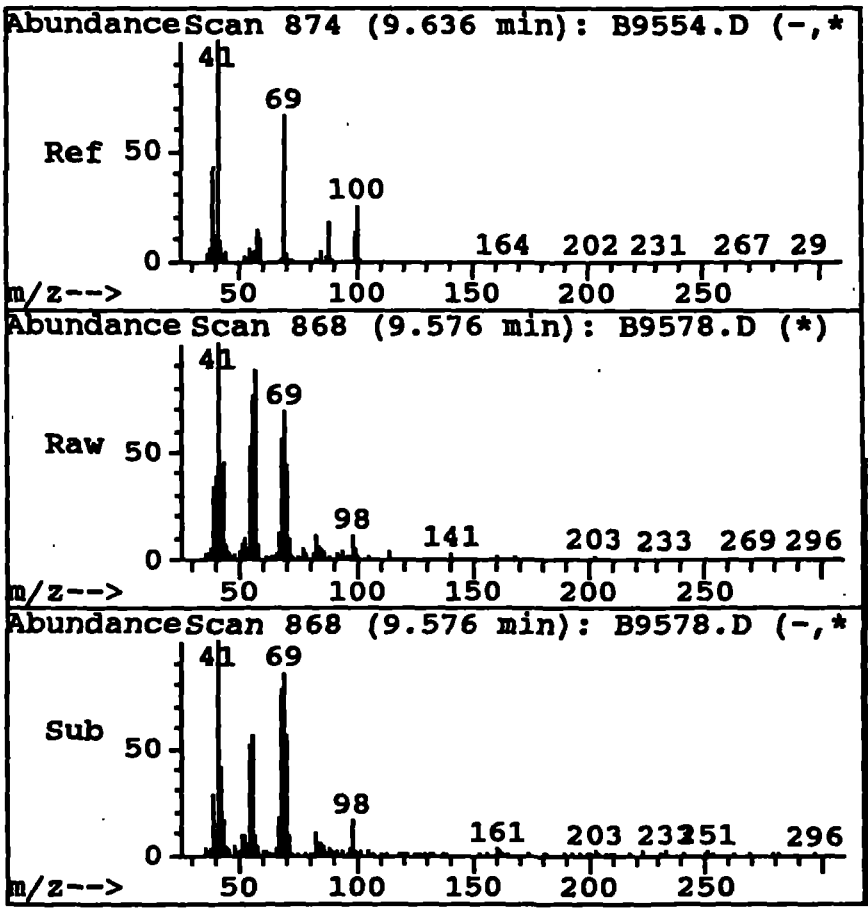


#42
N-Heptane
Concen: 198.24 ug/Kg
RT: 8.36 min Scan# 744
Delta R.T. -0.09 min
Lab File: B9578.D
Acq: 2 Feb 102 2:53 pm

Tgt Ion:43 Resp: 1532039

Ion	Ratio	Lower	Upper
43	100		
57	45.8	34.9	58.1
71	44.2	35.3	58.8
0	0.0	0.0	0.0

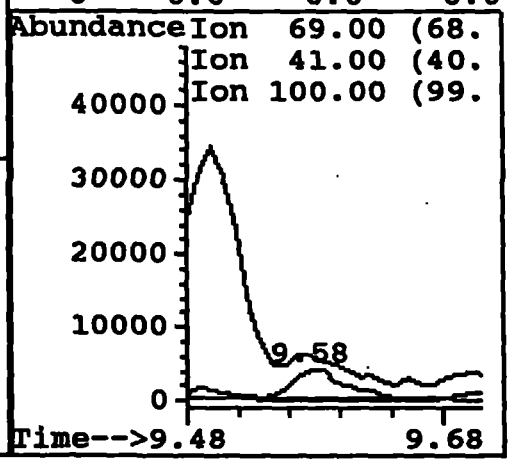


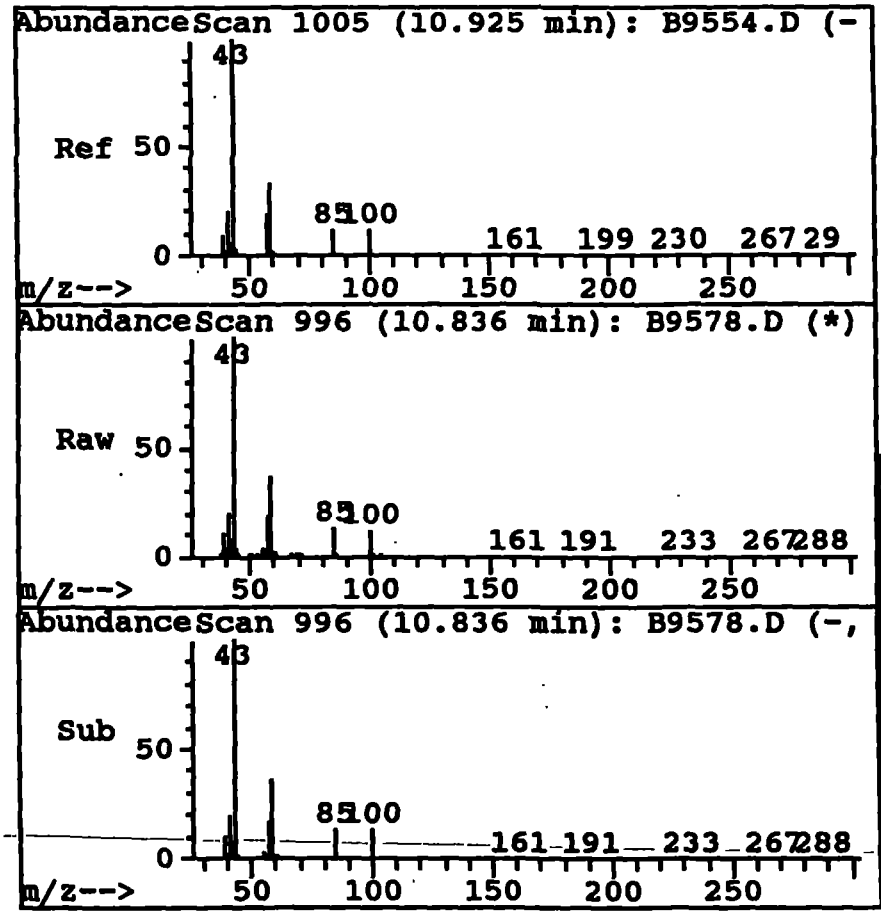


#45
Methyl Methacrylate
Concen: 3.30 ug/Kg
RT: 9.58 min Scan# 868
Delta R.T. -0.06 min
Lab File: B9578.D
Acq: 2 Feb 102 2:53 pm

Tgt Ion:69 Resp: 11054

Ion	Ratio	Lower	Upper
69	100		
41	145.4	109.3	182.2
100	2.4	31.6	52.7#
0	0.0	0.0	0.0

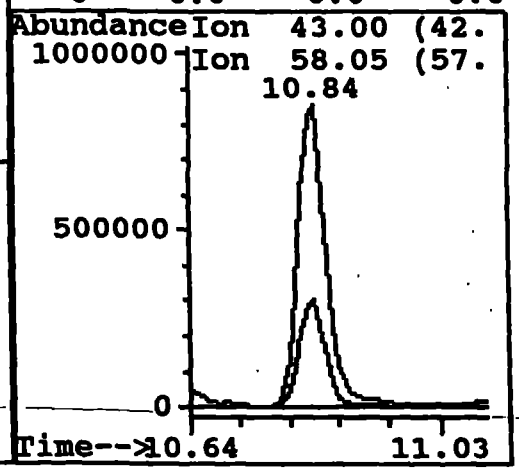


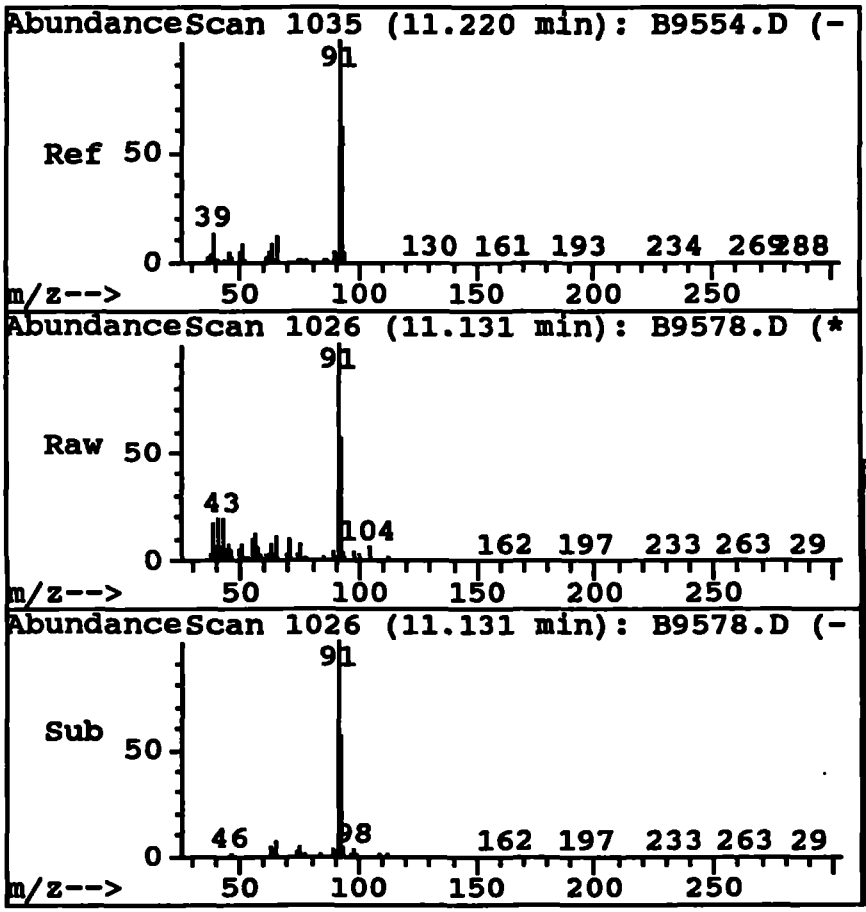


#53
4-Methyl-2-Pentanone
Concen: 789.66 ug/Kg
RT: 10.84 min Scan# 996
Delta R.T. -0.09 min
Lab File: B9578.D
Acq: 2 Feb 102 2:53 pm

Tgt Ion:43 Resp: 2637605

Ion	Ratio	Lower	Upper
43	100		
58	35.6	27.0	44.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

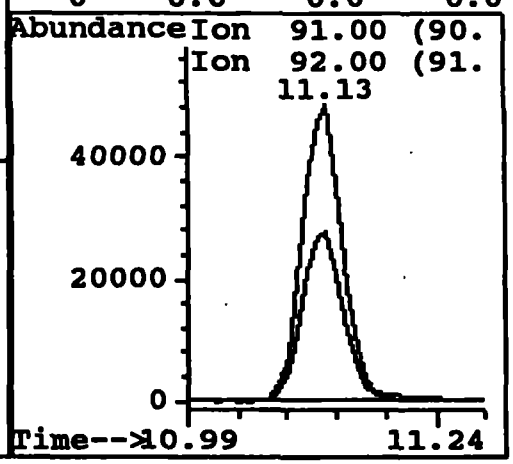


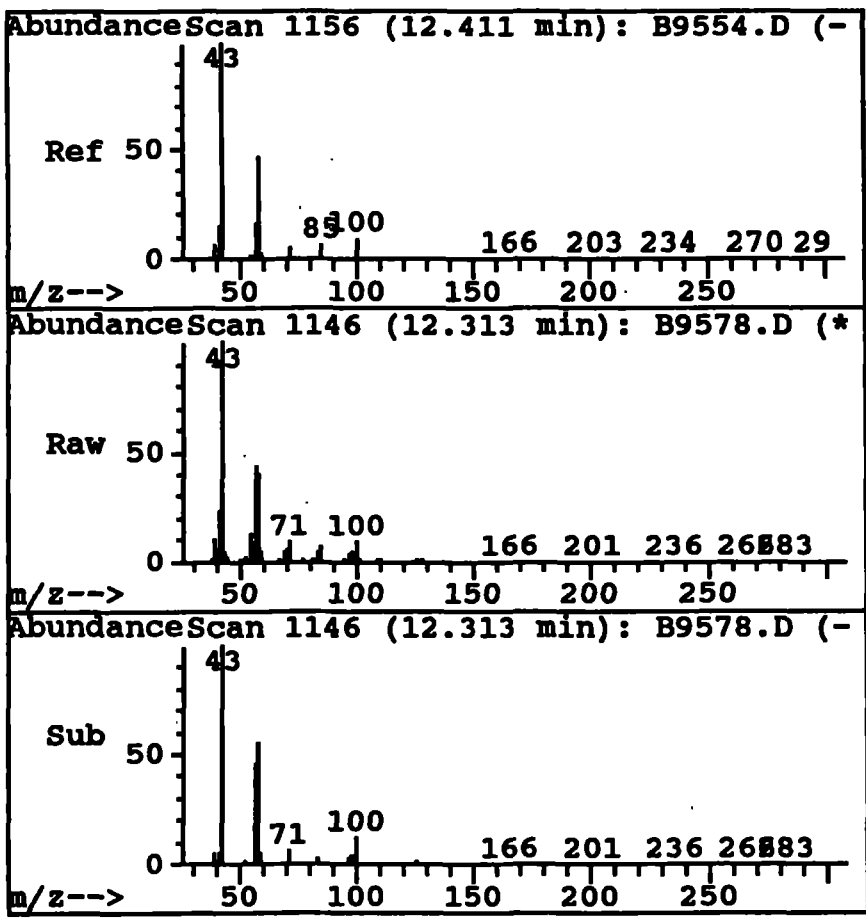


#54
Toluene
Concen: 12.50 ug/Kg
RT: 11.13 min Scan# 1026
Delta R.T. -0.09 min
Lab File: B9578.D
Acq: 2 Feb 102 2:53 pm

Tgt Ion:91 Resp: 134685

Ion	Ratio	Lower	Upper
91	100		
92	56.9	47.9	71.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

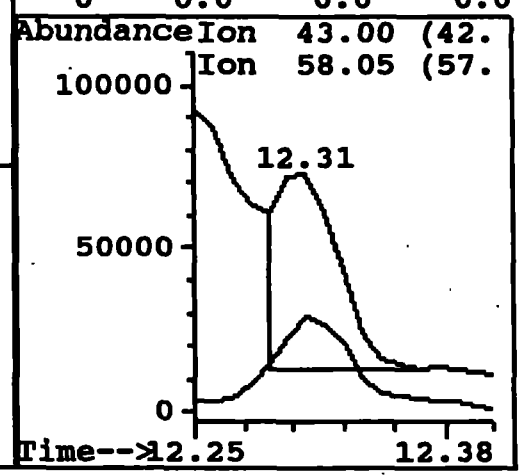


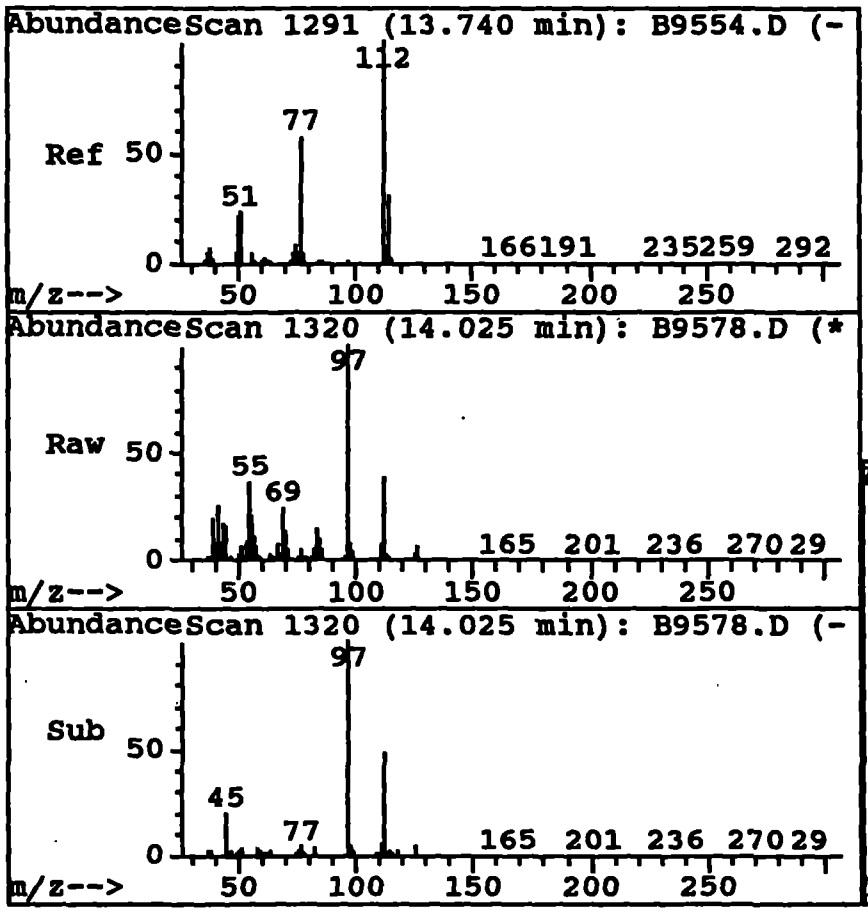


#61
2-Hexanone
Concen: 52.20 ug/Kg
RT: 12.31 min Scan# 1146
Delta R.T. -0.10 min
Lab File: B9578.D
Acq: 2 Feb 102 2:53 pm

Tgt Ion:43 Resp: 124936

Ion	Ratio	Lower	Upper
43	100		
58	39.8	41.5	62.2#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

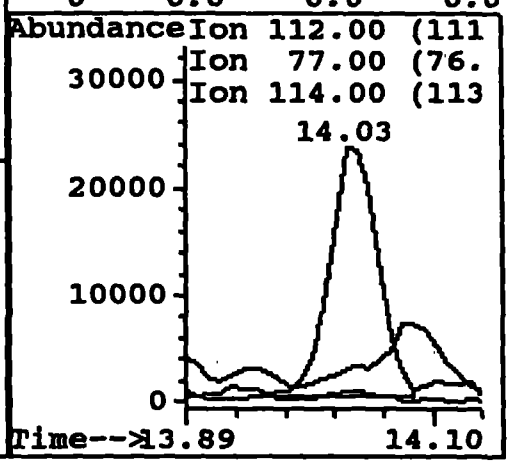


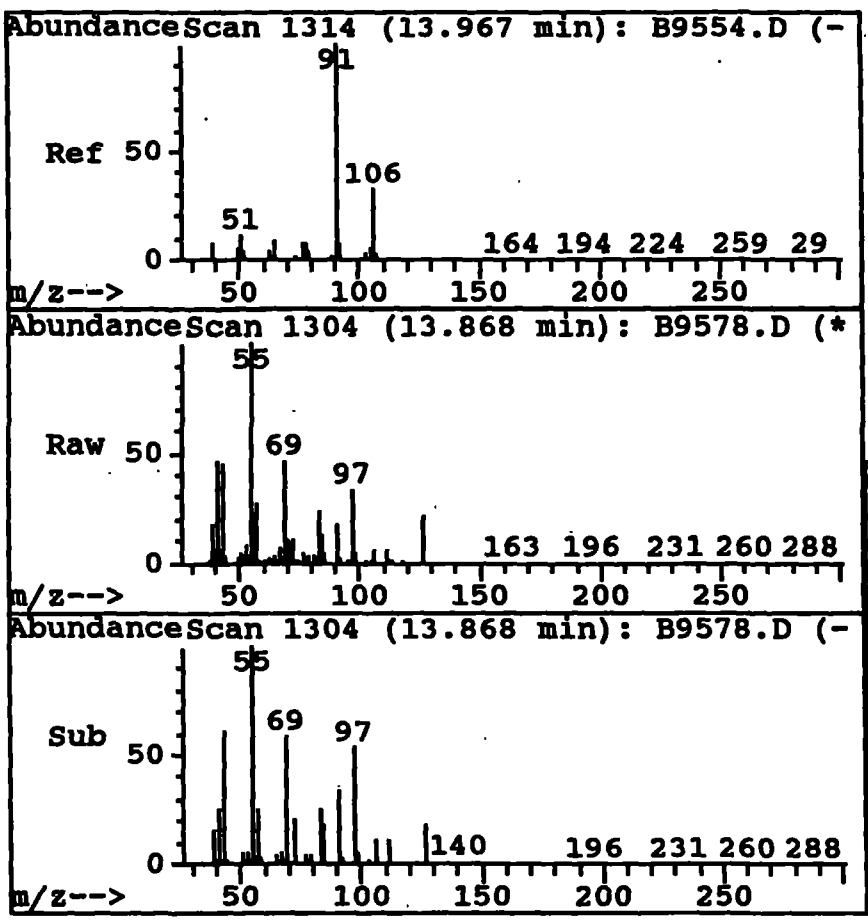


#65
Chlorobenzene
Concen: 9.65 ug/Kg
RT: 14.03 min Scan# 1320
Delta R.T. 0.29 min
Lab File: B9578.D
Acq: 2 Feb 102 2:53 pm

Tgt Ion:112 Resp: 68818

Ion	Ratio	Lower	Upper
112	100		
77	13.5	47.7	71.5#
114	4.5	26.9	40.3#
0	0.0	0.0	0.0

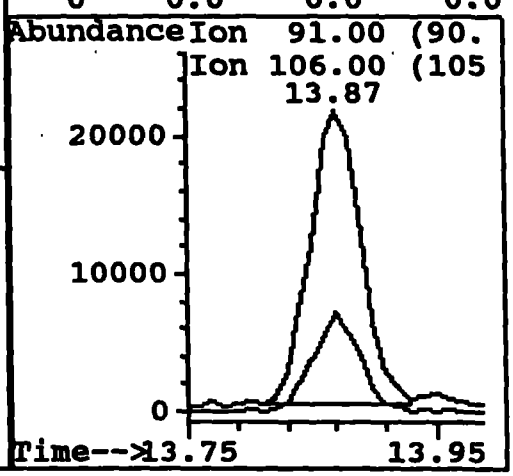


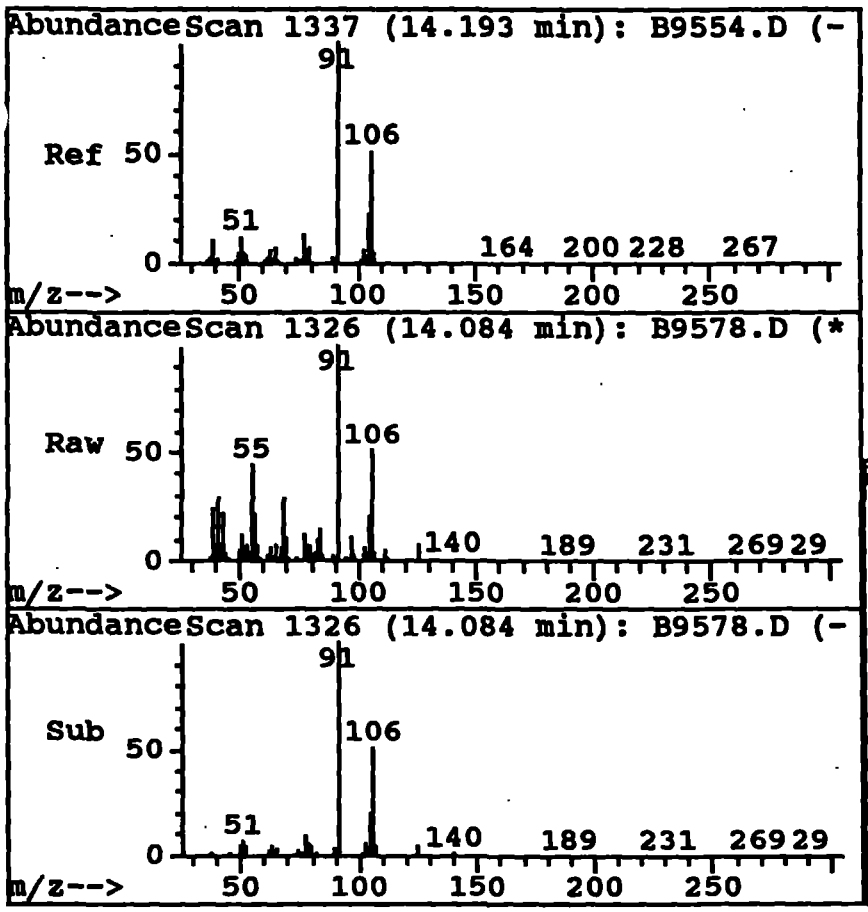


#67
Ethylbenzene
Concen: 5.28 ug/Kg
RT: 13.87 min Scan# 1304
Delta R.T. -0.10 min
Lab File: B9578.D
Acq: 2 Feb 102 2:53 pm

Tgt Ion:91 Resp: 60923

Ion	Ratio	Lower	Upper
91	100		
106	32.8	24.2	36.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

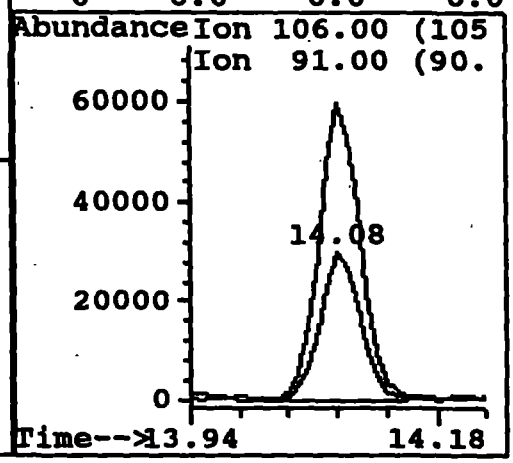


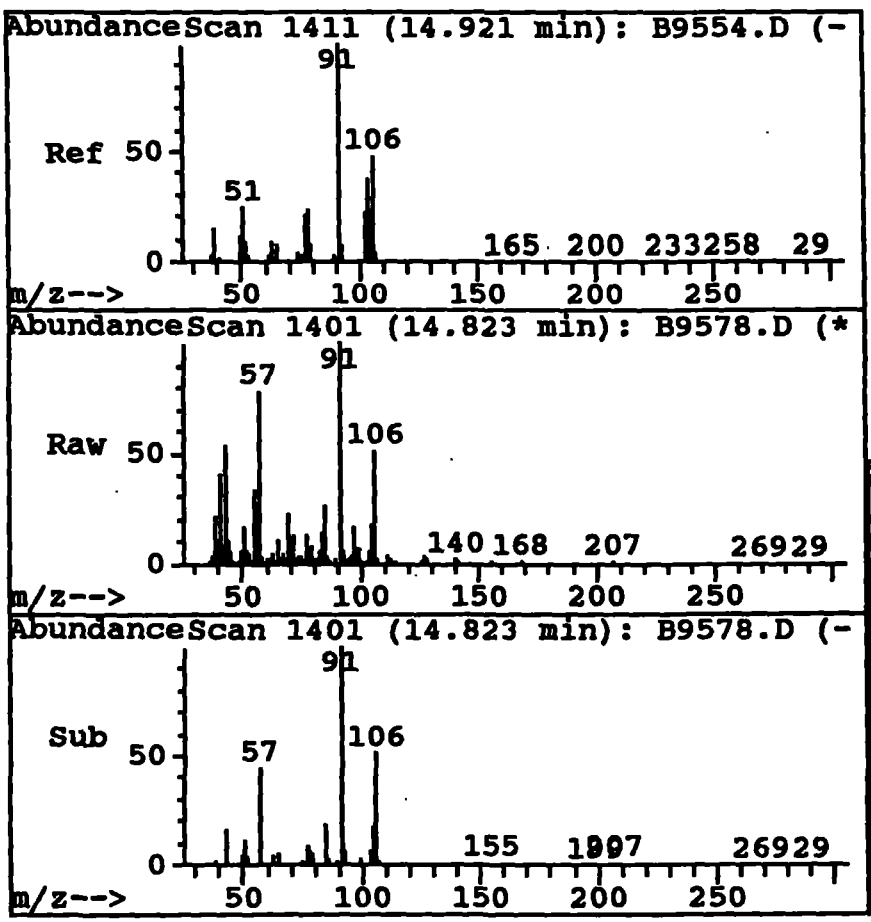


#68
(m+p)Xylene
Concen: 19.89 ug/Kg
RT: 14.08 min Scan# 1326
Delta R.T. -0.11 min
Lab File: B9578.D
Acq: 2 Feb 102 2:53 pm

Tgt Ion:106 Resp: 84154

Ion	Ratio	Lower	Upper
106	100		
91	196.9	154.0	230.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

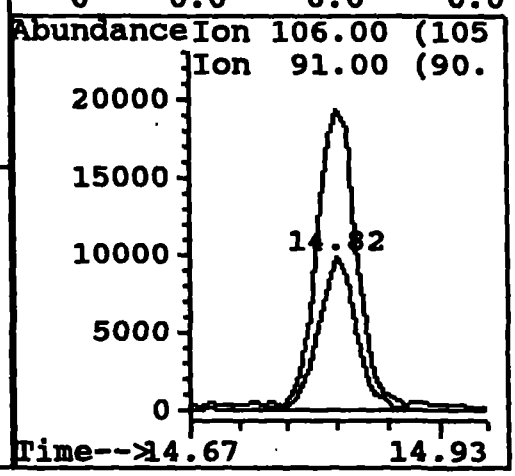


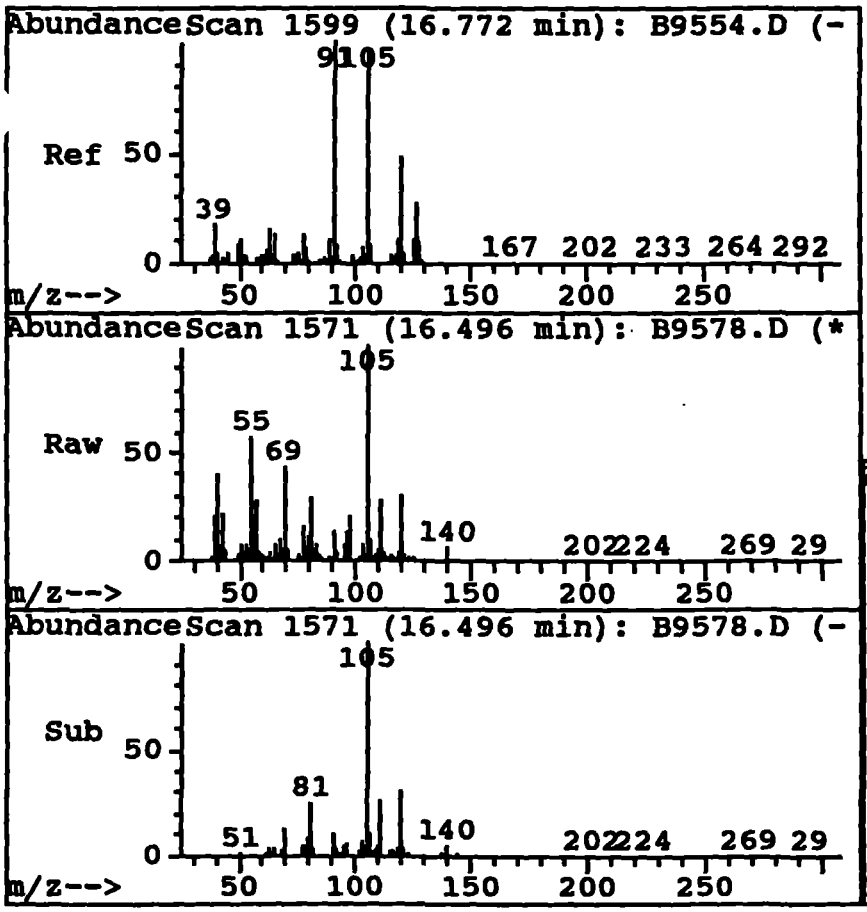


#69
o-Xylene
Concen: 6.39 ug/Kg
RT: 14.82 min Scan# 1401
Delta R.T. -0.10 min
Lab File: B9578.D
Acq: 2 Feb 102 2:53 pm

Tgt Ion:106 Resp: 26938

Ion	Ratio	Lower	Upper
106	100		
91	197.6	163.5	245.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

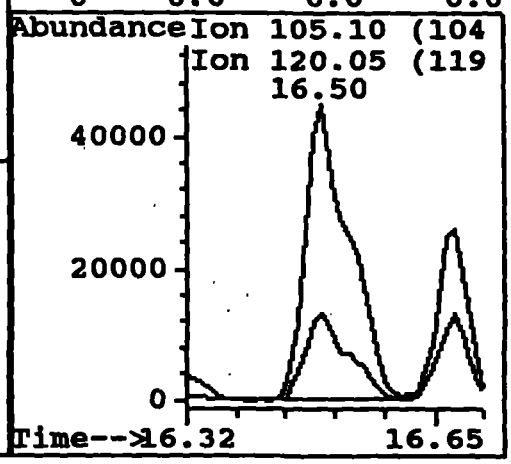


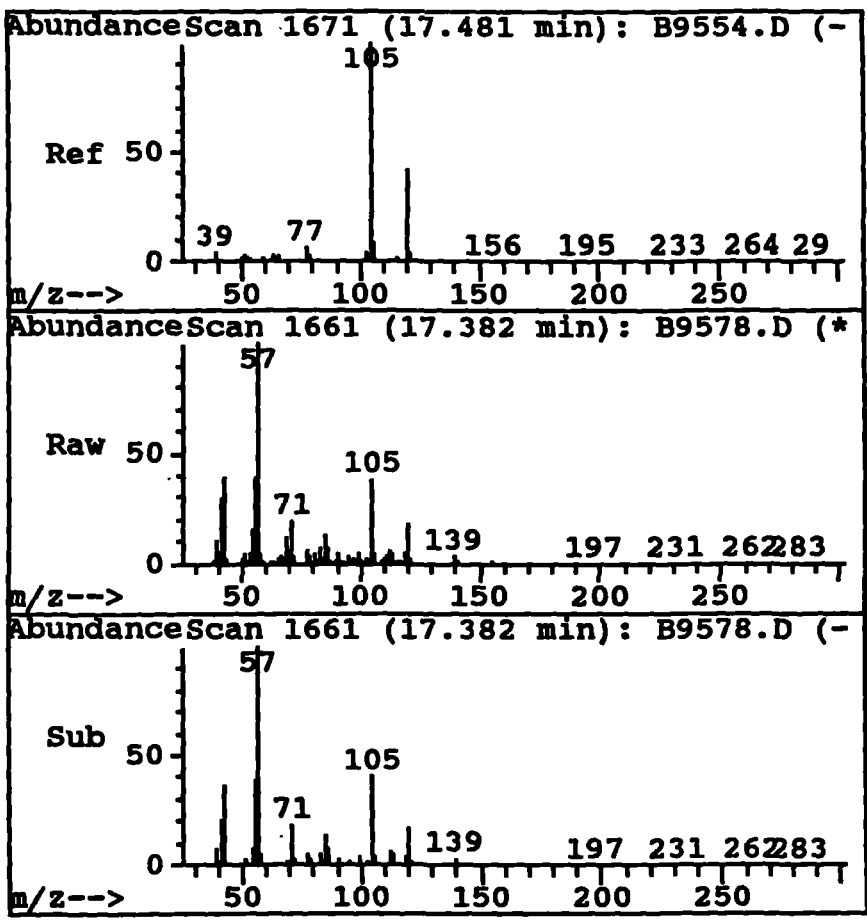


#80
1,3,5-Trimethylbenzene
Concen: 124.88 ug/Kg
RT: 16.50 min Scan# 1571
Delta R.T. -0.28 min
Lab File: B9578.D
Acq: 2 Feb 102 2:53 pm

Tgt Ion:105.1 Resp: 183590

Ion	Ratio	Lower	Upper
105	100		
120	30.1	20.6	30.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

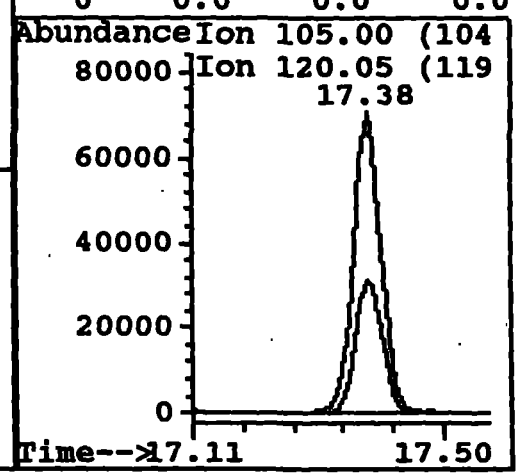


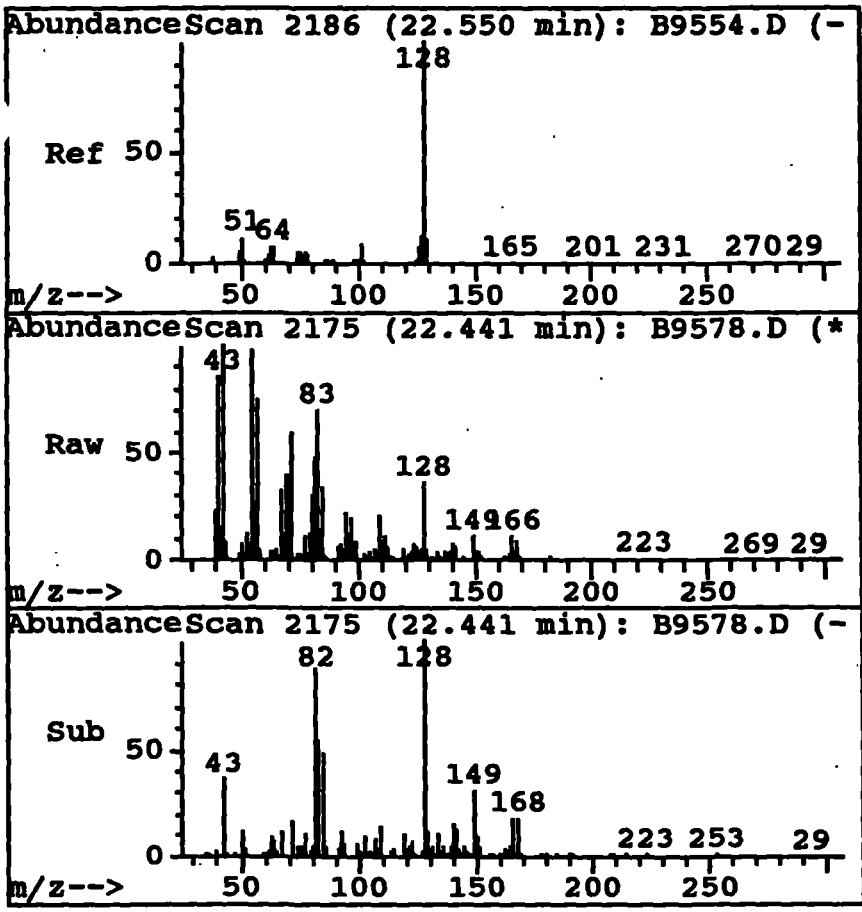


#84
1,2,4-Trimethylbenzene
Concen: 145.96 ug/Kg
RT: 17.38 min Scan# 1661
Delta R.T. -0.10 min
Lab File: B9578.D
Acq: 2 Feb 102 2:53 pm

Tgt Ion:105 Resp: 212755

Ion	Ratio	Lower	Upper
105	100		
120	43.8	35.9	53.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

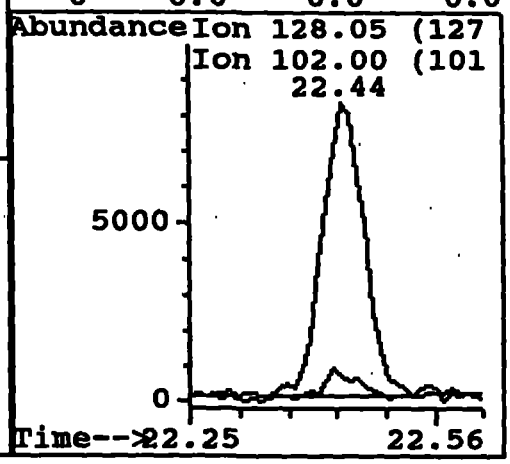




#95
Naphthalen
Concen: 32.29 ug/Kg
RT: 22.44 min Scan# 2175
Delta R.T. -0.11 min
Lab File: B9578.D
Acq: 2 Feb 102 2:53 pm

Tgt Ion:128.05 Resp: 30613

Ion	Ratio	Lower	Upper
128	100		
102	8.6	6.1	9.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMACK-LOCKWOOD OU#2
Client Sample ID : SMWB-SLU

Date Sampled : 01/19/02 15:45 **Order #:** 526223 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/23/02 **Submission #:** R2210416 **Percent Solid:** 31.8

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/03/02			
ANALYTICAL DILUTION: 540.00			Dry Weight
ACETONE	20	34000 U	UG/KG
BENZENE	5.0	8500 U	UG/KG
BROMODICHLOROMETHANE	5.0	8500 U	UG/KG
BROMOFORM	5.0	8500 U	UG/KG
BROMOMETHANE	5.0	8500 U	UG/KG
2-BUTANONE (MEK)	10	17000 U	UG/KG
CARBON DISULFIDE	10	2000 J	UG/KG
CARBON TETRACHLORIDE	5.0	8500 U	UG/KG
CHLOROBENZENE	5.0	8500 U	UG/KG
CHLOROETHANE	5.0	8500 U	UG/KG
CHLOROFORM	5.0	8500 U	UG/KG
LOROMETHANE	5.0	8500 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	8500 U	UG/KG
1,1-DICHLOROETHANE	5.0	8500 U	UG/KG
1,2-DICHLOROETHANE	5.0	8500 U	UG/KG
1,1-DICHLOROETHENE	5.0	8500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	8500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	8500 U	UG/KG
1,2-DICHLOROPROPANE	5.0	8500 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	8500 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	8500 U	UG/KG
ETHYLBENZENE	5.0	8500 U	UG/KG
2-HEXANONE	10	17000 U	UG/KG
METHYLENE CHLORIDE	5.0	8500 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	17000 U	UG/KG
STYRENE	5.0	8500 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	8500 U	UG/KG
TETRACHLOROETHENE	5.0	8500 U	UG/KG
TOLUENE	5.0	8500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	8500 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	8500 U	UG/KG
TRICHLOROETHENE	5.0	8500 U	UG/KG
VINYL CHLORIDE	5.0	8500 U	UG/KG
O-XYLENE	5.0	8500 U	UG/KG
M+P-XYLENE	5.0	8500 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	92	%
TOLUENE-D8	(71 - 128 %)	100	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	97	%

Quantitation Report (Not Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020302\Q7351.D Vial: 9
Acq On : 3 Feb 2002 3:18 pm Operator: TTRAVER
Sample : 526223 540.0 Inst : GC/MS Ins
Misc : TTEM R22-10416 8260B.TCLH Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 3 15:47 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

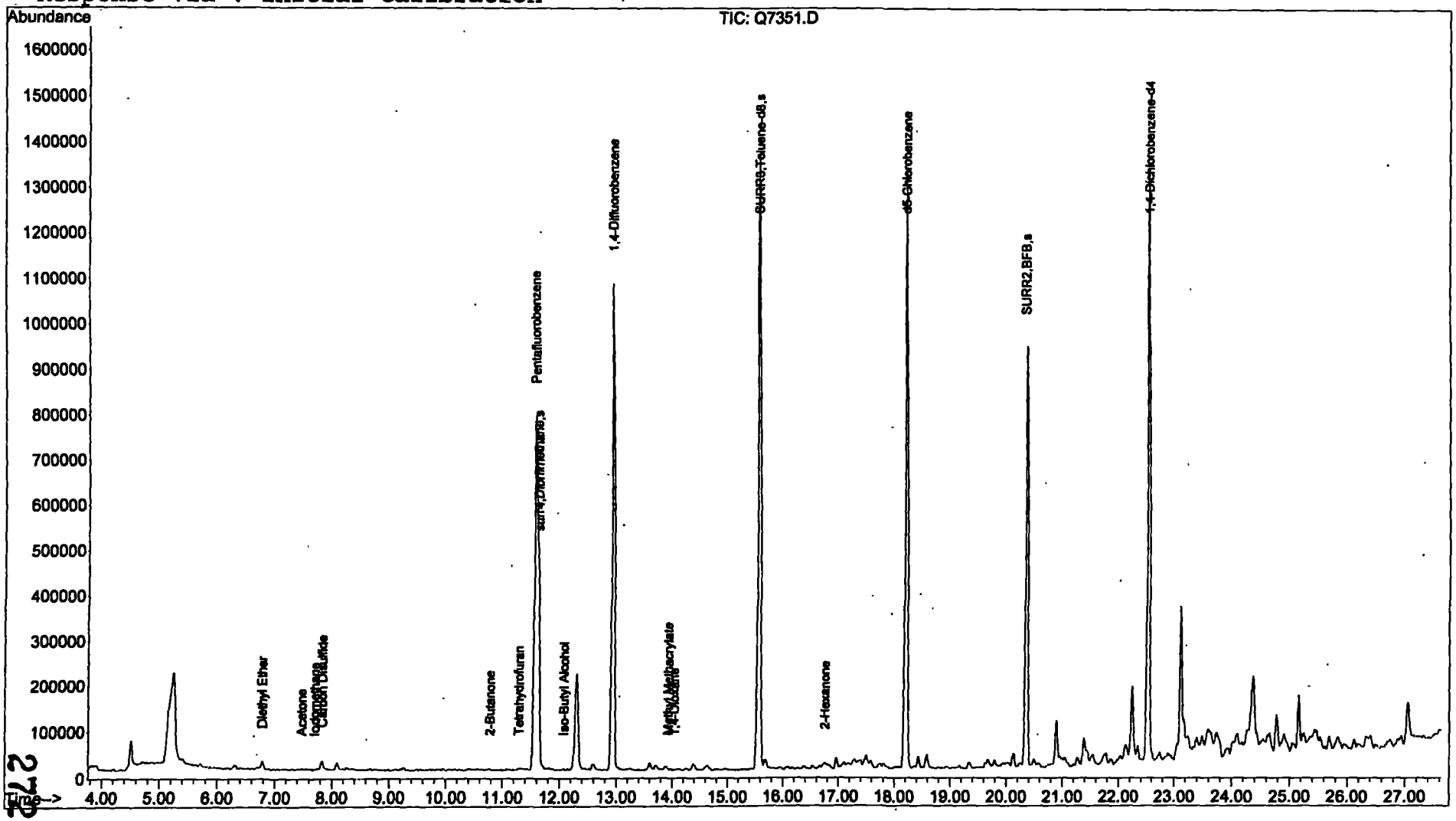
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.57	168	965117	50.00 ug/L	0.00
34) 1,4-Difluorobenzene	12.93	114	1403918	50.00 ug/L	0.00
58) d5-Chlorobenzene	18.20	117	1133905	50.00 ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.53	152	585356	50.00 ug/L	0.00
System Monitoring Compounds					
35) surr4,Dibrflmethane	11.62	113	429772	48.68 ug/L	0.00
Spiked Amount 50.000			Recovery =	97.36%	
52) SURR3,Toluene-d8	15.56	98	1377115	49.89 ug/L	0.00
Spiked Amount 50.000			Recovery =	99.78%	
57) SURR2,BFB	20.34	95	532252	45.90 ug/L	0.00
Spiked Amount 50.000			Recovery =	91.80%	

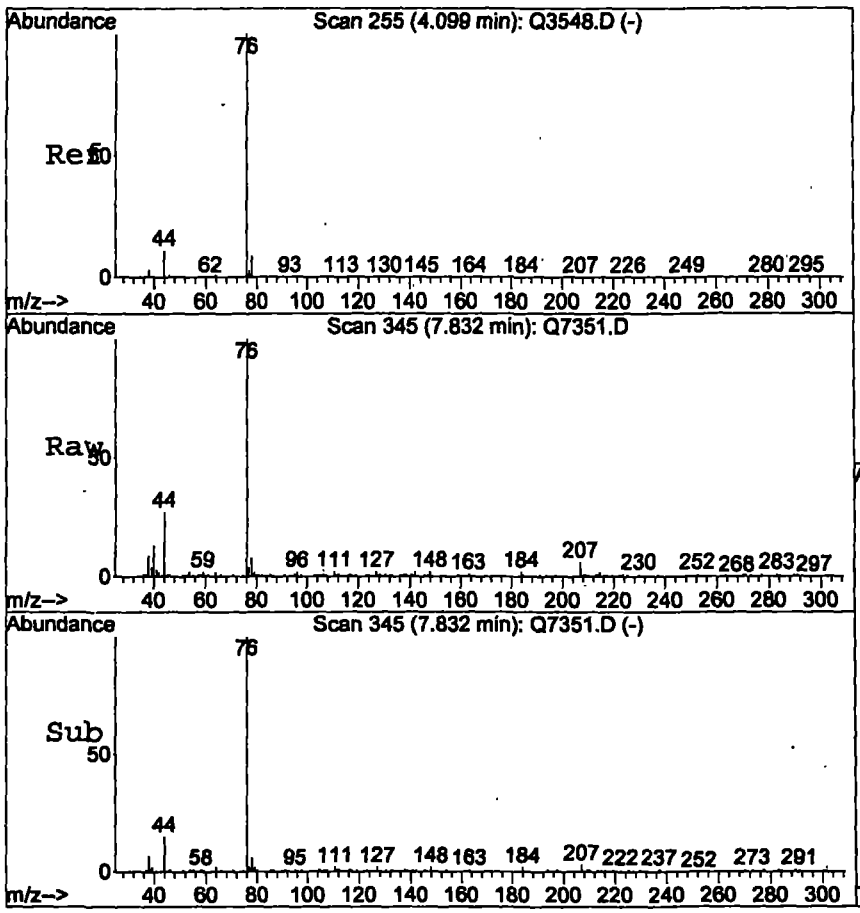
Target Compounds					Qvalue
8) Diethyl Ether	6.78	59	14478	1.99 ug/L	87 NA.
12) Acetone	7.48	43	6079	2.31 ug/L	91 LT
13) Iodomethane	~~7.70~~	~~142~~	~~1140~~	~~2.54 ug/L~~	~~83~~
14) Carbon Disulfide	7.83	76	36674	1.18 ug/L	98 J
27) 2-Butanone	10.78	43	5688	1.39 ug/L #	85 J LT
BA 31) Tetrahydrofuran	11.29	42	3353	1.30 ug/L	95 NA.
40) Iso-Butyl Alcohol	~~12.08~~	~~43~~	~~484~~	~~1.49 ug/L~~	~~91~~
2/4 45) 1,4-Dioxane	~~14.03~~	~~88~~	~~387~~	~~5.19 ug/L #~~	~~34~~
46) Methyl Methacrylate	~~13.93~~	~~69~~	~~537~~	~~2.40 ug/L #~~	~~71~~
60) 2-Hexanone	~~16.75~~	~~43~~	~~5211~~	~~1.07 ug/L #~~	~~60~~

(#) = qualifier out of range (m) = manual integration

Data File : J:\ACQUDATA\MSVOA6\DATA\020302\Q7351.. Vial: 9
Acq On : 3 Feb 2002 3:18 pm Operator: TTRAVER
Sample : 526223 540.0 Inst : GC/MS Ins
Misc : TTEM R22-10416 8260B.TCLH Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 3 15:47 2002 Quant Results File: EXP0124.RES

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration

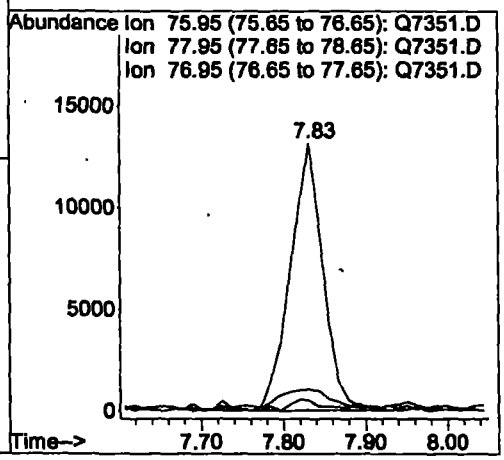




#14
Carbon Disulfide
Concen: 1.18 ug/L
RT: 7.83 min Scan# 345
Delta R.T. 0.01 min
Lab File: Q7351.D
Acq: 3 Feb 2002 3:18 pm

Tgt Ion: 76 Resp: 36674

Ion	Ratio	Lower	Upper
76	100		
78	7.9	6.9	10.3
77	3.8	2.6	3.8



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Tetra Tech EM Inc.
Project Reference: AGROMAC-LOCKWOOD OU#2 G9011.E.01.0008.10
Client Sample ID : OS-S-2-0/2

Date Sampled : 01/21/02 13:15 **Order #:** 526504 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 01/24/02 **Submission #:** R2210416 **Percent Solid:** 81.3

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/02/02			
ANALYTICAL DILUTION: 0.66			Dry Weight
ACETONE	20	57	UG/KG
BENZENE	5.0	4.1 U	UG/KG
BROMODICHLOROMETHANE	5.0	4.1 U	UG/KG
BROMOFORM	5.0	4.1 U	UG/KG
BROMOMETHANE	5.0	4.1 U	UG/KG
2-BUTANONE (MEK)	10	4.8 J	UG/KG
CARBON DISULFIDE	10	8.1 U	UG/KG
CARBON TETRACHLORIDE	5.0	4.1 U	UG/KG
CHLOROBENZENE	5.0	4.1 U	UG/KG
CHLOROETHANE	5.0	4.1 U	UG/KG
CHLOROFORM	5.0	4.1 U	UG/KG
CHLOROMETHANE	5.0	4.1 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	4.1 U	UG/KG
1,1-DICHLOROETHANE	5.0	4.1 U	UG/KG
1,2-DICHLOROETHANE	5.0	4.1 U	UG/KG
1,1-DICHLOROETHENE	5.0	4.1 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	4.1 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	4.1 U	UG/KG
1,2-DICHLOROPROPANE	5.0	4.1 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	4.1 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	4.1 U	UG/KG
ETHYLBENZENE	5.0	4.1 U	UG/KG
2-HEXANONE	10	8.1 U	UG/KG
METHYLENE CHLORIDE	5.0	4.1 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	8.1 U	UG/KG
STYRENE	5.0	4.1 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	4.1 U	UG/KG
TETRACHLOROETHENE	5.0	4.1 U	UG/KG
TOLUENE	5.0	4.1 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	4.1 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	4.1 U	UG/KG
TRICHLOROETHENE	5.0	4.1 U	UG/KG
VINYL CHLORIDE	5.0	4.1 U	UG/KG
O-XYLENE	5.0	4.1 U	UG/KG
M+P-XYLENE	5.0	4.1 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	102	%
TOLUENE-D8	(71 - 128 %)	110	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	123	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9590.D
Acq On : 2 Feb 102 10:14 pm
Sample : 526504 0.66
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 22:42 19102

Vial: 21
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.33	168	894427	50.00 ug/Kg	-0.08
35) 1,4 - Difluorobenzene	8.51	114	1670481	50.00 ug/Kg	-0.08
52) d5 - Chlorobenzene	13.59	117	1271117	50.00 ug/Kg	-0.09
74) d4 - Dichlorobenzene	18.04	152	456877	50.00 ug/Kg	-0.09
System Monitoring Compounds					**%Recovery**
36) surr4,Dibrflmethane	7.21	113	493148	61.59 ug/Kg	123.18%
58) surr3,Toluene-d8	11.02	98	1592213	54.75 ug/Kg	109.49%
59) surr2,bfb	15.80	95	589795	50.77 ug/Kg	101.54%
Target Compounds					**Qvalue**
12) Acetone	3.70	43	155530	69.62 ug/Kg	97
16) Allyl Chloride	3.91	76	13909	~~3.11 ug/Kg#~~	~~1~~
26) 2-Butanone	6.46	43	27272	5.95 ug/Kg	96 5
39) Iso-Butyl Alcohol	8.35	43	11807	~~15.65 ug/Kg#~~	~~70~~
46) 1,4-Dioxane	9.56	88	208	~~2.03 ug/Kg~~	~~78~~

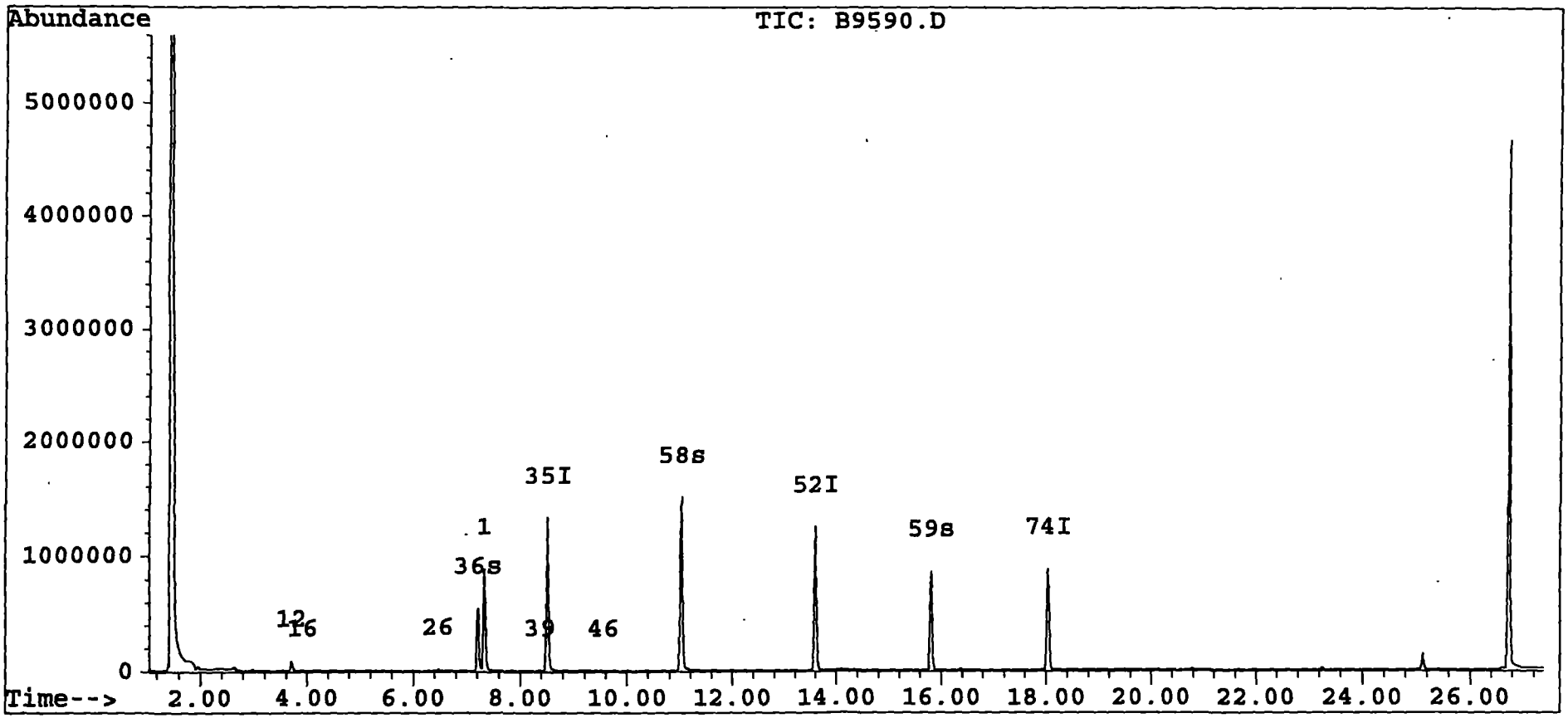
CP 2/3

(#) = qualifier out of range (m) = manual integration
B9590.D SOL0201.M Sat Feb 02 22:42:02 2002

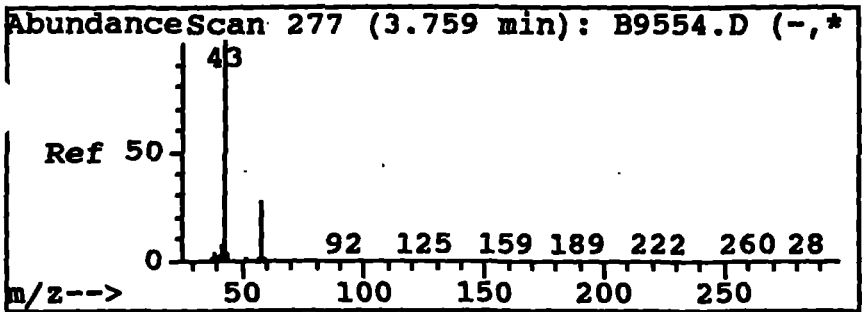
Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9590.D
Acq On : 2 Feb 102 10:14 pm
Sample : 526504 0.66
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 22:42 19102

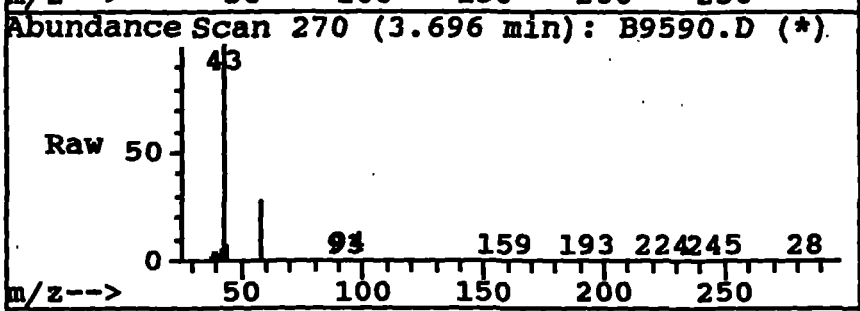
Vial: 21
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

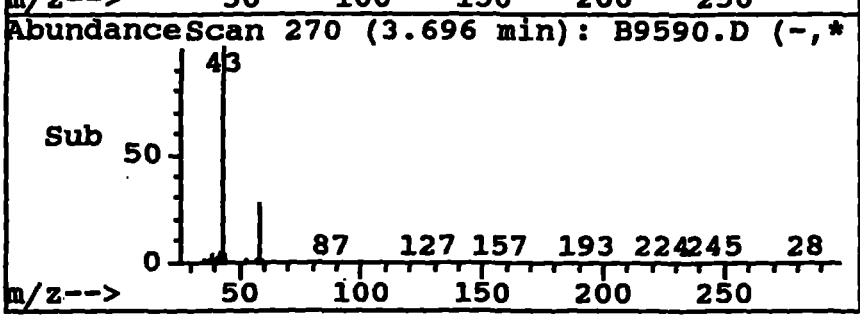
Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



276



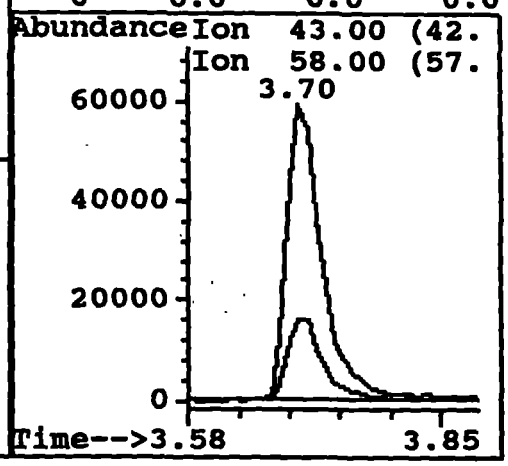


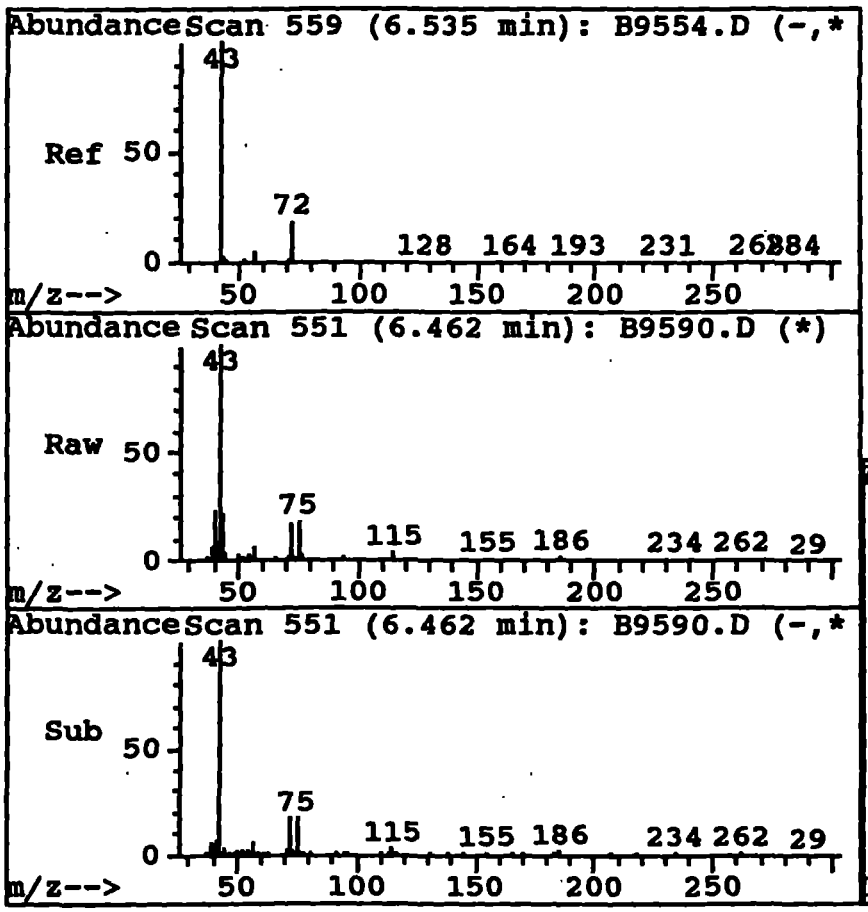


#12
Acetone
Concen: 69.62 ug/Kg
RT: 3.70 min Scan# 270
Delta R.T. -0.06 min
Lab File: B9590.D
Acq: 2 Feb 102 10:14 pm

Tgt Ion:43 Resp: 155530

Ion	Ratio	Lower	Upper
43	100		
58	26.9	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

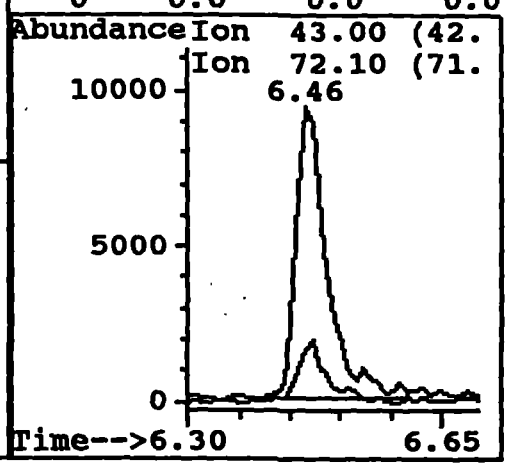




#26
2-Butanone
Concen: 5.95 ug/Kg
RT: 6.46 min Scan# 551
Delta R.T. -0.07 min
Lab File: B9590.D
Acq: 2 Feb 102 10:14 pm

Tgt Ion:43 Resp: 27272

Ion	Ratio	Lower	Upper
43	100		
72	17.4	14.5	24.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0



VOLATILE ORGANICS

STANDARDS DATA

Response Factor Report GC/MS Ins

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Fri Jan 25 10:28:15 2002
Response via : Initial Calibration

Calibration Files

1	=Q7207.D	5	=Q7208.D	20	=Q7209.D
50	=Q7210.D	100	=Q7211.D	150	=Q7212.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)		Pentafluorobenzene	----------	----------	----------	ISTD	----------	----------	----------	
2)		Dichlorodifluoromet	0.727	0.703	0.632	0.689	0.620	0.602	0.649	9.01
3)	p	Chloromethane	1.047	0.962	0.898	0.939	0.826	0.886	0.910	8.99
4)	c	Vinyl Chloride		0.599	0.549	0.570	0.494	0.470	0.518	12.85
5)		Bromomethane		0.528	0.428	0.458	0.454	0.420	0.452	8.85
6)		Chloroethane	0.530	0.416	0.402	0.426	0.406	0.401	0.421	12.32
7)		Trichlorofluorometh		0.737	0.705	0.733	0.694	0.729	0.719	2.38
8)		Diethyl Ether	0.314	0.351	0.364	0.408	0.408	0.415	0.378	9.82
9)		Acrolein		0.057	0.063	0.070	0.072	0.074	0.067	9.66
10)	c	1,1-Diclethene	0.565	0.396	0.397	0.429	0.410	0.423	0.431	13.94
11)		Freon 113	0.576	0.461	0.405	0.428	0.408	0.426	0.444	13.87
12)		Acetone			0.138	0.137	0.136	0.143	0.136	4.18
13)		Iodomethane	0.238	0.460	0.539	0.696	0.773	0.732	0.573	35.45
14)		Carbon Disulfide	1.727	1.629	1.495	1.595	1.687	1.682	1.615	5.76
[illegible]		Acetonitrile							0.000	-1.00
[illegible]		Allyl Chloride	0.258	0.226	0.213	0.239	0.247	0.241	0.236	6.40
17)		Methylene Chloride		0.555	0.490	0.496	0.489	0.495	0.498	6.25
18)		TBA	0.032	0.028	0.029	0.033	0.036	0.036	0.033	10.14
19)		Acrylonitrile	0.151	0.189	0.193	0.197	0.199	0.187	0.182	10.54
20)		Methyl-t-Butyl Ethe	0.804	0.823	0.853	0.956	0.999	1.026	0.924	10.23
21)		trans-1,2-Dichloroe		0.486	0.472	0.497	0.480	0.478	0.474	4.85
22)	p	1,1-Diclethane	0.944	0.912	0.870	0.949	0.906	0.920	0.909	3.66
23)		Vinyl Acetate		0.675	0.761	0.896	0.956	0.956	0.847	13.28
24)		2-Chloro-1,3-Butadi		0.645	0.686	0.775	0.868	0.905	0.787	13.18
25)		2,2-Dichloropropane	0.639	0.537	0.542	0.610	0.607	0.645	0.605	7.86
26)		cis-1,2-Dichloroeth	0.582	0.528	0.500	0.547	0.536	0.528	0.530	5.70
27)		2-Butanone		0.204	0.208	0.218	0.226	0.219	0.211	5.48
28)		Propionitrile	0.071	0.072	0.067	0.069	0.071	0.067	0.068	5.06
29)		Bromochloromethane		0.287	0.249	0.254	0.250	0.239	0.251	7.79
30)		Methacrylonitrile		0.110	0.125	0.146	0.159	0.156	0.140	13.66
31)		Tetrahydrofuran		0.130	0.134	0.139	0.142	0.134	0.133	5.25
32)	c	Chloroform	0.978	0.863	0.745	0.794	0.786	0.805	0.821	9.48
33)		1,1,1-Trichloroetha	0.653	0.649	0.578	0.645	0.631	0.663	0.641	4.77
34)		1,4-Difluorobenzene	----------	----------	----------	ISTD	----------	----------	----------	
35)	s	surr4,Dibrflmethane		0.339	0.303	0.319	0.321	0.315	0.313	6.27
36)		Carbontetrachloride	0.403	0.368	0.313	0.362	0.356	0.371	0.363	7.34
37)		1,1-Dichloropropene	0.146	0.152	0.141	0.159	0.156	0.152	0.150	4.66
38)		Benzene	1.378	1.291	1.153	1.236	1.194	1.131	1.207	8.70
39)		1,2-Dichloroethane	0.428	0.441	0.393	0.408	0.409	0.403	0.412	4.12
[illegible]		Iso-Butyl Alcohol		0.011	0.010	0.012	0.013	0.012	0.012	7.66
[illegible]		n-Heptane		0.488	0.519	0.618	0.617	0.570	0.556	9.77
42)		Trichloroethene	0.350	0.326	0.296	0.319	0.308	0.302	0.313	6.48

(#) = Out of Range ### Number of calibration levels exceeded format

Response Factor Report GC/MS Ins

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Fri Jan 25 10:28:15 2002
Response via : Initial Calibration

Calibration Files
1 =Q7207.D 5 =Q7208.D 20 =Q7209.D
50 =Q7210.D 100 =Q7211.D 150 =Q7212.D

		Compound	1	5	20	50	100	150	Avg	%RSD
43)	c	1,2-Diclpropane	0.402	0.375	0.358	0.383	0.381	0.361	0.371	5.46
44)		Dibromomethane	0.212	0.200	0.192	0.198	0.193	0.186	0.194	5.40
45)		1,4-Dioxane		0.003	0.002	0.003	0.003	0.003	0.003	5.66
46)		Methyl Methacrylate		0.094	0.115	0.133	0.144	0.144	0.128	15.46
47)		Bromodichloromethan	0.462	0.373	0.370	0.374	0.375	0.377	0.387	8.69
48)		2-Nitropropane		0.128	0.132	0.154	0.164	0.163	0.150	10.64
49)		2-Chloroethylvinyl		0.158	0.155	0.188	0.199	0.195	0.179	10.39
50)		cis-1,3-Dichloropro	0.392	0.421	0.417	0.455	0.467	0.464	0.438	6.46
51)		4-Methyl-2-pentanon		0.224	0.242	0.275	0.289	0.281	0.260	9.72
52)	s	SURR3,Toluene-d8		0.824	0.857	1.005	1.027	0.976	0.938	9.74
53)	c	Toluene	1.371	1.176	1.183	1.283	1.245	1.177	1.221	7.07
54)		trans-1,3-Dichlorop	0.335	0.348	0.354	0.394	0.400	0.391	0.372	6.91
55)		Ethyl Methacrylate		0.190	0.224	0.269	0.288	0.278	0.252	14.95
56)		1,1,2-Trichloroetha	0.234	0.282	0.251	0.268	0.269	0.254	0.257	6.51
57)	s	SURR2,BFB		0.361	0.395	0.436	0.464	0.427	0.413	8.85
)		d5-Chlorobenzene	----------	----------	----------	ISTD	----------	----------	----------	
59)		Tetrachloroethene	0.423	0.350	0.312	0.329	0.299	0.302	0.328	14.43
60)		2-Hexanone		0.180	0.199	0.236	0.234	0.233	0.215	10.65
61)		1,3-Dichloropropane	0.407	0.484	0.496	0.522	0.516	0.514	0.491	8.00
62)		Dibromochloromethan	0.351	0.316	0.328	0.359	0.347	0.354	0.343	4.54
63)		1,2-Dibromoethane	0.295	0.299	0.298	0.318	0.320	0.317	0.308	3.53
64)	p	Chlorobenzene	1.084	1.053	0.979	1.032	0.969	0.955	0.995	6.52
65)		1,1,1,2-Tetrachloro		0.348	0.317	0.344	0.330	0.323	0.326	5.96
66)	c	Ethylbenzene	0.493	0.495	0.477	0.553	0.521	0.498	0.499	6.20
67)		(m+p)Xylene	0.437	0.599	0.628	0.702	0.650	0.600	0.594	14.36
68)		o-Xylene	0.572	0.519	0.556	0.666	0.648	0.603	0.589	8.93
69)		Styrene		0.841	0.973	1.111	1.064	0.987	0.981	9.98
70)	p	Bromoform		0.222	0.219	0.251	0.239	0.237	0.232	5.33
71)		Isopropylbenzene	1.135	1.173	1.440	1.666	1.607	1.555	1.434	14.43
72)		Cyclohexanone							0.000	-1.00
73)		trans-1,4-Dichloro-		0.130	0.129	0.157	0.155	0.145	0.143	8.50
74)		1,4-Dichlorobenzene-d	----------	----------	----------	ISTD	----------	----------	----------	
75)	p	1,1,2,2-Tetrachloro	0.802	0.754	0.649	0.713	0.702	0.717	0.716	7.01
76)		Bromobenzene	0.781	0.716	0.686	0.753	0.721	0.729	0.723	5.00
77)		1,2,3-Trichloroprop		0.173	0.166	0.164	0.170	0.172	0.168	2.91
78)		n-Propylbenzene	3.402	3.354	3.431	3.826	3.740	3.688	3.558	5.28
79)		2-Chlorotoluene	2.185	2.100	2.159	2.425	2.430	2.457	2.306	6.56
80)		4-Chlorotoluene	1.893	2.029	2.004	2.223	2.214	2.239	2.112	6.43
81)		1,3,5-Trimethylbenz	1.702	2.071	2.152	2.414	2.385	2.399	2.204	11.67
)		tert-Butylbenzene		1.500	1.700	2.007	2.005	2.004	1.857	11.36
83)		1,2,4-Trimethylbenz	1.626	1.960	2.187	2.493	2.463	2.467	2.223	14.66
84)		sec-Butylbenzene	2.558	2.626	2.896	3.335	3.299	3.249	3.003	10.64

(#) = Out of Range ### Number of calibration levels exceeded format

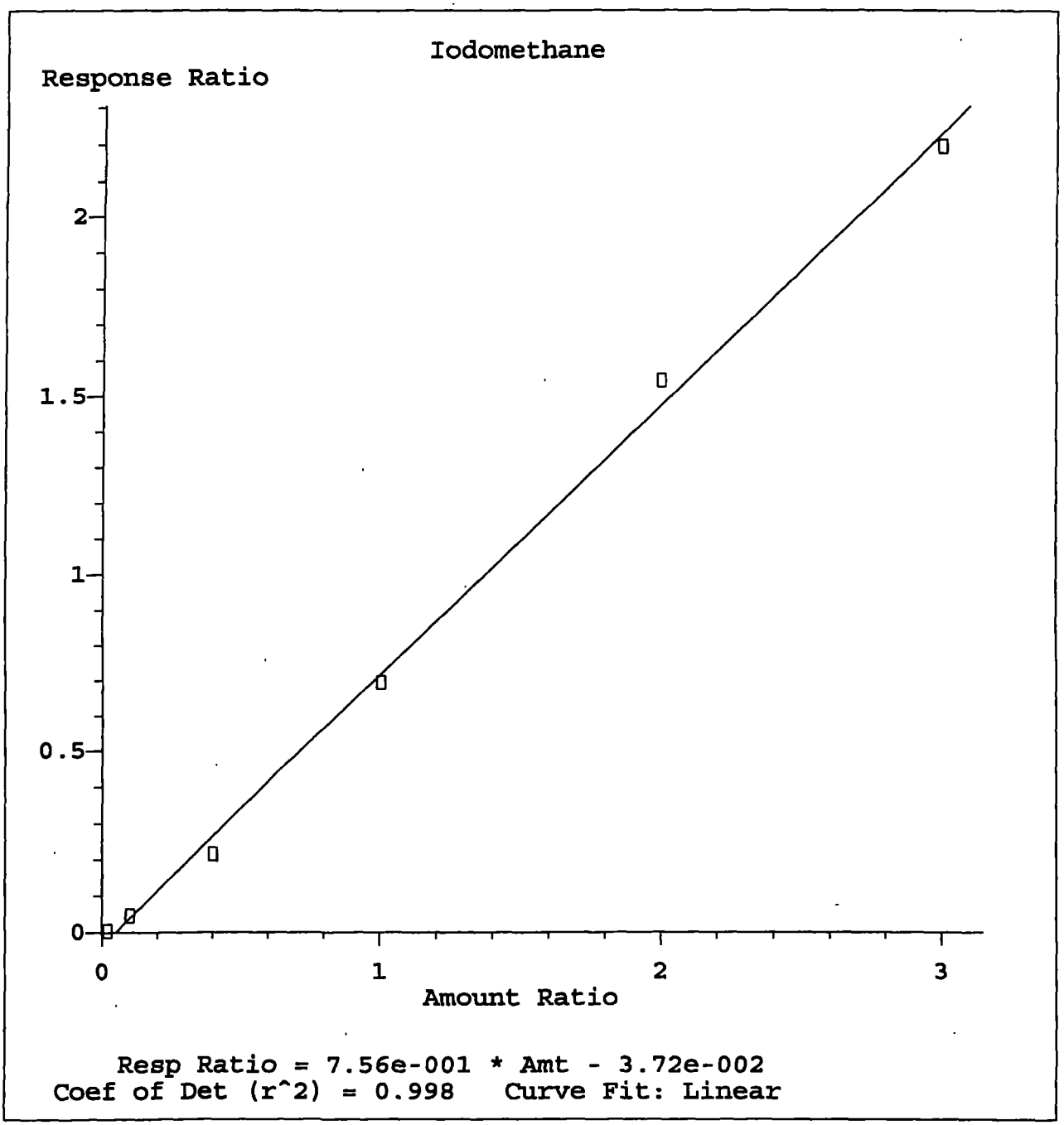
Response Factor Report GC/MS Ins

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Fri Jan 25 10:28:15 2002
Response via : Initial Calibration

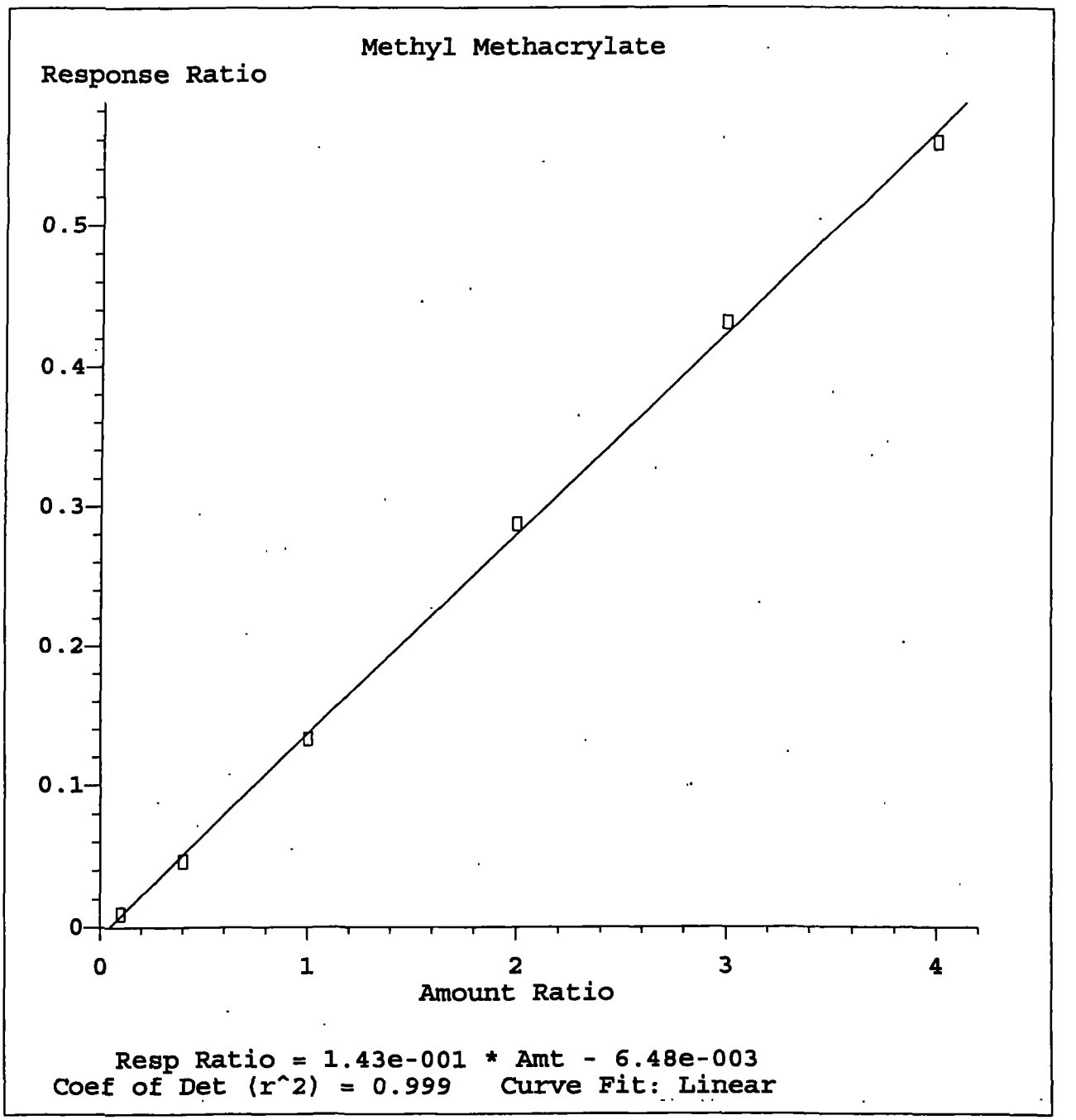
Calibration Files
1 =Q7207.D 5 =Q7208.D 20 =Q7209.D
50 =Q7210.D 100 =Q7211.D 150 =Q7212.D

	Compound	1	5	20	50	100	150	Avg	%RSD
85)	p-Isopropyltoluene		1.972	2.292	2.669	2.633	2.609	2.440	10.99
86)	1,3-Diclbenzene	1.258	1.464	1.339	1.405	1.337	1.321	1.341	5.52
87)	1,4-Diclbenzene	1.798	1.582	1.466	1.535	1.484	1.456	1.526	9.04
88)	n-Butylbenzene	2.165	2.294	2.397	2.870	2.845	2.804	2.578	11.20
89)	1,2-Diclbenzene	1.284	1.411	1.361	1.427	1.376	1.355	1.356	4.29
90)	1,2-Dibromo-3-chlor		0.125	0.106	0.108	0.111	0.120	0.115	6.46
91)	Nitrobenzene							0.000	-1.00
92)	1,2,4-Tcbenzene	0.938	0.985	0.964	1.040	1.052	1.042	0.999	4.53
93)	Hexachlorobt	0.666	0.533	0.527	0.595	0.599	0.593	0.584	8.00
94)	Naphthalen		1.476	1.667	1.888	2.013	2.084	1.845	12.46
95)	1,2,3-Tclbenzene	1.046	0.912	0.944	1.016	1.007	0.984	0.975	5.34

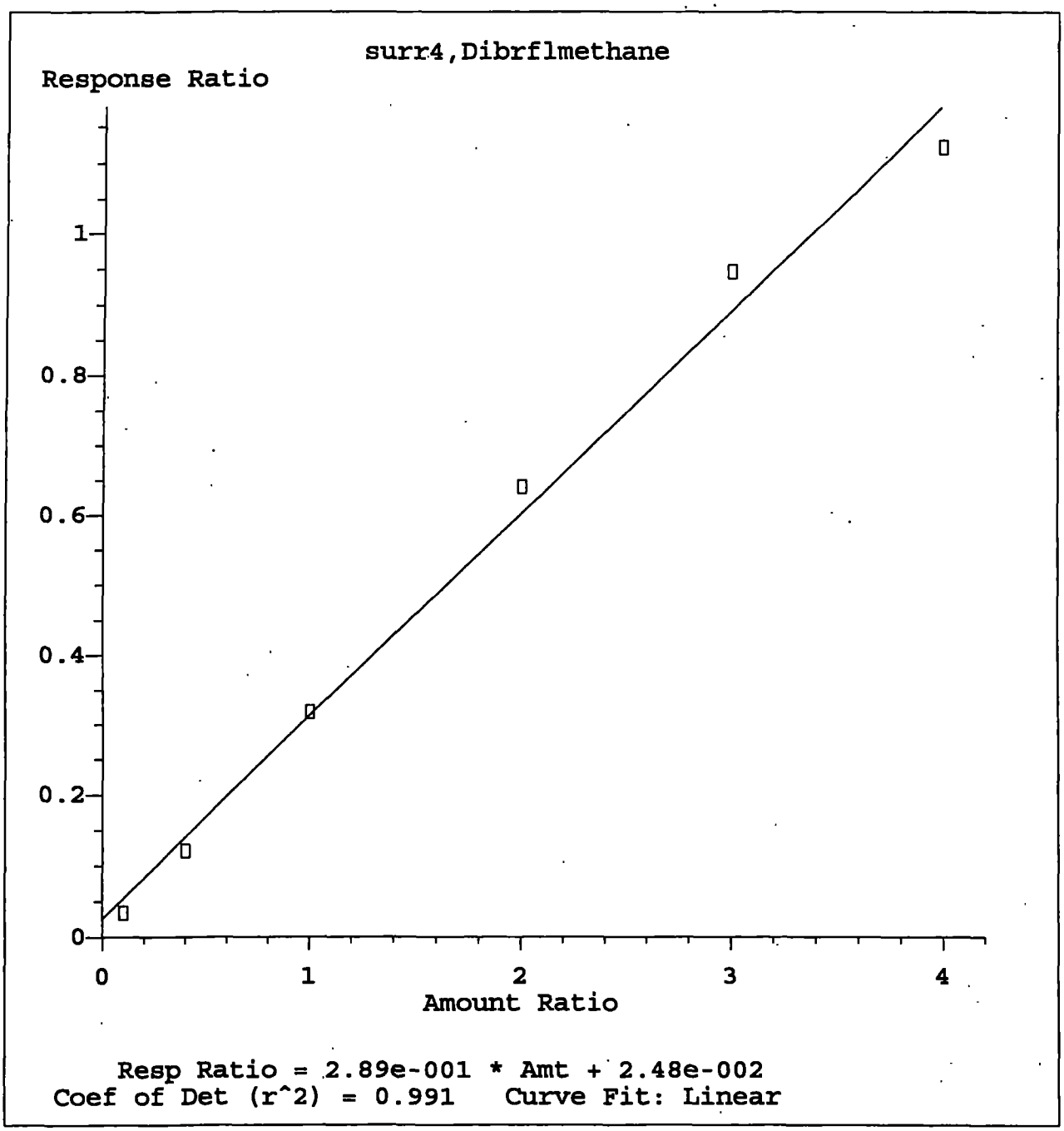
(#) = Out of Range ### Number of calibration levels exceeded format ###



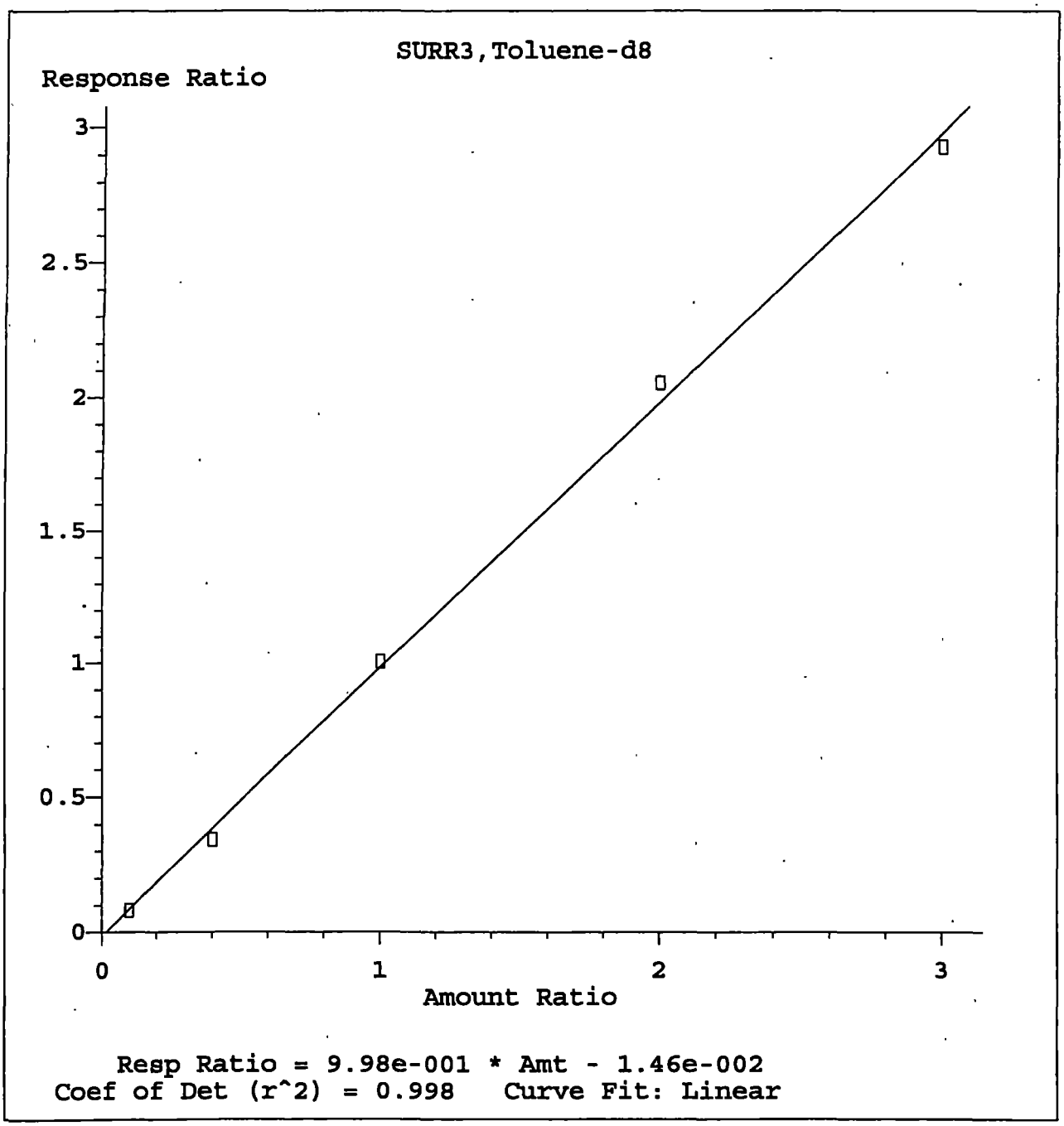
Method Name: J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M
Calibration Table Last Updated: Fri Jan 25 10:28:15 2002



Method Name: J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M
Calibration Table Last Updated: Fri Jan 25 10:24:47 2002



Method Name: J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M
Calibration Table Last Updated: Fri Jan 25 10:28:15 2002



Method Name: J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M
Calibration Table Last Updated: Fri Jan 25 10:28:15 2002

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7207.D Vial: 88
Acq On : 24 Jan 2002 11:29 am Operator: B.ALLGEIER
Sample : 1PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 25 9:14 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 21 13:30:44 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.56	168	510490	50.00 ug/L	-0.01
34) 1,4-Difluorobenzene	12.92	114	758718	50.00 ug/L	-0.01
58) d5-Chlorobenzene	18.20	117	641121	50.00 ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.52	152	336845	50.00 ug/L	0.00
System Monitoring Compounds					
35) surr4,Dibrflmethane	11.61	113	255621	50.30 ug/L	-0.01
Spiked Amount 50.000			Recovery =	100.60%	
52) SURR3,Toluene-d8	15.55	98	772001	50.38 ug/L	0.00
Spiked Amount 50.000			Recovery =	100.76%	
57) SURR2,BFB	20.34	95	291040	39.99 ug/L	0.00
Spiked Amount 50.000			Recovery =	79.98%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.88	85	7418	1.01 ug/L	95
3) Chloromethane	4.33	50	10686	0.97 ug/L	99
4) Vinyl Chloride	4.58	62	7412m >84	1.32 ug/L	
5) Bromomethane	5.39	94	6654m 165	1.50 ug/L	
6) Chloroethane	5.62	64	5407	1.25 ug/L	71
7) Trichlorofluoromethane	6.18	101	8282	0.84 ug/L	93
8) Diethyl Ether	6.78	59	3203	0.72 ug/L	60
9) Acrolein	7.15	56	4121	4.59 ug/L	95
10) 1,1-Diclethene	7.31	96	5765	1.34 ug/L #	57
11) Freon 113	7.25	101	5882	1.30 ug/L	87
12) Acetone	7.47	43	4732	2.64 ug/L	79
14) Carbon Disulfide	7.83	76	17633	1.13 ug/L	99
16) Allyl Chloride	8.06	76	2638	1.14 ug/L	46
17) Methylene Chloride	8.34	84	7485	1.53 ug/L #	46
18) TBA	8.51	59	6622	16.35 ug/L #	52
19) Acrylonitrile	8.84	53	7710	3.76 ug/L	93
20) Methyl-t-Butyl Ether	8.78	73	8213	0.72 ug/L #	85
21) trans-1,2-Dichloroethene	8.84	96	6911	1.42 ug/L #	52
22) 1,1-Diclethane	9.67	63	9638	0.90 ug/L #	89
23) Vinyl Acetate	9.68	43	7294	0.65 ug/L	97
24) 2-Chloro-1,3-Butadiene	9.81	53	7082	0.62 ug/L	85
25) 2,2-Dichloropropane	10.73	77	6523	0.80 ug/L #	87
26) cis-1,2-Dichloroethene	10.74	96	5947	1.12 ug/L #	60
28) Propionitrile	10.92	54	3606	4.68 ug/L #	73
29) Bromochloromethane	11.22	128	3763	1.49 ug/L #	66
32) Chloroform	11.31	83	9983	1.00 ug/L #	79
33) 1,1,1-Trichloroethane	11.63	97	6663	0.77 ug/L #	19

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7207.D Vial: 88
Acq On : 24 Jan 2002 11:29 am Operator: B.ALLGEIER
Sample : 1PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 25 9:14 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 21 13:30:44 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
36)	Carbontetrachloride	11.91	117	6120	0.82 ug/L	#	84
37)	1,1-Dichloropropene	11.91	110	2223	0.94 ug/L	#	65
38)	Benzene	12.32	78	20917	1.13 ug/L	#	84
39)	1,2-Dichloroethane	12.36	62	6499	0.64 ug/L	#	70
41)	n-Heptane	12.59	43	9422	0.81 ug/L		97
42)	Trichloroethene	13.42	130	5314	1.05 ug/L		91
43)	1,2-Diclpropane	13.86	63	6103	0.99 ug/L	#	69
44)	Dibromomethane	14.12	93	3221	1.02 ug/L		88
47)	Bromodichloromethane	14.34	83	7018	0.98 ug/L	#	88
49)	2-Chloroethylvinyl Ether	14.78	63	2491	3.88 ug/L	#	78
50)	cis-1,3-Dichloropropene	15.10	75	5941	0.78 ug/L	#	86
51)	4-Methyl-2-pentanone	15.29	43	3624	0.73 ug/L	#	38
53)	Toluene	15.68	91	20810	1.06 ug/L	#	93
54)	trans-1,3-Dichloropropene	16.07	75	5090	0.73 ug/L	#	80
55)	Ethyl Methacrylate	16.09	69	3625	3.48 ug/L	#	56
56)	1,1,2-Trichloroethane	16.43	97	3557	0.87 ug/L	#	62
59)	Tetrachloroethene	16.66	164	5427	1.35 ug/L	#	76
60)	2-Hexanone	16.78	43	3311	0.99 ug/L		94
61)	1,3-Dichloropropane	16.73	76	5223	0.75 ug/L	#	68
62)	Dibromochloromethane	17.18	129	4496	0.94 ug/L	#	72
63)	1,2-Dibromoethane	17.42	107	3777	0.91 ug/L	#	97
64)	Chlorobenzene	18.25	112	13898	1.03 ug/L		95
65)	1,1,1,2-Tetrachloroethane	18.38	131	4436	0.97 ug/L		95
66)	Ethylbenzene	18.38	106	6325	0.95 ug/L		94
67)	(m+p)Xylene	18.58	106	11206	1.35 ug/L	#	85
68)	o-Xylene	19.33	106	7336	0.90 ug/L	#	67
69)	Styrene	19.36	104	9481	0.70 ug/L		94
70)	Bromoform	19.83	173	3250	1.02 ug/L		88
71)	Isopropylbenzene	19.97	105	14550	0.68 ug/L		95
72)	Cyclohexanone	20.29	55	6368	22.90 ug/L		84
73)	trans-1,4-Dichloro-2-Buten	20.68	53	2239	0.89 ug/L	#	60
75)	1,1,2,2-Tetrachloroethane	20.60	83	5401	1.23 ug/L		93
76)	Bromobenzene	20.68	156	5262	1.04 ug/L		91
77)	1,2,3-Trichloropropane	20.71	110	1757	1.44 ug/L	#	56
78)	n-Propylbenzene	20.74	91	22919	0.91 ug/L		99
79)	2-Chlorotoluene	20.99	91	14720	0.85 ug/L		96
80)	4-Chlorotoluene	21.18	91	12750	0.80 ug/L	#	89
81)	1,3,5-Trimethylbenzene	21.04	105	11469	0.69 ug/L	#	92
82)	tert-Butylbenzene	21.68	119	8628	0.64 ug/L	#	82
83)	1,2,4-Trimethylbenzene	21.78	105	10956	0.64 ug/L	#	85
84)	sec-Butylbenzene	22.09	105	17235	0.79 ug/L	#	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7207.D Vial: 88
Acq On : 24 Jan 2002 11:29 am Operator: B.ALLGEIER
Sample : 1PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 25 9:14 2002 Quant Results File: EXP0124.RES

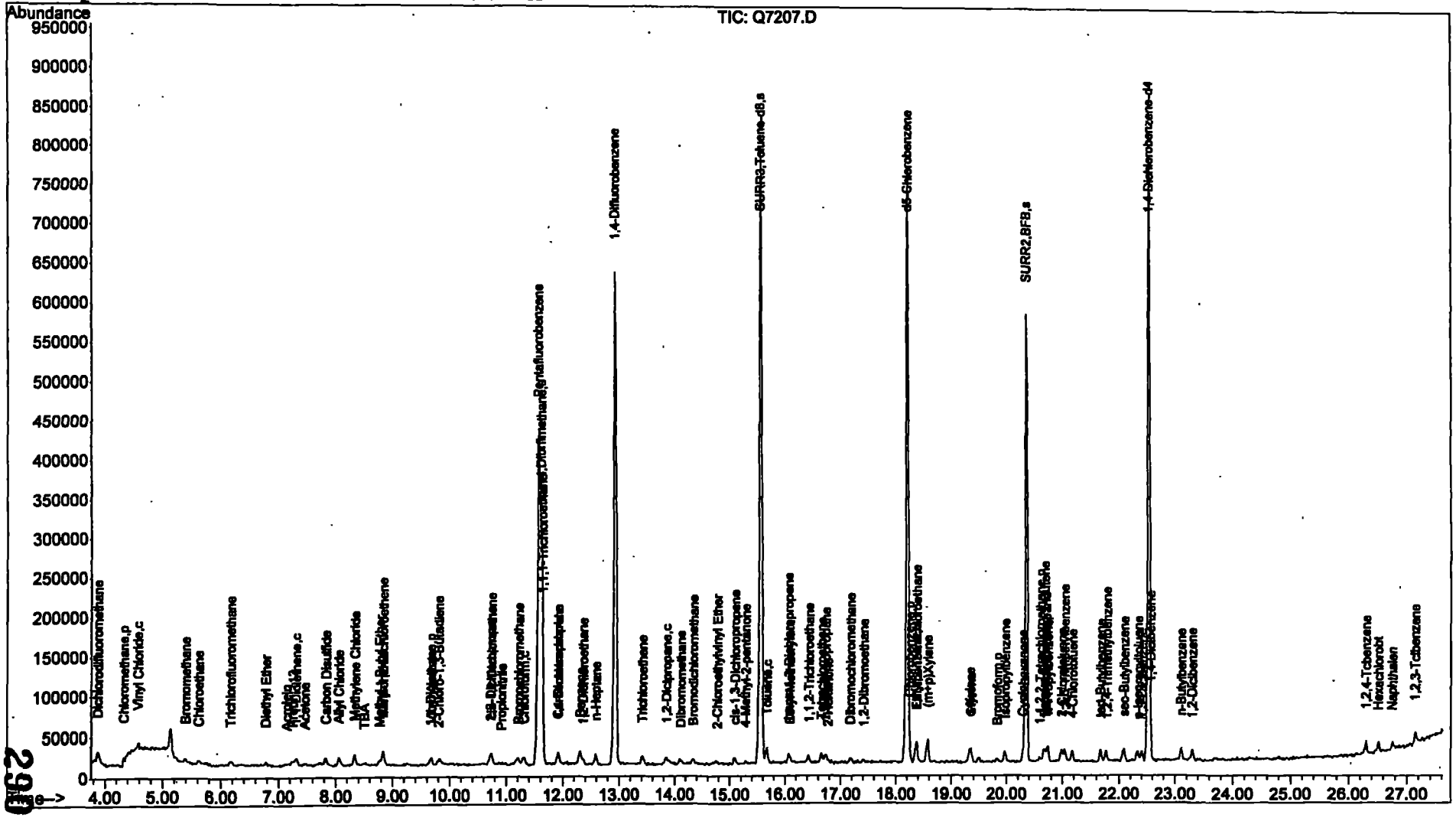
Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 21 13:30:44 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) p-Isopropyltoluene	22.34	119	12554	0.69 ug/L	97
86) 1,3-Diclbenzene	22.41	146	8475	0.93 ug/L	96
87) 1,4-Diclbenzene	22.56	146	12114	1.22 ug/L #	85
88) n-Butylbenzene	23.11	91	14583	0.78 ug/L	88
89) 1,2-Diclbenzene	23.30	146	8647	0.96 ug/L	89
92) 1,2,4-Tcbenzene	26.30	180	6319	0.89 ug/L #	95
93) Hexachlorobt	26.52	225	4485	0.95 ug/L	92
94) Naphthalen	26.75	128	10818	0.76 ug/L	97
95) 1,2,3-Tclbenzene	27.14	180	7047	1.07 ug/L	96

(#) = qualifier out of range (m) = manual integration

Data F. : J:\ACQUDATA\MSVOA6\DATA\012402\Q7207. Vial: 88
Acq On : 24 Jan 2002 11:29 am Operator: B.ALLGEIER
Sample : 1PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 25 9:14 2002 Quant Results File: EXP0124.RES

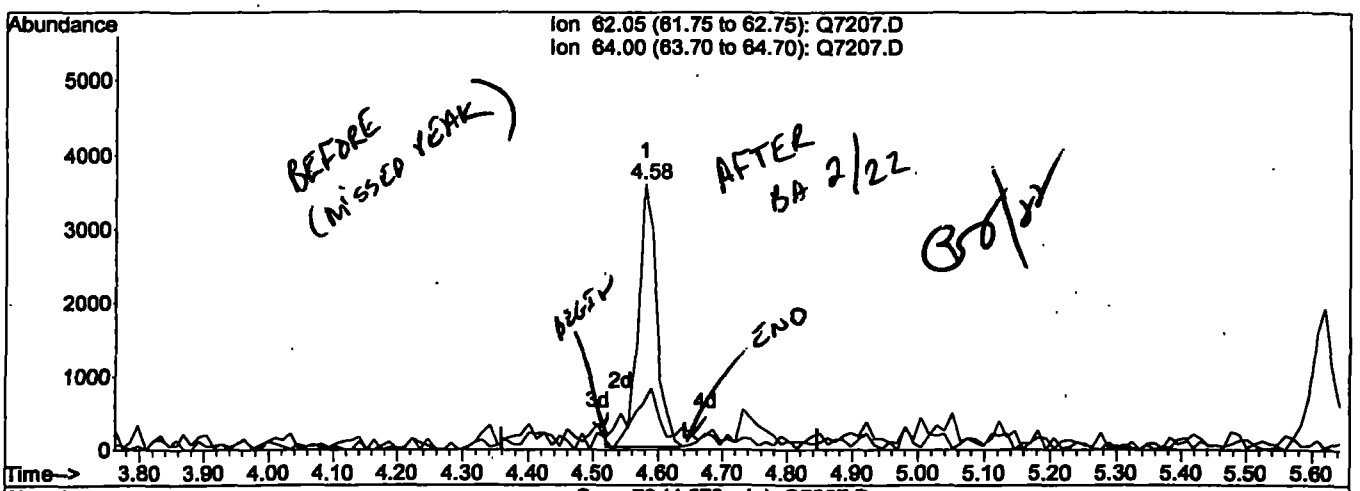
Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Fri Jan 25 10:28:15 2002
Response via : Initial Calibration

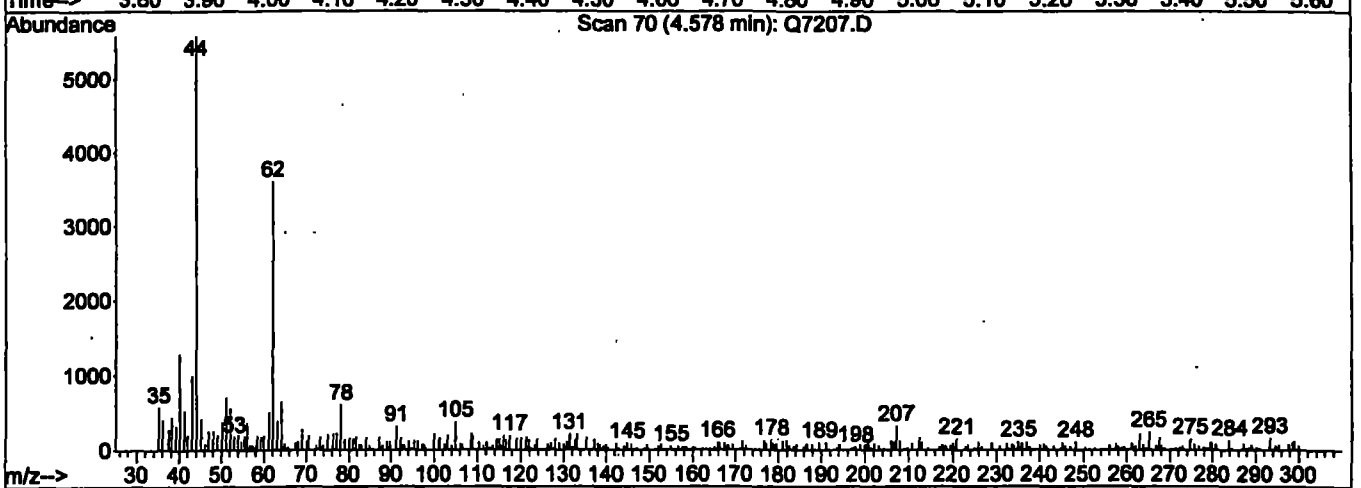


Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7207.D Vial: 88
Acq On : 24 Jan 2002 11:29 am Operator: B.ALLGEIER
Sample : 1PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 25 9:14 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration





(4) Vinyl Chloride (c)

4.58min 1.32ug/L m

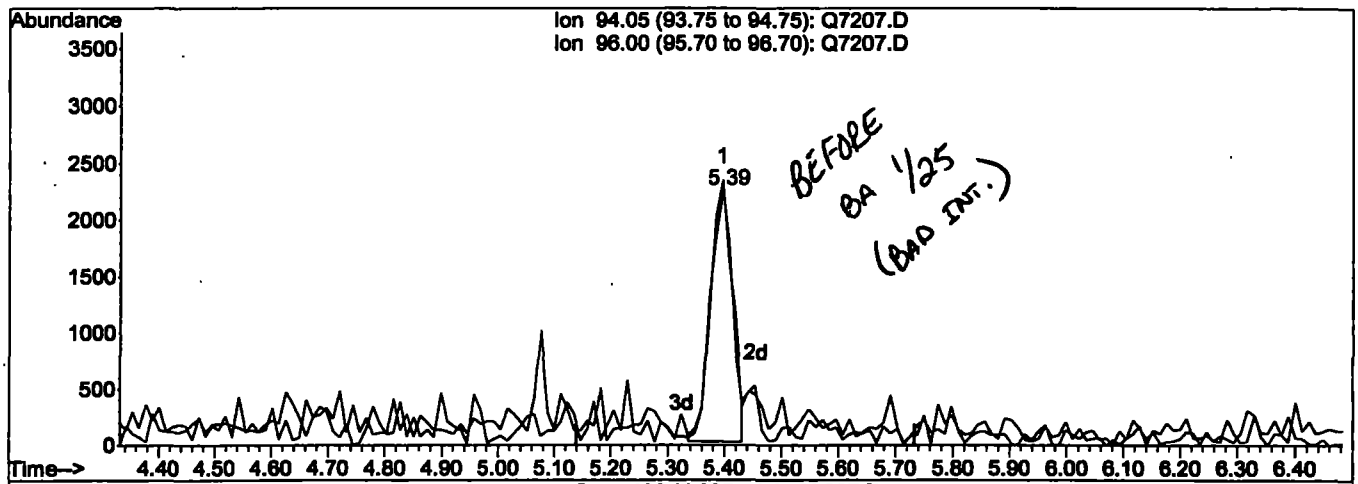
response 7412

Ion	Exp%	Act%
62.05	100	100
64.00	29.40	17.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7207.D Vial: 88
Acq On : 24 Jan 2002 11:29 am Operator: B.ALLGEIER
Sample : 1PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 25 9:07 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Fri Jan 25 08:57:48 2002
Response via : Multiple Level Calibration



(5) Bromomethane

5.39min 1.38ug/L

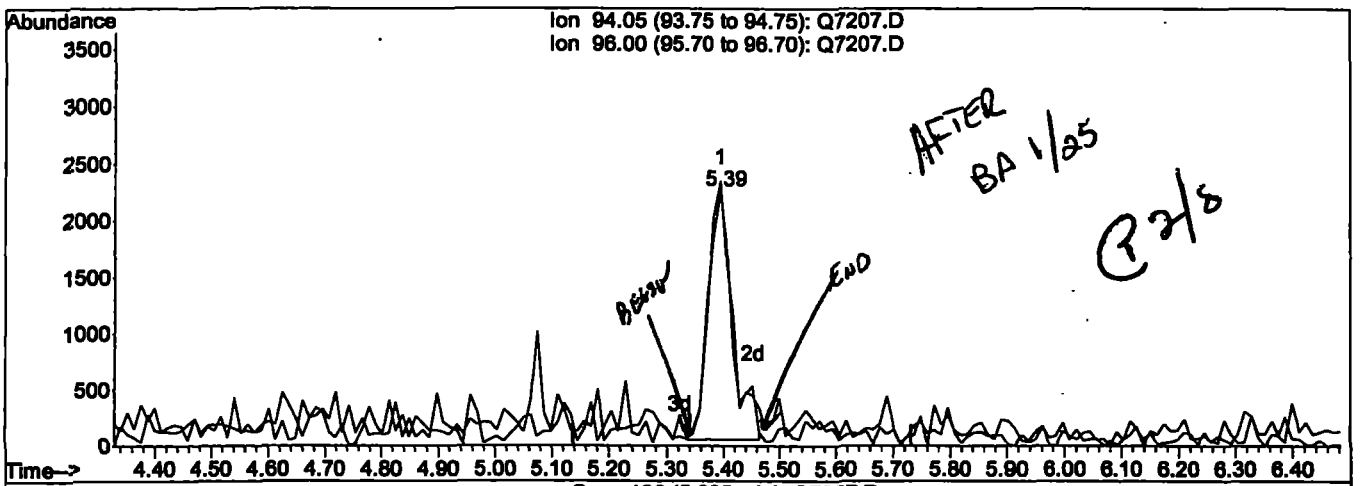
response 6112

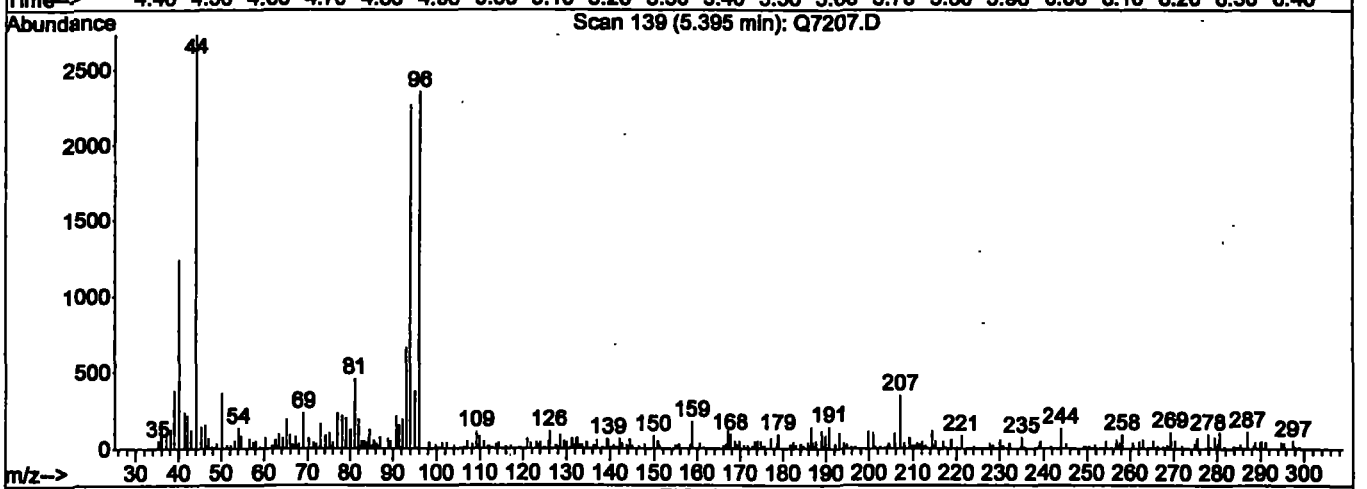
Ion	Exp%	Act%
94.05	100	100
96.00	92.00	103.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7207.D Vial: 88
Acq On : 24 Jan 2002 11:29 am Operator: B.ALLGEIER
Sample : 1PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 25 9:08 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Fri Jan 25 08:57:48 2002
Response via : Multiple Level Calibration





(5) Bromomethane

5.39min 1.50ug/L m

response 6654

Ion	Exp%	Act%
94.05	100	100
96.00	92.00	103.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7208.D Vial: 89
Acq On : 24 Jan 2002 12:03 pm Operator: B.ALLGEIER
Sample : 5PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 12:32 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 21 13:30:44 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.57	168	531160	50.00 ug/L	0.00
34) 1,4-Difluorobenzene	12.93	114	769596	50.00 ug/L	0.00
58) d5-Chlorobenzene	18.20	117	659110	50.00 ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.53	152	367965	50.00 ug/L	0.00
System Monitoring Compounds					
35) surr4,Dibrflmethane	11.62	113	26077	5.06 ug/L	0.00
Spiked Amount 50.000			Recovery	= 10.12%	
52) SURR3,Toluene-d8	15.56	98	63422	4.08 ug/L	0.00
Spiked Amount 50.000			Recovery	= 8.16%	
57) SURR2,BFB	20.34	95	27820	3.77 ug/L	0.00
Spiked Amount 50.000			Recovery	= 7.54%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.89	85	37320	4.89 ug/L	95
3) Chloromethane	4.33	50	51105	4.47 ug/L	98
4) Vinyl Chloride	4.59	62	31819	5.43 ug/L	82
5) Bromomethane	5.39	94	28032	6.07 ug/L	100
6) Chloroethane	5.63	64	22091	4.92 ug/L	94
7) Trichlorofluoromethane	6.19	101	39130	3.81 ug/L	95
8) Diethyl Ether	6.78	59	18652	4.05 ug/L	95
9) Acrolein	7.16	56	15222	16.28 ug/L	98
10) 1,1-Diclethene	7.32	96	21011	4.68 ug/L #	74
11) Freon 113	7.25	101	24501	5.20 ug/L	79
12) Acetone	7.46	43	7548	4.05 ug/L	87
13) Iodomethane	7.69	142	24450	4.34 ug/L	86
14) Carbon Disulfide	7.83	76	86527	5.34 ug/L #	99
16) Allyl Chloride	8.08	76	11983	4.99 ug/L	44
17) Methylene Chloride	8.34	84	29491	5.79 ug/L #	76
18) TBA	8.52	59	29466	69.93 ug/L	76
19) Acrylonitrile	8.85	53	50070	23.48 ug/L	97
20) Methyl-t-Butyl Ether	8.79	73	43701	3.66 ug/L #	98
21) trans-1,2-Dichloroethene	8.86	96	25816	5.11 ug/L #	75
22) 1,1-Diclethane	9.68	63	48465	4.35 ug/L	97
23) Vinyl Acetate	9.70	43	35845	3.05 ug/L	98
24) 2-Chloro-1,3-Butadiene	9.82	53	34283	2.90 ug/L	83
25) 2,2-Dichloropropane	10.73	77	28543	3.36 ug/L #	80
26) cis-1,2-Dichloroethene	10.75	96	28033	5.08 ug/L #	67
27) 2-Butanone	10.75	43	10839	4.05 ug/L	93
28) Propionitrile	10.92	54	19205	23.94 ug/L #	85
29) Bromochloromethane	11.22	128	15235	5.80 ug/L	78

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7208.D Vial: 89
Acq On : 24 Jan 2002 12:03 pm Operator: B.ALLGEIER
Sample : 5PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 12:32 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 21 13:30:44 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
30)	Methacrylonitrile	11.17	67	5836	3.97 ug/L		71
31)	Tetrahydrofuran	11.30	42	6905	4.02 ug/L		93
32)	Chloroform	11.32	83	45848	4.41 ug/L		91
33)	1,1,1-Trichloroethane	11.63	97	34483	3.81 ug/L	#	91
36)	Carbontetrachloride	11.94	117	28316	3.75 ug/L		89
37)	1,1-Dichloropropene	11.93	110	11688	4.89 ug/L		86
38)	Benzene	12.32	78	99385	5.32 ug/L	#	88
39)	1,2-Dichloroethane	12.36	62	33947	3.28 ug/L	#	86
40)	Iso-Butyl Alcohol	12.08	43	16331	152.52 ug/L		93
41)	n-Heptane	12.60	43	37547	3.20 ug/L		88
42)	Trichloroethene	13.43	130	25102	4.90 ug/L		94
43)	1,2-Diclpropane	13.85	63	28863	4.61 ug/L	#	97
44)	Dibromomethane	14.11	93	15393	4.82 ug/L		91
45)	1,4-Dioxane	14.08	88	3900	90.73 ug/L		94
46)	Methyl Methacrylate	13.91	69	7246	7.00 ug/L		87
47)	Bromodichloromethane	14.34	83	28671	3.95 ug/L		100
48)	2-Nitropropane	14.77	43	19651	13.87 ug/L	#	81
49)	2-Chloroethylvinyl Ether	14.77	63	12151	6.70 ug/L		93
50)	cis-1,3-Dichloropropene	15.10	75	32378	4.19 ug/L		97
51)	4-Methyl-2-pentanone	15.30	43	17218	3.42 ug/L	#	93
53)	Toluene	15.68	91	90505	4.53 ug/L		100
54)	trans-1,3-Dichloropropene	16.07	75	26786	3.81 ug/L	#	92
55)	Ethyl Methacrylate	16.10	69	14605	5.75 ug/L		90
56)	1,1,2-Trichloroethane	16.43	97	21673	5.23 ug/L		98
59)	Tetrachloroethene	16.66	164	23036	5.58 ug/L	#	84
60)	2-Hexanone	16.78	43	11846	3.43 ug/L	#	94
61)	1,3-Dichloropropane	16.74	76	31927	4.47 ug/L		96
62)	Dibromochloromethane	17.19	129	20797	4.21 ug/L		92
63)	1,2-Dibromoethane	17.43	107	19726	4.62 ug/L		99
64)	Chlorobenzene	18.26	112	69380	5.02 ug/L		98
65)	1,1,1,2-Tetrachloroethane	18.37	131	22957	4.88 ug/L	#	87
66)	Ethylbenzene	18.37	106	32628	4.75 ug/L		83
67)	(m+p)Xylene	18.58	106	79023	9.28 ug/L		86
68)	o-Xylene	19.35	106	34211	4.10 ug/L		88
69)	Styrene	19.37	104	55407	3.98 ug/L		94
70)	Bromoform	19.83	173	14630	4.47 ug/L		97
71)	Isopropylbenzene	19.97	105	77309	3.54 ug/L	#	90
72)	Cyclohexanone	20.29	55	34294	69.14 ug/L		99
73)	trans-1,4-Dichloro-2-Buten	20.69	53	8541	3.30 ug/L	#	14
75)	1,1,2,2-Tetrachloroethane	20.60	83	27761	5.80 ug/L		95
76)	Bromobenzene	20.67	156	26360	4.75 ug/L		90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7208.D Vial: 89
Acq On : 24 Jan 2002 12:03 pm Operator: B.ALLGEIER
Sample : 5PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 12:32 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 21 13:30:44 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

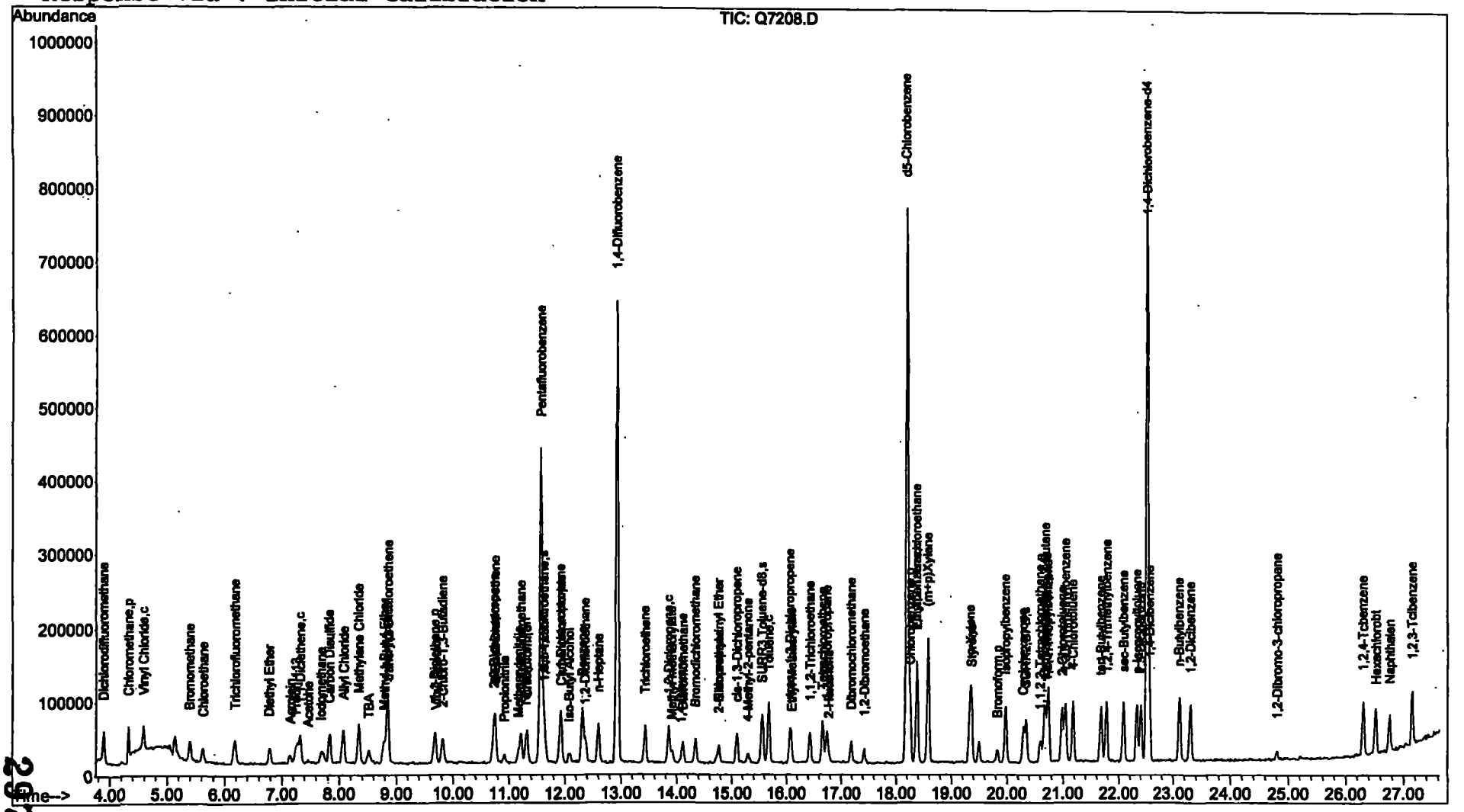
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77)	1,2,3-Trichloropropane	20.72	110	6369	4.76 ug/L	97
78)	n-Propylbenzene	20.74	91	123432	4.51 ug/L	97
79)	2-Chlorotoluene	20.99	91	77276	4.09 ug/L	96
80)	4-Chlorotoluene	21.18	91	74665	4.27 ug/L	97
81)	1,3,5-Trimethylbenzene	21.05	105	76211	4.21 ug/L	94
82)	tert-Butylbenzene	21.68	119	55195	3.74 ug/L	95
83)	1,2,4-Trimethylbenzene	21.78	105	72130	3.88 ug/L	88
84)	sec-Butylbenzene	22.09	105	96637	4.08 ug/L	98
85)	p-Isopropyltoluene	22.34	119	72566	3.68 ug/L	95
86)	1,3-Diclbenzene	22.41	146	53880	5.44 ug/L	92
87)	1,4-Diclbenzene	22.58	146	58202	5.37 ug/L	99
88)	n-Butylbenzene	23.11	91	84401	4.11 ug/L	96
89)	1,2-Diclbenzene	23.31	146	51918	5.27 ug/L	92
90)	1,2-Dibromo-3-chloropropan	24.81	75	4586	4.67 ug/L	88
92)	1,2,4-Tcbenzene	26.30	180	36257	4.69 ug/L	98
93)	Hexachlorobt	26.53	225	19606	3.80 ug/L	93
94)	Naphthalen	26.76	128	54324	3.65 ug/L #	96
95)	1,2,3-Tclbenzene	27.15	180	33541	4.64 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7208 Vial: 89
Acq On : 24 Jan 2002 12:03 pm Operator: B.ALLGEIER
Sample : 5PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 12:32 2002 Quant Results File: EXP0124.RES

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Fri Jan 25 10:28:15 2002
Response via : Initial Calibration



297

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7209.D Vial: 90
Acq On : 24 Jan 2002 12:38 pm Operator: B.ALLGEIER
Sample : 20PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 13:07 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 21 13:30:44 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.57	168	568100	50.00 ug/L	0.00
34) 1,4-Difluorobenzene	12.93	114	853155	50.00 ug/L	0.00
58) d5-Chlorobenzene	18.20	117	717759	50.00 ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.53	152	427374	50.00 ug/L	0.00
System Monitoring Compounds					
35) surr4,Dibrflmethane	11.62	113	103429	18.10 ug/L	0.00
Spiked Amount 50.000			Recovery =	36.20%	
52) SURR3,Toluene-d8	15.56	98	292439	16.97 ug/L	0.00
Spiked Amount 50.000			Recovery =	33.94%	
57) SURR2,BFB	20.34	95	134735	16.46 ug/L	0.00
Spiked Amount 50.000			Recovery =	32.92%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.89	85	143600	17.61 ug/L	95
3) Chloromethane	4.33	50	204158	16.70 ug/L	95
4) Vinyl Chloride	4.59	62	124825	19.93 ug/L	98
5) Bromomethane	5.39	94	97220	19.68 ug/L	98
6) Chloroethane	5.62	64	91349	19.01 ug/L	94
7) Trichlorofluoromethane	6.17	101	160114	14.57 ug/L	97
8) Diethyl Ether	6.78	59	82641	16.76 ug/L	92
9) Acrolein	7.13	56	71429	71.45 ug/L	100
10) 1,1-Diclethene	7.31	96	90234	18.79 ug/L #	74
11) Freon 113	7.26	101	91946	18.26 ug/L	97
12) Acetone	7.46	43	31433	15.76 ug/L	97
13) Iodomethane	7.69	142	122413	16.95 ug/L	82
14) Carbon Disulfide	7.83	76	339638	19.61 ug/L	97
16) Allyl Chloride	8.07	76	48449	18.86 ug/L	56
17) Methylene Chloride	8.34	84	111420	20.45 ug/L #	74
18) TBA	8.51	59	131490	291.78 ug/L	95
19) Acrylonitrile	8.84	53	219012	96.03 ug/L	95
20) Methyl-t-Butyl Ether	8.79	73	193816	15.19 ug/L	96
21) trans-1,2-Dichloroethene	8.85	96	107294	19.86 ug/L	87
22) 1,1-Diclethane	9.66	63	197597	16.60 ug/L	95
23) Vinyl Acetate	9.69	43	172934	13.75 ug/L #	92
24) 2-Chloro-1,3-Butadiene	9.81	53	155948	12.34 ug/L	77
25) 2,2-Dichloropropane	10.72	77	123263	13.57 ug/L #	95
26) cis-1,2-Dichloroethene	10.75	96	113718	19.25 ug/L	81
27) 2-Butanone	10.74	43	47193	16.47 ug/L	94
28) Propionitrile	10.91	54	76037	88.62 ug/L	91
29) Bromochloromethane	11.21	128	56556	20.15 ug/L	83

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7209.D Vial: 90
Acq On : 24 Jan 2002 12:38 pm Operator: B.ALLGEIER
Sample : 20PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 13:07 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 21 13:30:44 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) Methacrylonitrile	11.17	67	28390	18.05 ug/L #	60
31) Tetrahydrofuran	11.27	42	30487	16.60 ug/L #	81
32) Chloroform	11.32	83	169253	15.23 ug/L	92
33) 1,1,1-Trichloroethane	11.64	97	131448	13.58 ug/L #	85
36) Carbontetrachloride	11.92	117	106899	12.76 ug/L	93
37) 1,1-Dichloropropene	11.92	110	48270	18.23 ug/L #	74
38) Benzene	12.32	78	393430	18.98 ug/L #	86
39) 1,2-Dichloroethane	12.37	62	134036	11.70 ug/L #	87
40) Iso-Butyl Alcohol	12.07	43	71454	351.72 ug/L	95
41) n-Heptane	12.59	43	177187	13.61 ug/L	97
42) Trichloroethene	13.43	130	100904	17.77 ug/L	94
43) 1,2-Diclpropane	13.85	63	122118	17.58 ug/L #	99
44) Dibromomethane	14.10	93	65451	18.48 ug/L	92
45) 1,4-Dioxane	14.08	88	16788	352.29 ug/L	90
46) Methyl Methacrylate	13.91	69	39298	18.39 ug/L	86
47) Bromodichloromethane	14.34	83	126194	15.69 ug/L	98
48) 2-Nitropropane	14.75	43	89993	30.66 ug/L	94
49) 2-Chloroethylvinyl Ether	14.76	63	52970	17.14 ug/L	92
50) cis-1,3-Dichloropropene	15.10	75	142285	16.63 ug/L	98
51) 4-Methyl-2-pentanone	15.30	43	82605	14.81 ug/L	99
53) Toluene	15.68	91	403641	18.24 ug/L	97
54) trans-1,3-Dichloropropene	16.07	75	120920	15.51 ug/L	97
55) Ethyl Methacrylate	16.09	69	76461	17.03 ug/L	85
56) 1,1,2-Trichloroethane	16.42	97	85817	18.68 ug/L	96
59) Tetrachloroethene	16.66	164	89630	19.95 ug/L	90
60) 2-Hexanone	16.76	43	57259	15.22 ug/L	100
61) 1,3-Dichloropropane	16.74	76	142390	18.32 ug/L	97
62) Dibromochloromethane	17.18	129	94064	17.48 ug/L	99
63) 1,2-Dibromoethane	17.43	107	85519	18.40 ug/L	100
64) Chlorobenzene	18.26	112	281191	18.68 ug/L	94
65) 1,1,1,2-Tetrachloroethane	18.39	131	91001	17.76 ug/L #	88
66) Ethylbenzene	18.37	106	136943	18.32 ug/L	97
67) (m+p)Xylene	18.57	106	360529	38.86 ug/L	86
68) o-Xylene	19.33	106	159658	17.57 ug/L	91
69) Styrene	19.36	104	279211	18.42 ug/L	99
70) Bromoform	19.84	173	62917	17.66 ug/L	93
71) Isopropylbenzene	19.97	105	413516	17.39 ug/L	97
72) Cyclohexanone	20.29	55	203794	323.84 ug/L	85
73) trans-1,4-Dichloro-2-Buten	20.68	53	37018	13.14 ug/L	76
75) 1,1,2,2-Tetrachloroethane	20.60	83	110951	19.97 ug/L	98
76) Bromobenzene	20.67	156	117278	18.19 ug/L	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7209.D Vial: 90
Acq On : 24 Jan 2002 12:38 pm Operator: B.ALLGEIER
Sample : 20PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 13:07 2002 Quant Results File: EXP0124.RES

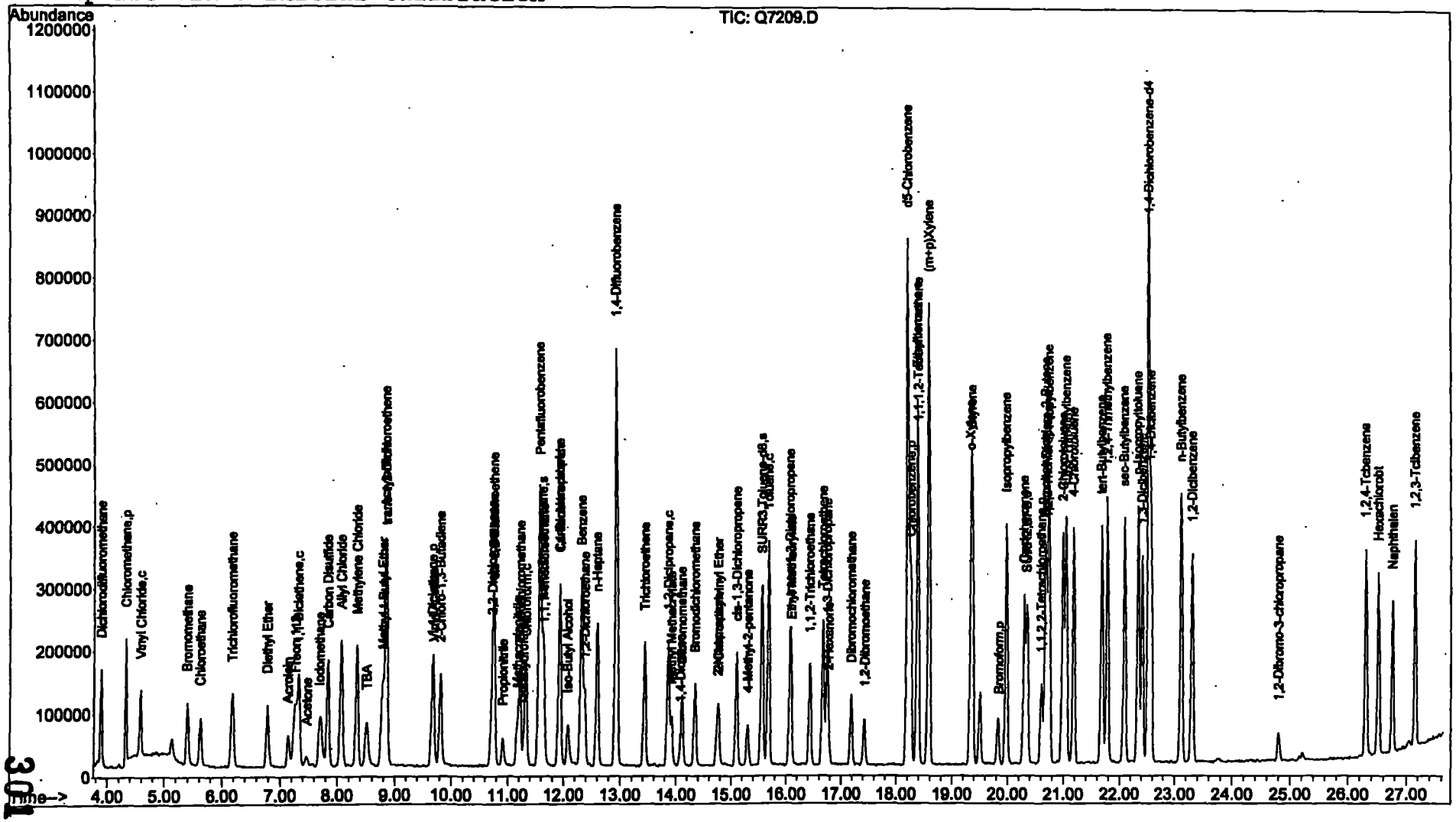
Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 21 13:30:44 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
77)	1,2,3-Trichloropropane	20.72	110	28453	18.32 ug/L		97
78)	n-Propylbenzene	20.74	91	586598	18.44 ug/L		97
79)	2-Chlorotoluene	20.99	91	369067	16.82 ug/L		93
80)	4-Chlorotoluene	21.18	91	342552	16.85 ug/L		92
81)	1,3,5-Trimethylbenzene	21.05	105	367801	17.49 ug/L		95
82)	tert-Butylbenzene	21.68	119	290620	16.96 ug/L		96
83)	1,2,4-Trimethylbenzene	21.77	105	373902	17.34 ug/L		91
84)	sec-Butylbenzene	22.08	105	495016	18.00 ug/L		98
85)	p-Isopropyltoluene	22.33	119	391847	17.09 ug/L		96
86)	1,3-Diclbenzene	22.41	146	228904	19.88 ug/L		96
87)	1,4-Diclbenzene	22.56	146	250592	19.89 ug/L		96
88)	n-Butylbenzene	23.12	91	409775	17.18 ug/L		99
89)	1,2-Diclbenzene	23.31	146	232665	20.35 ug/L		96
90)	1,2-Dibromo-3-chloropropan	24.80	75	18143	15.90 ug/L		91
92)	1,2,4-Tcbenzene	26.30	180	164832	18.36 ug/L		97
93)	Hexachlorobt	26.51	225	90074	15.03 ug/L		97
94)	Naphthalen	26.76	128	284969	16.64 ug/L	#	97
95)	1,2,3-Tclbenzene	27.15	180	161369	19.22 ug/L		98

(#) = qualifier out of range (m) = manual integration

Data Fi : J:\ACQUDATA\MSVOA6\DATA\012402\Q7209. Vial: 90
Acq On : 24 Jan 2002 12:38 pm Operator: B.ALLGEIER
Sample : 20PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 13:07 2002 Quant Results File: EXP0124.RES

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Fri Jan 25 10:28:15 2002
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7210.D Vial: 91
Acq On : 24 Jan 2002 1:23 pm Operator: B.ALLGEIER
Sample : 50PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 13:52 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 21 13:30:44 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.56	168	645729	50.00 ug/L	-0.01
34) 1,4-Difluorobenzene	12.92	114	972634	50.00 ug/L	-0.01
58) d5-Chlorobenzene	18.20	117	815634	50.00 ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.52	152	489197	50.00 ug/L	0.00
System Monitoring Compounds					
35) surr4,Dibrflmethane	11.61	113	309890	47.56 ug/L	-0.01
Spiked Amount 50.000			Recovery =	95.12%	
52) SURR3,Toluene-d8	15.55	98	977492	49.76 ug/L	0.00
Spiked Amount 50.000			Recovery =	99.52%	
57) SURR2,BFB	20.34	95	423920	45.44 ug/L	0.00
Spiked Amount 50.000			Recovery =	90.88%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.88	85	445002	48.01 ug/L	96
3) Chloromethane	4.33	50	606235	43.62 ug/L	100
4) Vinyl Chloride	4.58	62	368224	51.73 ug/L	99
5) Bromomethane	5.40	94	295844	52.68 ug/L	98
6) Chloroethane	5.62	64	275240	50.39 ug/L	99
7) Trichlorofluoromethane	6.18	101	473591	37.92 ug/L	99
8) Diethyl Ether	6.77	59	263521	47.03 ug/L	94
9) Acrolein	7.14	56	225732	198.64 ug/L	92
10) 1,1-Diclethene	7.31	96	277254	50.81 ug/L #	83
11) Freon 113	7.25	101	276406	48.30 ug/L	95
12) Acetone	7.44	43	88572	39.07 ug/L	92
13) Iodomethane	7.68	142	449458	52.71 ug/L	83
14) Carbon Disulfide	7.82	76	1029937	52.32 ug/L	98
16) Allyl Chloride	8.06	76	154267	52.83 ug/L	58
17) Methylene Chloride	8.33	84	320280	51.72 ug/L #	79
18) TBA	8.50	59	429176	837.87 ug/L	99
19) Acrylonitrile	8.83	53	637248	245.83 ug/L	99
20) Methyl-t-Butyl Ether	8.77	73	617459	42.57 ug/L	97
21) trans-1,2-Dichloroethene	8.84	96	321240	52.31 ug/L	86
22) 1,1-Diclethane	9.67	63	612867	45.29 ug/L	98
23) Vinyl Acetate	9.68	43	578370	40.44 ug/L	98
24) 2-Chloro-1,3-Butadiene	9.81	53	500262	34.83 ug/L	74
25) 2,2-Dichloropropane	10.72	77	393960	38.17 ug/L #	93
26) cis-1,2-Dichloroethene	10.74	96	353318	52.62 ug/L	90
27) 2-Butanone	10.73	43	140701	43.21 ug/L #	87
28) Propionitrile	10.90	54	223059	228.71 ug/L	99
29) Bromochloromethane	11.21	128	164283	51.49 ug/L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7210.D Vial: 91
Acq On : 24 Jan 2002 1:23 pm Operator: B.ALLGEIER
Sample : 50PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 13:52 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 21 13:30:44 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) Methacrylonitrile	11.16	67	94465	52.84 ug/L #	69
31) Tetrahydrofuran	11.28	42	89452	42.84 ug/L #	89
32) Chloroform	11.31	83	512482	40.57 ug/L	94
33) 1,1,1-Trichloroethane	11.63	97	416567	37.87 ug/L #	96
36) Carbontetrachloride	11.93	117	352445	36.92 ug/L	95
37) 1,1-Dichloropropene	11.92	110	154391	51.14 ug/L	95
38) Benzene	12.31	78	1202535	50.90 ug/L #	87
39) 1,2-Dichloroethane	12.37	62	396442	30.35 ug/L #	91
40) Iso-Butyl Alcohol	12.07	43	232770	847.30 ug/L	99
41) n-Heptane	12.59	43	600694	40.48 ug/L	93
42) Trichloroethene	13.42	130	310708	47.99 ug/L	95
43) 1,2-Diclpropane	13.86	63	372371	47.03 ug/L #	100
44) Dibromomethane	14.11	93	192806	47.75 ug/L	95
45) 1,4-Dioxane	14.06	88	51176	941.98 ug/L	84
46) Methyl Methacrylate	13.92	69	129178	45.36 ug/L #	69
47) Bromodichloromethane	14.34	83	363915	39.68 ug/L	100
48) 2-Nitropropane	14.76	43	299866	73.23 ug/L #	81
49) 2-Chloroethylvinyl Ether	14.77	63	182471	45.43 ug/L #	89
50) cis-1,3-Dichloropropene	15.09	75	442242	45.33 ug/L	98
51) 4-Methyl-2-pentanone	15.29	43	267352	42.04 ug/L	98
53) Toluene	15.67	91	1247920	49.47 ug/L	99
54) trans-1,3-Dichloropropene	16.07	75	383308	43.12 ug/L	97
55) Ethyl Methacrylate	16.08	69	261160	45.61 ug/L	85
56) 1,1,2-Trichloroethane	16.42	97	260547	49.75 ug/L	97
59) Tetrachloroethene	16.66	164	268195	52.53 ug/L	93
60) 2-Hexanone	16.77	43	192653	45.08 ug/L	99
61) 1,3-Dichloropropane	16.73	76	425944	48.22 ug/L	99
62) Dibromochloromethane	17.18	129	293050	47.93 ug/L	99
63) 1,2-Dibromoethane	17.42	107	259775	49.17 ug/L	99
64) Chlorobenzene	18.25	112	841409	49.20 ug/L	94
65) 1,1,1,2-Tetrachloroethane	18.38	131	280209	48.11 ug/L	96
66) Ethylbenzene	18.38	106	450665	53.05 ug/L #	89
67) (m+p)Xylene	18.58	106	1145556	108.66 ug/L	86
68) o-Xylene	19.34	106	542864	52.56 ug/L	86
69) Styrene	19.36	104	905869	52.60 ug/L	99
70) Bromoform	19.82	173	204635	50.56 ug/L	99
71) Isopropylbenzene	19.97	105	1358998	50.28 ug/L	97
72) Cyclohexanone	20.28	55	583944	798.33 ug/L	92
73) trans-1,4-Dichloro-2-Buten	20.68	53	128098	40.00 ug/L #	48
75) 1,1,2,2-Tetrachloroethane	20.60	83	349009	54.87 ug/L	96
76) Bromobenzene	20.67	156	368548	49.95 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7210.D Vial: 91
Acq On : 24 Jan 2002 1:23 pm Operator: B.ALLGEIER
Sample : 50PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 13:52 2002 Quant Results File: EXP0124.RES

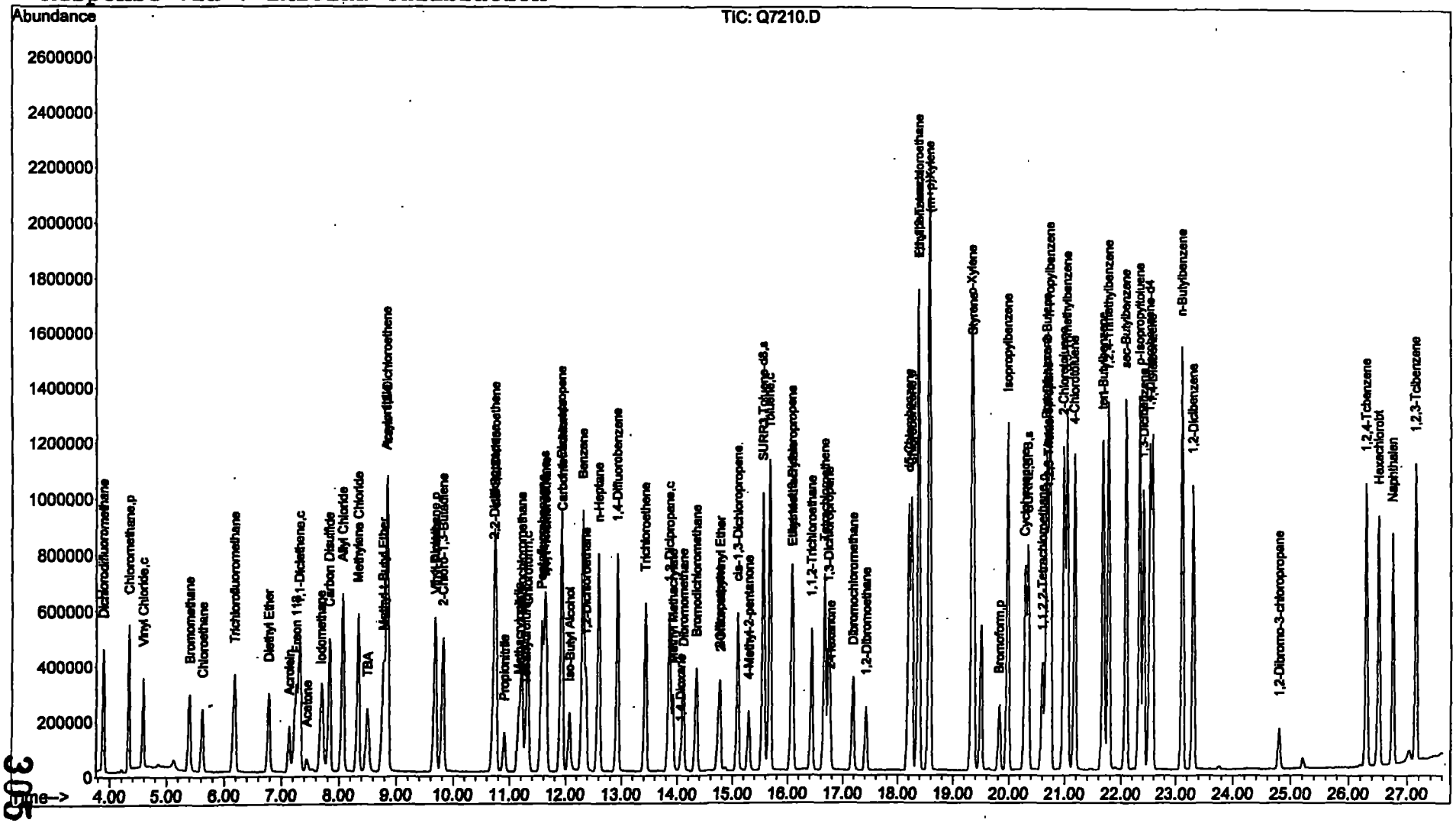
Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 21 13:30:44 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77)	1,2,3-Trichloropropane	20.71	110	80447	45.25 ug/L	75
78)	n-Propylbenzene	20.73	91	1871660	51.41 ug/L	96
79)	2-Chlorotoluene	20.98	91	1186130	47.22 ug/L	94
80)	4-Chlorotoluene	21.17	91	1087514	46.73 ug/L	93
81)	1,3,5-Trimethylbenzene	21.04	105	1180683	49.04 ug/L	94
82)	tert-Butylbenzene	21.68	119	981624	50.06 ug/L	96
83)	1,2,4-Trimethylbenzene	21.77	105	1219762	49.41 ug/L	93
84)	sec-Butylbenzene	22.08	105	1631456	51.81 ug/L	98
85)	p-Isopropyltoluene	22.33	119	1305510	49.76 ug/L	97
86)	1,3-Diclbenzene	22.40	146	687158	52.15 ug/L	97
87)	1,4-Diclbenzene	22.57	146	750893	52.08 ug/L	96
88)	n-Butylbenzene	23.11	91	1404101	51.44 ug/L	99
89)	1,2-Diclbenzene	23.30	146	698169	53.35 ug/L	96
90)	1,2-Dibromo-3-chloropropan	24.80	75	52851	40.47 ug/L	86
92)	1,2,4-Tcbenzene	26.31	180	508584	49.48 ug/L	99
93)	Hexachlorobt	26.52	225	291133	42.44 ug/L	99
94)	Naphthalen	26.75	128	923599	47.18 ug/L	98
95)	1,2,3-Tclbenzene	27.15	180	497002	51.73 ug/L	99

(#) = qualifier out of range (m) = manual integration

Data Fi. : J:\ACQUDATA\MSVOA6\DATA\012402\Q7210.. Vial: 91
Acq On : 24 Jan 2002 1:23 pm Operator: B.ALLGEIER
Sample : 50PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 13:52 2002 Quant Results File: EXP0124.RES

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Fri Jan 25 10:28:15 2002
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7211.D Vial: 92
Acq On : 24 Jan 2002 1:57 pm Operator: B.ALLGEIER
Sample : 100PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 25 9:26 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 21 13:30:44 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.57	168	720724	50.00	ug/L	0.00
34) 1,4-Difluorobenzene	12.93	114	1105816	50.00	ug/L	0.00
58) d5-Chlorobenzene	18.20	117	955869	50.00	ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.53	152	562458	50.00	ug/L	0.00
System Monitoring Compounds						
35) surr4,Dibrflmethane	11.62	113	708941	95.71	ug/L	0.00
Spiked Amount 50.000			Recovery	=	191.42%	
52) SURR3,Toluene-d8	15.56	98	2270873	101.67	ug/L	0.00
Spiked Amount 50.000			Recovery	=	203.34%	
57) SURR2,BFB	20.34	95	1026582	96.79	ug/L	0.00
Spiked Amount 50.000			Recovery	=	193.58%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.89	85	893644	86.38	ug/L	95
3) Chloromethane	4.33	50	1191247	76.80	ug/L	98
4) Vinyl Chloride	4.59	62	712361	89.67	ug/L	97
5) Bromomethane	5.41	94	654472	104.41	ug/L	97
6) Chloroethane	5.63	64	585151	95.98	ug/L	97
7) Trichlorofluoromethane	6.19	101	1000784	71.79	ug/L	98
8) Diethyl Ether	6.78	59	587567	93.94	ug/L	94
9) Acrolein	7.14	56	521195	410.92	ug/L	98
10) 1,1-Diclethene	7.32	96	590288	96.92	ug/L #	80
11) Freon 113	7.26	101	588334	92.10	ug/L	97
12) Acetone	7.45	43	195714	77.35	ug/L	92
13) Iodomethane	7.69	142	1113780	115.90	ug/L	83
14) Carbon Disulfide	7.83	76	2431254	110.66	ug/L	100
16) Allyl Chloride	8.07	76	356237	109.30	ug/L	48
17) Methylene Chloride	8.34	84	705487	102.08	ug/L #	71
18) TBA	8.51	59	1030379	1802.27	ug/L	95
19) Acrylonitrile	8.84	53	1435544	496.16	ug/L	99
20) Methyl-t-Butyl Ether	8.78	73	1440089	88.95	ug/L	98
21) trans-1,2-Dichloroethene	8.85	96	692587	101.05	ug/L	87
22) 1,1-Diclethane	9.68	63	1306313	86.49	ug/L	96
23) Vinyl Acetate	9.69	43	1377841	86.32	ug/L	94
24) 2-Chloro-1,3-Butadiene	9.82	53	1251071	78.04	ug/L	75
25) 2,2-Dichloropropane	10.73	77	874379	75.90	ug/L #	95
26) cis-1,2-Dichloroethene	10.75	96	772427	103.07	ug/L	80
27) 2-Butanone	10.74	43	325698	89.62	ug/L #	91
28) Propionitrile	10.91	54	512082m	470.43	ug/L	
29) Bromochloromethane	11.22	128	360830	101.32	ug/L	83

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7211.D Vial: 92
Acq On : 24 Jan 2002 1:57 pm Operator: B.ALLGEIER
Sample : 100PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 25 9:26 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 21 13:30:44 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) Methacrylonitrile	11.17	67	229858	115.20 ug/L #	57
31) Tetrahydrofuran	11.27	42	204436	87.72 ug/L #	79
32) Chloroform	11.32	83	1132307	80.31 ug/L #	93
33) 1,1,1-Trichloroethane	11.64	97	909018	74.03 ug/L #	95
36) Carbontetrachloride	11.94	117	788278	72.62 ug/L	96
37) 1,1-Dichloropropene	11.93	110	345895	100.78 ug/L	89
38) Benzene	12.32	78	2640837	98.32 ug/L #	87
39) 1,2-Dichloroethane	12.38	62	904309	60.90 ug/L #	90
40) Iso-Butyl Alcohol	12.07	43	561794	1703.32 ug/L	97
41) n-Heptane	12.60	43	1365053	80.91 ug/L	90
42) Trichloroethene	13.43	130	680141	92.39 ug/L	96
43) 1,2-Diclpropane	13.85	63	843305	93.68 ug/L #	99
44) Dibromomethane	14.11	93	427349	93.09 ug/L	95
45) 1,4-Dioxane	14.07	88	127584	2065.57 ug/L	86
46) Methyl Methacrylate	13.93	69	317944	93.46 ug/L	73
47) Bromodichloromethane	14.34	83	828793	79.49 ug/L	99
48) 2-Nitropropane	14.75	43	723675	145.88 ug/L	91
49) 2-Chloroethylvinyl Ether	14.77	63	439041	92.63 ug/L	95
50) cis-1,3-Dichloropropene	15.10	75	1032069	93.04 ug/L	99
51) 4-Methyl-2-pentanone	15.30	43	640014	88.52 ug/L #	97
53) Toluene	15.68	91	2753662	96.01 ug/L	99
54) trans-1,3-Dichloropropene	16.07	75	883736	87.45 ug/L	96
55) Ethyl Methacrylate	16.09	69	637995	94.89 ug/L	82
56) 1,1,2-Trichloroethane	16.43	97	595834	100.06 ug/L	98
59) Tetrachloroethene	16.67	164	570818	95.40 ug/L	94
60) 2-Hexanone	16.77	43	447432	89.33 ug/L #	94
61) 1,3-Dichloropropane	16.74	76	986969	95.33 ug/L	99
62) Dibromochloromethane	17.18	129	662850	92.52 ug/L	99
63) 1,2-Dibromoethane	17.43	107	612541	98.94 ug/L #	98
64) Chlorobenzene	18.26	112	1852673	92.44 ug/L	96
65) 1,1,1,2-Tetrachloroethane	18.39	131	631039	92.45 ug/L	92
66) Ethylbenzene	18.37	106	996052	100.05 ug/L	92
67) (m+p)Xylene	18.58	106	2486509	201.26 ug/L	90
68) o-Xylene	19.33	106	1238473	102.32 ug/L	87
69) Styrene	19.37	104	2033254	100.74 ug/L	99
70) Bromoform	19.83	173	457170	96.38 ug/L	99
71) Isopropylbenzene	19.97	105	3071480	96.97 ug/L	98
72) Cyclohexanone	20.29	55	1617620	1870.71 ug/L	91
73) trans-1,4-Dichloro-2-Buten	20.68	53	296782	79.08 ug/L #	76
75) 1,1,2,2-Tetrachloroethane	20.60	83	789294	107.93 ug/L	98
76) Bromobenzene	20.67	156	811613	95.67 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7211.D Vial: 92
Acq On : 24 Jan 2002 1:57 pm Operator: B.ALLGEIER
Sample : 100PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 25 9:26 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 21 13:30:44 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

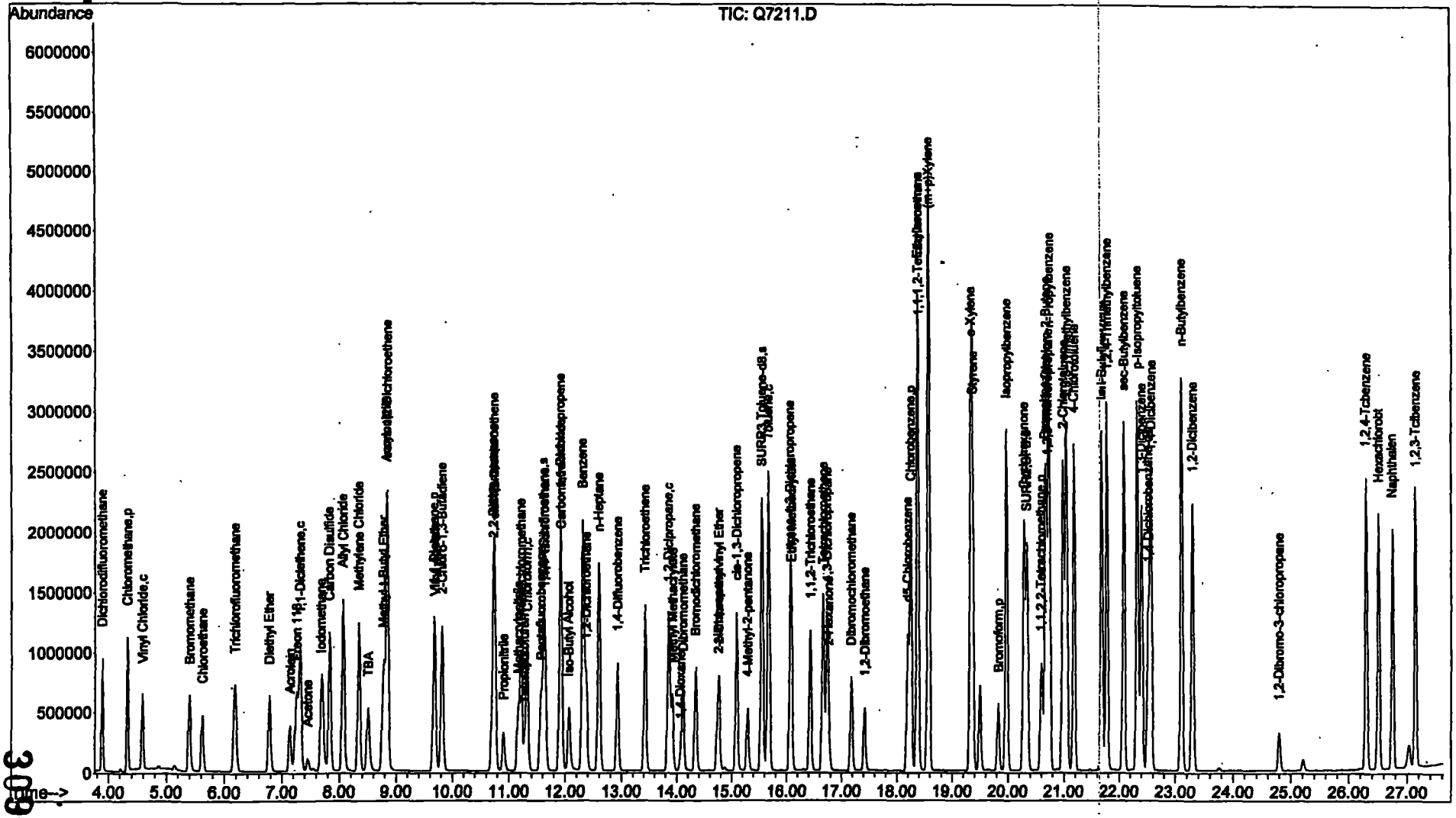
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) 1,2,3-Trichloropropane	20.72	110	190758	93.33 ug/L	82
78) n-Propylbenzene	20.74	91	4206694	100.49 ug/L	96
79) 2-Chlorotoluene	20.99	91	2734064	94.67 ug/L	95
80) 4-Chlorotoluene	21.18	91	2490652	93.09 ug/L	93
81) 1,3,5-Trimethylbenzene	21.05	105	2682445	96.91 ug/L	96
82) tert-Butylbenzene	21.68	119	2255111	100.02 ug/L	98
83) 1,2,4-Trimethylbenzene	21.77	105	2770981	97.62 ug/L	95
84) sec-Butylbenzene	22.08	105	3710715	102.50 ug/L	98
85) p-Isopropyltoluene	22.33	119	2962239	98.19 ug/L	97
86) 1,3-Diclbenzene	22.41	146	1504477	99.30 ug/L	98
87) 1,4-Diclbenzene	22.57	146	1669642	100.72 ug/L	96
88) n-Butylbenzene	23.11	91	3200320	101.97 ug/L	99
89) 1,2-Diclbenzene	23.31	146	1548434	102.92 ug/L	96
90) 1,2-Dibromo-3-chloropropan	24.80	75	125192	83.38 ug/L	84
92) 1,2,4-Tcbenzene	26.30	180	1183260	100.13 ug/L	98
93) Hexachlorobt	26.52	225	673423	85.38 ug/L	99
94) Naphthalen	26.75	128	2264509	100.66 ug/L	97
95) 1,2,3-Tclbenzene	27.15	180	1132534	102.52 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitat ı Report

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7211.D Vial: 92
Acq On : 24 Jan 2002 1:57 pm Operator: B.ALLGEIER
Sample : 100PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 25 9:26 2002 Quant Results File: EXP0124.RES

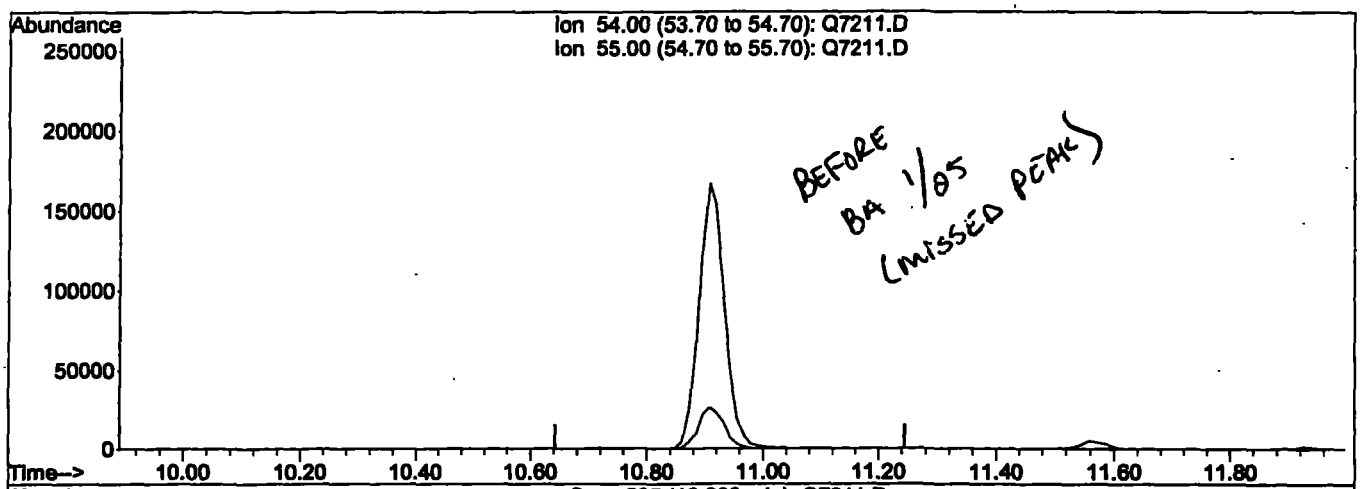
Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Fri Jan 25 10:28:15 2002
Response via : Initial Calibration

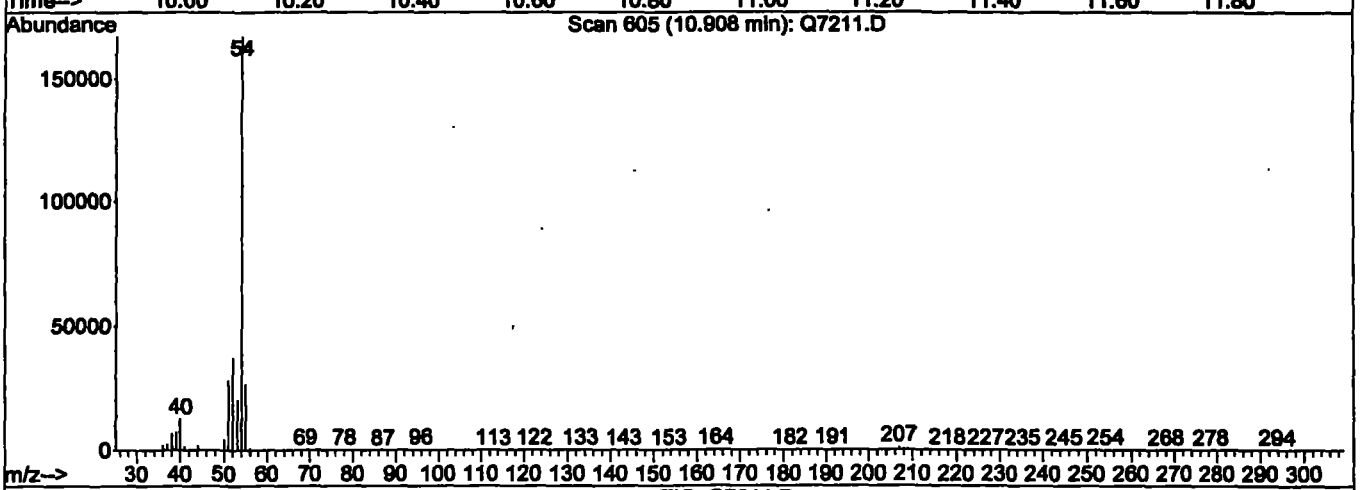


Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7211.D Vial: 92
Acq On : 24 Jan 2002 1:57 pm Operator: B.ALLGEIER
Sample : 100PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 14:25 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Fri Jan 25 08:57:48 2002
Response via : Multiple Level Calibration





(28) Propionitrile

10.91min 0.00ug/L

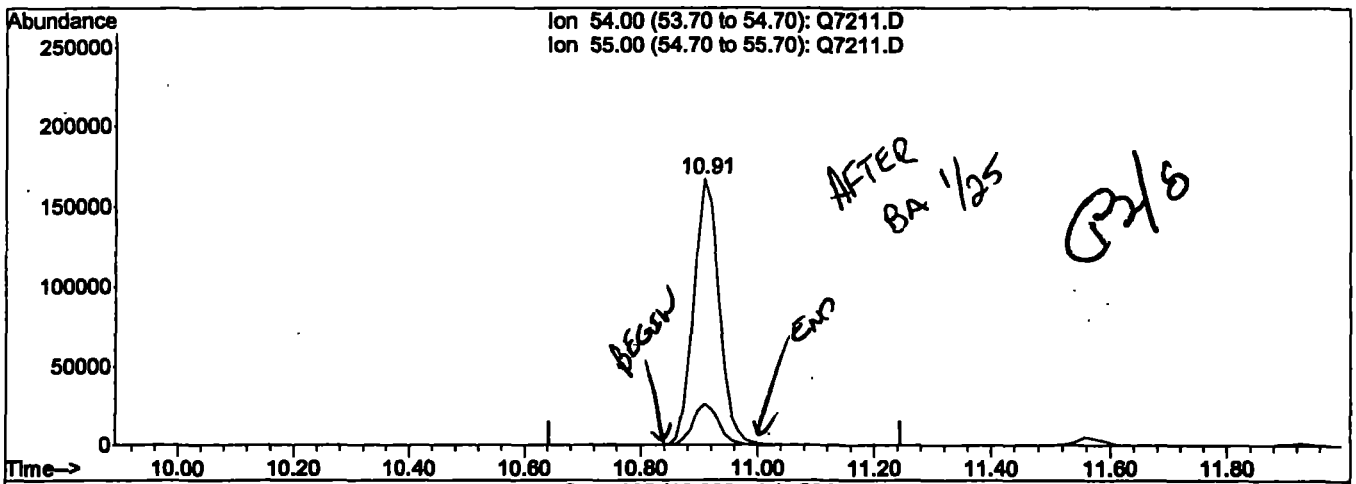
response 0

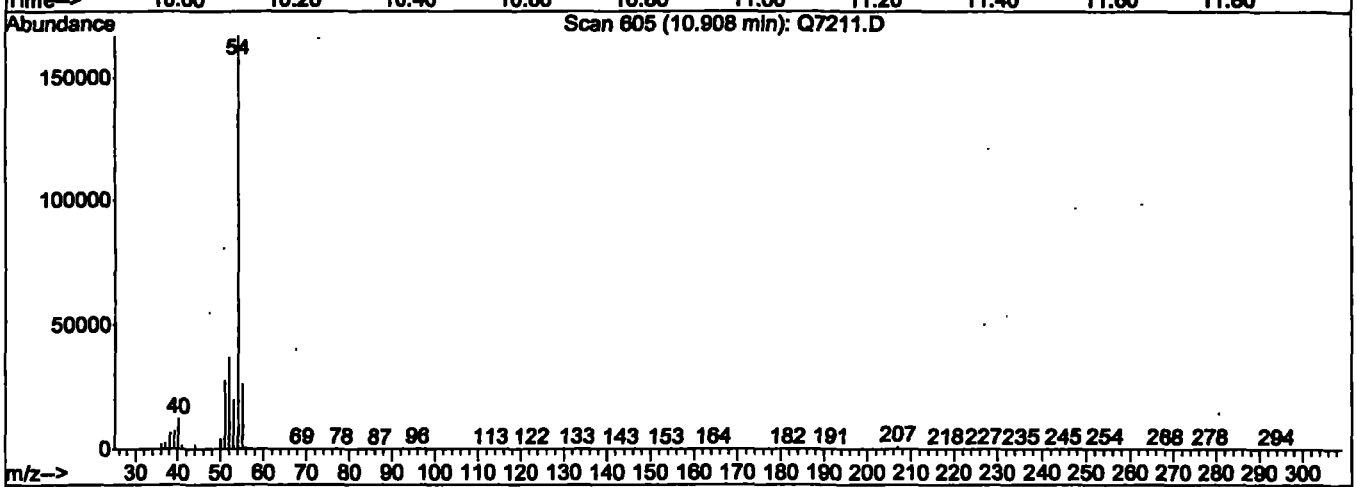
Ion	Exp%	Act%
54.00	100	0.00
55.00	15.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7211.D Vial: 92
Acq On : 24 Jan 2002 1:57 pm Operator: B.ALLGEIER
Sample : 100PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 25 9:26 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Fri Jan 25 08:57:48 2002
Response via : Multiple Level Calibration





TIC: Q7211.D

(28) Propionitrile

10.91min 470.43ug/L m

response 512082

Ion	Exp%	Act%
54.00	100	100
55.00	15.50	15.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7212.D Vial: 93
Acq On : 24 Jan 2002 2:51 pm Operator: B.ALLGEIER
Sample : 150PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 25 9:32 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 21 13:30:44 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.56	168	893163	50.00	ug/L	-0.01
34) 1,4-Difluorobenzene	12.92	114	1392503	50.00	ug/L	-0.01
58) d5-Chlorobenzene	18.19	117	1158318	50.00	ug/L	-0.01
74) 1,4-Dichlorobenzene-d4	22.52	152	632811	50.00	ug/L	0.00
System Monitoring Compounds						
35) surr4,Dibrflmethane	11.61	113	1317882	141.28	ug/L	-0.01
Spiked Amount 50.000			Recovery	=	282.56%	
52) SURR3,Toluene-d8	15.55	98	4078066	145.00	ug/L	0.00
Spiked Amount 50.000			Recovery	=	290.00%	
57) SURR2,BFB	20.34	95	1785211	133.66	ug/L	0.00
Spiked Amount 50.000			Recovery	=	267.32%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.88	85	1613422	125.85	ug/L	97
3) Chloromethane	4.33	50	2372990	123.45	ug/L	100
4) Vinyl Chloride	4.58	62	1259782	127.96	ug/L	97
5) Bromomethane	5.40	94	1125396	144.87	ug/L	97
6) Chloroethane	5.62	64	1074730	142.25	ug/L	100
7) Trichlorofluoromethane	6.18	101	1953726	113.10	ug/L	96
8) Diethyl Ether	6.77	59	1111350	143.38	ug/L	92
9) Acrolein	7.12	56	997424	634.57	ug/L	97
10) 1,1-Diclethene	7.31	96	1132977	150.10	ug/L #	80
11) Freon 113	7.24	101	1142162	144.28	ug/L	90
12) Acetone	7.44	43	382965	122.14	ug/L	94
13) Iodomethane	7.68	142	1961062	164.29	ug/L	83
14) Carbon Disulfide	7.82	76	4507228	165.54	ug/L	100
16) Allyl Chloride	8.06	76	646496	160.06	ug/L	43
17) Methylene Chloride	8.33	84	1326758	154.90	ug/L #	73
18) TBA	8.50	59	1932590	2727.72	ug/L	92
19) Acrylonitrile	8.83	53	2511768	700.52	ug/L	99
20) Methyl-t-Butyl Ether	8.77	73	2748276	136.98	ug/L	99
21) trans-1,2-Dichloroethene	8.84	96	1280011	150.69	ug/L	86
22) 1,1-Diclethane	9.66	63	2464250	131.65	ug/L	98
23) Vinyl Acetate	9.68	43	2561542	129.50	ug/L #	93
24) 2-Chloro-1,3-Butadiene	9.81	53	2423614	122.00	ug/L	76
25) 2,2-Dichloropropane	10.72	77	1728896	121.11	ug/L #	94
26) cis-1,2-Dichloroethene	10.75	96	1414763	152.33	ug/L	83
27) 2-Butanone	10.73	43	585542	130.01	ug/L #	90
28) Propionitrile	10.90	54	899560m	666.84	ug/L	
29) Bromochloromethane	11.21	128	639865	144.99	ug/L	83

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7212.D Vial: 93
Acq On : 24 Jan 2002 2:51 pm Operator: B.ALLGEIER
Sample : 150PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 25 9:32 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 21 13:30:44 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
30) Methacrylonitrile	11.15	67	418630	169.30 ug/L	#	58
31) Tetrahydrofuran	11.27	42	359488	124.47 ug/L	#	77
32) Chloroform	11.31	83	2156354	123.41 ug/L	#	93
33) 1,1,1-Trichloroethane	11.63	97	1775312	116.67 ug/L	#	96
36) Carbontetrachloride	11.93	117	1550646	113.44 ug/L		96
37) 1,1-Dichloropropene	11.92	110	634136	146.72 ug/L		92
38) Benzene	12.31	78	4724789	139.68 ug/L	#	88
39) 1,2-Dichloroethane	12.37	62	1682406	89.97 ug/L		93
40) Iso-Butyl Alcohol	12.06	43	1012358	2400.87 ug/L		94
41) n-Heptane	12.59	43	2379599	112.01 ug/L		91
42) Trichloroethene	13.42	130	1260700	136.00 ug/L		97
43) 1,2-Diclpropane	13.85	63	1507710	133.01 ug/L	#	98
44) Dibromomethane	14.11	93	778962	134.76 ug/L		99
45) 1,4-Dioxane	14.06	88	227641	2926.71 ug/L		85
46) Methyl Methacrylate	13.92	69	600425	138.12 ug/L	#	63
47) Bromodichloromethane	14.33	83	1575955	120.03 ug/L		99
48) 2-Nitropropane	14.74	43	1363155	213.99 ug/L		92
49) 2-Chloroethylvinyl Ether	14.76	63	815526	135.14 ug/L		93
50) cis-1,3-Dichloropropene	15.09	75	1938431	138.77 ug/L		99
51) 4-Methyl-2-pentanone	15.29	43	1171929	128.72 ug/L	#	95
53) Toluene	15.67	91	4916235	136.12 ug/L		98
54) trans-1,3-Dichloropropene	16.06	75	1631956	128.24 ug/L		97
55) Ethyl Methacrylate	16.08	69	1160979	135.92 ug/L		80
56) 1,1,2-Trichloroethane	16.42	97	1059249	141.26 ug/L		98
59) Tetrachloroethene	16.66	164	1048165	144.57 ug/L		96
60) 2-Hexanone	16.77	43	808835	133.26 ug/L	#	93
61) 1,3-Dichloropropane	16.73	76	1787822	142.50 ug/L		99
62) Dibromochloromethane	17.18	129	1230506	141.73 ug/L		98
63) 1,2-Dibromoethane	17.42	107	1101799	146.86 ug/L		100
64) Chlorobenzene	18.25	112	3317700	136.60 ug/L		96
65) 1,1,1,2-Tetrachloroethane	18.38	131	1120897	135.52 ug/L		97
66) Ethylbenzene	18.37	106	1729373	143.34 ug/L		93
67) (m+p)Xylene	18.57	106	4167019	278.33 ug/L		93
68) o-Xylene	19.32	106	2095126	142.85 ug/L		90
69) Styrene	19.36	104	3431334	140.29 ug/L		99
70) Bromoform	19.82	173	825000	143.52 ug/L		98
71) Isopropylbenzene	19.97	105	5403909	140.78 ug/L		98
72) Cyclohexanone	20.28	55	2224406	2121.21 ug/L		91
73) trans-1,4-Dichloro-2-Buten	20.68	53	502689	110.54 ug/L	#	50
75) 1,1,2,2-Tetrachloroethane	20.60	83	1360835	165.39 ug/L		98
76) Bromobenzene	20.67	156	1383553	144.96 ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7212.D Vial: 93
Acq On : 24 Jan 2002 2:51 pm Operator: B.ALLGEIER
Sample : 150PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 25 9:32 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 21 13:30:44 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

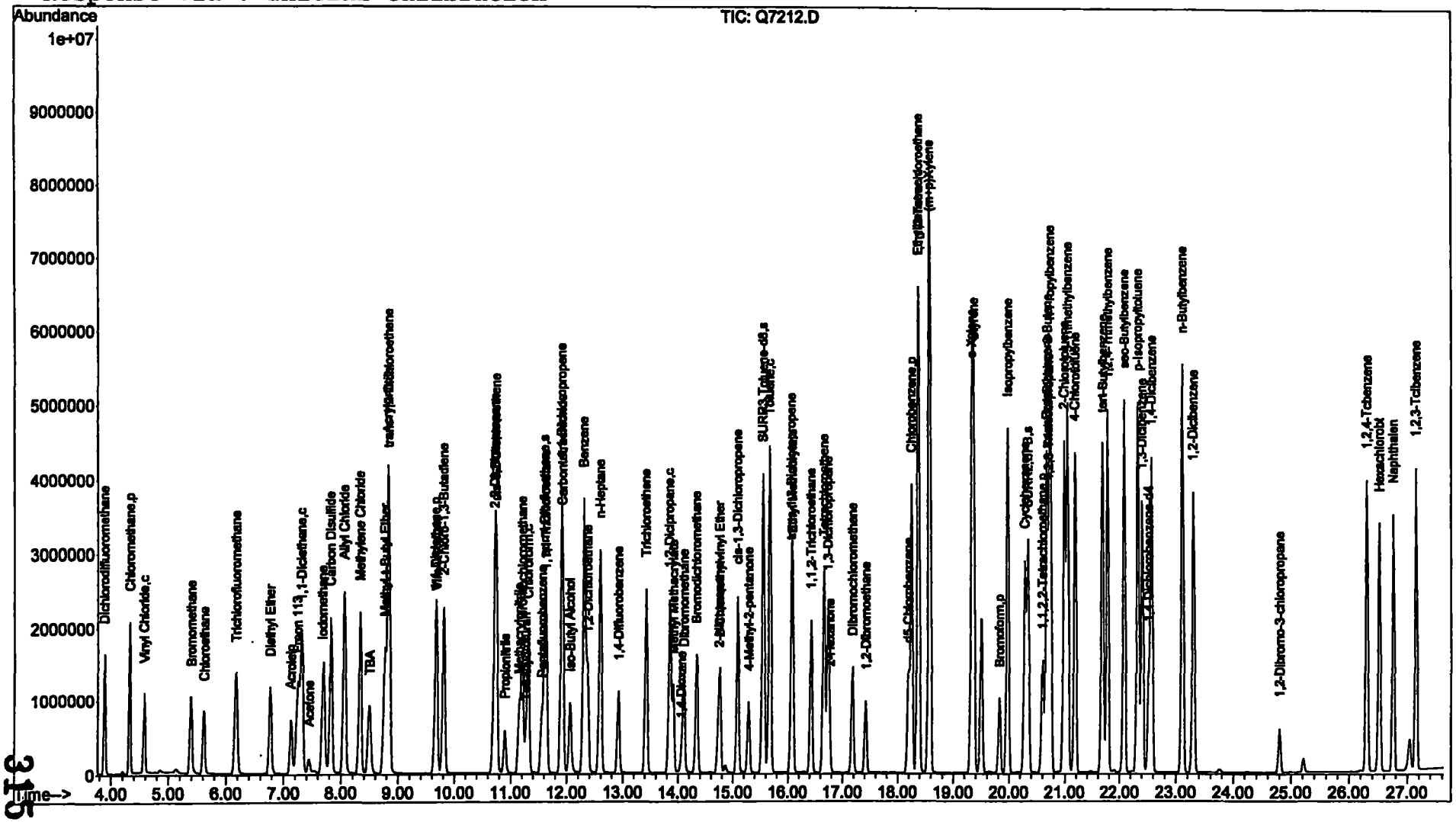
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77)	1,2,3-Trichloropropane	20.71	110	327175	142.28 ug/L	83
78)	n-Propylbenzene	20.73	91	7001117	148.66 ug/L	97
79)	2-Chlorotoluene	20.98	91	4664268	143.55 ug/L	96
80)	4-Chlorotoluene	21.17	91	4249780	141.18 ug/L	94
81)	1,3,5-Trimethylbenzene	21.04	105	4554073	146.23 ug/L	96
82)	tert-Butylbenzene	21.68	119	3804514	149.98 ug/L	97
83)	1,2,4-Trimethylbenzene	21.77	105	4682680	146.63 ug/L	94
84)	sec-Butylbenzene	22.08	105	6168707	151.45 ug/L	99
85)	p-Isopropyltoluene	22.33	119	4953457	145.95 ug/L	97
86)	1,3-Diclbenzene	22.40	146	2508347	147.16 ug/L	98
87)	1,4-Diclbenzene	22.57	146	2763236	148.16 ug/L	96
88)	n-Butylbenzene	23.11	91	5322277	150.72 ug/L	99
89)	1,2-Diclbenzene	23.30	146	2572611	151.98 ug/L	97
90)	1,2-Dibromo-3-chloropropan	24.80	75	226997	134.37 ug/L	88
92)	1,2,4-Tcbenzene	26.31	180	1978735	148.83 ug/L	99
93)	Hexachlorobt	26.52	225	1125215	126.81 ug/L	99
94)	Naphthalen	26.75	128	3956951	156.36 ug/L	98
95)	1,2,3-Tclbenzene	27.15	180	1867600	150.26 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7212.D Vial: 93
Acq On : 24 Jan 2002 2:51 pm Operator: B.ALLGEIER
Sample : 150PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 25 9:32 2002 Quant Results File: EXP0124.RES

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Fri Jan 25 10:28:15 2002
Response via : Initial Calibration

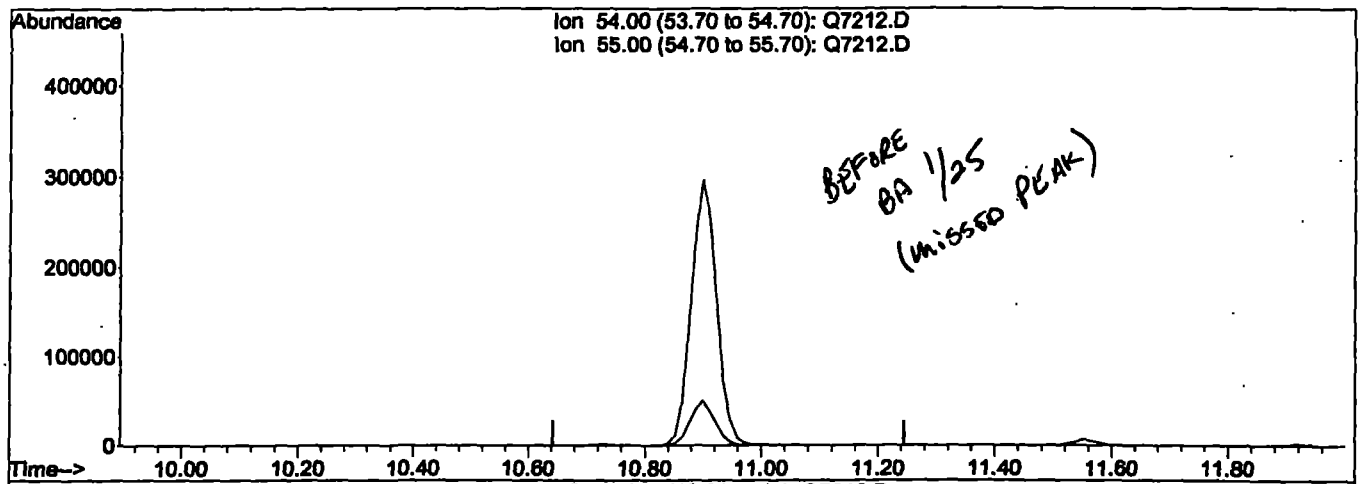


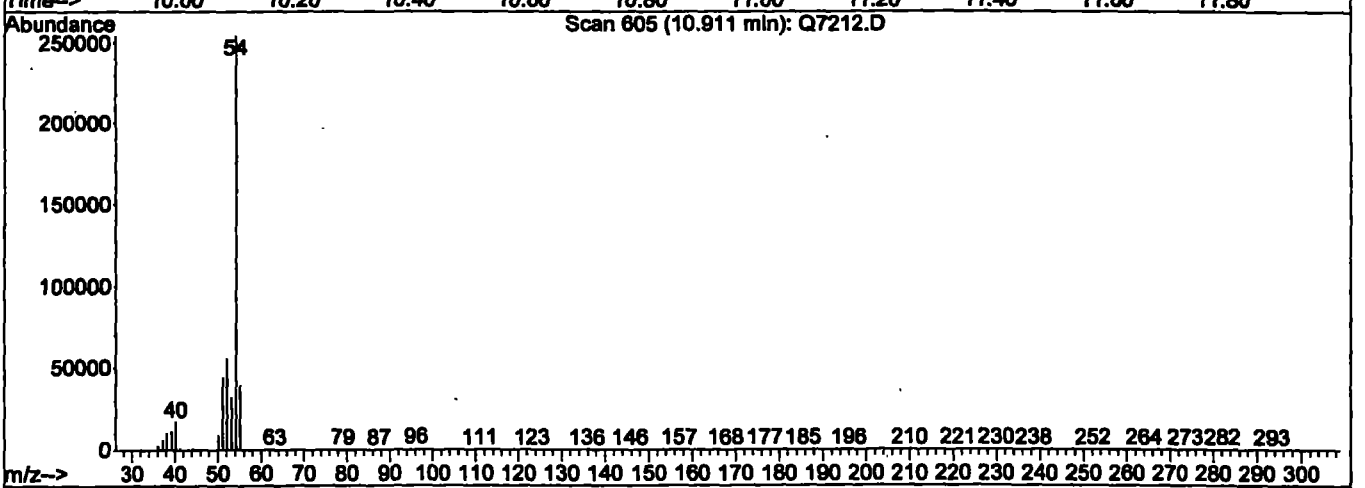
315

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7212.D Vial: 93
Acq On : 24 Jan 2002 2:51 pm Operator: B.ALLGEIER
Sample : 150PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 15:20 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Fri Jan 25 08:57:48 2002
Response via : Multiple Level Calibration





(28) Propionitrile

10.91min 0.00ug/L

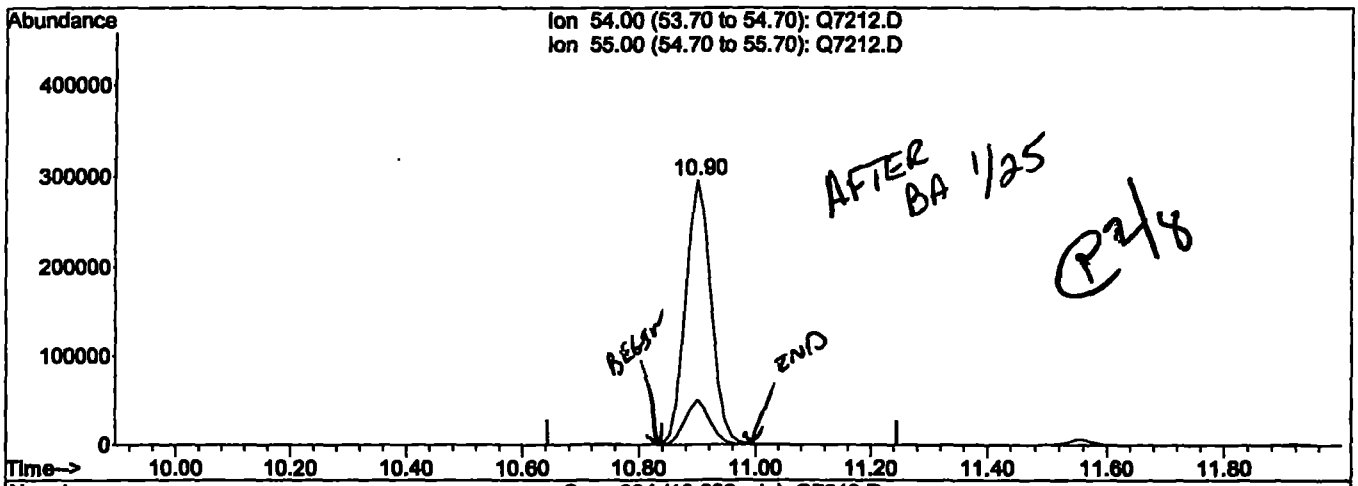
response 0

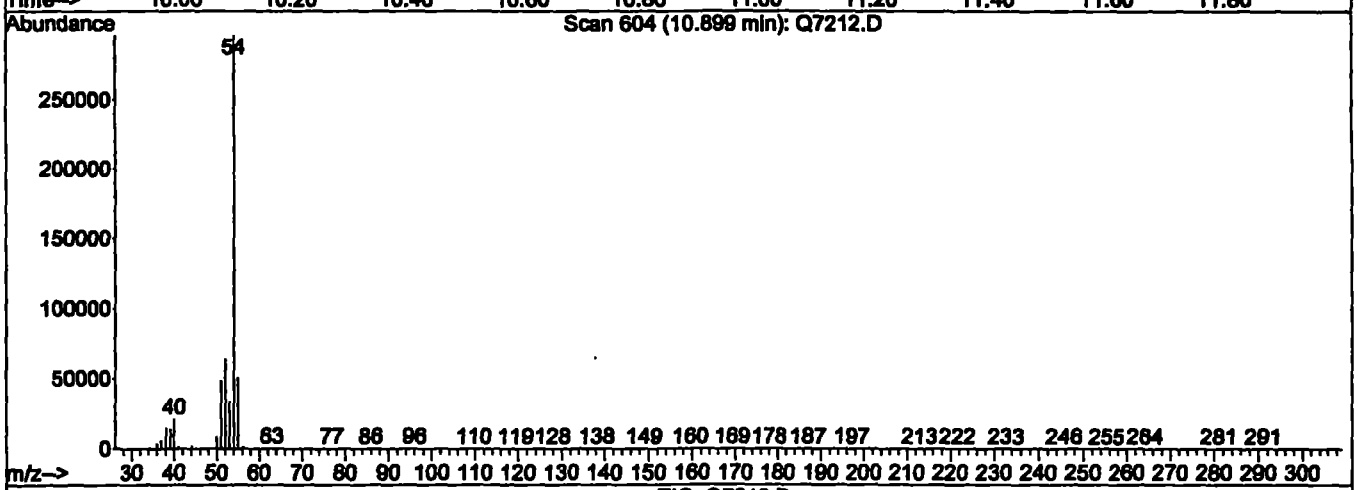
Ion	Exp%	Act%
54.00	100	0.00
55.00	15.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7212.D Vial: 93
Acq On : 24 Jan 2002 2:51 pm Operator: B.ALLGEIER
Sample : 150PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 25 9:32 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Fri Jan 25 08:57:48 2002
Response via : Multiple Level Calibration





TIC: Q7212.D

(28) Propionitrile

10.90min 666.84ug/L m

response 899560

Ion	Exp%	Act%
54.00	100	100
55.00	15.50	17.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7213.D Vial: 94
Acq On : 24 Jan 2002 3:25 pm Operator: B.ALLGEIER
Sample : 200PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 16:03 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 21 13:30:44 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.57	168	1036326	50.00	ug/L	0.00
34) 1,4-Difluorobenzene	12.93	114	1624360	50.00	ug/L	0.00
58) d5-Chlorobenzene	18.20	117	1363412	50.00	ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.53	152	735561	50.00	ug/L	0.00
System Monitoring Compounds						
35) surr4,Dibrflmethane	11.62	113	1822020	167.45	ug/L	0.00
Spiked Amount 50.000			Recovery	=	334.90%	
52) SURR3,Toluene-d8	15.56	98	5547809	169.10	ug/L	0.00
Spiked Amount 50.000			Recovery	=	338.20%	
57) SURR2,BFB	20.34	95	2562839	164.49	ug/L	0.00
Spiked Amount 50.000			Recovery	=	328.98%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.89	85	2352247	158.13	ug/L	96
3) Chloromethane	4.33	50	3353268	150.35	ug/L	99
4) Vinyl Chloride	4.59	62	1754407	153.58	ug/L	95
5) Bromomethane	5.39	94	1769455	196.32	ug/L	99
6) Chloroethane	5.63	64	1507509	171.96	ug/L	96
7) Trichlorofluoromethane	6.19	101	2963480	147.85	ug/L	99
8) Diethyl Ether	6.78	59	1599241	177.82	ug/L	88
9) Acrolein	7.13	56	1339425	734.43	ug/L	99
10) 1,1-Diclethene	7.32	96	1662457	189.82	ug/L #	79
11) Freon 113	7.26	101	1674030	182.26	ug/L	92
12) Acetone	7.45	43	527709	145.05	ug/L	98
13) Iodomethane	7.69	142	2435347	175.77	ug/L	85
14) Carbon Disulfide	7.83	76	6192497	196.02	ug/L	99
16) Allyl Chloride	8.07	76	941433	200.88	ug/L	45
17) Methylene Chloride	8.34	84	1908105	192.00	ug/L #	71
18) TBA	8.51	59	2924175	3557.11	ug/L	91
19) Acrylonitrile	8.84	53	3294007	791.77	ug/L	98
20) Methyl-t-Butyl Ether	8.78	73	4177468	179.45	ug/L #	95
21) trans-1,2-Dichloroethene	8.85	96	1784854	181.10	ug/L	88
22) 1,1-Diclethane	9.68	63	3577785	164.73	ug/L	98
23) Vinyl Acetate	9.69	43	3469905	151.19	ug/L #	93
24) 2-Chloro-1,3-Butadiene	9.82	53	3493910	151.58	ug/L	77
25) 2,2-Dichloropropane	10.73	77	2705480	163.33	ug/L	95
26) cis-1,2-Dichloroethene	10.75	96	2035803	188.91	ug/L	85
27) 2-Butanone	10.74	43	804782	154.00	ug/L #	83
28) Propionitrile	10.91	54	1285705m	821.43	ug/L	
29) Bromochloromethane	11.22	128	950367	185.60	ug/L #	79

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7213.D Vial: 94
Acq On : 24 Jan 2002 3:25 pm Operator: B.ALLGEIER
Sample : 200PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 16:03 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 21 13:30:44 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
30)	Methacrylonitrile	11.16	67	596852m	208.03 ug/L		
31)	Tetrahydrofuran	11.27	42	504711	150.61 ug/L	#	81
32)	Chloroform	11.32	83	3220755	158.86 ug/L	#	92
33)	1,1,1-Trichloroethane	11.64	97	2782780	157.61 ug/L	#	95
36)	Carbontetrachloride	11.94	117	2399510	150.49 ug/L		96
37)	1,1-Dichloropropene	11.93	110	915522	181.59 ug/L		96
38)	Benzene	12.32	78	6925814	175.53 ug/L		90
39)	1,2-Dichloroethane	12.37	62	2603414	119.35 ug/L		95
40)	Iso-Butyl Alcohol	12.07	43	1476096	2979.75 ug/L		92
41)	n-Heptane	12.60	43	3405189	137.41 ug/L		92
42)	Trichloroethene	13.43	130	1900332	175.74 ug/L		98
43)	1,2-Diclpropane	13.85	63	2209276	167.08 ug/L	#	99
44)	Dibromomethane	14.10	93	1165350	172.82 ug/L		99
45)	1,4-Dioxane	14.07	88	351209	3870.87 ug/L		88
46)	Methyl Methacrylate	13.93	69	906867	177.64 ug/L	#	60
47)	Bromodichloromethane	14.34	83	2434015	158.92 ug/L		99
48)	2-Nitropropane	14.75	43	2054369	273.98 ug/L		100
49)	2-Chloroethylvinyl Ether	14.77	63	1168808	165.32 ug/L	#	89
50)	cis-1,3-Dichloropropene	15.10	75	2914532	178.87 ug/L		98
51)	4-Methyl-2-pentanone	15.30	43	1639003	154.32 ug/L	#	92
53)	Toluene	15.68	91	7214824	171.24 ug/L		99
54)	trans-1,3-Dichloropropene	16.07	75	2498490	168.31 ug/L		98
55)	Ethyl Methacrylate	16.09	69	1727215	172.59 ug/L	#	77
56)	1,1,2-Trichloroethane	16.43	97	1566951	179.14 ug/L		98
59)	Tetrachloroethene	16.67	164	1539135	180.35 ug/L		96
60)	2-Hexanone	16.76	43	1149038	160.84 ug/L	#	92
61)	1,3-Dichloropropane	16.74	76	2691900	182.29 ug/L		99
62)	Dibromochloromethane	17.19	129	1880896	184.05 ug/L		99
63)	1,2-Dibromoethane	17.42	107	1671559	189.29 ug/L		99
64)	Chlorobenzene	18.26	112	4875964	170.56 ug/L		97
65)	1,1,1,2-Tetrachloroethane	18.39	131	1608002	165.17 ug/L		96
66)	Ethylbenzene	18.37	106	2486824	175.12 ug/L		94
67)	(m+p)Xylene	18.58	106	5893768	334.44 ug/L		95
68)	o-Xylene	19.33	106	3054251	176.92 ug/L		93
69)	Styrene	19.37	104	4981511	173.04 ug/L		99
70)	Bromoform	19.83	173	1222318	180.66 ug/L		99
71)	Isopropylbenzene	19.97	105	7968637	176.37 ug/L		98
72)	Cyclohexanone	20.29	55	3213479	2600.70 ug/L		92
73)	trans-1,4-Dichloro-2-Buten	20.68	53	765109	142.94 ug/L		85
75)	1,1,2,2-Tetrachloroethane	20.60	83	1988462	207.92 ug/L		98
76)	Bromobenzene	20.67	156	1992121	179.56 ug/L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7213.D Vial: 94
Acq On : 24 Jan 2002 3:25 pm Operator: B.ALLGEIER
Sample : 200PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 16:03 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 21 13:30:44 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

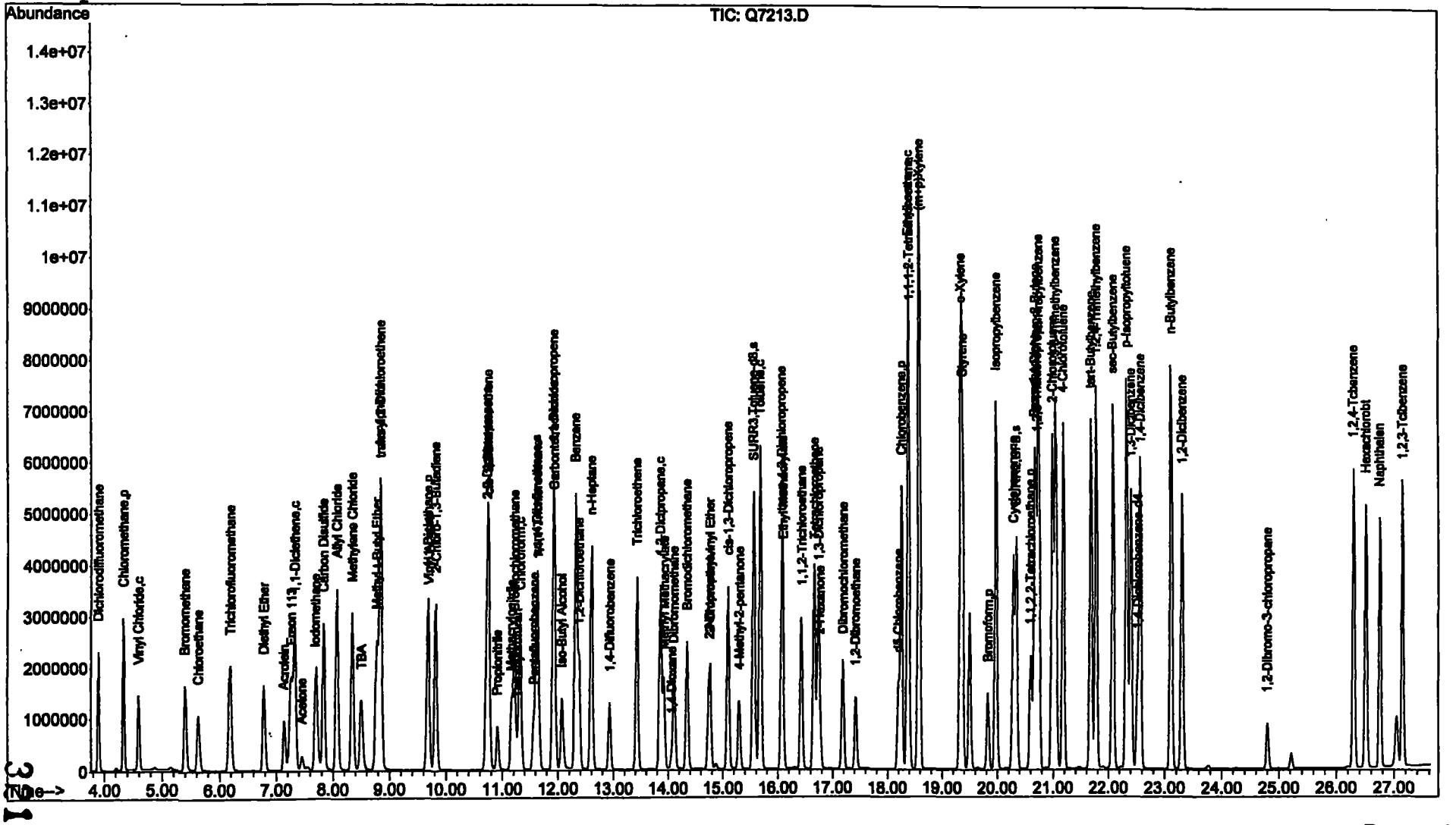
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) 1,2,3-Trichloropropane	20.72	110	472046	176.60 ug/L	84
78) n-Propylbenzene	20.74	91	10198510	186.30 ug/L	97
79) 2-Chlorotoluene	20.99	91	7013842	185.71 ug/L	98
80) 4-Chlorotoluene	21.18	91	6427281	183.69 ug/L	95
81) 1,3,5-Trimethylbenzene	21.04	105	6784983	187.44 ug/L	98
82) tert-Butylbenzene	21.68	119	5661398	192.00 ug/L	98
83) 1,2,4-Trimethylbenzene	21.77	105	6963415	187.59 ug/L	95
84) sec-Butylbenzene	22.08	105	8990524	189.90 ug/L	99
85) p-Isopropyltoluene	22.33	119	7252326	183.83 ug/L	98
86) 1,3-Diclbenzene	22.41	146	3711746	187.34 ug/L	99
87) 1,4-Diclbenzene	22.57	146	4008944	184.92 ug/L	98
88) n-Butylbenzene	23.11	91	7858875	191.47 ug/L	99
89) 1,2-Diclbenzene	23.31	146	3753021	190.75 ug/L	98
90) 1,2-Dibromo-3-chloropropan	24.80	75	351802	179.16 ug/L	88
92) 1,2,4-Tcbenzene	26.30	180	2854386	184.71 ug/L	99
93) Hexachlorobt	26.52	225	1686856	163.55 ug/L	100
94) Naphthalen	26.75	128	5708906	194.09 ug/L	98
95) 1,2,3-Tclbenzene	27.15	180	2695982	186.61 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7213.D Vial: 94
Acq On : 24 Jan 2002 3:25 pm Operator: B.ALLGEIER
Sample : 200PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 16:03 2002 Quant Results File: EXP0124.RES

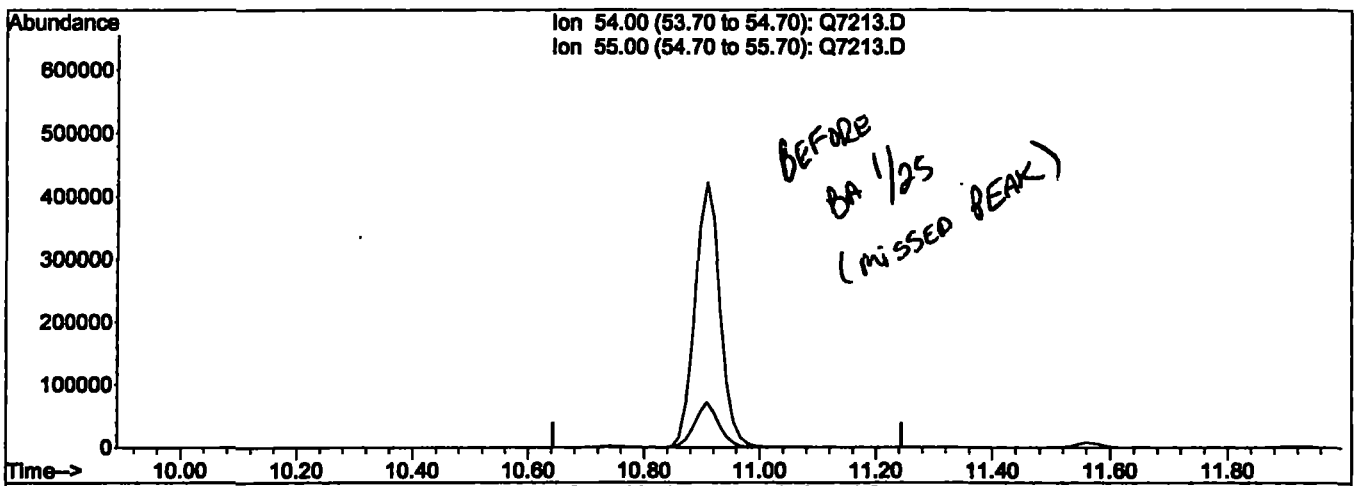
Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Fri Jan 25 10:28:15 2002
Response via : Initial Calibration

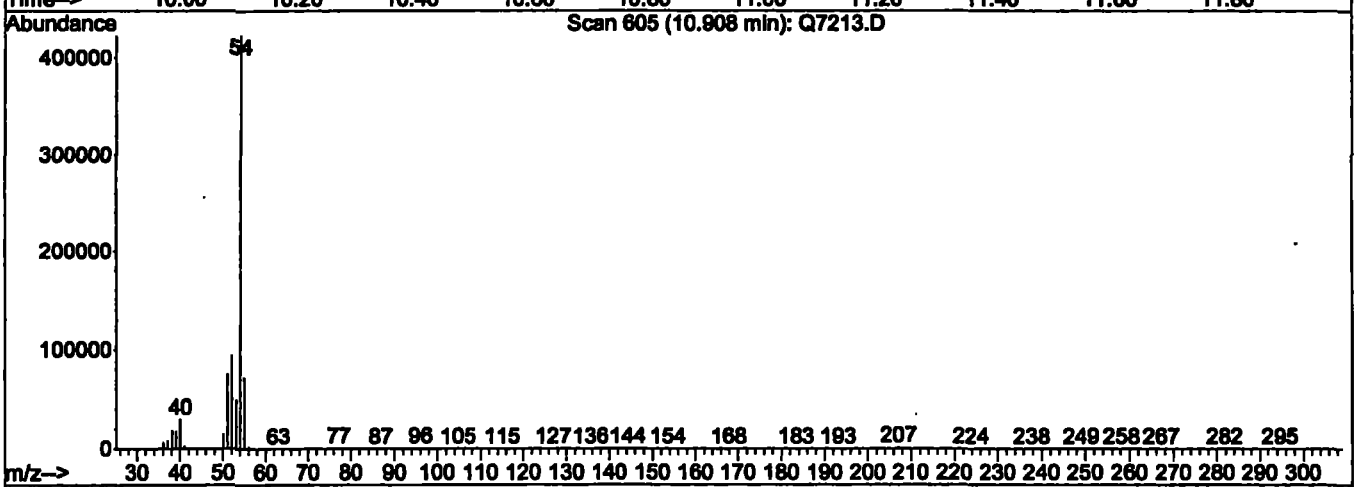


Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7213.D Vial: 94
Acq On : 24 Jan 2002 3:25 pm Operator: B.ALLGEIER
Sample : 200PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 15:54 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Thu Jan 24 15:57:27 2002
Response via : Multiple Level Calibration





TIC: Q7213.D

(28) Propionitrile

10.91min 0.00ug/L

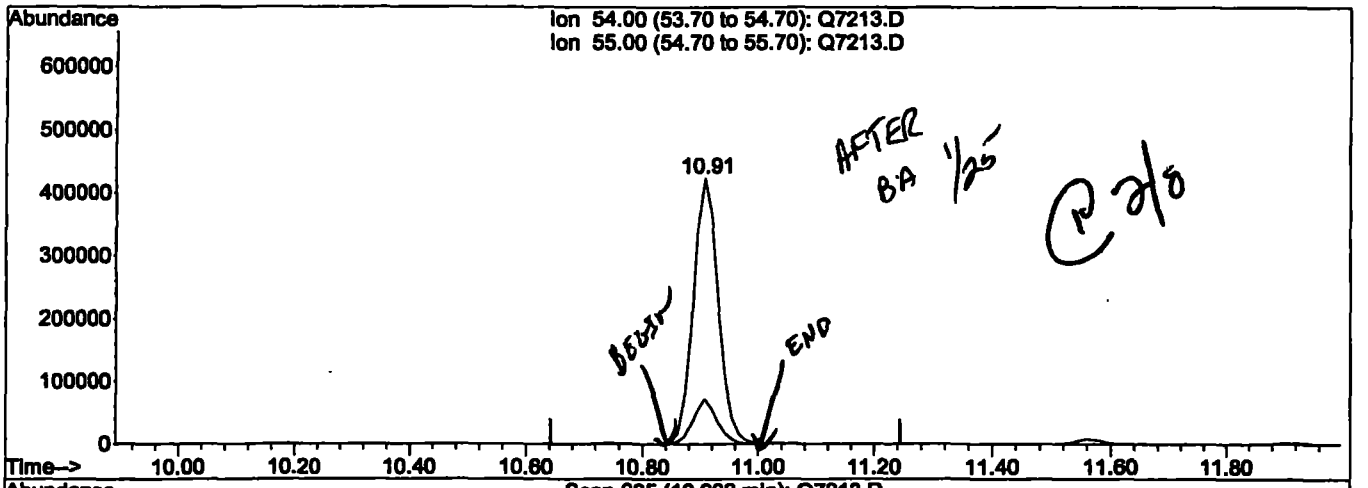
response 0

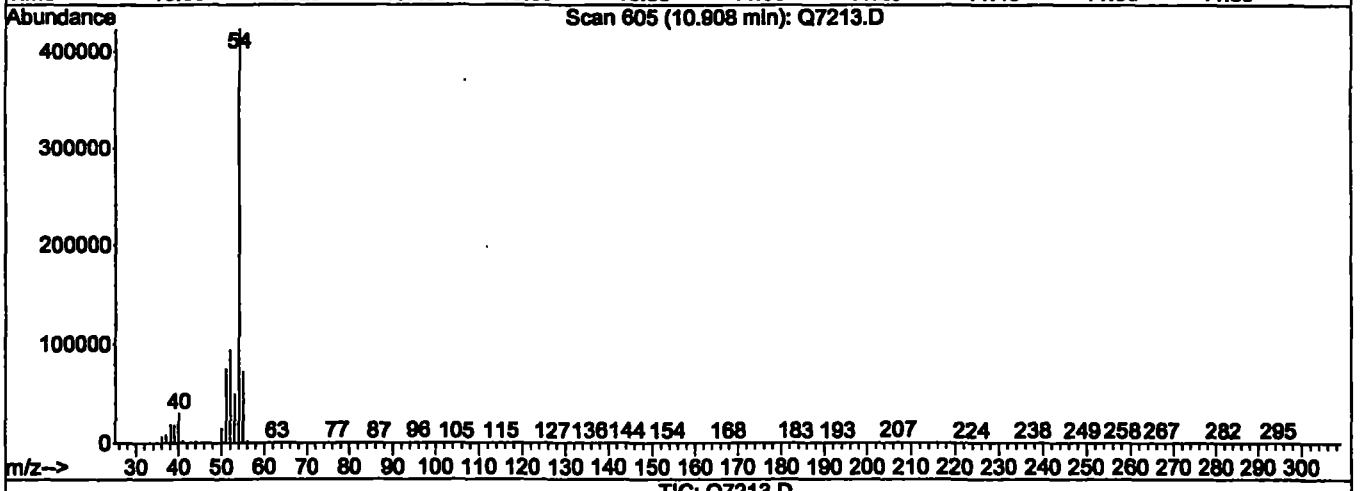
Ion	Exp%	Act%
54.00	100	0.00
55.00	15.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7213.D Vial: 94
Acq On : 24 Jan 2002 3:25 pm Operator: B.ALLGEIER
Sample : 200PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 16:03 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Thu Jan 24 15:57:27 2002
Response via : Multiple Level Calibration





(28) Propionitrile

10.91min 821.43ug/L m

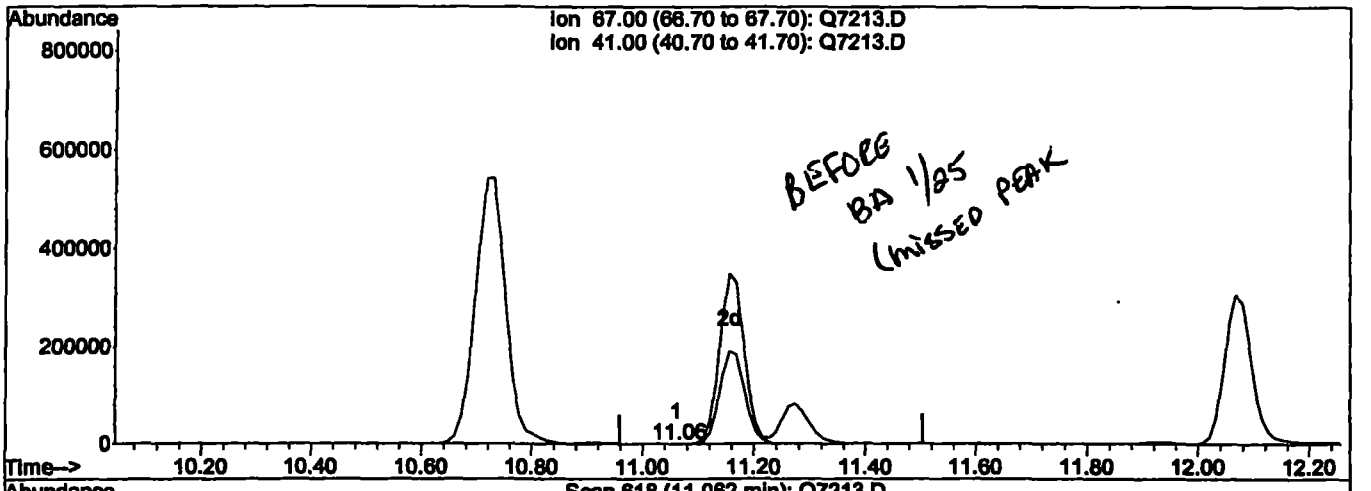
response 1285705

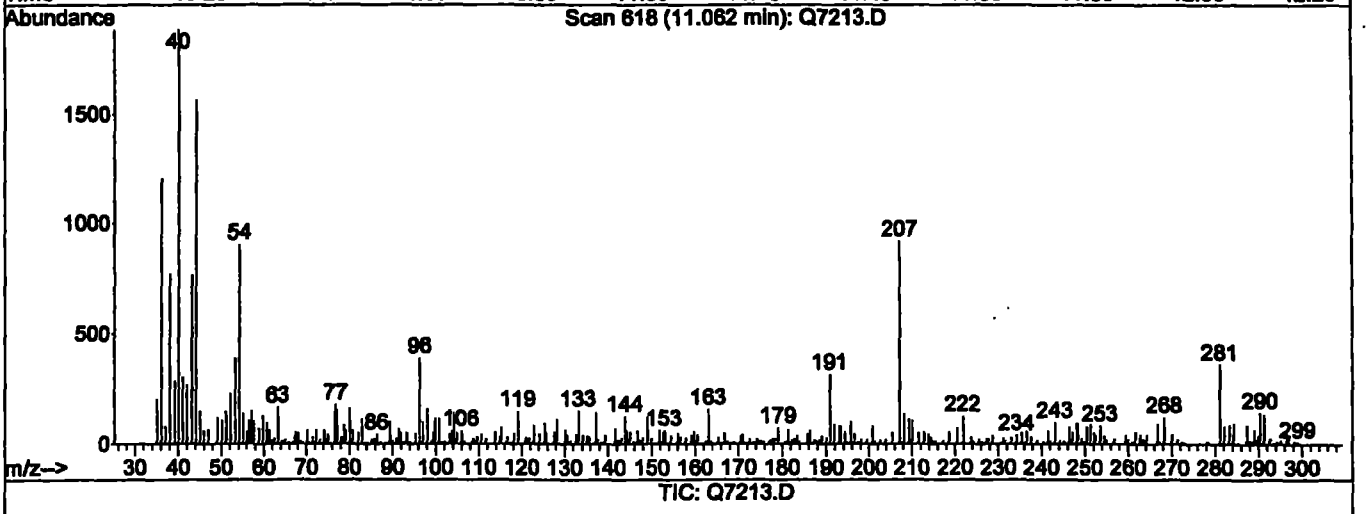
Ion	Exp%	Act%
54.00	100	100
55.00	15.50	17.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7213.D Vial: 94
Acq On : 24 Jan 2002 3:25 pm Operator: B.ALLGEIER
Sample : 200PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 16:03 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Thu Jan 24 15:57:27 2002
Response via : Multiple Level Calibration





(30) Methacrylonitrile

11.06min 0.02ug/L

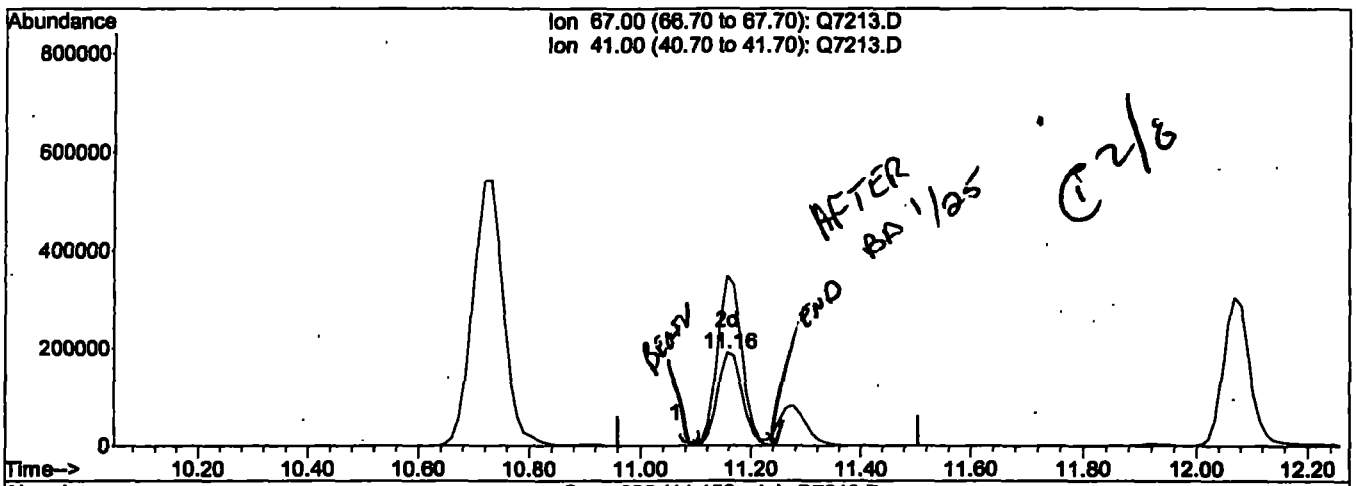
response 65

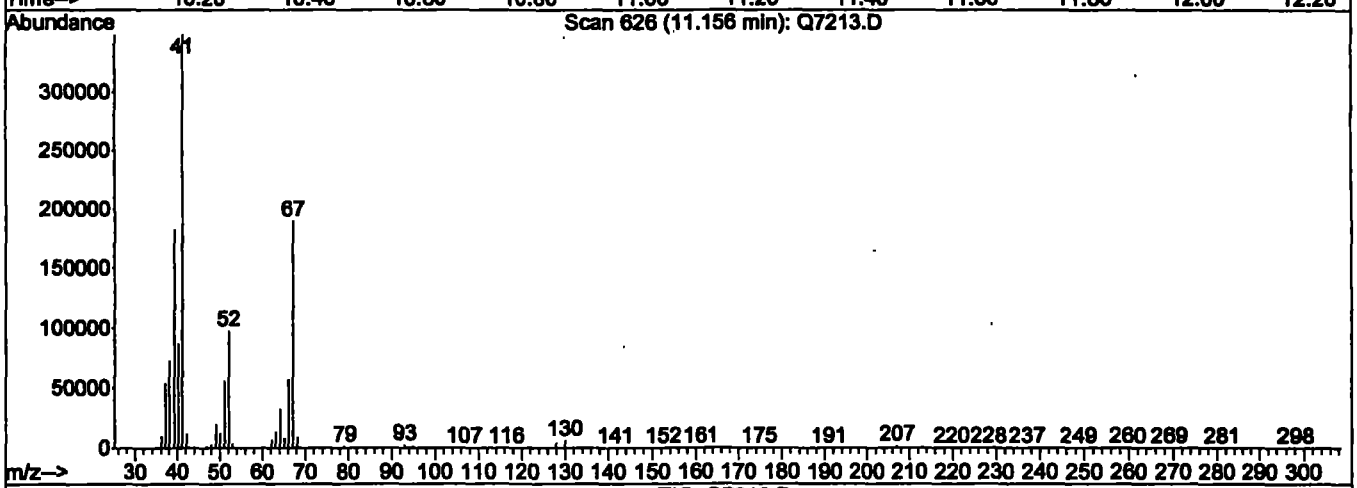
Ion	Exp%	Act%
67.00	100	100
41.00	260.70	215.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7213.D Vial: 94
Acq On : 24 Jan 2002 3:25 pm Operator: B.ALLGEIER
Sample : 200PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 24 16:03 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Thu Jan 24 15:57:27 2002
Response via : Multiple Level Calibration





TIC: Q7213.D

(30) Methacrylonitrile

11.16min 208.03ug/L m

response 596852

Ion	Exp%	Act%
67.00	100	100
41.00	260.70	183.34#
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA6\DATA\012902\Q7252.D Vial: 2
Acq On : 29 Jan 2002 6:45 am Operator: B.ALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	1.000	1.000	0.0	186	0.00
2		Dichlorodifluoromethane	0.649	0.669	-3.1	180	0.01
3	p	Chloromethane	0.910	0.819	10.0	162	0.00
4	c	Vinyl Chloride	0.518	0.422	18.5	137	0.00
5		Bromomethane	0.452	0.402	11.1	163	0.00
6		Chloroethane	0.421	0.391	7.1	170	0.00
7		Trichlorofluoromethane	0.719	0.843	-17.2	213#	0.00
8		Diethyl Ether	0.378	0.426	-12.7	194	0.00
9		Acrolein	0.067	0.059	11.9	156	0.00
10	c	1,1-Diclethene	0.431	0.430	0.2	186	0.00
11		Freon 113	0.444	0.423	4.7	183	0.00
12		Acetone	0.136	0.149	-9.6	201#	0.01
13		Iodomethane	0.573	0.628	-9.6	167	0.00
[illegible]		Carbon Disulfide	1.615	1.661	-2.8	193	0.00
[illegible]		Acetonitrile	0.000	0.000	0.0	195	0.00
16		Allyl Chloride	0.236	0.249	-5.5	193	0.00
17		Methylene Chloride	0.498	0.623	-25.1#	233#	0.00
18		TBA	0.033	0.039	-18.2	220#	0.00
19		Acrylonitrile	0.182	0.179	1.6	168	0.00
20		Methyl-t-Butyl Ether	0.924	1.177	-27.4#	228#	0.01
21		trans-1,2-Dichloroethene	0.474	0.476	-0.4	178	0.00
22	p	1,1-Diclethane	0.909	0.956	-5.2	187	0.00
23		Vinyl Acetate	0.847	0.883	-4.3	183	0.00
24		2-Chloro-1,3-Butadiene	0.787	0.950	-20.7	227#	0.00
25		2,2-Dichloropropane	0.605	0.770	-27.3#	234#	0.00
26		cis-1,2-Dichloroethene	0.530	0.550	-3.8	187	0.00
27		2-Butanone	0.211	0.208	1.4	177	0.00
28		Propionitrile	0.068	0.066	2.9	176	0.00
29		Bromochloromethane	0.251	0.239	4.8	174	0.00
30		Methacrylonitrile	0.140	0.151	-7.9	192	0.00
31		Tetrahydrofuran	0.133	0.128	3.8	171	-0.01
32	c	Chloroform	0.821	0.869	-5.8	203#	0.00
33		1,1,1-Trichloroethane	0.641	0.753	-17.5	216#	0.00
34		1,4-Difluorobenzene	1.000	1.000	0.0	193	0.00
35	s	surr4,Dibrflmethane	0.313	0.323	-3.2	196	0.00
36		Carbontetrachloride	0.363	0.395	-8.8	211#	0.00
37		1,1-Dichloropropene	0.150	0.151	-0.7	183	0.00
[illegible]		Benzene	1.207	1.189	1.5	186	0.00
[illegible]		1,2-Dichloroethane	0.412	0.469	-13.8	222#	0.00
40		Iso-Butyl Alcohol	0.012	0.011	8.3	177	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA6\DATA\012902\Q7252.D Vial: 2
Acq On : 29 Jan 2002 6:45 am Operator: B.ALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		n-Heptane	0.556	0.557	-0.2	174	0.00
42		Trichloroethene	0.313	0.300	4.2	181	0.00
43	c	1,2-Diclpropane	0.371	0.355	4.3	179	-0.01
44		Dibromomethane	0.194	0.190	2.1	186	0.00
45		1,4-Dioxane	0.003	0.003	0.0	200#	0.01
46		Methyl Methacrylate	0.128	0.147	-14.8	214#	0.00
47		Bromodichloromethane	0.387	0.405	-4.7	209#	0.00
48		2-Nitropropane	0.150	0.169	-12.7	211#	-0.01
49		2-Chloroethylvinyl Ether	0.179	0.186	-3.9	191	0.00
50		cis-1,3-Dichloropropene	0.438	0.486	-11.0	207#	0.00
51		4-Methyl-2-pentanone	0.260	0.261	-0.4	184	0.00
52	s	SURR3,Toluene-d8	0.938	1.036	-10.4	199	0.00
53	c	Toluene	1.221	1.227	-0.5	185	0.00
		trans-1,3-Dichloropropene	0.372	0.432	-16.1	212#	-0.01
55		Ethyl Methacrylate	0.252	0.282	-11.9	203#	0.00
56		1,1,2-Trichloroethane	0.257	0.258	-0.4	186	0.00
57	s	SURR2,BFB	0.413	0.465	-12.6	206#	0.00
58		d5-Chlorobenzene	1.000	1.000	0.0	195	0.00
59		Tetrachloroethene	0.328	0.287	12.5	170	0.00
60		2-Hexanone	0.215	0.214	0.5	176	0.00
61		1,3-Dichloropropane	0.491	0.539	-9.8	201#	0.00
62		Dibromochloromethane	0.343	0.336	2.0	182	0.00
63		1,2-Dibromoethane	0.308	0.309	-0.3	189	0.00
64	p	Chlorobenzene	0.995	0.961	3.4	181	0.00
65		1,1,1,2-Tetrachloroethane	0.326	0.320	1.8	181	0.00
66	c	Ethylbenzene	0.499	0.505	-1.2	178	-0.01
67		(m+p)Xylene	0.594	0.632	-6.4	175	-0.01
68		o-Xylene	0.589	0.623	-5.8	182	-0.01
69		Styrene	0.981	1.011	-3.1	177	0.00
70	p	Bromoform	0.232	0.211	9.1	164	0.00
71		Isopropylbenzene	1.434	1.594	-11.2	186	0.00
72		Cyclohexanone	0.000	0.000	0.0	0#	0.00
73		trans-1,4-Dichloro-2-Butene	0.143	0.144	-0.7	179	0.00
74		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	166	0.00
75	p	1,1,2,2-Tetrachloroethane	0.716	0.722	-0.8	168	0.00
76		Bromobenzene	0.723	0.735	-1.7	162	0.00
7		1,2,3-Trichloropropane	0.168	0.191	-13.7	193	0.00
.8		n-Propylbenzene	3.558	4.029	-13.2	175	0.00
79		2-Chlorotoluene	2.306	2.674	-16.0	183	0.00

(#) = Out of Range

Data File : J:\ACQUDATA\MSVOA6\DATA\012902\Q7252.D Vial: 2
Acq On : 29 Jan 2002 6:45 am Operator: B.ALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	4-Chlorotoluene	2.112	2.464	-16.7	184	0.00
81	1,3,5-Trimethylbenzene	2.204	2.619	-18.8	180	0.00
82	tert-Butylbenzene	1.857	2.135	-15.0	177	-0.01
83	1,2,4-Trimethylbenzene	2.223	2.664	-19.8	177	0.00
84	sec-Butylbenzene	3.003	3.449	-14.9	172	0.00
85	p-Isopropyltoluene	2.440	2.785	-14.1	173	0.00
86	1,3-Diclbenzene	1.341	1.366	-1.9	161	0.00
87	1,4-Diclbenzene	1.526	1.489	2.4	161	0.00
88	n-Butylbenzene	2.578	2.940	-14.0	170	0.00
89	1,2-Diclbenzene	1.356	1.359	-0.2	158	0.00
90	1,2-Dibromo-3-chloropropane	0.115	0.132	-14.8	203#	0.00
91	Nitrobenzene	0.000	0.000	0.0	195	0.00
92	1,2,4-Tcbenzene	0.999	1.069	-7.0	171	0.00
	Hexachlorobt	0.584	0.617	-5.7	172	0.00
	Naphthalen	1.845	2.155	-16.8	189	0.00
95	1,2,3-Tclbenzene	0.975	0.982	-0.7	160	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Q7252.D EXP0124.M Wed Jan 30 12:35:30 2002

Data File : J:\ACQUDATA\MSVOA6\DATA\012902\Q7252.D Vial: 2
Acq On : 29 Jan 2002 6:45 am Operator: B.ALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 30 12:34 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.56	168	1197883	50.00	ug/L	0.00
34) 1,4-Difluorobenzene	12.92	114	1879821	50.00	ug/L	0.00
58) d5-Chlorobenzene	18.20	117	1586959	50.00	ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.52	152	812143	50.00	ug/L	0.00
System Monitoring Compounds						
35) surr4,Dibrflmethane	11.61	113	607008	51.58	ug/L	0.00
Spiked Amount 50.000			Recovery	=	103.16%	
52) SURR3,Toluene-d8	15.55	98	1947414	52.65	ug/L	0.00
Spiked Amount 50.000			Recovery	=	105.30%	
57) SURR2,BFB	20.34	95	873889	56.28	ug/L	0.00
Spiked Amount 50.000			Recovery	=	112.56%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.89	85	800802	51.54	ug/L	98
3) Chloromethane	4.33	50	981634	45.05	ug/L	98
4) Vinyl Chloride	4.58	62	505776	40.78	ug/L	97
5) Bromomethane	5.40	94	482035	44.47	ug/L	98
6) Chloroethane	5.62	64	468953	46.54	ug/L	99
7) Trichlorofluoromethane	6.18	101	1009225m	58.60	ug/L	
8) Diethyl Ether	6.77	59	509916	56.33	ug/L	91
9) Acrolein	7.14	56	351299	219.14	ug/L	94
10) 1,1-Diclethene	7.31	96	514984	49.82	ug/L	97
11) Freon 113	7.25	101	506446	47.61	ug/L	98
12) Acetone	7.46	43	177986	54.51	ug/L	95
13) Iodomethane	7.68	142	751834	43.99	ug/L	94
14) Carbon Disulfide	7.82	76	1989963	51.42	ug/L	98
16) Allyl Chloride	8.06	76	297963	52.71	ug/L	80
17) Methylene Chloride	8.33	84	746467	62.60	ug/L	86
18) TBA	8.50	59	944899	1203.47	ug/L	93
19) Acrylonitrile	8.83	53	1072775	245.79	ug/L	99
20) Methyl-t-Butyl Ether	8.78	73	1409415	63.66	ug/L #	93
21) trans-1,2-Dichloroethene	8.84	96	570757	50.25	ug/L	97
22) 1,1-Diclethane	9.67	63	1145025	52.57	ug/L	95
23) Vinyl Acetate	9.68	43	1058154	52.16	ug/L	95
24) 2-Chloro-1,3-Butadiene	9.81	53	1138080	60.36	ug/L	94
25) 2,2-Dichloropropane	10.72	77	922076	63.64	ug/L	97
26) cis-1,2-Dichloroethene	10.74	96	659148	51.87	ug/L	96
27) 2-Butanone	10.73	43	249468	49.26	ug/L	94
28) Propionitrile	10.90	54	392784m	239.50	ug/L	
29) Bromochloromethane	11.21	128	286285	47.53	ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012902\Q7252.D Vial: 2
Acq On : 29 Jan 2002 6:45 am Operator: B.ALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 30 12:34 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) Methacrylonitrile	11.16	67	181387	54.03 ug/L	86
31) Tetrahydrofuran	11.27	42	152925	47.85 ug/L	94
32) Chloroform	11.31	83	1041238	52.94 ug/L	95
33) 1,1,1-Trichloroethane	11.63	97	901657	58.68 ug/L	97
36) Carbontetrachloride	11.93	117	743440	54.42 ug/L	99
37) 1,1-Dichloropropene	11.92	110	283306	50.35 ug/L	92
38) Benzene	12.31	78	2234387	49.23 ug/L	100
39) 1,2-Dichloroethane	12.37	62	881376	56.94 ug/L #	90
40) Iso-Butyl Alcohol	12.07	43	412809	951.72 ug/L	96
41) n-Heptane	12.59	43	1046490	50.07 ug/L	98
42) Trichloroethene	13.42	130	563150	47.81 ug/L	95
43) 1,2-Diclpropane	13.85	63	668130	47.84 ug/L #	92
44) Dibromomethane	14.11	93	358078	48.97 ug/L	92
45) 1,4-Dioxane	14.07	88	102555	1027.03 ug/L	93
46) Methyl Methacrylate	13.92	69	275906	53.49 ug/L	96
47) Bromodichloromethane	14.34	83	761120	52.38 ug/L	98
48) 2-Nitropropane	14.74	43	634060	112.62 ug/L #	64
49) 2-Chloroethylvinyl Ether	14.77	63	348847	51.82 ug/L	95
50) cis-1,3-Dichloropropene	15.09	75	914288	55.57 ug/L	98
51) 4-Methyl-2-pentanone	15.29	43	491274	50.17 ug/L	97
53) Toluene	15.67	91	2306042	50.24 ug/L	100
54) trans-1,3-Dichloropropene	16.06	75	812359	58.02 ug/L	97
55) Ethyl Methacrylate	16.08	69	529667	55.81 ug/L	92
56) 1,1,2-Trichloroethane	16.42	97	485735	50.26 ug/L	97
59) Tetrachloroethene	16.66	164	454723	43.68 ug/L	95
60) 2-Hexanone	16.77	43	339163	49.59 ug/L	96
61) 1,3-Dichloropropane	16.73	76	855350	54.93 ug/L	99
62) Dibromochloromethane	17.18	129	533093	49.01 ug/L	98
63) 1,2-Dibromoethane	17.42	107	489732	50.14 ug/L	98
64) Chlorobenzene	18.25	112	1525069	48.29 ug/L	94
65) 1,1,1,2-Tetrachloroethane	18.38	131	507040	49.00 ug/L	95
66) Ethylbenzene	18.37	106	801771	50.63 ug/L	90
67) (m+p)Xylene	18.57	106	2005923	106.43 ug/L	91
68) o-Xylene	19.32	106	988681	52.88 ug/L	92
69) Styrene	19.36	104	1604187	51.50 ug/L	99
70) Bromoform	19.82	173	334719	45.43 ug/L	98
71) Isopropylbenzene	19.97	105	2528825	55.57 ug/L	98
73) trans-1,4-Dichloro-2-Buten	20.68	53	229197	50.63 ug/L	98
75) 1,1,2,2-Tetrachloroethane	20.60	83	586369	50.41 ug/L	99
76) Bromobenzene	20.67	156	596693	50.78 ug/L	86
77) 1,2,3-Trichloropropane	20.71	110	155249	56.99 ug/L	85

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012902\Q7252.D Vial: 2
Acq On : 29 Jan 2002 6:45 am Operator: B.ALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 30 12:34 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

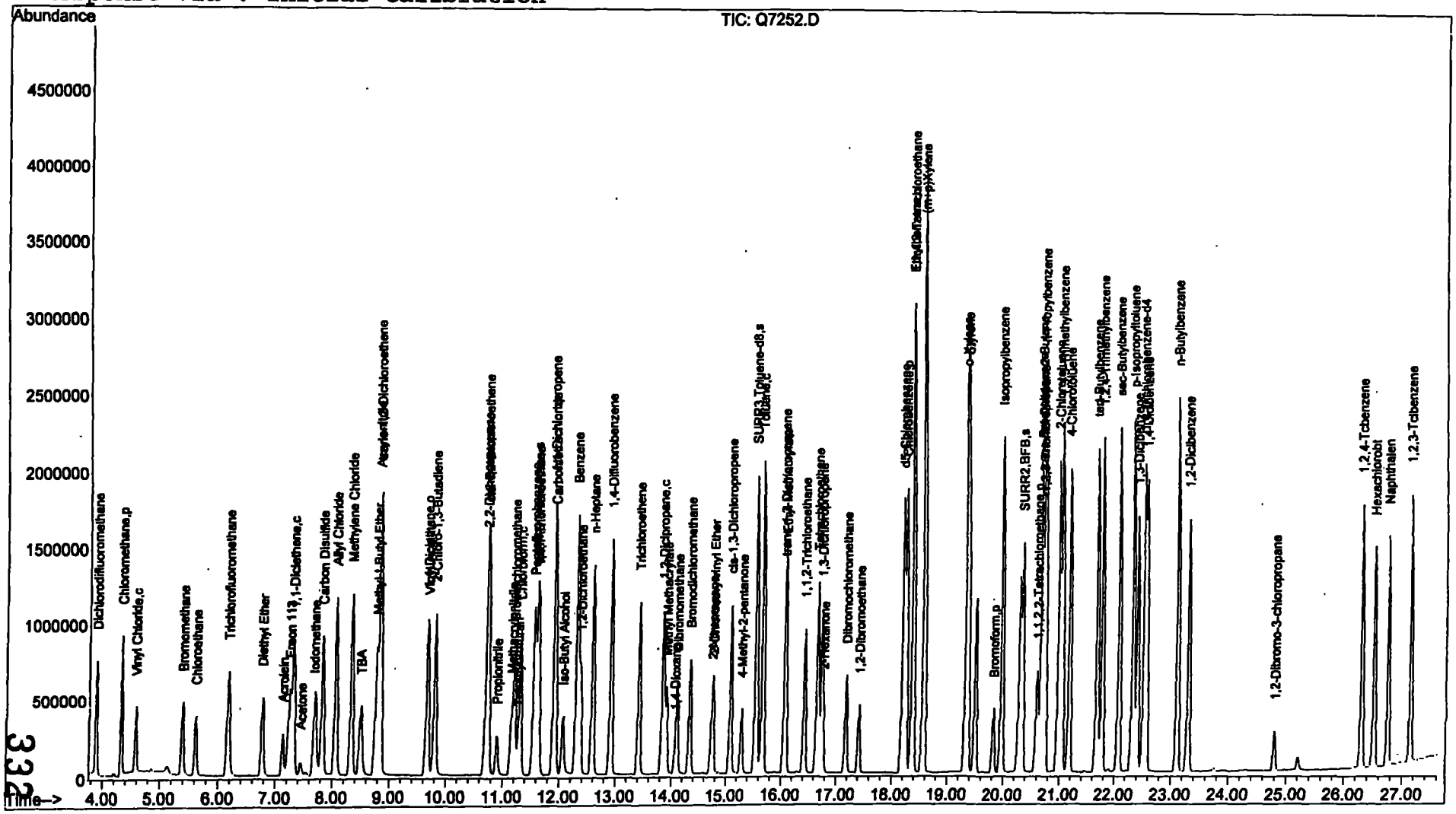
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
78)	n-Propylbenzene	20.73	91	3271829	56.61 ug/L	99
79)	2-Chlorotoluene	20.98	91	2172058	58.00 ug/L	96
80)	4-Chlorotoluene	21.17	91	2001108	58.33 ug/L	95
81)	1,3,5-Trimethylbenzene	21.04	105	2126678	59.41 ug/L	96
82)	tert-Butylbenzene	21.67	119	1734288	57.51 ug/L	98
83)	1,2,4-Trimethylbenzene	21.77	105	2163752	59.91 ug/L	97
84)	sec-Butylbenzene	22.08	105	2801380	57.44 ug/L	99
85)	p-Isopropyltoluene	22.33	119	2261557	57.06 ug/L	99
86)	1,3-Diclbenzene	22.40	146	1109376	50.94 ug/L	98
87)	1,4-Diclbenzene	22.57	146	1209680	48.80 ug/L	97
88)	n-Butylbenzene	23.11	91	2387540	57.02 ug/L	100
89)	1,2-Diclbenzene	23.30	146	1104087	50.14 ug/L	97
90)	1,2-Dibromo-3-chloropropan	24.80	75	107359	57.54 ug/L	86
92)	1,2,4-Tcbenzene	26.31	180	868107	53.51 ug/L	98
93)	Hexachlorobt	26.52	225	501001	52.85 ug/L	98
94)	Naphthalen	26.75	128	1749992	58.40 ug/L	99
95)	1,2,3-Tclbenzene	27.15	180	797373	50.35 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

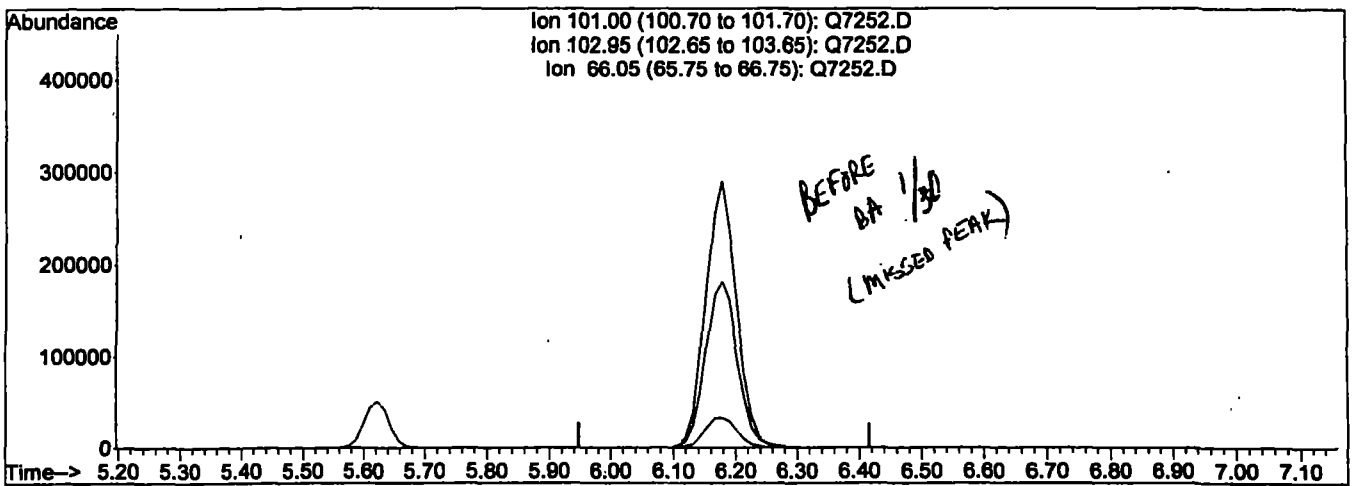
Data File : J:\ACQUDATA\MSVOA6\DATA\012902\Q7252.D Vial: 2
Acq On : 29 Jan 2002 6:45 am Operator: B.ALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 30 12:34 2002 Quant Results File: EXP0124.RES

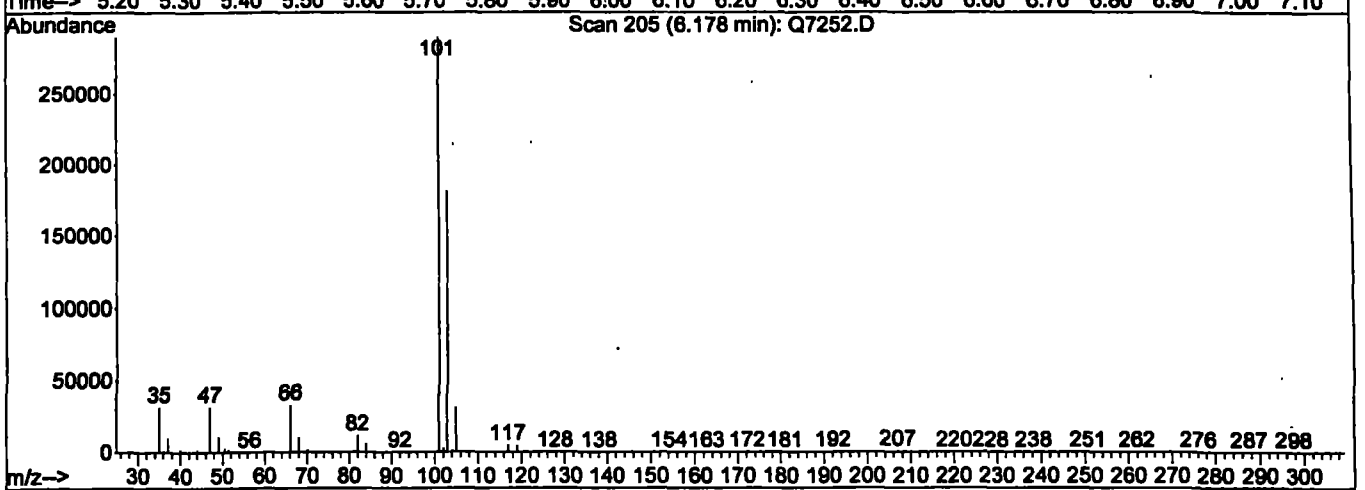
Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration



Data File : J:\ACQUDATA\MSVOA6\DATA\012902\Q7252.D Vial: 2
Acq On : 29 Jan 2002 6:45 am Operator: B.ALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 29 7:14 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration





TIC: Q7252.D

(7) Trichlorofluoromethane

6.18min 0.00ug/L

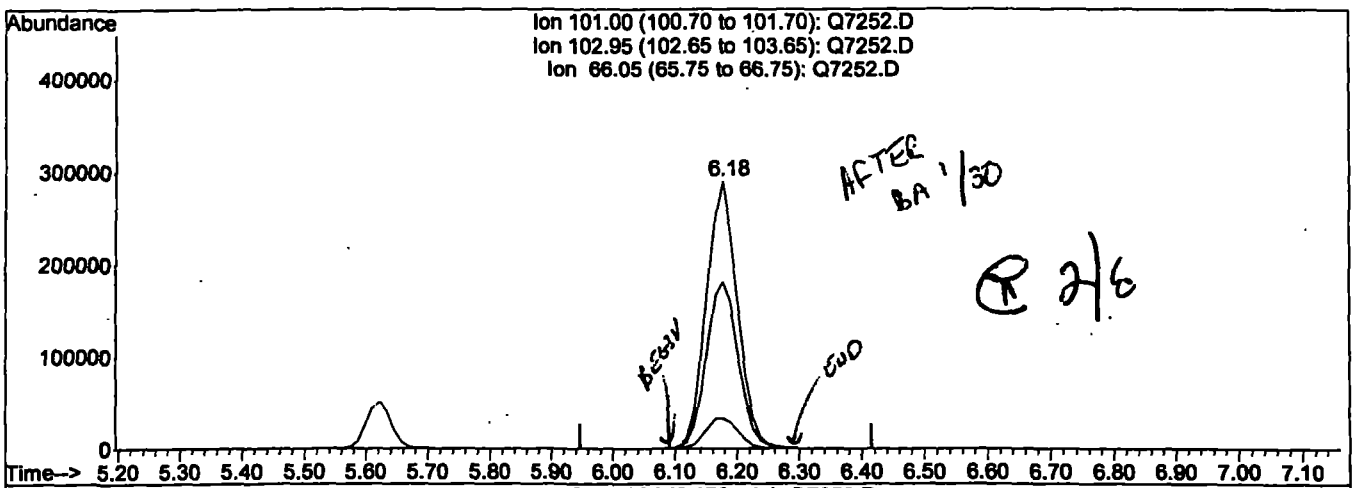
response 0

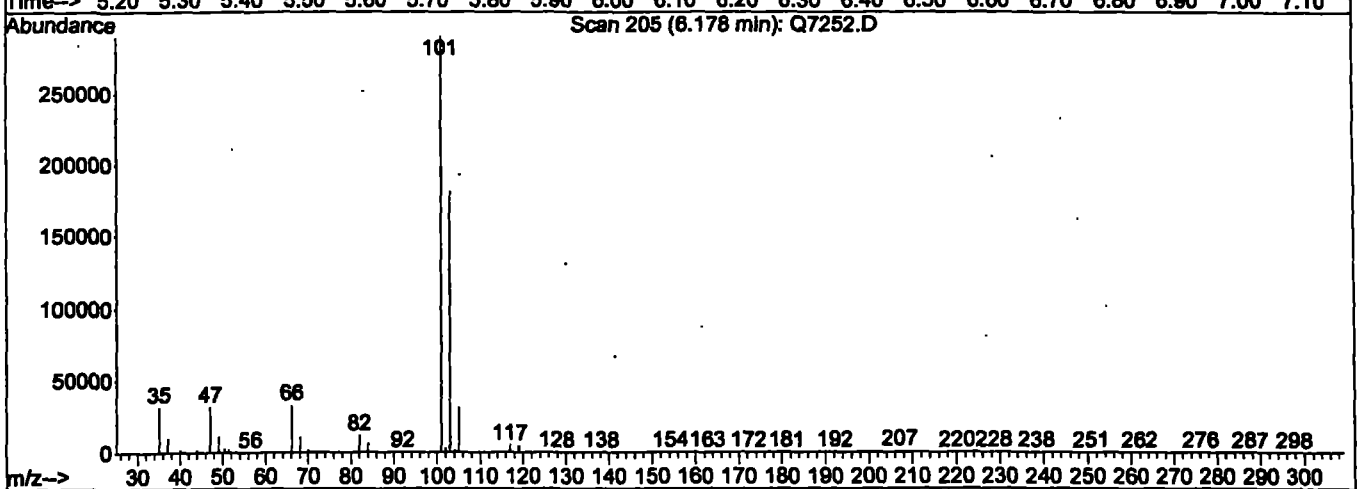
Ion	Exp%	Act%
101.00	100	0.00
102.95	63.40	0.00#
66.05	13.80	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\012902\Q7252.D Vial: 2
Acq On : 29 Jan 2002 6:45 am Operator: B.ALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 30 12:34 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration





TIC: Q7252.D

(7) Trichlorofluoromethane

6.18min 58.60ug/L m

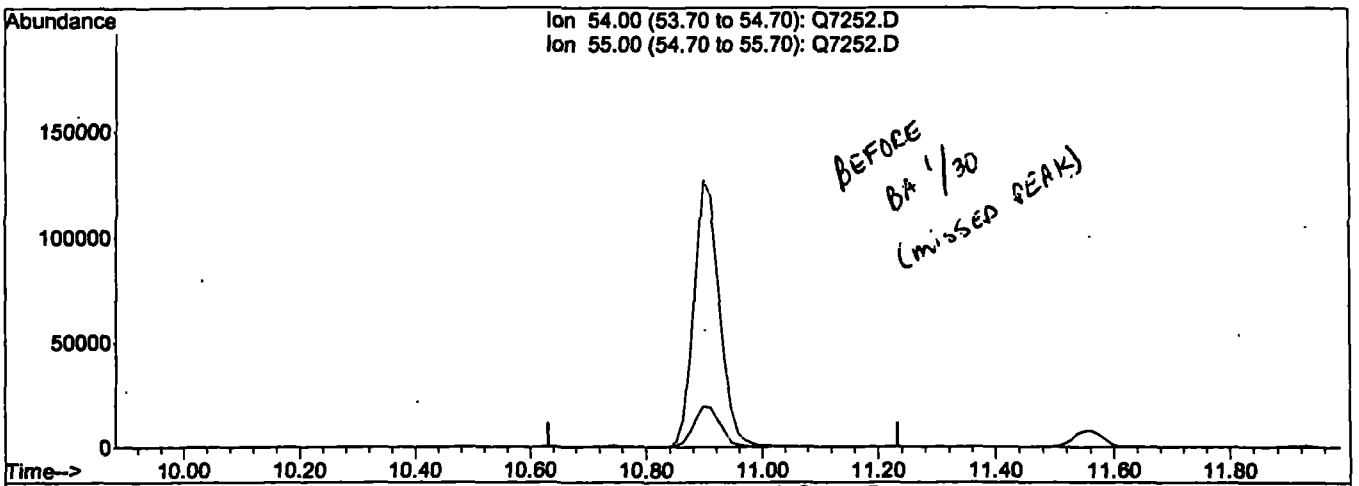
response 1009225

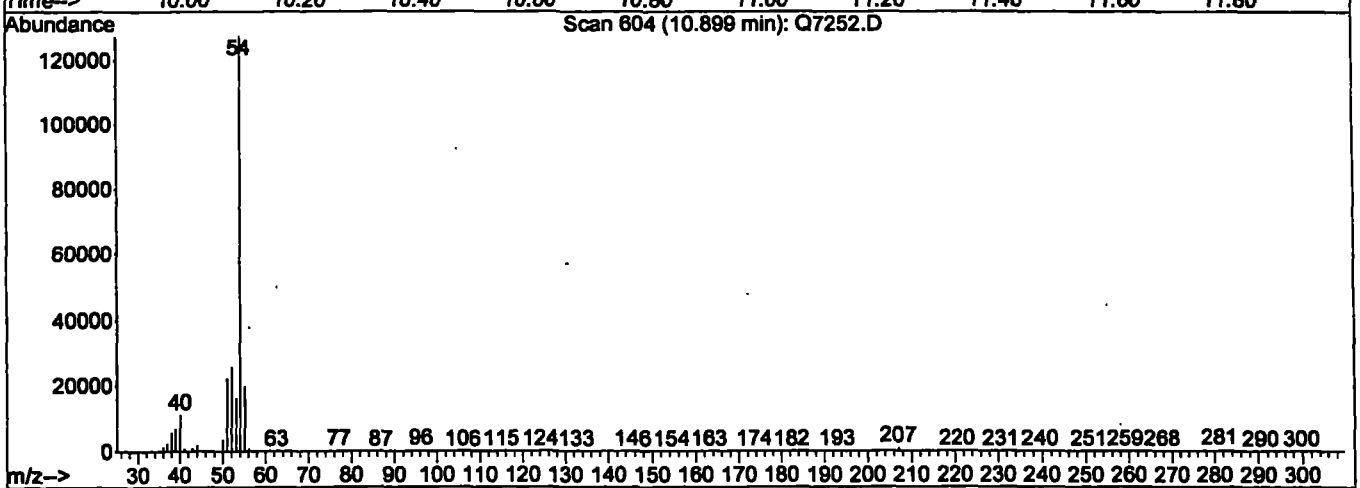
Ion	Exp%	Act%
101.00	100	100
102.95	63.40	62.40
66.05	13.80	11.31
0.00	0.00	0.00

Quantitation Report (QT)

Data File : J:\ACQUDATA\MSVOA6\DATA\012902\Q7252.D Vial: 2
Acq On : 29 Jan 2002 6:45 am Operator: B.ALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 30 12:34 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration





TIC: Q7252.D

(28) Propionitrile

10.90min 0.00ug/L

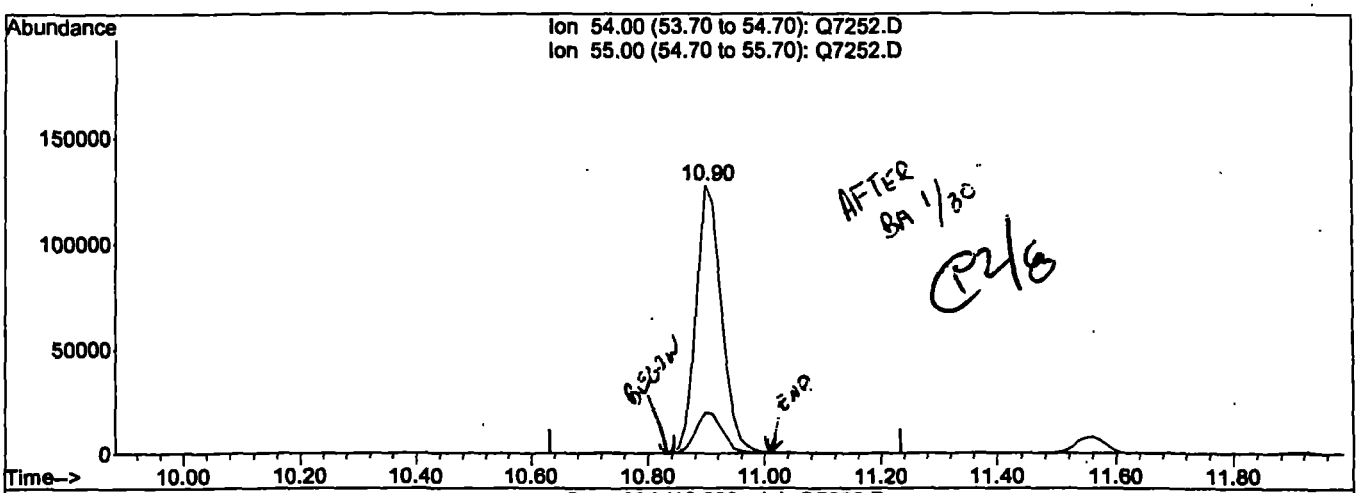
response 0

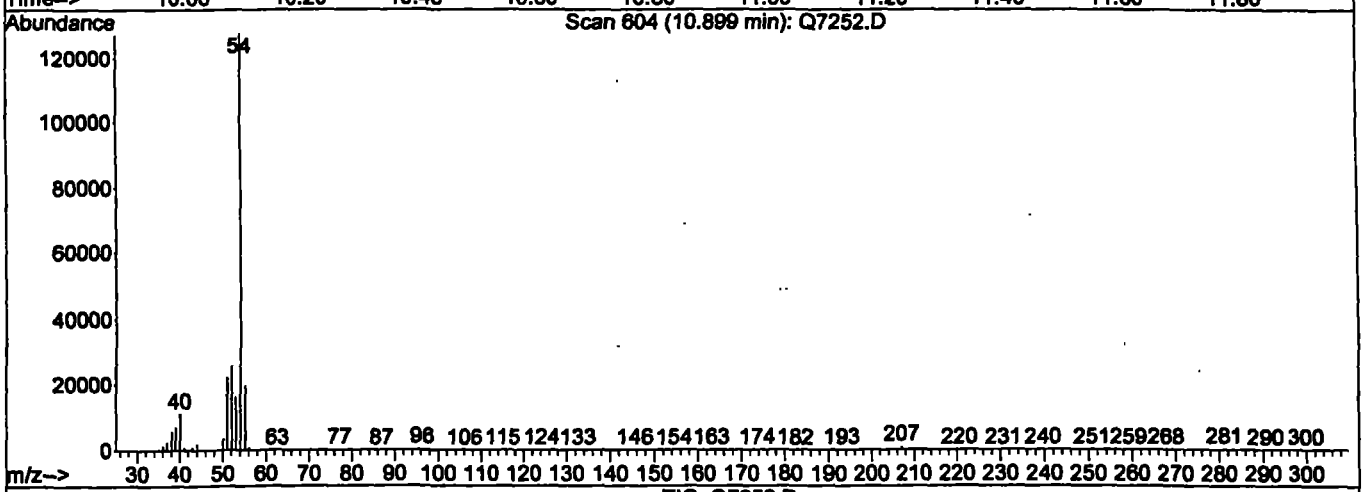
Ion	Exp%	Act%
54.00	100	0.00
55.00	15.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\012902\Q7252.D Vial: 2
Acq On : 29 Jan 2002 6:45 am Operator: B.ALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 30 12:34 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration





TIC: Q7252.D

(28) Propionitrile

10.90min 239.50ug/L m

response 392784

Ion	Exp%	Act%
54.00	100	100
55.00	15.80	15.53
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA6\DATA\020302\Q7346.D Vial: 4
Acq On : 3 Feb 2002 12:21 pm Operator: TTRAVER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	1.000	1.000	0.0	119	0.00
2		Dichlorodifluoromethane	0.649	0.607	6.5	105	0.00
3	p	Chloromethane	0.910	0.778	14.5	99	0.00
4	c	Vinyl Chloride	0.518	0.437	15.6	92	0.01
5		Bromomethane	0.452	0.433	4.2	113	0.00
6		Chloroethane	0.421	0.385	8.6	108	0.00
7		Trichlorofluoromethane	0.719	0.686	4.6	112	0.00
8		Diethyl Ether	0.378	0.399	-5.6	117	0.01
9		Acrolein	0.067	0.048	28.4#	82	0.00
10	c	1,1-Diclethene	0.431	0.415	3.7	115	0.01
11		Freon 113	0.444	0.407	8.3	113	0.00
12		Acetone	0.136	0.120	11.8	104	0.01
[illegible]		Iodomethane	0.573	0.735	-28.3#	126	0.01
		Carbon Disulfide	1.615	1.665	-3.1	125	0.01
15		Acetonitrile	0.000	0.000	0.0	108	0.01
16		Allyl Chloride	0.236	0.235	0.4	117	0.01
17		Methylene Chloride	0.498	0.497	0.2	120	0.01
18		TBA	0.033	0.030	9.1	108	0.00
19		Acrylonitrile	0.182	0.184	-1.1	111	0.01
20		Methyl-t-Butyl Ether	0.924	0.935	-1.2	117	0.01
21		trans-1,2-Dichloroethene	0.474	0.481	-1.5	115	0.01
22	p	1,1-Diclethane	0.909	0.895	1.5	113	0.00
23		Vinyl Acetate	0.847	0.729	13.9	97	0.01
24		2-Chloro-1,3-Butadiene	0.787	0.817	-3.8	126	0.00
25		2,2-Dichloropropane	0.605	0.592	2.1	116	0.00
26		cis-1,2-Dichloroethene	0.530	0.540	-1.9	118	0.01
27		2-Butanone	0.211	0.200	5.2	110	0.01
28		Propionitrile	0.068	0.064	5.9	110	0.01
29		Bromochloromethane	0.251	0.265	-5.6	124	0.01
30		Methacrylonitrile	0.140	0.140	0.0	114	0.00
31		Tetrahydrofuran	0.133	0.122	8.3	105	0.00
32	c	Chloroform	0.821	0.757	7.8	114	0.01
33		1,1,1-Trichloroethane	0.641	0.607	5.3	112	0.01
34		1,4-Difluorobenzene	1.000	1.000	0.0	120	0.01
35	s	surr4,Dibrflmethane	0.313	0.326	-4.2	123	0.01
36		Carbontetrachloride	0.363	0.353	2.8	117	0.00
37		1,1-Dichloropropene	0.150	0.156	-4.0	118	0.00
8		Benzene	1.207	1.190	1.4	116	0.01
39		1,2-Dichloroethane	0.412	0.388	5.8	114	0.00
40		Iso-Butyl Alcohol	0.012	0.011	8.3	106	0.00

(#) = Out of Range

Data File : J:\ACQUDATA\MSVOA6\DATA\020302\Q7346.D Vial: 4
Acq On : 3 Feb 2002 12:21 pm Operator: TTRAVER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		n-Heptane	0.556	0.572	-2.9	111	0.00
42		Trichloroethene	0.313	0.315	-0.6	118	0.01
43	c	1,2-Diclpropane	0.371	0.373	-0.5	117	0.00
44		Dibromomethane	0.194	0.188	3.1	114	0.00
45		1,4-Dioxane	0.003	0.003	0.0	114	0.01
46		Methyl Methacrylate	0.128	0.128	0.0	115	0.00
47		Bromodichloromethane	0.387	0.366	5.4	117	0.00
48		2-Nitropropane	0.150	0.142	5.3	111	0.00
49		2-Chloroethylvinyl Ether	0.179	0.179	0.0	115	0.00
50		cis-1,3-Dichloropropene	0.438	0.443	-1.1	117	0.01
51		4-Methyl-2-pentanone	0.260	0.246	5.4	107	0.01
52	s	SURR3,Toluene-d8	0.938	1.009	-7.6	121	0.00
53	c	Toluene	1.221	1.237	-1.3	116	0.01
[illegible]		trans-1,3-Dichloropropene	0.372	0.383	-3.0	116	0.00
[illegible]		Ethyl Methacrylate	0.252	0.258	-2.4	115	0.01
56		1,1,2-Trichloroethane	0.257	0.261	-1.6	117	0.00
57	s	SURR2,BFB	0.413	0.440	-6.5	121	0.00
58		d5-Chlorobenzene	1.000	1.000	0.0	118	0.00
59		Tetrachloroethene	0.328	0.326	0.6	117	0.00
60		2-Hexanone	0.215	0.203	5.6	101	0.00
61		1,3-Dichloropropane	0.491	0.525	-6.9	118	0.00
62		Dibromochloromethane	0.343	0.342	0.3	112	0.00
63		1,2-Dibromoethane	0.308	0.318	-3.2	118	0.00
64	p	Chlorobenzene	0.995	1.026	-3.1	117	0.00
65		1,1,1,2-Tetrachloroethane	0.326	0.345	-5.8	118	0.00
66	c	Ethylbenzene	0.499	0.536	-7.4	114	0.00
67		(m+p)Xylene	0.594	0.673	-13.3	113	0.00
68		o-Xylene	0.589	0.657	-11.5	116	0.00
69		Styrene	0.981	1.078	-9.9	114	0.00
70	p	Bromoform	0.232	0.234	-0.9	110	0.01
71		Isopropylbenzene	1.434	1.654	-15.3	117	0.00
72		Cyclohexanone	0.000	0.000	0.0	0#	0.01
73		trans-1,4-Dichloro-2-Butene	0.143	0.144	-0.7	108	0.00
74		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	115	0.01
75	p	1,1,2,2-Tetrachloroethane	0.716	0.699	2.4	113	0.00
76		Bromobenzene	0.723	0.757	-4.7	115	0.00
77		1,2,3-Trichloropropane	0.168	0.174	-3.6	122	0.00
[illegible]		n-Propylbenzene	3.558	3.832	-7.7	115	0.01
79		2-Chlorotoluene	2.306	2.421	-5.0	115	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA6\DATA\020302\Q7346.D Vial: 4
Acq On : 3 Feb 2002 12:21 pm Operator: TTRAVER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	4-Chlorotoluene	2.112	2.243	-6.2	116	0.01
81	1,3,5-Trimethylbenzene	2.204	2.454	-11.3	117	0.00
82	tert-Butylbenzene	1.857	2.009	-8.2	115	0.00
83	1,2,4-Trimethylbenzene	2.223	2.485	-11.8	114	0.00
84	sec-Butylbenzene	3.003	3.345	-11.4	115	0.00
85	p-Isopropyltoluene	2.440	2.705	-10.9	116	0.00
86	1,3-Diclbenzene	1.341	1.456	-8.6	119	0.01
87	1,4-Diclbenzene	1.526	1.593	-4.4	119	0.00
88	n-Butylbenzene	2.578	2.914	-13.0	117	0.00
89	1,2-Diclbenzene	1.356	1.457	-7.4	117	0.00
90	1,2-Dibromo-3-chloropropane	0.115	0.101	12.2	107	0.00
91	Nitrobenzene	0.000	0.000	0.0	105	0.00
92	1,2,4-Tcbenzene	0.999	1.065	-6.6	118	0.00
	Hexachlorobt	0.584	0.589	-0.9	114	0.00
94	Naphthalen	1.845	2.067	-12.0	126	0.00
95	1,2,3-Tclbenzene	0.975	1.033	-5.9	117	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020302\Q7346.D Vial: 4
Acq On : 3 Feb 2002 12:21 pm Operator: TTRAVER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 4 12:35 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.56	168	771136	50.00	ug/L	0.00
34) 1,4-Difluorobenzene	12.93	114	1167213	50.00	ug/L	0.01
58) d5-Chlorobenzene	18.20	117	961087	50.00	ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.53	152	561701	50.00	ug/L	0.01
System Monitoring Compounds						
35) surr4,Dibrflmethane	11.62	113	381046	52.20	ug/L	0.01
Spiked Amount 50.000			Recovery	=	104.40%	
52) SURR3,Toluene-d8	15.55	98	1178182	51.32	ug/L	0.00
Spiked Amount 50.000			Recovery	=	102.64%	
57) SURR2,BFB	20.34	95	513720	53.28	ug/L	0.00
Spiked Amount 50.000			Recovery	=	106.56%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.88	85	467982	46.79	ug/L	98
3) Chloromethane	4.33	50	600326	42.79	ug/L	98
4) Vinyl Chloride	4.59	62	337262	42.24	ug/L	95
5) Bromomethane	5.40	94	334054	47.87	ug/L	98
6) Chloroethane	5.62	64	296625	45.72	ug/L	97
7) Trichlorofluoromethane	6.18	101	528882	47.71	ug/L	97
8) Diethyl Ether	6.78	59	307661	52.80	ug/L	96
9) Acrolein	7.14	56	184789	179.06	ug/L	97
10) 1,1-Diclethene	7.33	96	320029	48.10	ug/L	90
11) Freon 113	7.25	101	313519	45.78	ug/L	94
12) Acetone	7.46	43	92518	44.01	ug/L	96
13) Iodomethane	7.69	142	567147	51.13	ug/L	97
14) Carbon Disulfide	7.83	76	1284237	51.54	ug/L	97
16) Allyl Chloride	8.07	76	181094	49.77	ug/L	85
17) Methylene Chloride	8.34	84	383252	49.93	ug/L	88
18) TBA	8.50	59	464535	919.08	ug/L	99
19) Acrylonitrile	8.84	53	708840	252.28	ug/L	100
20) Methyl-t-Butyl Ether	8.78	73	721210	50.60	ug/L	99
21) trans-1,2-Dichloroethene	8.85	96	370563	50.68	ug/L	93
22) 1,1-Diclethane	9.67	63	690005	49.21	ug/L	93
23) Vinyl Acetate	9.69	43	561942	43.03	ug/L	95
24) 2-Chloro-1,3-Butadiene	9.81	53	629851	51.90	ug/L	99
25) 2,2-Dichloropropane	10.72	77	456713	48.97	ug/L	96
26) cis-1,2-Dichloroethene	10.76	96	416704	50.94	ug/L	81
27) 2-Butanone	10.74	43	154304	47.33	ug/L	99
28) Propionitrile	10.91	54	246388m	233.37	ug/L	
29) Bromochloromethane	11.22	128	204176	52.66	ug/L	85

(#) = qualifier out of range (m) = manual integration

Data File : J:\ACQUDATA\MSVOA6\DATA\020302\Q7346.D Vial: 4
Acq On : 3 Feb 2002 12:21 pm Operator: TTRAVER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 4 12:35 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) Methacrylonitrile	11.16	67	107767	49.86 ug/L	88
31) Tetrahydrofuran	11.28	42	93884	45.63 ug/L	96
32) Chloroform	11.32	83	583934	46.12 ug/L	98
33) 1,1,1-Trichloroethane	11.64	97	468290	47.34 ug/L #	99
36) Carbontetrachloride	11.93	117	411619	48.52 ug/L	99
37) 1,1-Dichloropropene	11.92	110	181992	52.09 ug/L	92
38) Benzene	12.32	78	1389188	49.30 ug/L	98
39) 1,2-Dichloroethane	12.37	62	452982	47.13 ug/L	99
40) Iso-Butyl Alcohol	12.07	43	245724	912.38 ug/L	91
41) n-Heptane	12.59	43	667484	51.43 ug/L	95
42) Trichloroethene	13.43	130	367239	50.21 ug/L	99
43) 1,2-Diclpropane	13.86	63	435853	50.26 ug/L	99
44) Dibromomethane	14.11	93	219742	48.40 ug/L	97
45) 1,4-Dioxane	14.07	88	58526	943.94 ug/L	95
46) Methyl Methacrylate	13.92	69	148957	46.80 ug/L	94
47) Bromodichloromethane	14.34	83	427326	47.36 ug/L	100
48) 2-Nitropropane	14.76	43	331463	94.81 ug/L #	85
49) 2-Chloroethylvinyl Ether	14.77	63	208992	50.00 ug/L	93
50) cis-1,3-Dichloropropene	15.10	75	517192	50.63 ug/L	100
51) 4-Methyl-2-pentanone	15.30	43	287168	47.23 ug/L	97
53) Toluene	15.68	91	1443439	50.65 ug/L	100
54) trans-1,3-Dichloropropene	16.07	75	446549	51.37 ug/L	98
55) Ethyl Methacrylate	16.09	69	301136	51.10 ug/L	90
56) 1,1,2-Trichloroethane	16.42	97	304935	50.81 ug/L	98
59) Tetrachloroethene	16.66	164	313579	49.73 ug/L	98
60) 2-Hexanone	16.77	43	194994	47.08 ug/L #	92
61) 1,3-Dichloropropane	16.73	76	504407	53.49 ug/L	99
62) Dibromochloromethane	17.18	129	328523	49.87 ug/L	97
63) 1,2-Dibromoethane	17.42	107	305917	51.72 ug/L	99
64) Chlorobenzene	18.25	112	986323	51.57 ug/L	99
65) 1,1,1,2-Tetrachloroethane	18.38	131	331681	52.92 ug/L	94
66) Ethylbenzene	18.38	106	515014	53.70 ug/L	98
67) (m+p)Xylene	18.58	106	1294279	113.39 ug/L	98
68) o-Xylene	19.34	106	631858	55.80 ug/L	99
69) Styrene	19.36	104	1035876	54.91 ug/L	99
70) Bromoform	19.83	173	225031	50.44 ug/L	97
71) Isopropylbenzene	19.97	105	1589686	57.68 ug/L	99
73) trans-1,4-Dichloro-2-Buten	20.68	53	138661	50.58 ug/L	91
75) 1,1,2,2-Tetrachloroethane	20.60	83	392795	48.82 ug/L	100
76) Bromobenzene	20.67	156	425321	52.33 ug/L	98
77) 1,2,3-Trichloropropane	20.71	110	97893	51.96 ug/L	82

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020302\Q7346.D Vial: 4
Acq On : 3 Feb 2002 12:21 pm Operator: TTRAVER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 4 12:35 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

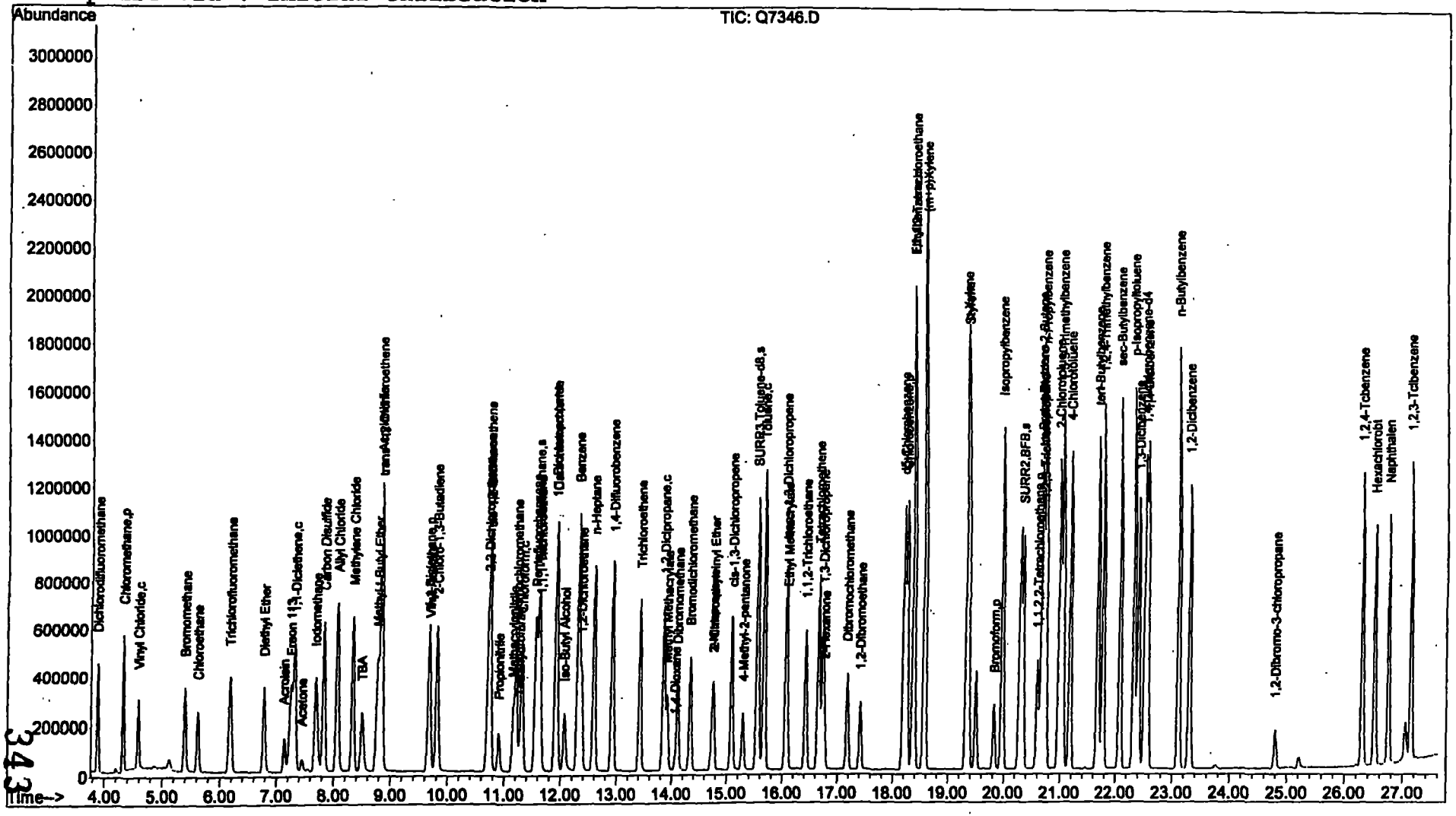
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
78)	n-Propylbenzene	20.74	91	2152190	53.84 ug/L	99
79)	2-Chlorotoluene	20.98	91	1359850	52.50 ug/L	100
80)	4-Chlorotoluene	21.18	91	1260077	53.10 ug/L	99
81)	1,3,5-Trimethylbenzene	21.04	105	1378545	55.68 ug/L	100
82)	tert-Butylbenzene	21.68	119	1128409	54.10 ug/L	100
83)	1,2,4-Trimethylbenzene	21.77	105	1395638	55.88 ug/L	99
84)	sec-Butylbenzene	22.08	105	1878627	55.69 ug/L	100
85)	p-Isopropyltoluene	22.33	119	1519236	55.42 ug/L	100
86)	1,3-Diclbenzene	22.41	146	817783	54.29 ug/L	99
87)	1,4-Diclbenzene	22.57	146	894944	52.20 ug/L	99
88)	n-Butylbenzene	23.11	91	1636810	56.52 ug/L	100
89)	1,2-Diclbenzene	23.30	146	818470	53.74 ug/L	99
90)	1,2-Dibromo-3-chloropropan	24.80	75	56679	43.92 ug/L	90
92)	1,2,4-Tcbenzene	26.31	180	598254	53.32 ug/L	99
93)	Hexachlorobt	26.52	225	330703	50.44 ug/L	98
94)	Naphthalen	26.75	128	1161300	56.03 ug/L	98
95)	1,2,3-Tclbenzene	27.15	180	580165	52.97 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitat ı Report

Data File : J:\ACQUDATA\MSVOA6\DATA\020302\Q7346.D Vial: 4
Acq On : 3 Feb 2002 12:21 pm Operator: TTRAVER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 4 12:35 2002 Quant Results File: EXP0124.RES

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration

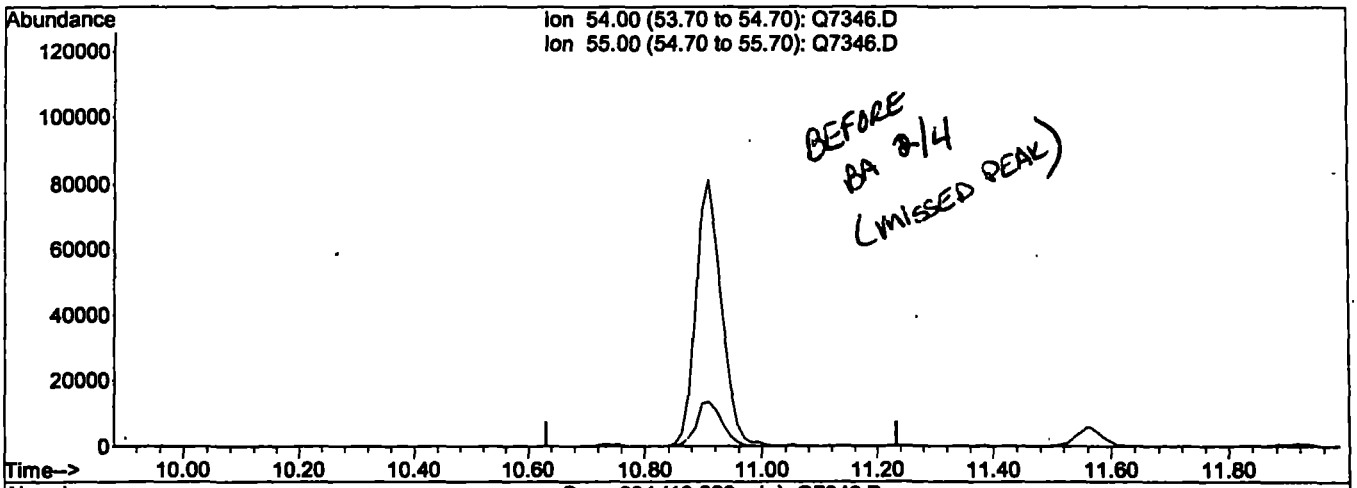


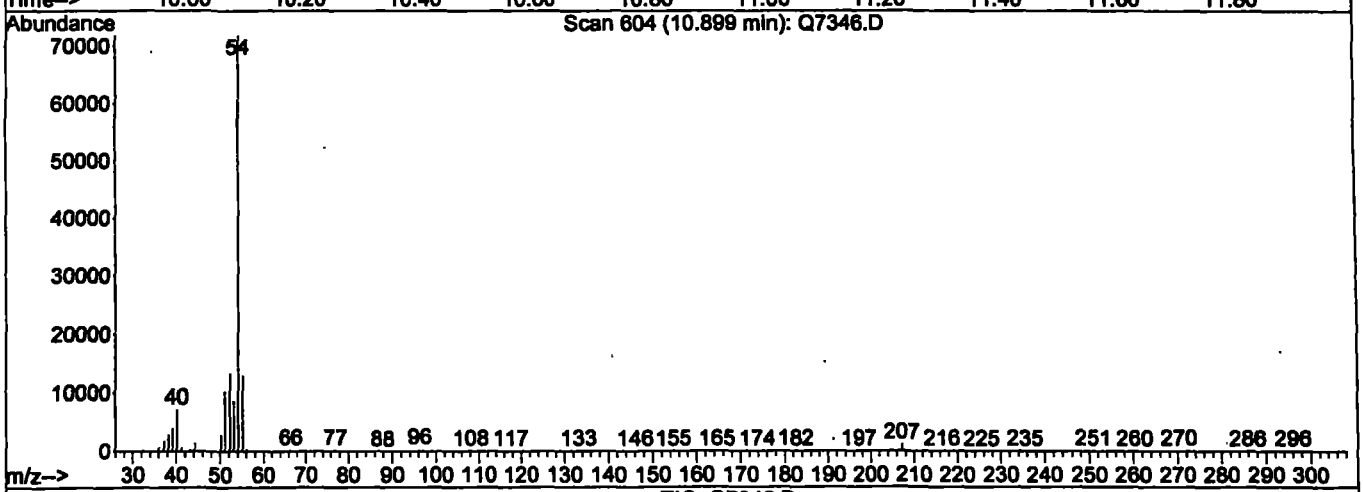
343

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\020302\Q7346.D Vial: 4
Acq On : 3 Feb 2002 12:21 pm Operator: TTRAVER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 3 12:50 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration





TIC: Q7346.D

(28) Propionitrile

10.90min 0.00ug/L

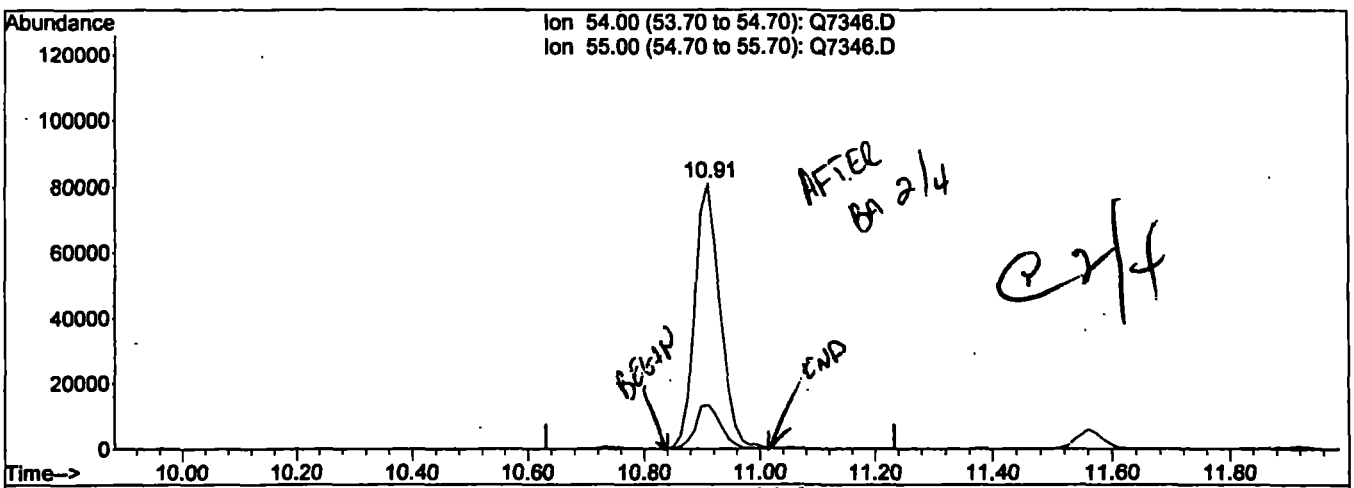
response 0

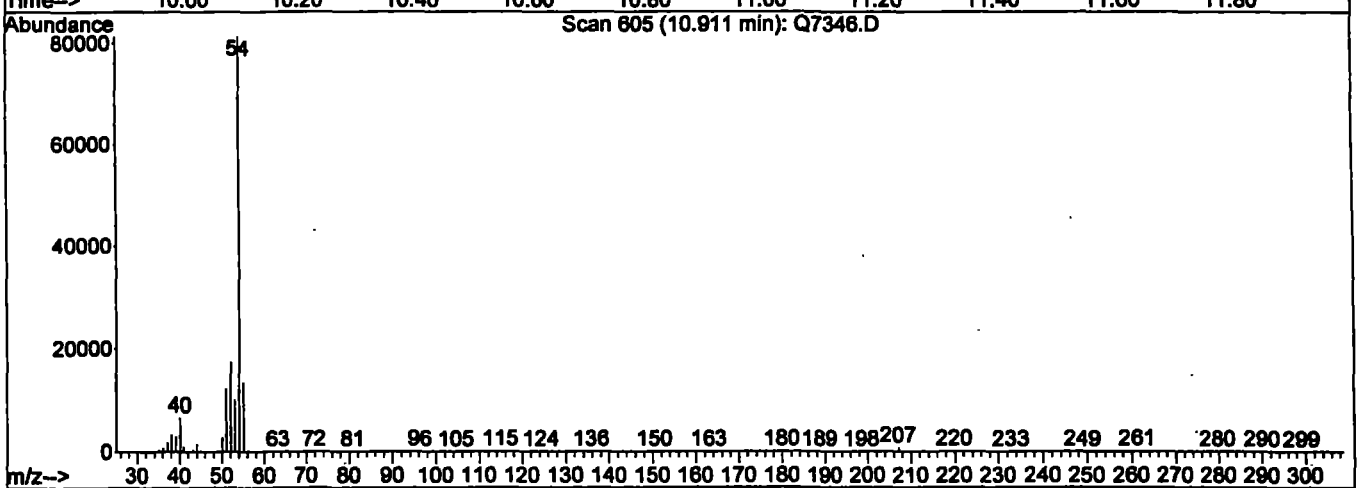
Ion	Exp%	Act%
54.00	100	0.00
55.00	15.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\020302\Q7346.D Vial: 4
Acq On : 3 Feb 2002 12:21 pm Operator: TTRAVER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 4 12:35 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration





TIC: Q7346.D

(28) Propionitrile

10.91min 233.37ug/L m

response 246388

Ion	Exp%	Act%
54.00	100	100
55.00	15.80	16.48
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7362.D Vial: 3
Acq On : 4 Feb 2002 11:30 am Operator: BALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	1.000	1.000	0.0	143	0.00
2		Dichlorodifluoromethane	0.649	0.614	5.4	128	0.00
3	p	Chloromethane	0.910	0.840	7.7	128	0.00
4	c	Vinyl Chloride	0.518	0.463	10.6	116	0.00
5		Bromomethane	0.452	0.455	-0.7	142	0.00
6		Chloroethane	0.421	0.411	2.4	138	0.00
7		Trichlorofluoromethane	0.719	0.771	-7.2	151	0.00
8		Diethyl Ether	0.378	0.407	-7.7	143	0.00
9		Acrolein	0.067	0.047	29.9#	97	0.00
10	c	1,1-Diclethene	0.431	0.458	-6.3	153	0.00
11		Freon 113	0.444	0.455	-2.5	152	0.00
12		Acetone	0.136	0.126	7.4	132	0.00
13		Iodomethane	0.573	0.778	-35.8#	160	0.00
[illegible]		Carbon Disulfide	1.615	1.666	-3.2	150	0.00
[illegible]		Acetonitrile	0.000	0.000	0.0	139	0.00
16		Allyl Chloride	0.236	0.255	-8.1	153	0.00
17		Methylene Chloride	0.498	0.522	-4.8	151	0.00
18		TBA	0.033	0.028	15.2	123	0.00
19		Acrylonitrile	0.182	0.171	6.0	124	0.00
20		Methyl-t-Butyl Ether	0.924	0.974	-5.4	146	0.00
21		trans-1,2-Dichloroethene	0.474	0.532	-12.2	153	0.00
22	p	1,1-Diclethane	0.909	0.963	-5.9	145	0.00
23		Vinyl Acetate	0.847	0.726	14.3	116	0.00
24		2-Chloro-1,3-Butadiene	0.787	0.808	-2.7	150	0.00
25		2,2-Dichloropropane	0.605	0.669	-10.6	157	0.00
26		cis-1,2-Dichloroethene	0.530	0.574	-8.3	150	0.00
27		2-Butanone	0.211	0.186	11.8	123	0.00
28		Propionitrile	0.068	0.060	11.8	125	0.00
29		Bromochloromethane	0.251	0.268	-6.8	151	0.00
30		Methacrylonitrile	0.140	0.137	2.1	134	0.00
31		Tetrahydrofuran	0.133	0.111	16.5	115	-0.02
32	c	Chloroform	0.821	0.834	-1.6	151	0.00
33		1,1,1-Trichloroethane	0.641	0.686	-7.0	152	0.00
34		1,4-Difluorobenzene	1.000	1.000	0.0	144	0.00
35	s	surr4,Dibrflmethane	0.313	0.322	-2.9	145	0.00
36		Carbontetrachloride	0.363	0.390	-7.4	155	0.00
37		1,1-Dichloropropene	0.150	0.168	-12.0	152	0.00
[illegible]		Benzene	1.207	1.261	-4.5	147	0.00
[illegible]		1,2-Dichloroethane	0.412	0.398	3.4	140	0.00
40		Iso-Butyl Alcohol	0.012	0.009	25.0#	107	0.00

(#) = Out of Range

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7362.D Vial: 3
Acq On : 4 Feb 2002 11:30 am Operator: BALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		n-Heptane	0.556	0.598	-7.6	139	0.00
42		Trichloroethene	0.313	0.338	-8.0	152	0.00
43	c	1,2-Diclpropane	0.371	0.384	-3.5	144	0.00
44		Dibromomethane	0.194	0.193	0.5	140	0.00
45		1,4-Dioxane	0.003	0.003	0.0	138	0.00
46		Methyl Methacrylate	0.128	0.122	4.7	132	0.00
47		Bromodichloromethane	0.387	0.384	0.8	148	0.00
48		2-Nitropropane	0.150	0.137	8.7	128	0.00
49		2-Chloroethylvinyl Ether	0.179	0.172	3.9	132	0.00
50		cis-1,3-Dichloropropene	0.438	0.479	-9.4	152	0.00
51		4-Methyl-2-pentanone	0.260	0.223	14.2	117	0.00
52	s	SURR3,Toluene-d8	0.938	1.016	-8.3	145	0.00
53	c	Toluene	1.221	1.319	-8.0	148	0.00
[illegible]		trans-1,3-Dichloropropene	0.372	0.389	-4.6	142	0.00
		Ethyl Methacrylate	0.252	0.243	3.6	130	0.00
56		1,1,2-Trichloroethane	0.257	0.257	0.0	138	0.00
57	s	SURR2,BFB	0.413	0.427	-3.4	141	0.00
58		d5-Chlorobenzene	1.000	1.000	0.0	144	0.00
59		Tetrachloroethene	0.328	0.328	0.0	144	0.00
60		2-Hexanone	0.215	0.180	16.3	110	0.00
61		1,3-Dichloropropane	0.491	0.519	-5.7	143	0.00
62		Dibromochloromethane	0.343	0.342	0.3	137	0.00
63		1,2-Dibromoethane	0.308	0.318	-3.2	144	0.00
64	p	Chlorobenzene	0.995	1.039	-4.4	145	0.00
65		1,1,1,2-Tetrachloroethane	0.326	0.352	-8.0	148	0.00
66	c	Ethylbenzene	0.499	0.552	-10.6	144	0.00
67		(m+p)Xylene	0.594	0.684	-15.2	140	0.00
68		o-Xylene	0.589	0.668	-13.4	144	0.00
69		Styrene	0.981	1.085	-10.6	141	0.00
70	p	Bromoform	0.232	0.216	6.9	124	0.00
71		Isopropylbenzene	1.434	1.670	-16.5	144	0.00
72		Cyclohexanone	0.000	0.000	0.0	0#	0.00
73		trans-1,4-Dichloro-2-Butene	0.143	0.124	13.3	114	0.00
74		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	127	0.00
75	p	1,1,2,2-Tetrachloroethane	0.716	0.680	5.0	121	0.00
76		Bromobenzene	0.723	0.815	-12.7	137	0.00
77		1,2,3-Trichloropropane	0.168	0.166	1.2	128	0.00
		n-Propylbenzene	3.558	4.154	-16.8	138	0.00
[illegible]		2-Chlorotoluene	2.306	2.688	-16.6	141	0.00

(#) = Out of Range

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7362.D Vial: 3
Acq On : 4 Feb 2002 11:30 am Operator: BALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	4-Chlorotoluene	2.112	2.492	-18.0	142	0.00
81	1,3,5-Trimethylbenzene	2.204	2.679	-21.6	141	0.00
82	tert-Butylbenzene	1.857	2.209	-19.0	140	0.00
83	1,2,4-Trimethylbenzene	2.223	2.749	-23.7	140	0.00
84	sec-Butylbenzene	3.003	3.612	-20.3	137	0.00
85	p-Isopropyltoluene	2.440	2.901	-18.9	138	0.00
86	1,3-Diclbenzene	1.341	1.507	-12.4	136	0.00
87	1,4-Diclbenzene	1.526	1.603	-5.0	132	0.00
88	n-Butylbenzene	2.578	3.070	-19.1	136	0.00
89	1,2-Diclbenzene	1.356	1.472	-8.6	131	0.00
90	1,2-Dibromo-3-chloropropane	0.115	0.098	14.8	115	0.00
91	Nitrobenzene	0.000	0.000	0.0	112	-0.02
92	1,2,4-Tcbenzene	0.999	1.087	-8.8	133	0.00
	Hexachlorobt	0.584	0.637	-9.1	136	0.00
	Naphthalen	1.845	1.999	-8.3	134	0.00
95	1,2,3-Tclbenzene	0.975	0.992	-1.7	124	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7362.D Vial: 3
Acq On : 4 Feb 2002 11:30 am Operator: BALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 8 12:52 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.56	168	925792	50.00	ug/L	0.00
34) 1,4-Difluorobenzene	12.92	114	1399441	50.00	ug/L	0.00
58) d5-Chlorobenzene	18.20	117	1174792	50.00	ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.52	152	620118	50.00	ug/L	0.00
System Monitoring Compounds						
35) surr4,Dibrflmethane	11.61	113	450534	51.42	ug/L	0.00
Spiked Amount 50.000			Recovery	=	102.84%	
52) SURR3,Toluene-d8	15.55	98	1422140	51.66	ug/L	0.00
Spiked Amount 50.000			Recovery	=	103.32%	
57) SURR2,BFB	20.34	95	597691	51.70	ug/L	0.00
Spiked Amount 50.000			Recovery	=	103.40%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.89	85	568118	47.31	ug/L	98
3) Chloromethane	4.33	50	777559	46.17	ug/L	99
4) Vinyl Chloride	4.59	62	428845	44.74	ug/L	95
5) Bromomethane	5.39	94	421431	50.31	ug/L	100
6) Chloroethane	5.62	64	380454	48.85	ug/L	98
7) Trichlorofluoromethane	6.17	101	713829m BA	53.63	ug/L	
8) Diethyl Ether	6.78	59	376612 2/B	53.83	ug/L	94
9) Acrolein	7.13	56	219461	177.13	ug/L	99
10) 1,1-Diclethene	7.31	96	424412	53.13	ug/L	88
11) Freon 113	7.25	101	421320	51.24	ug/L	99
12) Acetone	7.45	43	116764	46.27	ug/L	96
13) Iodomethane	7.69	142	720701	53.97	ug/L	98
14) Carbon Disulfide	7.83	76	1542500	51.57	ug/L	99
16) Allyl Chloride	8.06	76	235919	54.00	ug/L	85
17) Methylene Chloride	8.33	84	482835	52.39	ug/L	86
18) TBA	8.49	59	527059	868.58	ug/L	91
19) Acrylonitrile	8.82	53	789707	234.11	ug/L	99
20) Methyl-t-Butyl Ether	8.78	73	901732	52.70	ug/L	97
21) trans-1,2-Dichloroethene	8.84	96	492647	56.12	ug/L	96
22) 1,1-Diclethane	9.66	63	891596	52.96	ug/L	98
23) Vinyl Acetate	9.68	43	672156	42.87	ug/L	95
24) 2-Chloro-1,3-Butadiene	9.81	53	747902	51.33	ug/L	96
25) 2,2-Dichloropropane	10.72	77	619502	55.32	ug/L	98
26) cis-1,2-Dichloroethene	10.74	96	531596	54.13	ug/L	84
27) 2-Butanone	10.74	43	172391	44.05	ug/L	98
28) Propionitrile	10.91	54	279080m BA	220.18	ug/L	
29) Bromochloromethane	11.20	128	247984 2/B	53.27	ug/L	85

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7362.D Vial: 3
Acq On : 4 Feb 2002 11:30 am Operator: BALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 8 12:52 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) Methacrylonitrile	11.16	67	127016	48.95 ug/L #	71
31) Tetrahydrofuran	11.26	42	102691	41.57 ug/L #	89
32) Chloroform	11.31	83	772397	50.81 ug/L	97
33) 1,1,1-Trichloroethane	11.63	97	635085	53.48 ug/L #	99
36) Carbontetrachloride	11.92	117	545259	53.61 ug/L	96
37) 1,1-Dichloropropene	11.91	110	234700	56.03 ug/L	96
38) Benzene	12.30	78	1764602	52.23 ug/L	99
39) 1,2-Dichloroethane	12.36	62	556721	48.31 ug/L	97
40) Iso-Butyl Alcohol	12.07	43	248114	768.38 ug/L	99
41) n-Heptane	12.59	43	836798	53.78 ug/L	98
42) Trichloroethene	13.43	130	473470	53.99 ug/L	99
43) 1,2-Diclpropane	13.85	63	536768	51.63 ug/L	97
44) Dibromomethane	14.10	93	270219	49.64 ug/L	99
45) 1,4-Dioxane	14.07	88	70565	949.24 ug/L	96
46) Methyl Methacrylate	13.91	69	170054	44.67 ug/L	99
47) Bromodichloromethane	14.34	83	537586	49.69 ug/L	100
48) 2-Nitropropane	14.75	43	382554	91.27 ug/L	99
49) 2-Chloroethylvinyl Ether	14.76	63	240440	47.98 ug/L	96
50) cis-1,3-Dichloropropene	15.08	75	670792	54.77 ug/L	99
51) 4-Methyl-2-pentanone	15.29	43	311762	42.76 ug/L	95
53) Toluene	15.66	91	1845333	54.01 ug/L	100
54) trans-1,3-Dichloropropene	16.07	75	544865	52.28 ug/L	99
55) Ethyl Methacrylate	16.09	69	340409	48.18 ug/L	89
56) 1,1,2-Trichloroethane	16.42	97	359974	50.03 ug/L	98
59) Tetrachloroethene	16.66	164	385670	50.04 ug/L	97
60) 2-Hexanone	16.76	43	211100	41.70 ug/L	95
61) 1,3-Dichloropropane	16.73	76	609466	52.87 ug/L	96
62) Dibromochloromethane	17.18	129	401654	49.88 ug/L	100
63) 1,2-Dibromoethane	17.42	107	373642	51.67 ug/L	100
64) Chlorobenzene	18.24	112	1220361	52.20 ug/L	99
65) 1,1,1,2-Tetrachloroethane	18.37	131	413582	53.99 ug/L	98
66) Ethylbenzene	18.37	106	648710	55.34 ug/L	97
67) (m+p)Xylene	18.57	106	1606927	115.17 ug/L	96
68) o-Xylene	19.33	106	784317	56.67 ug/L	99
69) Styrene	19.36	104	1274603	55.28 ug/L	99
70) Bromoform	19.83	173	253184	46.42 ug/L	99
71) Isopropylbenzene	19.97	105	1961415	58.22 ug/L	99
73) trans-1,4-Dichloro-2-Buten	20.68	53	146161	43.61 ug/L	98
75) 1,1,2,2-Tetrachloroethane	20.60	83	421716	47.48 ug/L	97
76) Bromobenzene	20.67	156	505645	56.35 ug/L	98
77) 1,2,3-Trichloropropane	20.70	110	102895	49.47 ug/L	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7362.D Vial: 3
Acq On : 4 Feb 2002 11:30 am Operator: BALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 8 12:52 2002 Quant Results File: EXP0124.RES

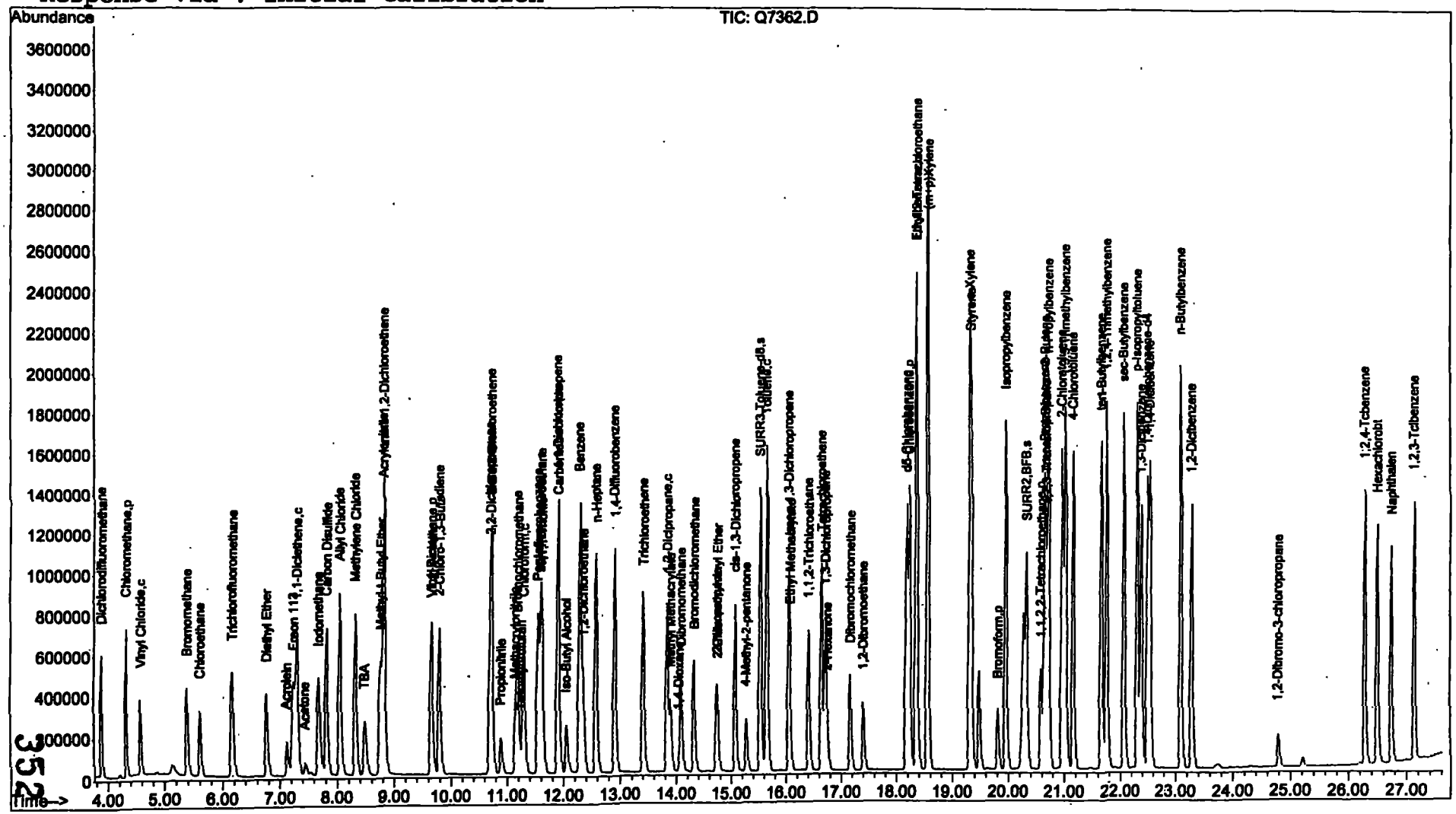
Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
78) n-Propylbenzene	20.74	91	2575773	58.37 ug/L	99
79) 2-Chlorotoluene	20.98	91	1667015	58.30 ug/L	98
80) 4-Chlorotoluene	21.18	91	1545534	59.00 ug/L	98
81) 1,3,5-Trimethylbenzene	21.04	105	1661536	60.78 ug/L	99
82) tert-Butylbenzene	21.67	119	1369567	59.48 ug/L	99
83) 1,2,4-Trimethylbenzene	21.77	105	1704428	61.81 ug/L	99
84) sec-Butylbenzene	22.08	105	2239782	60.14 ug/L	99
85) p-Isopropyltoluene	22.33	119	1799195	59.45 ug/L	99
86) 1,3-Diclbenzene	22.40	146	934628	56.20 ug/L	99
87) 1,4-Diclbenzene	22.56	146	994082	52.52 ug/L	99
88) n-Butylbenzene	23.11	91	1903744	59.54 ug/L	99
89) 1,2-Diclbenzene	23.30	146	913051	54.30 ug/L	99
90) 1,2-Dibromo-3-chloropropan	24.80	75	60887	42.74 ug/L	97
92) 1,2,4-Tcbenzene	26.30	180	674303	54.44 ug/L	99
93) Hexachlorobt	26.51	225	394713	54.53 ug/L	99
94) Naphthalen	26.75	128	1239455	54.17 ug/L	98
95) 1,2,3-Tclbenzene	27.14	180	615006	50.86 ug/L	97

(#) = qualifier out of range (m) = manual integration

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q736 Vial: 3
Acq On : 4 Feb 2002 11:30 am Operator: BALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 8 12:52 2002 Quant Results File: EXP0124.RES

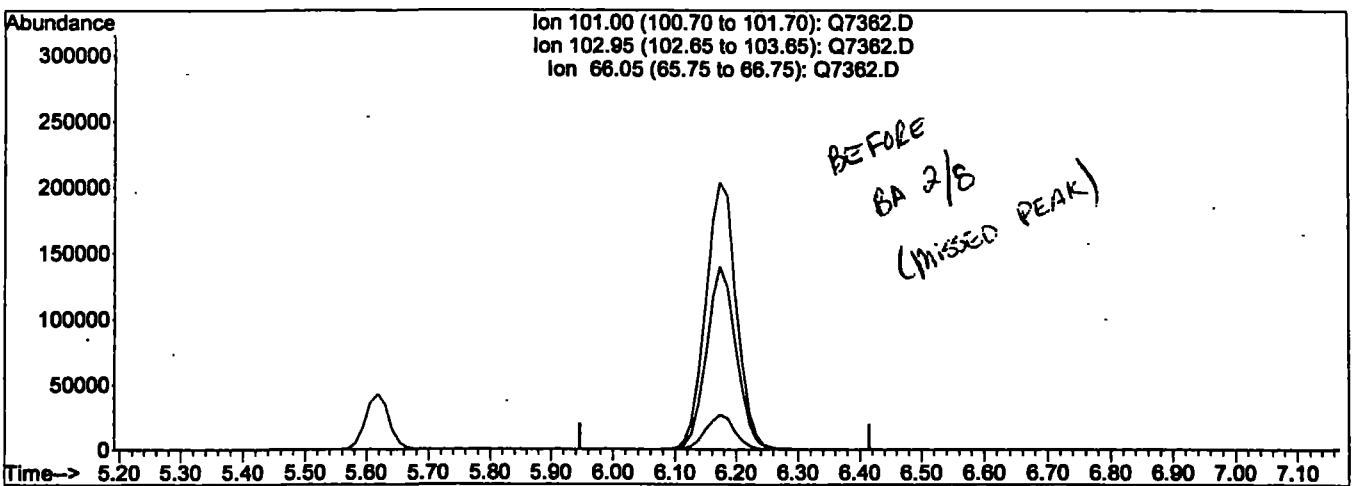
Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration

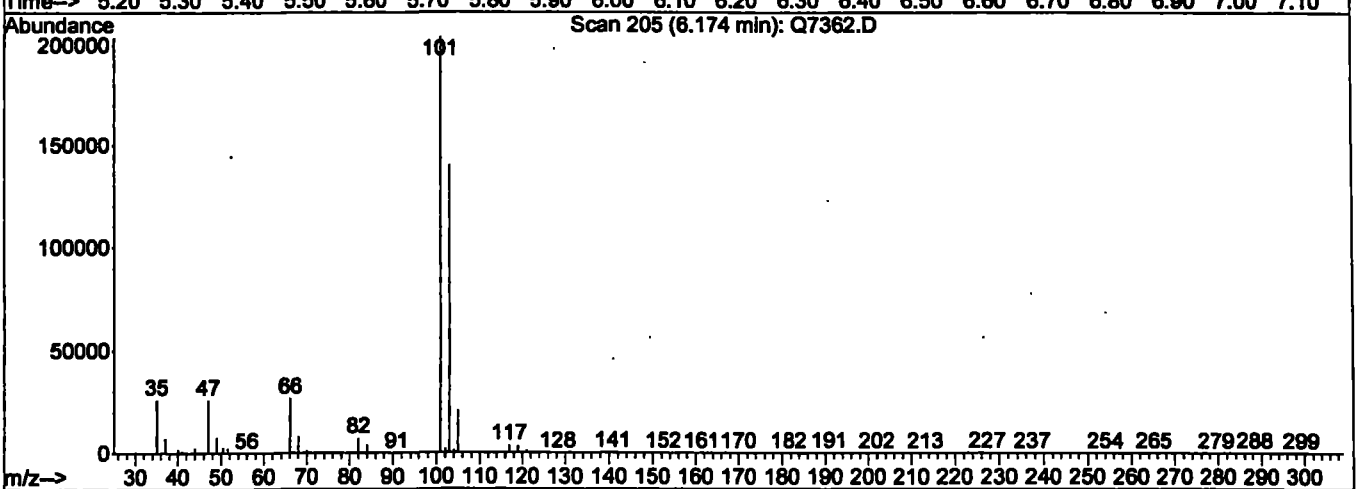


Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7362.D Vial: 3
Acq On : 4 Feb 2002 11:30 am Operator: BALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 8 12:48 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration





TIC: Q7362.D

(7) Trichlorofluoromethane

6.18min 0.00ug/L

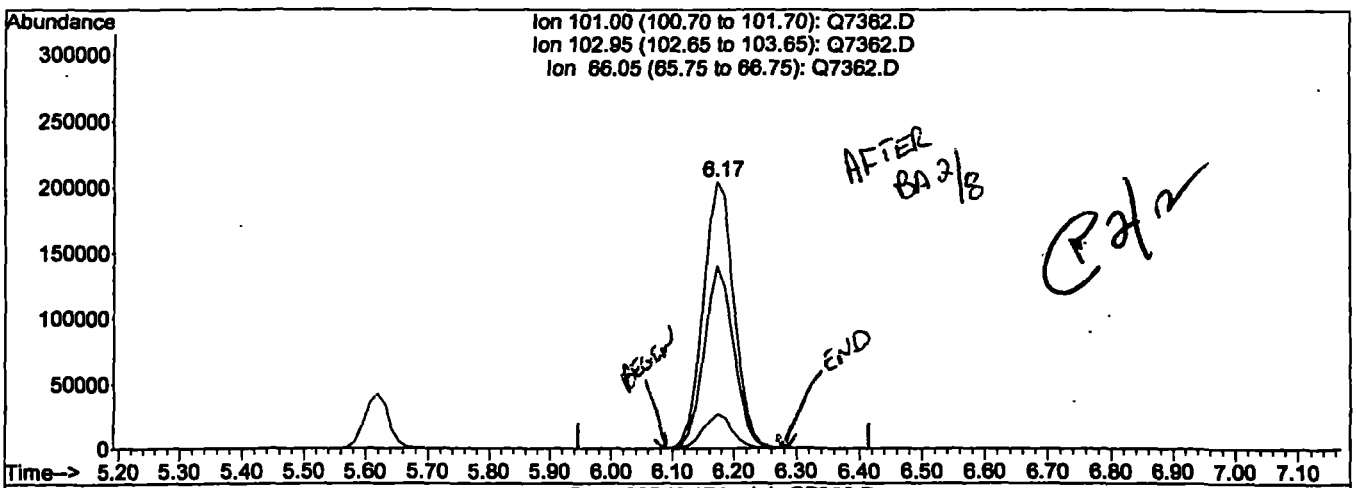
response 0

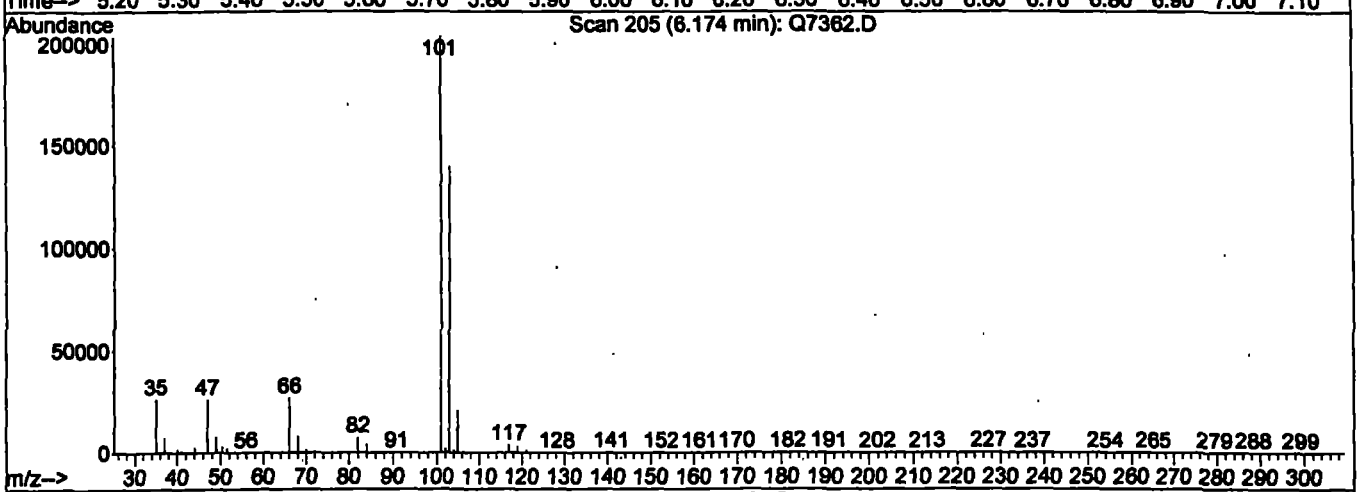
Ion	Exp%	Act%
101.00	100	0.00
102.95	63.40	0.00#
66.05	13.80	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7362.D Vial: 3
Acq On : 4 Feb 2002 11:30 am Operator: BALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 8 12:51 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration





TIC: Q7362.D

(7) Trichlorofluoromethane

6.17min 53.63ug/L m

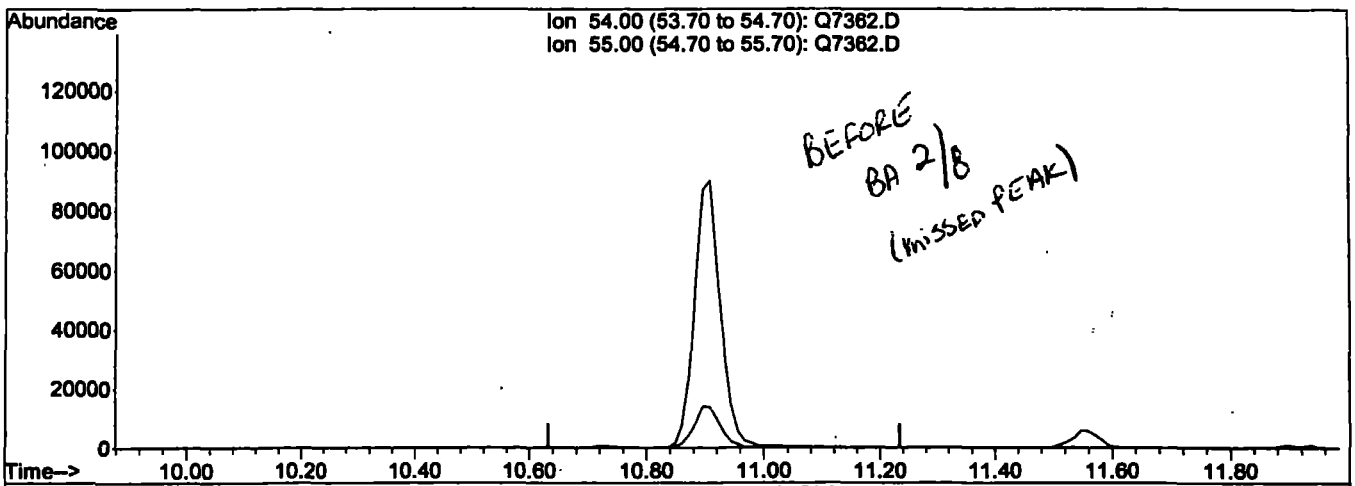
response 713829

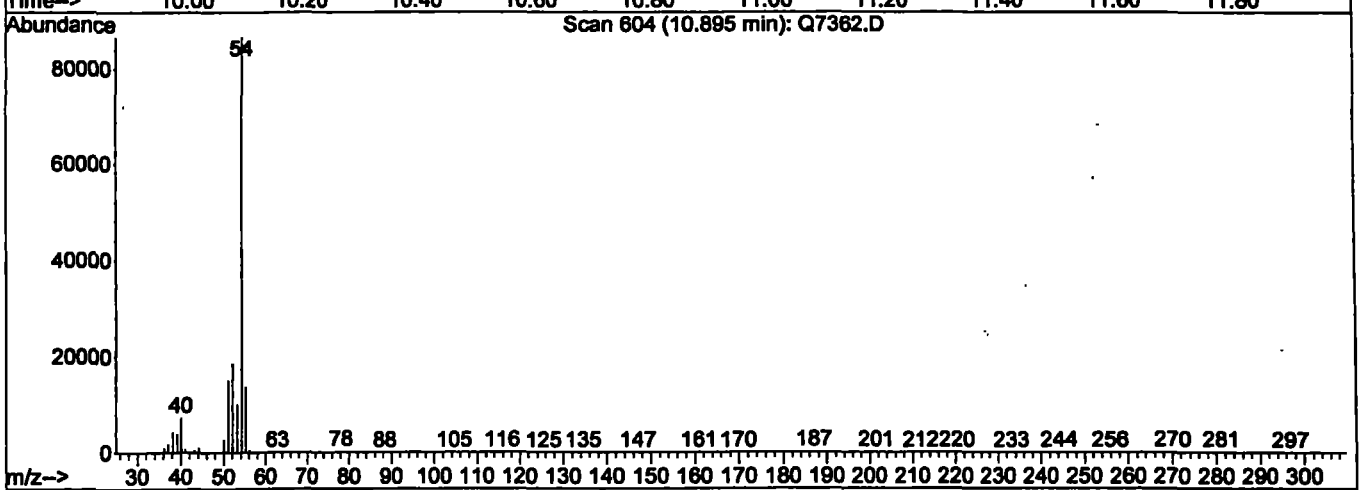
Ion	Exp%	Act%
101.00	100	100
102.95	63.40	68.59
66.05	13.80	13.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7362.D Vial: 3
Acq On : 4 Feb 2002 11:30 am Operator: BALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 8 12:51 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration





(28) Propionitrile

10.90min 0.00ug/L

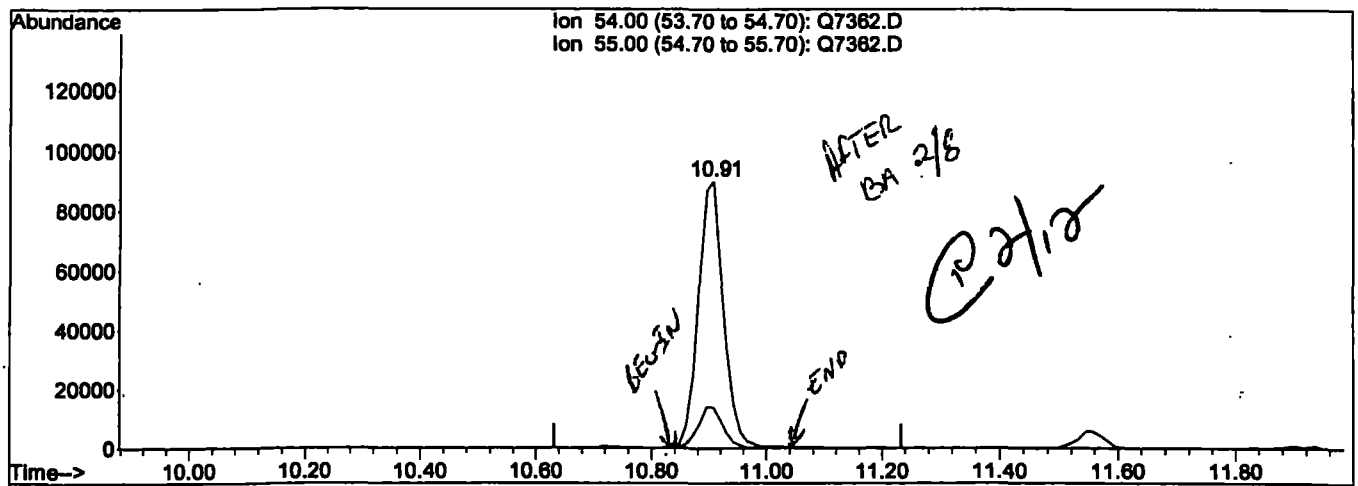
response 0

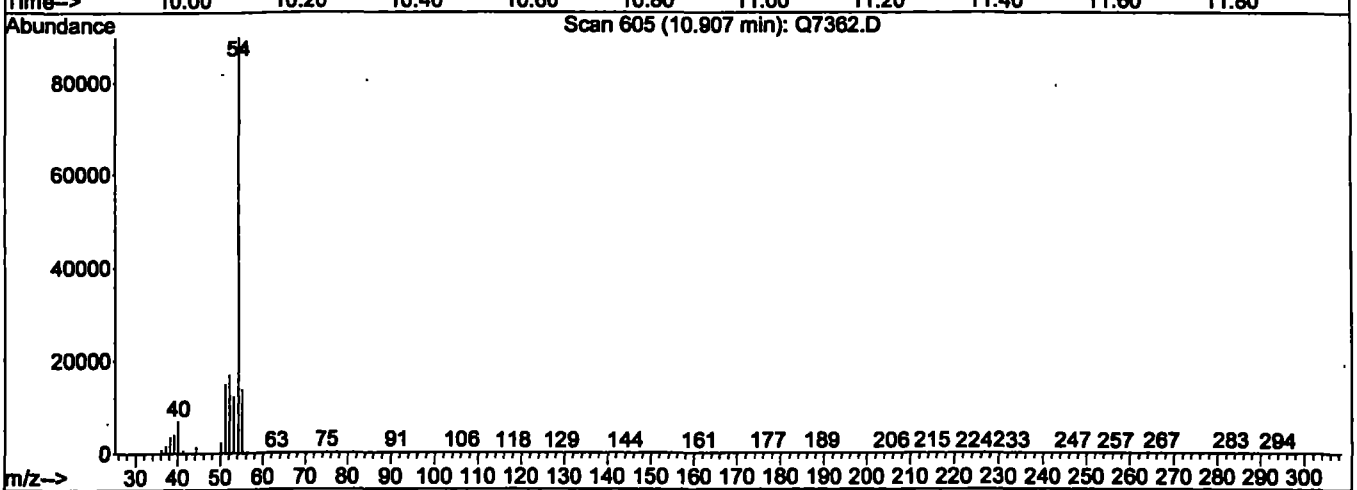
Ion	Exp%	Act%
54.00	100	0.00
55.00	15.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7362.D Vial: 3
Acq On : 4 Feb 2002 11:30 am Operator: BALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 8 12:52 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration





TIC: Q7362.D

(28) Propionitrile

10.91min 220.18ug/L m

response 279080

Ion	Exp%	Act%
54.00	100	100
55.00	15.80	15.41
0.00	0.00	0.00
0.00	0.00	0.00

AFTER BA 2/8

2/12

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA6\DATA\020502\Q7386.D Vial: 27
Acq On : 5 Feb 2002 11:51 am Operator: BALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	1.000	1.000	0.0	165	0.00
2		Dichlorodifluoromethane	0.649	0.661	-1.8	158	0.00
3	p	Chloromethane	0.910	0.761	16.4	133	0.00
4	c	Vinyl Chloride	0.518	0.457	11.8	132	0.00
5		Bromomethane	0.452	0.368	18.6	132	0.00
6		Chloroethane	0.421	0.385	8.6	149	0.00
7		Trichlorofluoromethane	0.719	0.862	-19.9	194	0.00
8		Diethyl Ether	0.378	0.367	2.9	148	0.00
9		Acrolein	0.067	0.039	41.8#	91	0.00
10	c	1,1-Diclethene	0.431	0.426	1.2	163	0.00
11		Freon 113	0.444	0.423	4.7	163	0.00
12		Acetone	0.136	0.128	5.9	153	0.00
		Iodomethane	0.573	0.695	-21.3	164	0.00
		Carbon Disulfide	1.615	1.565	3.1	161	0.00
15		Acetonitrile	0.000	0.000	0.0	174	0.00
16		Allyl Chloride	0.236	0.240	-1.7	165	0.00
17		Methylene Chloride	0.498	0.516	-3.6	171	0.00
18		TBA	0.033	0.029	12.1	142	0.00
19		Acrylonitrile	0.182	0.143	21.4	119	0.00
20		Methyl-t-Butyl Ether	0.924	1.035	-12.0	178	0.00
21		trans-1,2-Dichloroethene	0.474	0.482	-1.7	159	0.00
22	p	1,1-Diclethane	0.909	0.955	-5.1	166	0.00
23		Vinyl Acetate	0.847	0.689	18.7	127	0.00
24		2-Chloro-1,3-Butadiene	0.787	0.905	-15.0	192	0.00
25		2,2-Dichloropropane	0.605	0.784	-29.6#	211#	0.00
26		cis-1,2-Dichloroethene	0.530	0.532	-0.4	160	0.00
27		2-Butanone	0.211	0.166	21.3	125	0.00
28		Propionitrile	0.068	0.051	25.0#	122	0.00
29		Bromochloromethane	0.251	0.225	10.4	146	0.00
30		Methacrylonitrile	0.140	0.125	10.7	141	0.00
31		Tetrahydrofuran	0.133	0.098	26.3#	116	0.00
32	c	Chloroform	0.821	0.904	-10.1	187	0.00
33		1,1,1-Trichloroethane	0.641	0.776	-21.1	198	0.00
34		1,4-Difluorobenzene	1.000	1.000	0.0	171	0.00
35	s	surr4,Dibrflmethane	0.313	0.310	1.0	166	0.00
36		Carbontetrachloride	0.363	0.413	-13.8	195	0.00
37		1,1-Dichloropropene	0.150	0.157	-4.7	169	0.00
		Benzene	1.207	1.197	0.8	165	0.00
39		1,2-Dichloroethane	0.412	0.451	-9.5	189	0.00
40		Iso-Butyl Alcohol	0.012	0.008	33.3#	112	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA6\DATA\020502\Q7386.D Vial: 27
Acq On : 5 Feb 2002 11:51 am Operator: BALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		n-Heptane	0.556	0.563	-1.3	156	0.00
42		Trichloroethene	0.313	0.297	5.1	159	0.00
43	c	1,2-Diclpropane	0.371	0.351	5.4	157	0.00
44		Dibromomethane	0.194	0.173	10.8	149	0.00
45		1,4-Dioxane	0.003	0.002	33.3#	152	0.00
46		Methyl Methacrylate	0.128	0.121	5.5	156	0.00
47		Bromodichloromethane	0.387	0.400	-3.4	183	0.00
48		2-Nitropropane	0.150	0.142	5.3	158	-0.02
49		2-Chloroethylvinyl Ether	0.179	0.161	10.1	147	0.00
50		cis-1,3-Dichloropropene	0.438	0.472	-7.8	177	0.00
51		4-Methyl-2-pentanone	0.260	0.208	20.0	129	0.00
[illegible]	s	SURR3,Toluene-d8	0.938	1.057	-12.7	180	0.00
	c	Toluene	1.221	1.267	-3.8	169	0.00
54		trans-1,3-Dichloropropene	0.372	0.399	-7.3	173	0.00
55		Ethyl Methacrylate	0.252	0.234	7.1	149	0.00
56		1,1,2-Trichloroethane	0.257	0.238	7.4	152	0.00
57	s	SURR2,BFB	0.413	0.462	-11.9	181	0.00
58		d5-Chlorobenzene	1.000	1.000	0.0	174	0.00
59		Tetrachloroethene	0.328	0.295	10.1	156	0.00
60		2-Hexanone	0.215	0.167	22.3	123	0.00
61		1,3-Dichloropropane	0.491	0.494	-0.6	164	0.00
62		Dibromochloromethane	0.343	0.316	7.9	153	0.00
63		1,2-Dibromoethane	0.308	0.278	9.7	152	0.00
64	p	Chlorobenzene	0.995	0.966	2.9	163	0.00
65		1,1,1,2-Tetrachloroethane	0.326	0.318	2.5	161	0.00
66	c	Ethylbenzene	0.499	0.521	-4.4	164	0.00
67		(m+p)Xylene	0.594	0.640	-7.7	158	0.00
68		o-Xylene	0.589	0.628	-6.6	164	0.00
69		Styrene	0.981	1.006	-2.5	157	0.00
70	p	Bromoform	0.232	0.181	22.0	126	0.00
71		Isopropylbenzene	1.434	1.643	-14.6	171	0.00
72		Cyclohexanone	0.000	0.000	0.0	0#	0.00
73		trans-1,4-Dichloro-2-Butene	0.143	0.117	18.2	129	0.00
74		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	144	0.00
75	p	1,1,2,2-Tetrachloroethane	0.716	0.632	11.7	128	0.00
		Bromobenzene	0.723	0.762	-5.4	146	0.00
[illegible]		1,2,3-Trichloropropane	0.168	0.163	3.0	143	0.00
78		n-Propylbenzene	3.558	4.257	-19.6	160	0.00
79		2-Chlorotoluene	2.306	2.837	-23.0	169	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA6\DATA\020502\Q7386.D Vial: 27
Acq On : 5 Feb 2002 11:51 am Operator: BALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	4-Chlorotoluene	2.112	2.629	-24.5	170	0.00
81	1,3,5-Trimethylbenzene	2.204	2.749	-24.7	164	0.00
82	tert-Butylbenzene	1.857	2.229	-20.0	160	0.00
83	1,2,4-Trimethylbenzene	2.223	2.772	-24.7	160	0.00
84	sec-Butylbenzene	3.003	3.682	-22.6	159	0.00
85	p-Isopropyltoluene	2.440	2.899	-18.8	157	0.00
86	1,3-Diclbenzene	1.341	1.378	-2.8	141	0.00
87	1,4-Diclbenzene	1.526	1.495	2.0	140	0.00
88	n-Butylbenzene	2.578	3.020	-17.1	152	0.00
89	1,2-Diclbenzene	1.356	1.369	-1.0	138	0.00
90	1,2-Dibromo-3-chloropropane	0.115	0.105	8.7	140	0.00
	Nitrobenzene	0.000	0.000	0.0	125	0.00
	1,2,4-Tcbenzene	0.999	0.940	5.9	130	0.00
93	Hexachlorobt	0.584	0.644	-10.3	156	0.00
94	Naphthalen	1.845	1.670	9.5	127	0.00
95	1,2,3-Tclbenzene	0.975	0.833	14.6	118	0.00

359

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020502\Q7386.D Vial: 27
Acq On : 5 Feb 2002 11:51 am Operator: BALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 5 12:20 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.56	168	1062574	50.00	ug/L	0.00
34) 1,4-Difluorobenzene	12.92	114	1662357	50.00	ug/L	0.00
58) d5-Chlorobenzene	18.20	117	1416944	50.00	ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.53	152	704942	50.00	ug/L	0.00
System Monitoring Compounds						
35) surr4,Dibrflmethane	11.60	113	515153	49.33	ug/L	0.00
Spiked Amount 50.000			Recovery = 98.66%			
52) SURR3,Toluene-d8	15.55	98	1757006	53.70	ug/L	0.00
Spiked Amount 50.000			Recovery = 107.40%			
57) SURR2,BFB	20.34	95	767309	55.88	ug/L	0.00
Spiked Amount 50.000			Recovery = 111.76%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.89	85	702699	50.98	ug/L	97
3) Chloromethane	4.33	50	808605	41.83	ug/L	99
4) Vinyl Chloride	4.59	62	485178	44.10	ug/L	98
5) Bromomethane	5.39	94	390594	40.62	ug/L	98
6) Chloroethane	5.62	64	408888	45.74	ug/L	100
7) Trichlorofluoromethane	6.17	101	916447	59.99	ug/L	98
8) Diethyl Ether	6.78	59	389852	48.55	ug/L	91
9) Acrolein	7.13	56	205262	144.34	ug/L	88
10) 1,1-Diclethene	7.32	96	452283	49.33	ug/L	93
11) Freon 113	7.25	101	449217	47.60	ug/L	99
12) Acetone	7.45	43	135630	46.82	ug/L	95
13) Iodomethane	7.69	142	738046	48.42	ug/L	94
14) Carbon Disulfide	7.83	76	1662535	48.43	ug/L #	97
16) Allyl Chloride	8.06	76	255001	50.86	ug/L	80
17) Methylene Chloride	8.33	84	547820	51.79	ug/L	92
18) TBA	8.49	59	609975	875.82	ug/L	88
19) Acrylonitrile	8.82	53	760434	196.41	ug/L	98
20) Methyl-t-Butyl Ether	8.78	73	1099875	56.01	ug/L #	91
21) trans-1,2-Dichloroethene	8.84	96	511791	50.80	ug/L	96
22) 1,1-Diclethane	9.66	63	1014958	52.53	ug/L	98
23) Vinyl Acetate	9.68	43	732242	40.69	ug/L	97
24) 2-Chloro-1,3-Butadiene	9.81	53	961428	57.49	ug/L	95
25) 2,2-Dichloropropane	10.72	77	832885	64.81	ug/L	95
26) cis-1,2-Dichloroethene	10.74	96	565464	50.17	ug/L	92
27) 2-Butanone	10.74	43	176443	39.28	ug/L	94
28) Propionitrile	10.91	54	272819	187.53	ug/L	95
29) Bromochloromethane	11.20	128	239142	44.76	ug/L	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020502\Q7386.D Vial: 27
Acq On : 5 Feb 2002 11:51 am Operator: BALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 5 12:20 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
30)	Methacrylonitrile	11.16	67	133230	44.74 ug/L		81
31)	Tetrahydrofuran	11.27	42	103716	36.58 ug/L		90
32)	Chloroform	11.31	83	960148	55.03 ug/L		97
33)	1,1,1-Trichloroethane	11.63	97	824970	60.52 ug/L		99
36)	Carbontetrachloride	11.92	117	686438	56.82 ug/L		97
37)	1,1-Dichloropropene	11.91	110	261590	52.57 ug/L		99
38)	Benzene	12.30	78	1989280	49.57 ug/L		98
39)	1,2-Dichloroethane	12.36	62	749952	54.79 ug/L	#	89
40)	Iso-Butyl Alcohol	12.07	43	261028	680.52 ug/L		95
41)	n-Heptane	12.59	43	936449	50.66 ug/L		99
42)	Trichloroethene	13.43	130	493870	47.41 ug/L		92
43)	1,2-Diclpropane	13.85	63	584287	47.31 ug/L		99
44)	Dibromomethane	14.10	93	287709	44.50 ug/L		91
45)	1,4-Dioxane	14.07	88	77805	881.10 ug/L		95
46)	Methyl Methacrylate	13.91	69	201520	44.57 ug/L		97
47)	Bromodichloromethane	14.34	83	665525	51.79 ug/L		98
48)	2-Nitropropane	14.74	43	472802	94.96 ug/L	#	57
49)	2-Chloroethylvinyl Ether	14.76	63	268189	45.05 ug/L		99
50)	cis-1,3-Dichloropropene	15.08	75	784962	53.96 ug/L		98
51)	4-Methyl-2-pentanone	15.28	43	345035	39.84 ug/L		96
53)	Toluene	15.68	91	2106794	51.91 ug/L		99
54)	trans-1,3-Dichloropropene	16.07	75	663012	53.55 ug/L		98
55)	Ethyl Methacrylate	16.09	69	388178	46.25 ug/L		87
56)	1,1,2-Trichloroethane	16.42	97	395796	46.31 ug/L		98
59)	Tetrachloroethene	16.66	164	418442	45.01 ug/L		96
60)	2-Hexanone	16.76	43	237060	38.82 ug/L		95
61)	1,3-Dichloropropane	16.73	76	700059	50.35 ug/L		97
62)	Dibromochloromethane	17.18	129	447276	46.06 ug/L		99
63)	1,2-Dibromoethane	17.41	107	393857	45.16 ug/L		98
64)	Chlorobenzene	18.26	112	1368205	48.52 ug/L		94
65)	1,1,1,2-Tetrachloroethane	18.37	131	451011	48.81 ug/L		96
66)	Ethylbenzene	18.37	106	737689	52.17 ug/L		91
67)	(m+p)Xylene	18.57	106	1813383	107.76 ug/L		88
68)	o-Xylene	19.33	106	889847	53.30 ug/L		92
69)	Styrene	19.36	104	1425894	51.27 ug/L		99
70)	Bromoform	19.83	173	257053	39.08 ug/L		98
71)	Isopropylbenzene	19.97	105	2327502	57.28 ug/L		97
73)	trans-1,4-Dichloro-2-Buten	20.68	53	165326	40.90 ug/L		90
75)	1,1,2,2-Tetrachloroethane	20.60	83	445616	44.14 ug/L		99
76)	Bromobenzene	20.67	156	537299	52.68 ug/L		88
77)	1,2,3-Trichloropropane	20.70	110	114813	48.55 ug/L		90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020502\Q7386.D Vial: 27
Acq On : 5 Feb 2002 11:51 am Operator: BALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 5 12:20 2002 Quant Results File: EXP0124.RES

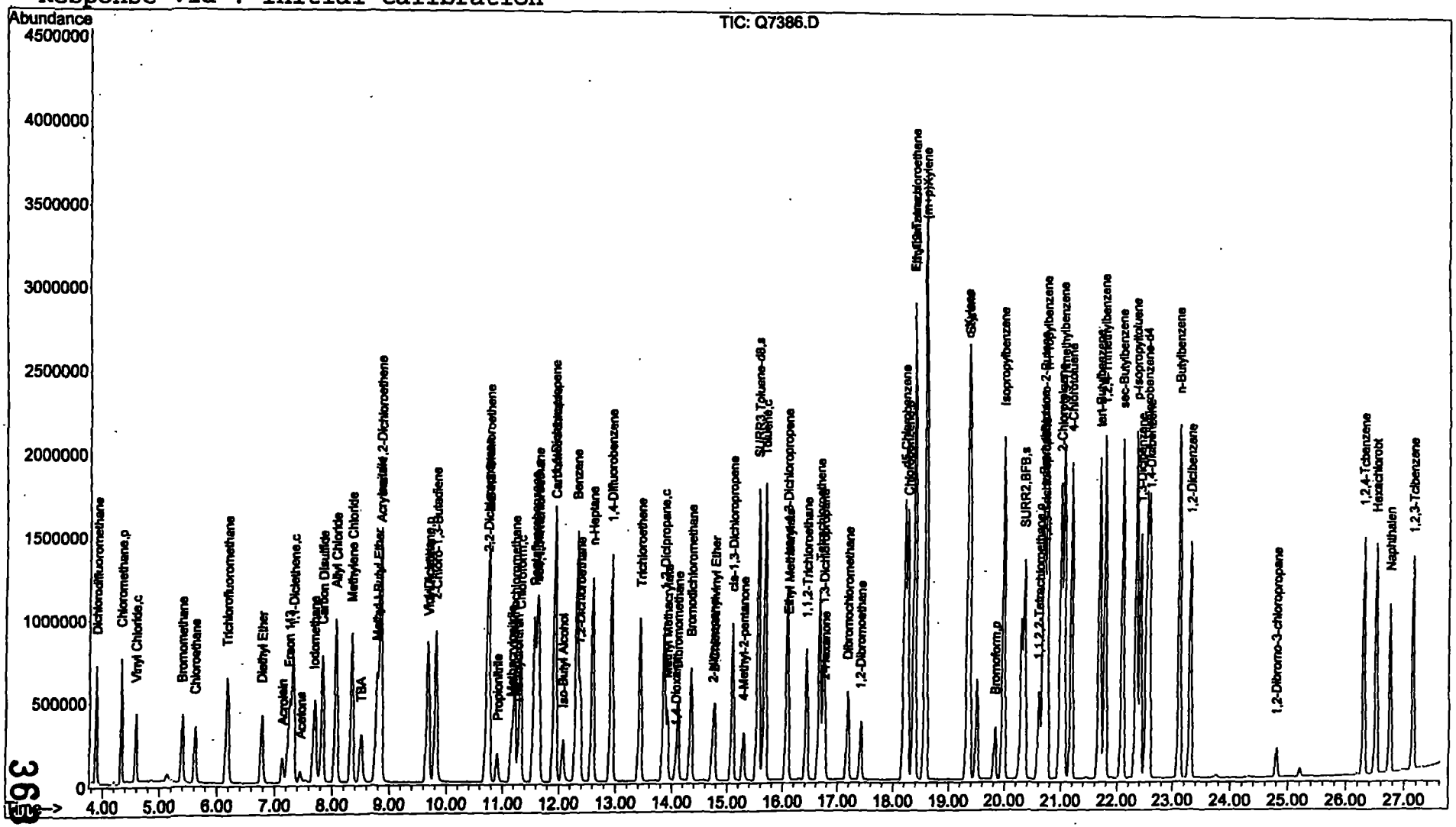
Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
78) n-Propylbenzene	20.74	91	3000988	59.82 ug/L	98
79) 2-Chlorotoluene	20.99	91	2000221	61.53 ug/L	95
80) 4-Chlorotoluene	21.18	91	1853192	62.23 ug/L	94
81) 1,3,5-Trimethylbenzene	21.04	105	1938090	62.37 ug/L	96
82) tert-Butylbenzene	21.67	119	1571499	60.04 ug/L	97
83) 1,2,4-Trimethylbenzene	21.77	105	1953939	62.33 ug/L	96
84) sec-Butylbenzene	22.08	105	2595629	61.31 ug/L	99
85) p-Isopropyltoluene	22.33	119	2043812	59.41 ug/L	98
86) 1,3-Diclbenzene	22.41	146	971168	51.37 ug/L	97
87) 1,4-Diclbenzene	22.57	146	1053805	48.98 ug/L	98
88) n-Butylbenzene	23.11	91	2128805	58.57 ug/L	99
89) 1,2-Diclbenzene	23.31	146	965301	50.50 ug/L	98
90) 1,2-Dibromo-3-chloropropan	24.80	75	73766	45.55 ug/L	85
92) 1,2,4-Tcbenzene	26.30	180	662399	47.04 ug/L	98
93) Hexachlorobt	26.51	225	454048	55.18 ug/L	99
94) Naphthalen	26.75	128	1177154	45.26 ug/L	99
95) 1,2,3-Tclbenzene	27.15	180	587374	42.73 ug/L	95

(#) = qualifier out of range (m) = manual integration

Data File : J:\ACQUDATA\MSVOA6\DATA\020502\Q7386.D Vial: 27
Acq On : 5 Feb 2002 11:51 am Operator: BALLGEIER
Sample : CCV Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 5 12:20 2002 Quant Results File: EXP0124.RES

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration



Response Factor Report 5971 - In

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:55:04 2002
Response via : Initial Calibration

Calibration Files

	=	5	=B9559.D	20	=B9553.D
50	=B9554.D	100	=B9555.D	150	=B9556.D

		Compound	~~5~~ 5	~~20~~ 20	~~50~~ 50	~~100~~ 100	~~150~~ 150	200	Avg	%RSD	
1)		Pentafluorobenzene	ISTD								
2)		Dichlorodifluoromet	0.619	0.639	0.726	0.728	0.610	0.629	0.659	8.20	
3)	p	Chloromethane	1.163	1.149	1.174	1.129	0.936	0.970	1.087	9.68	
4)	c	Vinyl Chloride	0.673	0.674	0.756	0.737	0.643	0.663	0.691	6.48	
5)		Bromomethane	0.277	0.364	0.396	0.391	0.381	0.389	0.366	12.34	
6)		Chloroethane	0.441	0.432	0.487	0.439	0.418	0.429	0.441	5.43	
7)		Trichlorofluorometh	0.639	0.742	0.822	0.775	0.722	0.764	0.744	8.30	
8)		Diethyl Ether	0.349	0.380	0.386	0.338	0.329	0.338	0.353	6.76	
9)		Acrolein	0.045	0.043	0.047	0.043	0.040	0.041	0.043	5.99	
10)		FREON 113	0.115	0.133	0.153	0.134	0.130	0.134	0.133	9.10	
11)	c	1,1-Diclethene	0.344	0.371	0.441	0.410	0.418	0.444	0.405	9.79	
12)		Acetone		0.137	0.138	0.124	0.113	0.112	0.125	9.95	
13)		Iodomethane	0.120	0.126	0.186	0.206	0.186	0.205	0.172	22.55	LR
14)		Carbon Disulfide	1.691	1.634	1.749	1.688	1.519	1.452	1.622	7.02	
15)		Acetonitrile	0.012	0.011	0.012	0.013	0.011	0.012	0.012	5.32	
		Allyl Chloride	0.232	0.249	0.270	0.249	0.244	0.257	0.250	5.06	
[illegible]		Methylene Chloride	0.561	0.553	0.568	0.536	0.515	0.528	0.543	3.78	
18)		TBA	0.048	0.048	0.048	0.046	0.043	0.043	0.046	5.54	
19)		Acrylonitrile	0.147	0.164	0.165	0.155	0.141	0.144	0.153	6.70	
20)		Methyl-t-Butyl Ethe	1.113	1.211	1.234	1.101	1.062	1.104	1.138	6.01	
21)		trans-1,2-Dichloroe	0.407	0.404	0.458	0.408	0.423	0.452	0.425	5.61	
22)	p	1,1-Diclethane	0.742	0.822	0.886	0.823	0.799	0.851	0.820	5.96	
23)		Vinyl Acetate	0.933	1.033	1.084	0.964	0.885	0.905	0.967	7.99	
24)		2-Chloro-1,3-butadi	0.915	0.929	0.962	0.863	0.770	0.729	0.861	10.82	
25)		2,2-Dichloropropane	0.562	0.622	0.706	0.626	0.607	0.654	0.630	7.63	
26)		2-Butanone	0.257	0.282	0.274	0.256	0.234	0.236	0.256	7.64	
27)		Ethyl Acetate							0.000	-1.00	
28)		cis-1,2-Dichloroeth	0.501	0.505	0.564	0.511	0.521	0.549	0.525	4.90	
29)		Propionitrile	0.071	0.072	0.072	0.068	0.064	0.064	0.068	5.59	
30)		Methacrylonitrile	0.157	0.163	0.167	0.155	0.152	0.155	0.158	3.69	
31)		Bromochloromethane	0.272	0.262	0.275	0.257	0.254	0.261	0.264	3.09	
32)	c	Chloroform	0.804	0.774	0.822	0.728	0.720	0.771	0.770	5.23	
33)		Tetrahydrofuran	0.227	0.193	0.175	0.159	0.146	0.154	0.176	17.23	LR
34)		1,1,1-Trichloroetha	0.593	0.680	0.767	0.672	0.656	0.705	0.679	8.43	
35)	I	1,4 - Difluorobenzene	ISTD								
36)	s	surr4,Dibrflmethane		0.243	0.244	0.228	0.233	0.250	0.240	3.66	
37)		Carbontetrachloride	0.240	0.271	0.315	0.281	0.296	0.314	0.286	9.94	
38)		1,1-Dichloropropene	0.396	0.412	0.466	0.426	0.426	0.436	0.427	5.55	
39)		Iso-Butyl Alcohol	0.019	0.023	0.025	0.024	0.022	0.022	0.023	8.53	
[illegible]		Benzene	1.284	1.304	1.347	1.240	1.215	1.224	1.269	4.06	
[illegible]		1,2-Dichloroethane	0.285	0.302	0.296	0.268	0.266	0.270	0.281	5.51	
42)		N-Heptane	0.383	0.463	0.500	0.481	0.438	0.442	0.451	9.04	

(#) = Out of Range ### Number of calibration levels exceeded format ##

Response Factor Report 5971 - In

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:55:04 2002
Response via : Initial Calibration

Calibration Files
= 5 =B9559.D 20 =B9553.D
50 =B9554.D 100 =B9555.D 150 =B9556.D

		Compound	5	20	50	100	150	Avg	%RSD
43)		Trichloroethene	0.315	0.328	0.345	0.323	0.326	0.329	0.328	2.98
44)	c	1,2-Diclpropane	0.365	0.363	0.380	0.345	0.343	0.352	0.358	3.86
45)		Methyl Methacrylate	0.202	0.201	0.198	0.195	0.189	0.188	0.195	2.96
46)		1,4-Dioxane	0.004	0.003	0.003	0.003	0.003	0.003	0.003	8.97
47)		Dibromomethane	0.170	0.168	0.167	0.153	0.158	0.162	0.163	4.11
48)		Bromodichloromethan	0.346	0.348	0.361	0.337	0.342	0.357	0.349	2.59
49)		2-Nitropropane	0.082	0.082	0.086	0.081	0.081	0.081	0.082	2.15
50)		2-Chloroethylvinyl	0.135	0.118	0.119	0.120	0.117	0.117	0.121	5.83
51)		cis-1,3-Dichloropro	0.513	0.513	0.531	0.508	0.501	0.511	0.513	1.90
52)	I	d5 - Chlorobenzene	----------ISTD----------							
53)		4-Methyl-2-Pentanon	0.497	0.481	0.500	0.456	0.433	0.427	0.466	6.84
54)	c	Toluene	1.563	1.472	1.566	1.458	1.480	1.474	1.502	3.26
55)		trans-1,3-Dichlorop	0.603	0.602	0.605	0.566	0.562	0.564	0.584	3.73
56)		Ethyl Methacrylate	0.467	0.450	0.458	0.430	0.423	0.428	0.443	4.14
57)		1,1,2-Trichloroetha	0.340	0.318	0.324	0.289	0.294	0.294	0.310	6.59
	s	surr3,Toluene-d8		1.214	1.222	1.114	1.070	1.101	1.144	6.04
59)	s	surr2,bfb		0.480	0.479	0.476	0.418	0.432	0.457	6.43
60)		Tetrachloroethene	0.361	0.335	0.379	0.355	0.366	0.365	0.360	4.11
61)		2-Hexanone	0.382	0.344	0.349	0.321	0.308	0.297	0.334	9.36
62)		1,3-Dichloropropane	0.742	0.695	0.704	0.643	0.642	0.647	0.679	6.07
63)		Dibromochloromethan	0.394	0.385	0.386	0.376	0.381	0.391	0.385	1.71
64)		1,2-Dibromoethane	0.438	0.390	0.392	0.375	0.372	0.369	0.389	6.57
65)	p	Chlorobenzene	1.091	0.989	1.011	0.960	0.959	0.954	0.994	5.27
66)		1,1,1,2-Tetrachloro	0.379	0.349	0.369	0.348	0.350	0.360	0.359	3.48
67)	c	Ethylbenzene	1.646	1.593	1.693	1.600	1.555	1.556	1.607	3.35
68)		(m+p)Xylene	0.618	0.579	0.613	0.584	0.573	0.573	0.590	3.44
69)		o-Xylene	0.639	0.583	0.607	0.573	0.558	0.565	0.587	5.20
70)		Styrene	1.117	1.008	1.025	0.988	0.959	0.966	1.010	5.74
71)	p	Bromoform	0.247	0.227	0.237	0.248	0.233	0.240	0.239	3.46
72)		Isopropylbenzene	1.562	1.525	1.598	1.548	1.447	1.471	1.525	3.72
73)		Cyclohexanone							0.000	-1.00
74)	I	d4 - Dichlorobenzene	----------ISTD----------							
75)	p	1,1,2,2-Tetrachloro	1.260	1.197	1.142	1.083	1.094	1.062	1.140	6.70
76)		Trans-1,4-Dichloro-	0.329	0.336	0.320	0.300	0.303	0.299	0.314	5.10
77)		1,2,3-Trichloroprop	0.358	0.329	0.322	0.302	0.306	0.302	0.320	6.81
78)		n-Propylbenzene	4.425	4.386	4.540	4.367	4.354	4.215	4.381	2.41
79)		Bromobenzene	1.057	0.897	0.868	0.887	0.883	0.877	0.912	7.91
80)		1,3,5-Trimethylbenz	2.849	2.681	2.759	2.663	2.663	2.607	2.704	3.20
81)		2-Chlorotoluene	2.818	2.641	2.670	2.529	2.549	2.480	2.615	4.68
[illegible])		4-Chlorotoluene	3.101	2.976	2.884	2.831	2.796	2.750	2.890	4.49
[illegible])		tert-Butylbenzene	2.530	2.416	2.581	2.423	2.410	2.402	2.460	3.08
84)		1,2,4-Trimethylbenz	2.885	2.696	2.730	2.641	2.619	2.513	2.681	4.65

(#) = Out of Range ### Number of calibration levels exceeded format ##

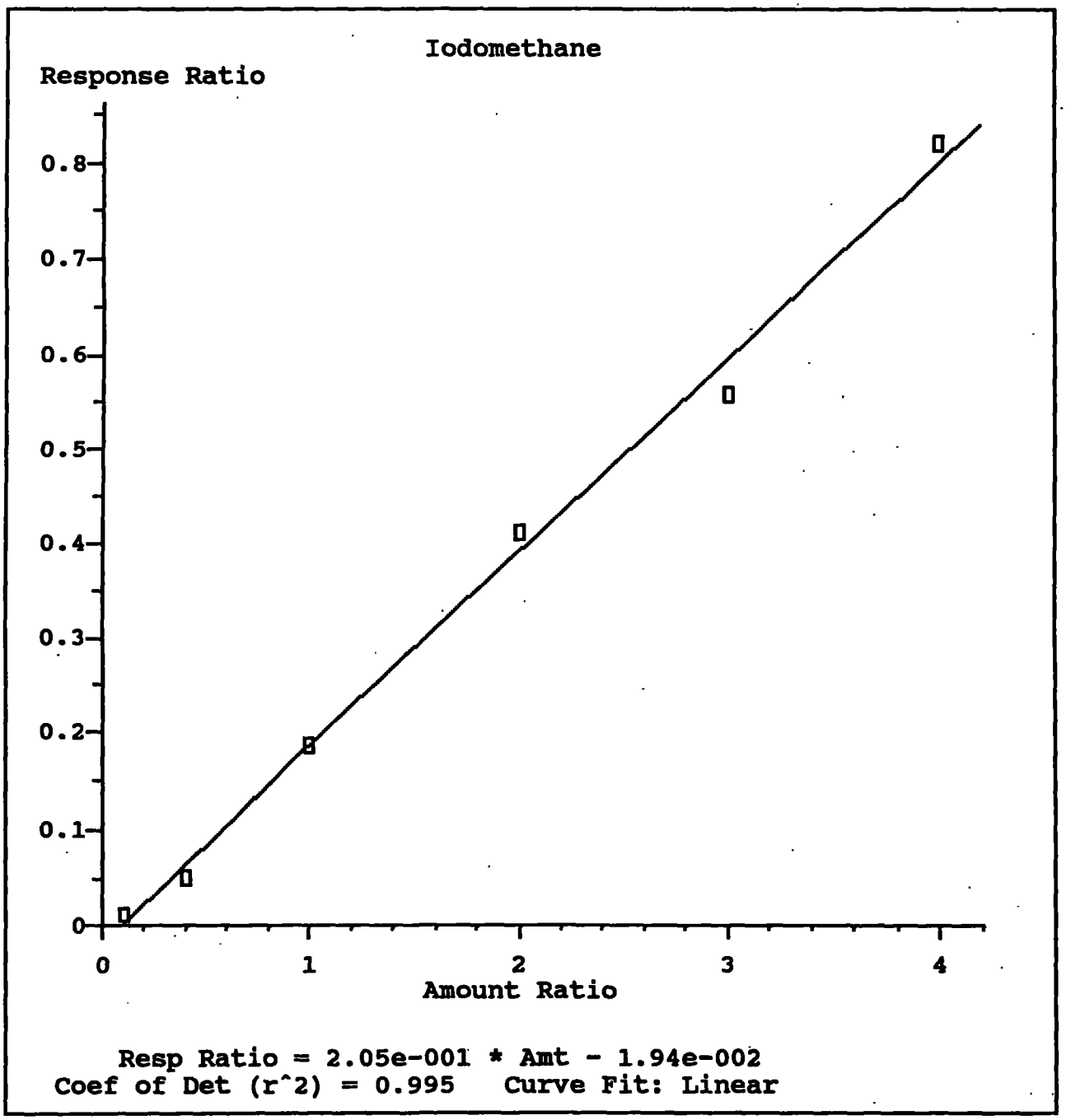
Response Factor Report 5971 - In

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:55:04 2002
Response via : Initial Calibration

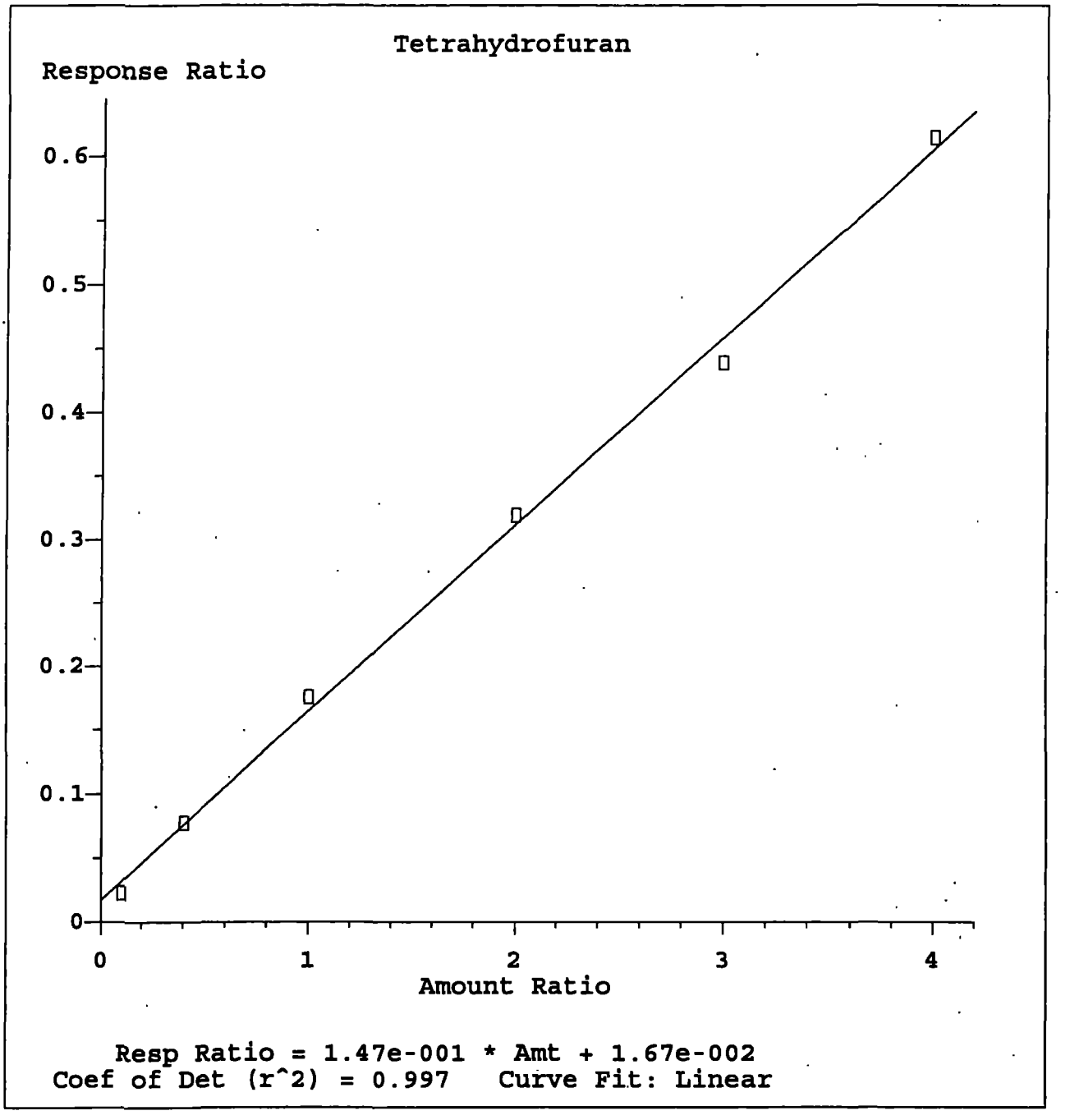
Calibration Files
= 5 =B9559.D 20 =B9553.D
50 =B9554.D 100 =B9555.D 150 =B9556.D

	Compound	5	20	50	100	150	Avg	%RSD
85)	sec-Butylbenzene	3.919	3.893	4.162	3.891	3.841	3.795	3.917	3.27
86)	p-Isopropyltoluene	2.530	2.416	2.581	2.423	2.974	2.937	2.644	9.46
87)	1,3-Dclbenz	1.608	1.357	1.433	1.392	1.356	1.342	1.415	7.08
88)	1,4-Dclbenz	1.765	1.497	1.528	1.471	1.443	1.449	1.525	7.96
89)	n-Butylbenzene	2.791	2.880	3.052	2.902	2.832	2.724	2.863	3.92
90)	1,2-Dclbenz	1.623	1.365	1.435	1.357	1.342	1.323	1.408	7.97
91)	1,2-Dibromo-3-chlor	0.180	0.170	0.171	0.170	0.171	0.168	0.172	2.41
92)	Nitrobenzene	0.076	0.062	0.060	0.072	0.082	0.083	0.073	13.72
93)	1,2,4-Tcbenzene	0.976	0.761	0.848	0.835	0.818	0.793	0.839	8.84
94)	Hexachlorobt	0.509	0.467	0.526	0.483	0.477	0.473	0.489	4.77
95)	Naphthalen	2.574	1.676	1.732	1.660	1.652	1.622	1.820	20.41
96)	1,2,3-Tclbenzene	0.870	0.730	0.744	0.708	0.704	0.695	0.742	8.80
97)	TOTAL XYLENE							0.000	-1.00

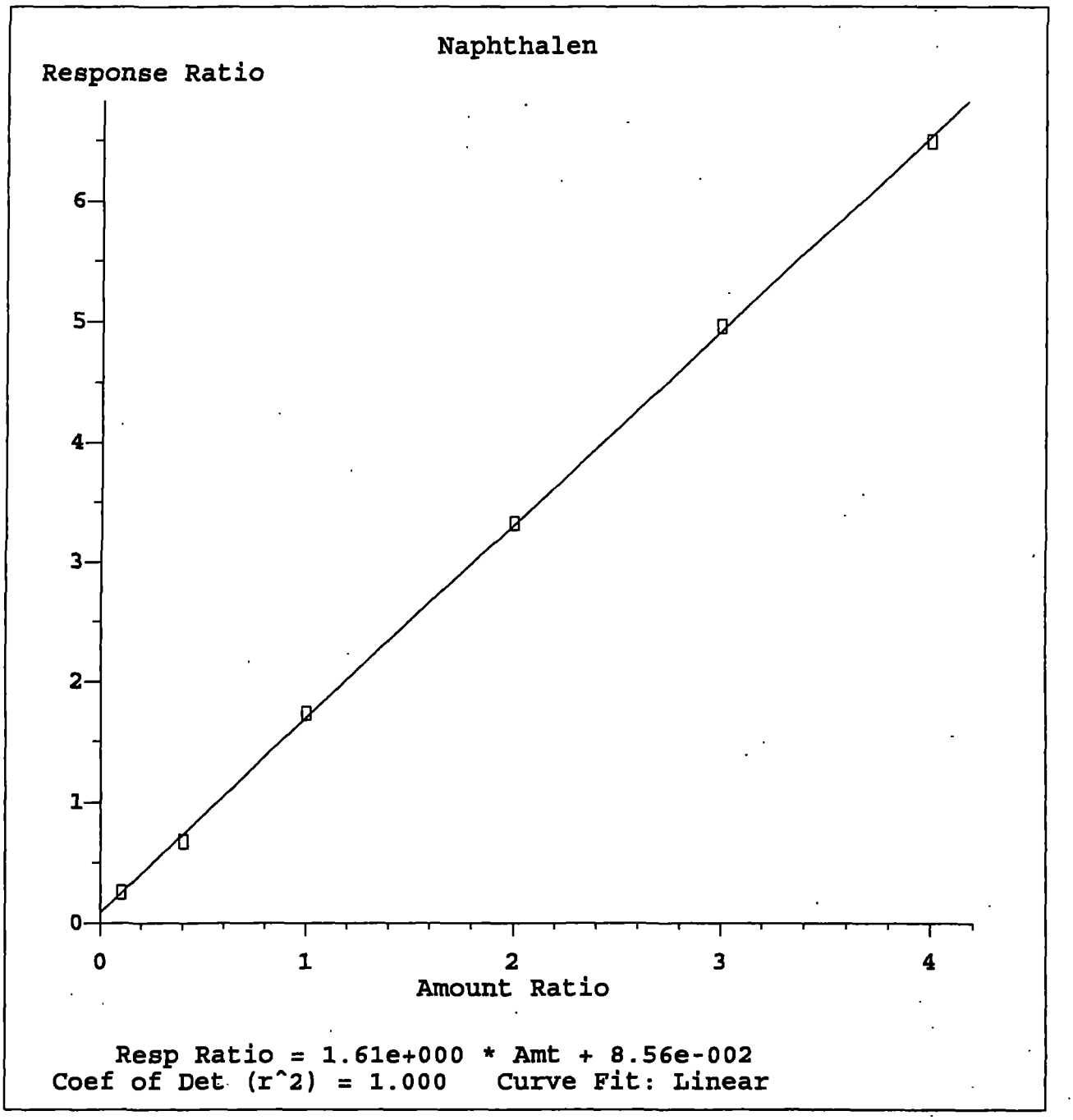
(#) = Out of Range ### Number of calibration levels exceeded format ###



Method Name: J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Calibration Table Last Updated: Mon Feb 04 08:55:04 2002



Method Name: J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Calibration Table Last Updated: Fri Feb 01 16:45:13 2002



Method Name: J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Calibration Table Last Updated: Fri Feb 01 16:46:57 2002

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9559.D Vial: 13
Acq On : 1 Feb 102 4:09 pm Operator: TTRAVER
Sample : 5 PPB Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 4 8:35 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.40	168	710697	50.00	ug/Kg	-0.01
35) 1,4 - Difluorobenzene	8.58	114	1382240	50.00	ug/Kg	-0.01
52) d5 - Chlorobenzene	13.68	117	1085143	50.00	ug/Kg	0.00
74) d4 - Dichlorobenzene	18.12	152	433141	50.00	ug/Kg	-0.01
System Monitoring Compounds						**%Recovery**
36) surr4,Dibrflmethane	7.28	113	299952	45.27	ug/Kg	90.54%
58) surr3,Toluene-d8	11.09	98	1278754	51.50	ug/Kg	103.01%
59) surr2,bfb	15.89	95	507982	51.22	ug/Kg	102.45%
Target Compounds						**Qvalue**
2) Dichlorodifluoromethane	1.66	85	44025	4.46	ug/Kg	99
3) Chloromethane	1.87	50	82682	5.16	ug/Kg	98
4) Vinyl Chloride	2.00	62	47857	4.67	ug/Kg	99
5) Bromomethane	2.41	94	19667	3.64	ug/Kgm	83
6) Chloroethane	2.55	64	31343	4.89	ug/Kg	94
7) Trichlorofluoromethane	2.90	101	45407	4.03	ug/Kg	95
8) Diethyl Ether	3.35	59	24831	4.65	ug/Kg	94
9) Acrolein	3.50	56	16022	22.98	ug/Kg	95
10) FREON 113	3.69	85	8143	3.79	ug/Kg	69
11) 1,1-Diclethene	3.66	96	24468	3.99	ug/Kg	83
12) Acetone	3.77	43	11730	6.61	ug/Kg	95
13) Iodomethane	3.87	127	8545	3.41	ug/Kg	92
14) Carbon Disulfide	3.96	76	120166	4.67	ug/Kg	99
15) Acetonitrile	4.18	41	16876	50.87	ug/Kg#	78
16) Allyl Chloride	4.23	76	16503	4.44	ug/Kg	91
17) Methylene Chloride	4.42	84	39860	4.98	ug/Kg	94
18) TBA	4.67	59	68810	100.80	ug/Kg	97
19) Acrylonitrile	4.81	53	52337	22.57	ug/Kg	97
20) Methyl-t-Butyl Ether	4.90	73	79112	4.60	ug/Kg#	94
21) trans-1,2-Dichloroethene	4.87	96	28923	4.52	ug/Kg	96
22) 1,1-Diclethane	5.54	63	52704	4.22	ug/Kg	98
23) Vinyl Acetate	5.67	43	66282	4.20	ug/Kg	97
24) 2-Chloro-1,3-butadiene	5.70	53	65052	4.75	ug/Kg	100
25) 2,2-Dichloropropane	6.49	77	39971	4.12	ug/Kg	99
26) 2-Butanone	6.53	43	18246	4.39	ug/Kg	95
28) cis-1,2-Dichloroethene	6.50	96	35592	4.55	ug/Kg	98
29) Propionitrile	6.59	54	25381	25.07	ug/Kg	91
30) Methacrylonitrile	6.85	67	11179	4.80	ug/Kg	86
31) Bromochloromethane	6.86	128	19323	4.98	ug/Kg	89
32) Chloroform	7.03	83	57156	4.98	ug/Kg	97
33) Tetrahydrofuran	6.98	42	16148	5.80	ug/Kg	96
34) 1,1,1-Trichloroethane	7.30	97	42160	4.07	ug/Kg	97
37) Carbontetrachloride	7.59	117	33227	3.85	ug/Kg	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9559.D Vial: 13
Acq On : 1 Feb 102 4:09 pm Operator: TTRAVER
Sample : 5 PPB Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 4 8:35 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	1,1-Dichloropropene	7.59	75	54742	4.42	ug/Kg	97
39)	Iso-Butyl Alcohol	8.43	43	53416	78.63	ug/Kg	97
40)	Benzene	7.91	78	177472	4.91	ug/Kg	100
41)	1,2-Dichloroethane	7.94	62	39440	4.83	ug/Kg	100
42)	N-Heptane	8.43	43	52950	3.89	ug/Kg	96
43)	Trichloroethene	9.01	95	43519	4.57	ug/Kg	88
44)	1,2-Diclpropane	9.37	63	50493	4.95	ug/Kg	98
45)	Methyl Methacrylate	9.63	69	27873	5.05	ug/Kg	93
46)	1,4-Dioxane	9.63	88	9752	112.36	ug/Kg	82
47)	Dibromomethane	9.56	93	23513	5.01	ug/Kg	98
48)	Bromodichloromethane	9.85	83	47893	4.82	ug/Kg	97
49)	2-Nitropropane	10.23	43	22688	9.55	ug/Kg#	85
50)	2-Chloroethylvinyl Ether	10.40	63	18649	5.16	ug/Kg	95
51)	cis-1,3-Dichloropropene	10.63	75	70882	4.87	ug/Kg	99
53)	4-Methyl-2-Pentanone	10.92	43	53887	4.78	ug/Kg	100
54)	Toluene	11.21	91	169602	5.02	ug/Kg	97
55)	trans-1,3-Dichloropropene	11.61	75	65456	5.06	ug/Kg	99
56)	Ethyl Methacrylate	11.82	69	50683	5.14	ug/Kg	99
57)	1,1,2-Trichloroethane	11.92	83	36861	5.41	ug/Kg	90
60)	Tetrachloroethene	12.18	166	39143	4.80	ug/Kg#	84
61)	2-Hexanone	12.40	43	41500	5.25	ug/Kg	96
62)	1,3-Dichloropropane	12.21	76	80467	5.35	ug/Kg	93
63)	Dibromochloromethane	12.62	129	42796	5.04	ug/Kg	85
64)	1,2-Dibromoethane	12.80	107	47510	5.58	ug/Kg	95
65)	Chlorobenzene	13.73	112	118401	5.38	ug/Kg	97
66)	1,1,1,2-Tetrachloroethane	13.89	131	41115	5.15	ug/Kg	97
67)	Ethylbenzene	13.96	91	178661	4.92	ug/Kg	99
68)	(m+p)Xylene	14.17	106	134107	10.15	ug/Kg	98
69)	o-Xylene	14.91	106	69342	5.37	ug/Kg	92
70)	Styrene	14.93	104	121220	5.44	ug/Kg	98
71)	Bromoform	15.26	173	26795	5.17	ug/Kg	98
72)	Isopropylbenzene	15.62	105	169518	4.96	ug/Kg	98
73)	Cyclohexanone	15.74	55	148850	112.98	ug/Kg	96
75)	1,1,2,2-Tetrachloroethane	16.18	83	54593	5.44	ug/Kg#	96
76)	Trans-1,4-Dichloro-2-buten	16.29	53	14258	5.08	ug/Kg	90
77)	1,2,3-Trichloropropane	16.25	110	15522	5.51	ug/Kg	87
78)	n-Propylbenzene	16.41	91	191663	4.80	ug/Kg	100
79)	Bromobenzene	16.16	156	45799	5.79	ug/Kg	85
80)	1,3,5-Trimethylbenzene	16.76	105	123402	5.06	ug/Kg#	53
81)	2-Chlorotoluene	16.55	91	122058	5.19	ug/Kg	93
82)	4-Chlorotoluene	16.75	91	134327	5.18	ug/Kg	99
83)	tert-Butylbenzene	17.37	119	109591	4.94	ug/Kg	96
84)	1,2,4-Trimethylbenzene	17.47	105	124945	5.20	ug/Kg	94
85)	sec-Butylbenzene	17.81	105	169747	4.78	ug/Kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9559.D
Acq On : 1 Feb 102 4:09 pm
Sample : 5 PPB
Misc :
Quant Time: Feb 4 8:35 19102

Vial: 13
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86)	p-Isopropyltoluene	18.10	119	131947	5.94	ug/Kgm	97
87)	1,3-Dclbenz	17.99	146	69638	5.67	ug/Kg	99
88)	1,4-Dclbenz	18.16	146	76441	5.72	ug/Kg	97
89)	n-Butylbenzene	18.90	91	120871	4.62	ug/Kg	97
90)	1,2-Dclbenz	18.89	146	70309	5.71	ug/Kg	93
91)	1,2-Dibromo-3-chloropropan	20.40	157	7786	5.23	ug/Kg	93
92)	Nitrobenzene	20.80	77	3311	5.19	ug/Kg	98
93)	1,2,4-Tcbenzene	22.07	180	42275	5.81	ug/Kg	87
94)	Hexachlorobt	22.45	225	22052	5.05	ug/Kg	94
95)	Naphthalen	22.53	128	111495	7.58	ug/Kg#	95
96)	1,2,3-Tclbenzene	23.03	180	37685	5.84	ug/Kg	98

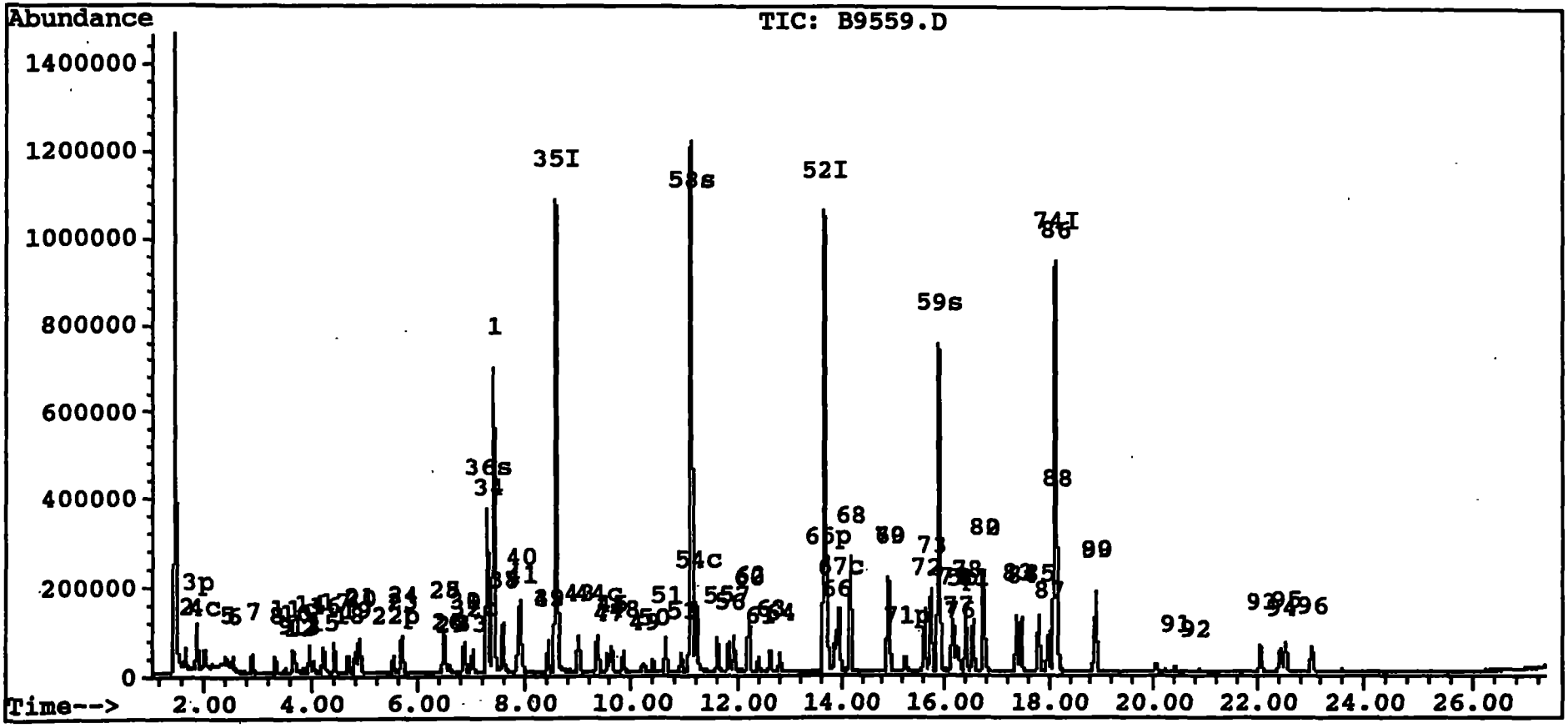
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9559.
Acq On : 1 Feb 102 4:09 pm
Sample : 5 PPB
Misc :
Quant Time: Feb 4 8:35 19102

Vial: 13
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



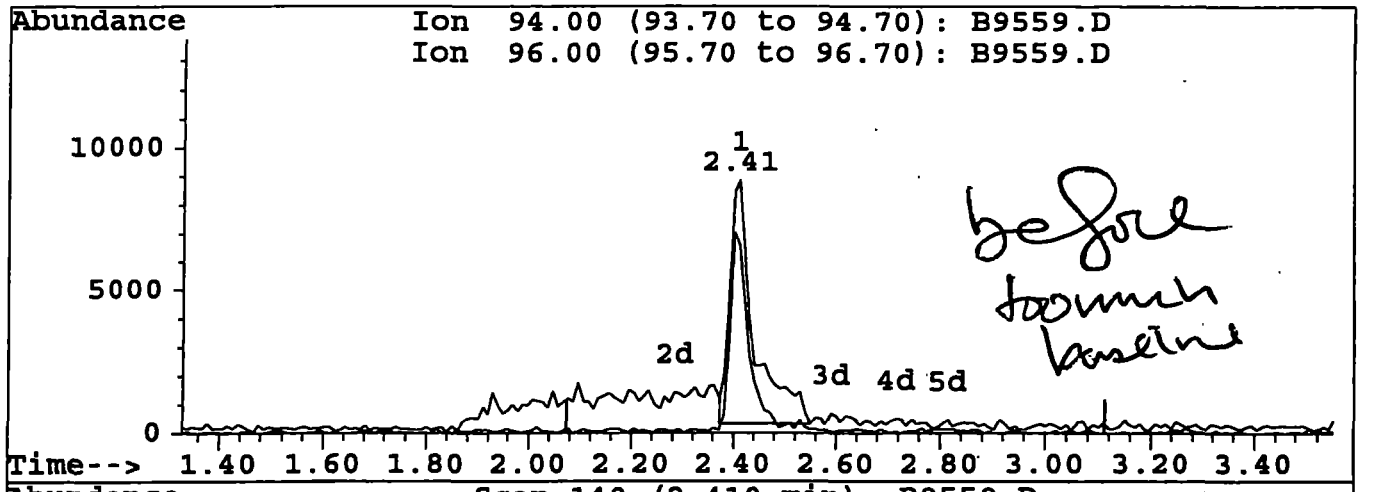
373

Quantitation Report

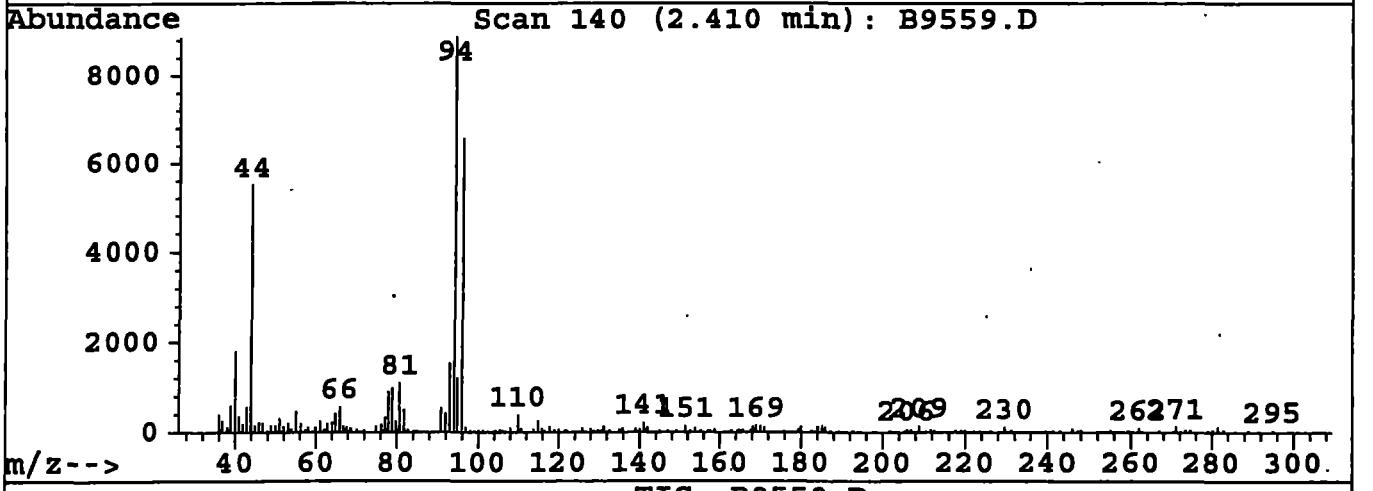
Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9559.D
Acq On : 1 Feb 102 4:09 pm
Sample : 5 PPB
Misc :
Quant Time: Feb 1 16:37 19102

Vial: 13
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 15:30:32 2002
Response via : Multiple Level Calibration



before too much baseline



TIC: B9559.D

(5) Bromomethane
2.41min 5.19ug/Kg
response 27986

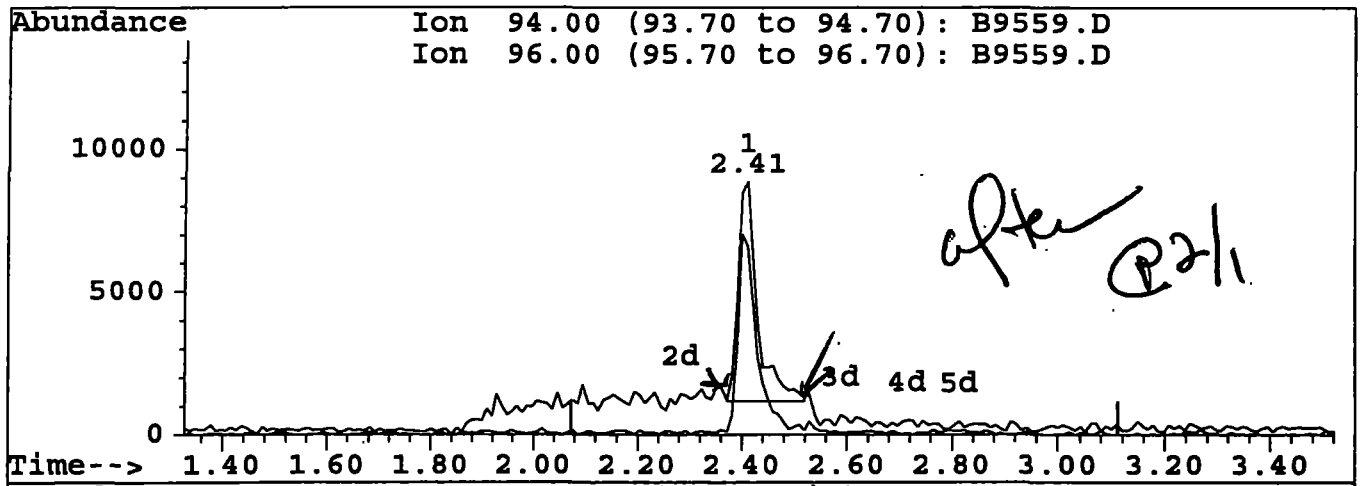
Ion	Exp%	Act%
94.00	100	100
96.00	90.30	74.16
0.00	0.00	0.00
0.00	0.00	0.00

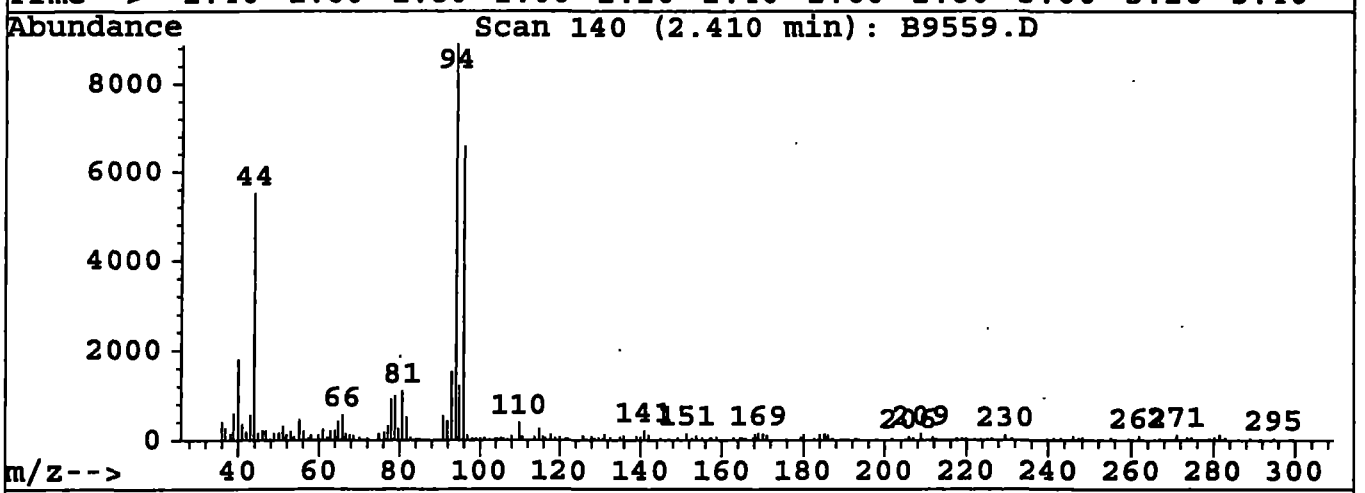
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9559.D
Acq On : 1 Feb 102 4:09 pm
Sample : 5 PPB
Misc :
Quant Time: Feb 1 16:40 19102

Vial: 13
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 15:30:32 2002
Response via : Multiple Level Calibration





TIC: B9559.D

(5) Bromomethane
2.41min 3.64ug/Kg m
response 19667

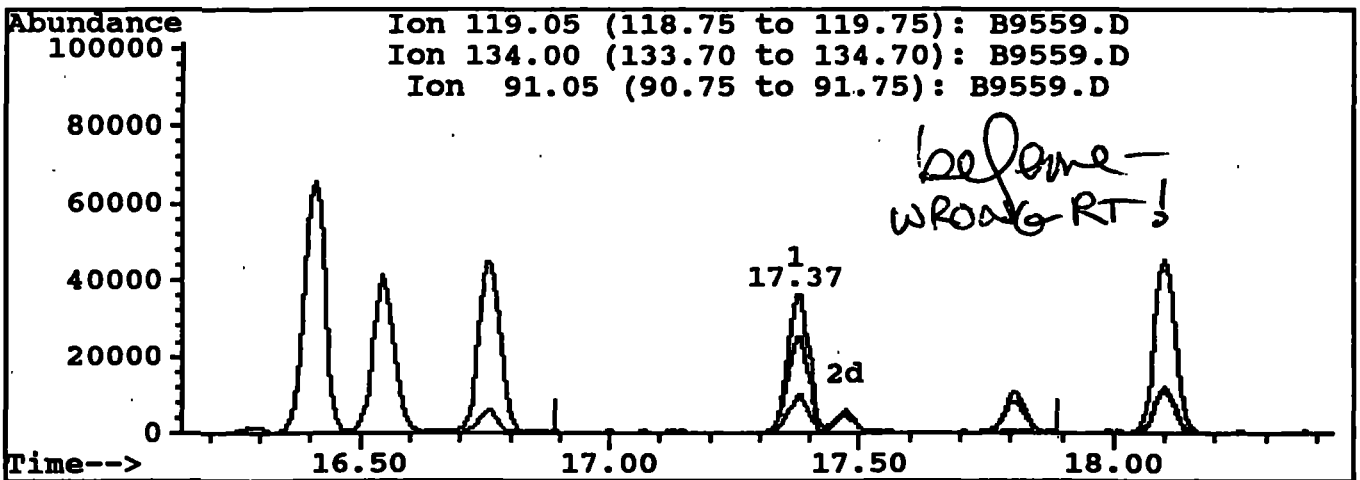
Ion	Exp%	Act%
94.00	100	100
96.00	90.30	74.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

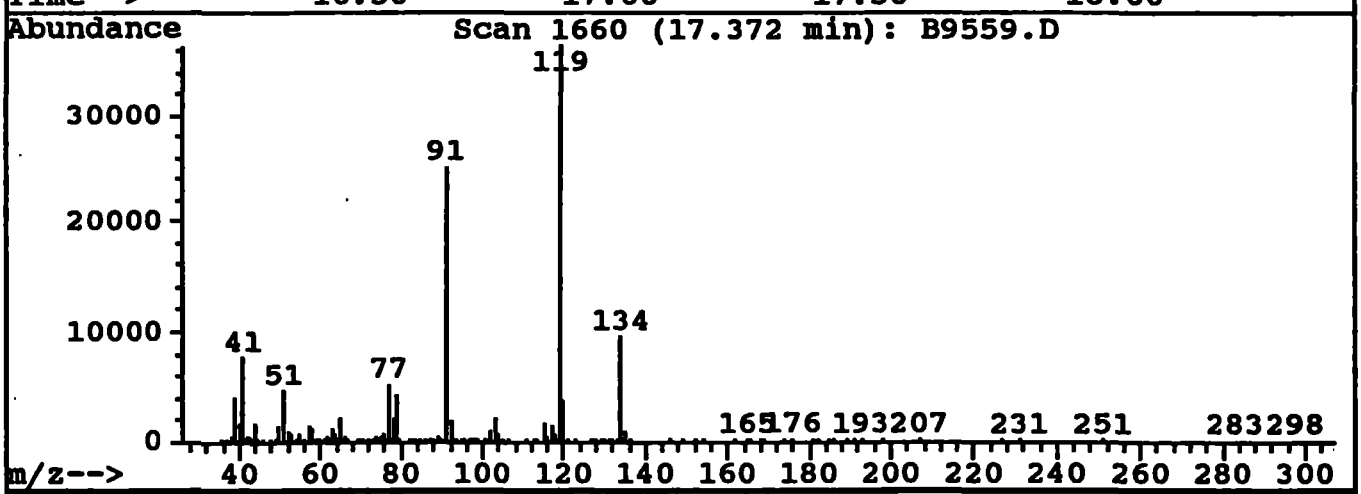
Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9559.D
Acq On : 1 Feb 102 4:09 pm
Sample : 5 PPB
Misc :
Quant Time: Feb 1 16:40 19102

Vial: 13
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



Below — WRONG RT!



TIC: B9559.D

(86) p-Isopropyltoluene
17.37min 4.94ug/Kg
response 109591

Ion	Exp%	Act%
119.05	100	100
134.00	26.30	25.91
91.05	65.80	68.85
0.00	0.00	0.00

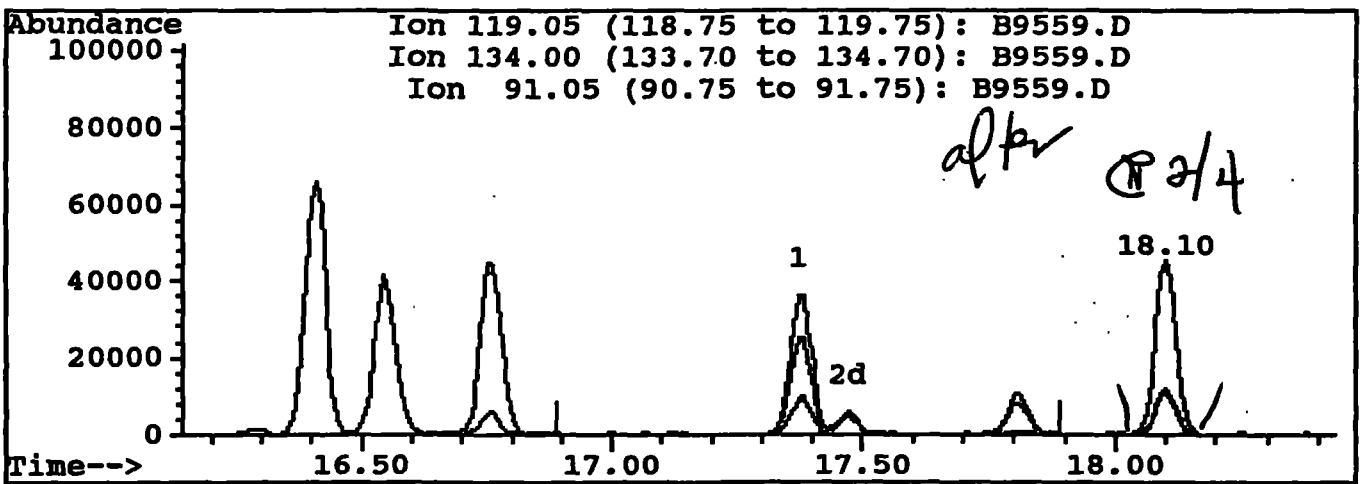
B9559.D SOL0201.M Mon Feb 04 08:35:40 2002

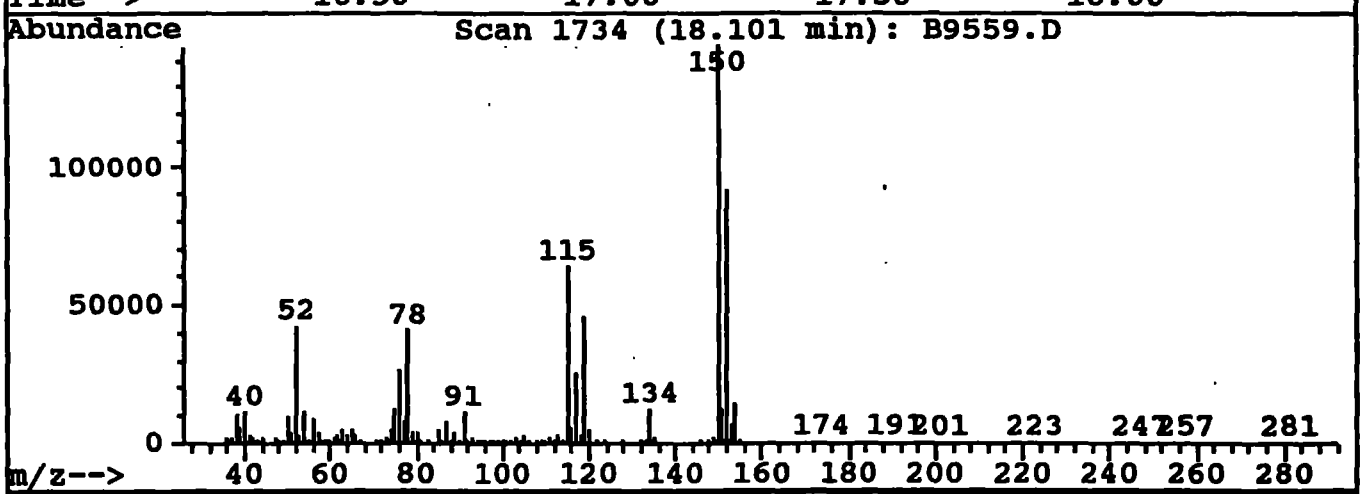
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9559.D
Acq On : 1 Feb 102 4:09 pm
Sample : 5 PPB
Misc :
Quant Time: Feb 4 8:35 19102

Vial: 13
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration





TIC: B9559.D

(86) p-Isopropyltoluene
18.10min 5.94ug/Kg m
response 131947

Ion	Exp%	Act%
119.05	100	100
134.00	26.30	26.15
91.05	65.80	23.89
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9553.D Vial: 7
Acq On : 1 Feb 102 12:18 pm Operator: TTRAVER
Sample : 20 PPB Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 4 8:39 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:37:24 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.41	168	583814	50.00	ug/Kg	0.02
35) 1,4 - Difluorobenzene	8.60	114	1167311	50.00	ug/Kg	0.02
52) d5 - Chlorobenzene	13.69	117	921331	50.00	ug/Kg	0.02
74) d4 - Dichlorobenzene	18.13	152	368843	50.00	ug/Kg	0.03
System Monitoring Compounds						**%Recovery**
36) surr4,Dibrflmethane	7.29	113	425874	51.94	ug/Kg	103.87%
58) surr3,Toluene-d8	11.11	98	1677135	85.35	ug/Kg	170.69%
59) surr2,bfb	15.90	95	663130	85.66	ug/Kg	171.32%
Target Compounds						**Qvalue**
2) Dichlorodifluoromethane	1.67	85	149218	30.02	ug/Kg	98
3) Chloromethane	1.87	50	268295	40.72	ug/Kg	99
4) Vinyl Chloride	2.01	62	157352	27.81	ug/Kg	100
5) Bromomethane	2.40	94	85002	21.54	ug/Kg	98
6) Chloroethane	2.55	64	100905	28.49	ug/Kg	96
7) Trichlorofluoromethane	2.91	101	173170	27.65	ug/Kg	94
8) Diethyl Ether	3.35	59	88811	15.81	ug/Kg	95
9) Acrolein	3.52	56	50621	40.21	ug/Kg	90
10) FREON 113	3.70	85	31042	18.74	ug/Kg	88
11) 1,1-Diclethene	3.66	96	86751	20.03	ug/Kg	95
12) Acetone	3.76	43	31993	12.77	ug/Kg	92
13) Iodomethane	3.88	127	29329	13.87	ug/Kg	87
14) Carbon Disulfide	3.97	76	381554	22.84	ug/Kg	100
15) Acetonitrile	4.19	41	51997	184.82	ug/Kg	91
16) Allyl Chloride	4.25	76	58055	21.59	ug/Kg	99
17) Methylene Chloride	4.43	84	129111	21.88	ug/Kg	96
18) TBA	4.69	59	225867	329.11	ug/Kg	98
19) Acrylonitrile	4.82	53	192071	62.58	ug/Kg	93
20) Methyl-t-Butyl Ether	4.90	73	282736	16.91	ug/Kg	96
21) trans-1,2-Dichloroethene	4.89	96	94327	17.57	ug/Kg	96
22) 1,1-Diclethane	5.54	63	191961	20.03	ug/Kg	97
23) Vinyl Acetate	5.67	43	241198	18.73	ug/Kg	100
24) 2-Chloro-1,3-butadiene	5.70	53	216956	25.83	ug/Kg	95
25) 2,2-Dichloropropane	6.49	77	145211	21.45	ug/Kg	93
26) 2-Butanone	6.54	43	65863	14.74	ug/Kg	92
28) cis-1,2-Dichloroethene	6.50	96	118003	18.43	ug/Kg#	82
29) Propionitrile	6.61	54	83798	72.38	ug/Kg	94
30) Methacrylonitrile	6.86	67	38157	12.75	ug/Kg	84
31) Bromochloromethane	6.87	128	61225	19.34	ug/Kg	92
32) Chloroform	7.04	83	180766	19.67	ug/Kg	100
33) Tetrahydrofuran	6.97	42	45088	14.37	ug/Kg	97
34) 1,1,1-Trichloroethane	7.32	97	158863	23.43	ug/Kg	96
37) Carbontetrachloride	7.60	117	126411	20.65	ug/Kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9553.D
Acq On : 1 Feb 102 12:18 pm
Sample : 20 PPB
Misc :
Quant Time: Feb 4 8:39 19102

Vial: 7
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:37:24 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	1,1-Dichloropropene	7.59	75	192333	26.27	ug/Kg	94
39)	Iso-Butyl Alcohol	8.45	43	215715	796.06	ug/Kg	99
40)	Benzene	7.93	78	608731	29.01	ug/Kg	100
41)	1,2-Dichloroethane	7.95	62	140793	17.58	ug/Kg	99
42)	N-Heptane	8.45	43	215986	39.91	ug/Kg	97
43)	Trichloroethene	9.02	95	153187	27.35	ug/Kg	90
44)	1,2-Diclpropane	9.37	63	169560	24.64	ug/Kg	95
45)	Methyl Methacrylate	9.64	69	93696	18.88	ug/Kg	97
46)	1,4-Dioxane	9.64	88	30291	409.10	ug/Kg	97
47)	Dibromomethane	9.57	93	78485	17.50	ug/Kg	98
48)	Bromodichloromethane	9.87	83	162608	21.24	ug/Kg	99
49)	2-Nitropropane	10.24	43	76122	29.94	ug/Kg#	82
50)	2-Chloroethylvinyl Ether	10.41	63	55066	9.70	ug/Kg	98
51)	cis-1,3-Dichloropropene	10.64	75	239365	23.87	ug/Kg	91
53)	4-Methyl-2-Pentanone	10.93	43	177332	19.11	ug/Kg	93
54)	Toluene	11.22	91	542440	28.09	ug/Kg	100
55)	trans-1,3-Dichloropropene	11.62	75	222014	25.51	ug/Kg	97
56)	Ethyl Methacrylate	11.82	69	165857	19.54	ug/Kg	99
57)	1,1,2-Trichloroethane	11.93	83	117038	24.00	ug/Kg	99
60)	Tetrachloroethene	12.20	166	123357	28.59	ug/Kg	97
61)	2-Hexanone	12.41	43	126806	20.20	ug/Kg	97
62)	1,3-Dichloropropane	12.23	76	256046	24.27	ug/Kg	91
63)	Dibromochloromethane	12.63	129	142048	24.24	ug/Kg	100
64)	1,2-Dibromoethane	12.82	107	143764	22.79	ug/Kg	97
65)	Chlorobenzene	13.74	112	364391	29.16	ug/Kg	96
66)	1,1,1,2-Tetrachloroethane	13.90	131	128789	27.48	ug/Kg	95
67)	Ethylbenzene	13.96	91	587186	30.04	ug/Kg	99
68)	(m+p)Xylene	14.19	106	426719	61.51	ug/Kg	94
69)	o-Xylene	14.93	106	215031	31.58	ug/Kg	98
70)	Styrene	14.95	104	371409	30.27	ug/Kg	96
71)	Bromoform	15.27	173	83656	21.65	ug/Kg	99
72)	Isopropylbenzene	15.63	105	561878	32.29	ug/Kg	97
73)	Cyclohexanone	15.75	55	323527	506.24	ug/Kg	97
75)	1,1,2,2-Tetrachloroethane	16.20	83	176571	22.44	ug/Kg	95
76)	Trans-1,4-Dichloro-2-buten	16.29	53	49524	20.60	ug/Kg	94
77)	1,2,3-Trichloropropane	16.25	110	48487	20.18	ug/Kg	92
78)	n-Propylbenzene	16.42	91	647101	32.96	ug/Kg	99
79)	Bromobenzene	16.18	156	132354	26.85	ug/Kg	97
80)	1,3,5-Trimethylbenzene	16.77	105	395564	22.83	ug/Kg#	52
81)	2-Chlorotoluene	16.56	91	389717	30.94	ug/Kg	98
82)	4-Chlorotoluene	16.77	91	439134	30.95	ug/Kg	95
83)	tert-Butylbenzene	17.39	119	356431	34.92	ug/Kg	93
84)	1,2,4-Trimethylbenzene	17.48	105	397792	33.82	ug/Kg	100
85)	sec-Butylbenzene	17.82	105	574385	39.06	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9553.D
Acq On : 1 Feb 102 12:18 pm
Sample : 20 PPB
Misc :
Quant Time: Feb 4 8:39 19102

Vial: 7
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:37:24 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
86)	p-Isopropyltoluene	18.11	119	443320	43.43 ug/Kgm	95
87)	1,3-Dclbenz	18.00	146	200227	29.27 ug/Kg	97
88)	1,4-Dclbenz	18.17	146	220790	29.09 ug/Kg	98
89)	n-Butylbenzene	18.91	91	424912	43.23 ug/Kg	99
90)	1,2-Dclbenz	18.89	146	201405	27.66 ug/Kg	96
91)	1,2-Dibromo-3-chloropropan	20.43	157	25049	19.66 ug/Kg	92
92)	Nitrobenzene	20.82	77	9187	19.23 ug/Kg	97
93)	1,2,4-Tcbenzene	22.08	180	112288	31.42 ug/Kg	98
94)	Hexachlorobt	22.46	225	68837	49.90 ug/Kg	97
95)	Naphthalen	22.55	128	247204	25.03 ug/Kg	98
96)	1,2,3-Tclbenzene	23.04	180	107674	32.87 ug/Kg	89

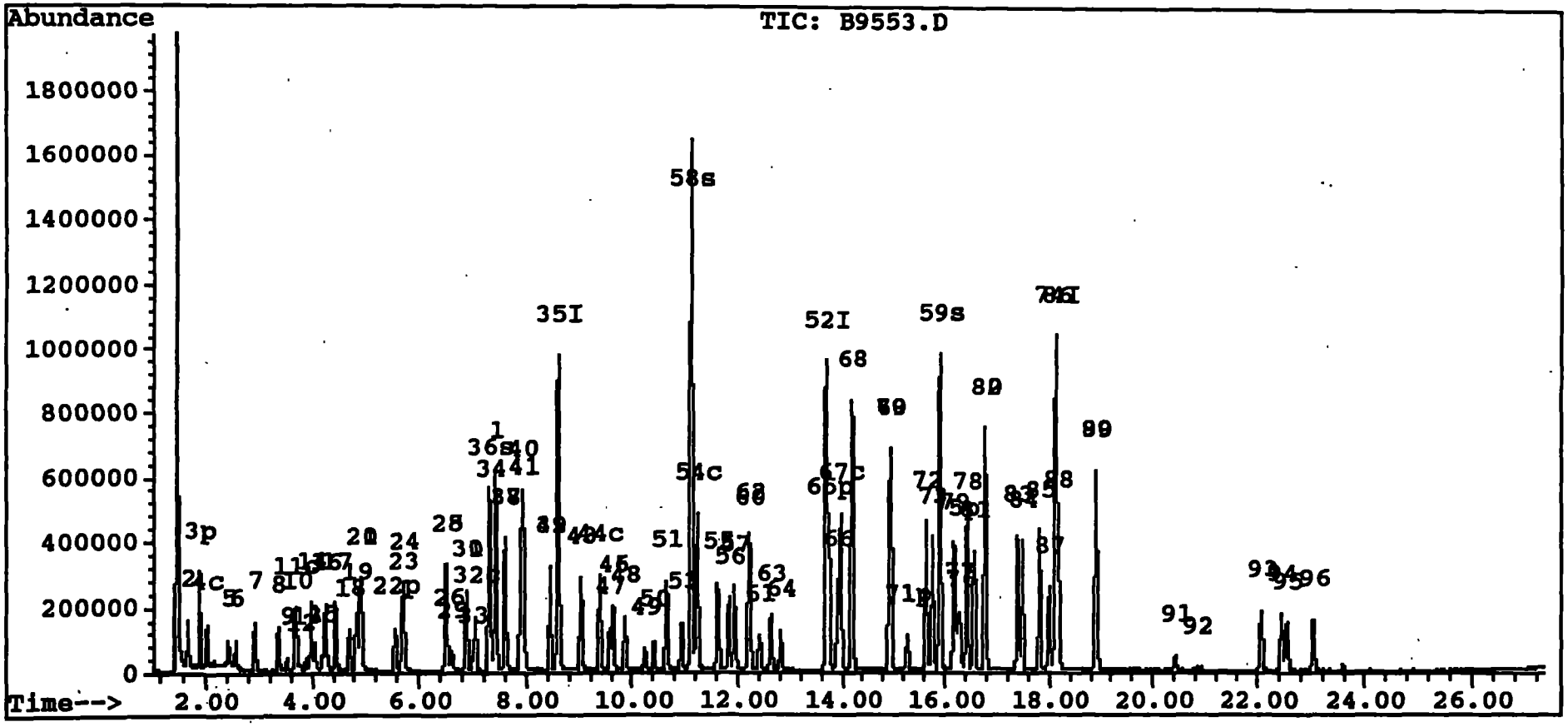
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B955..D
Acq On : 1 Feb 102 12:18 pm
Sample : 20 PPB
Misc :
Quant Time: Feb 4 8:39 19102

Vial: 7
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:37:24 2002
Response via : Multiple Level Calibration



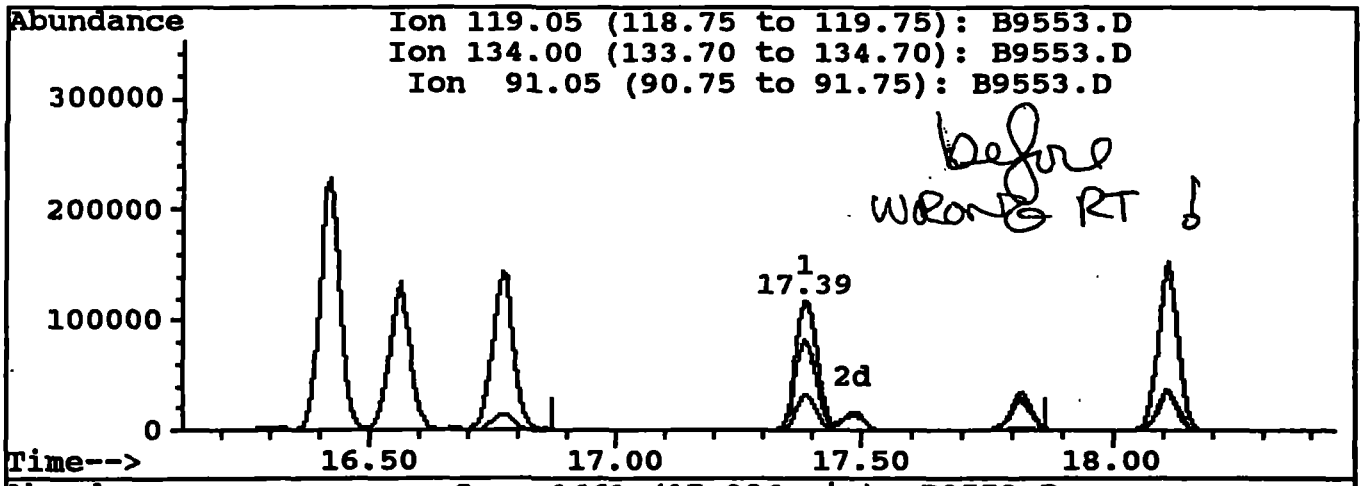
381

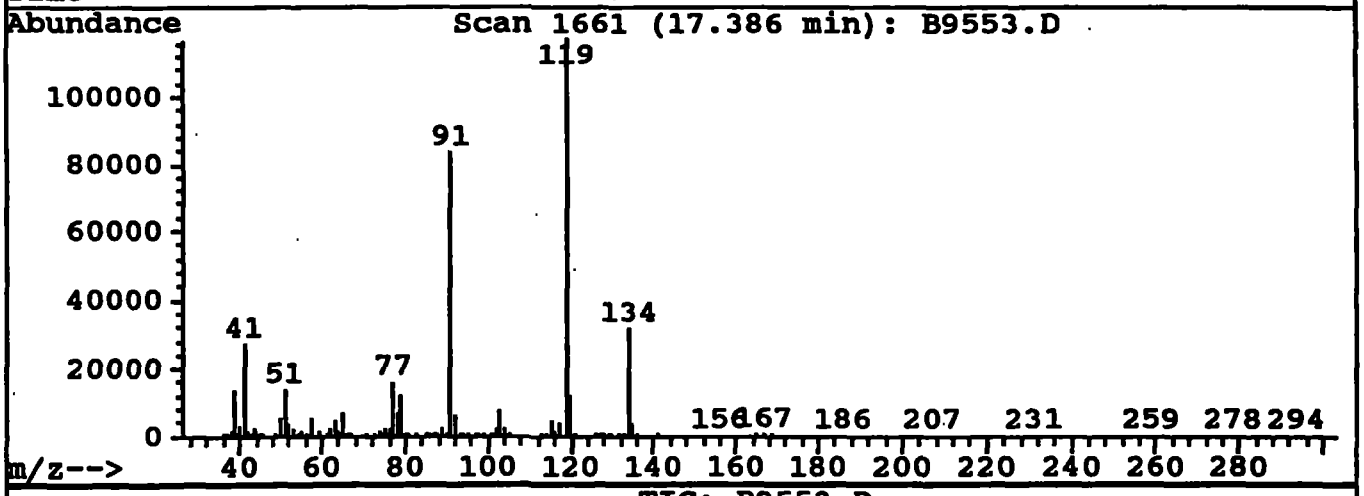
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9553.D
Acq On : 1 Feb 102 12:18 pm
Sample : 20 PPB
Misc :
Quant Time: Feb 1 12:46 19102

Vial: 7
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration





TIC: B9553.D

(86) p-Isopropyltoluene
17.39min 34.92ug/Kg
response 356431

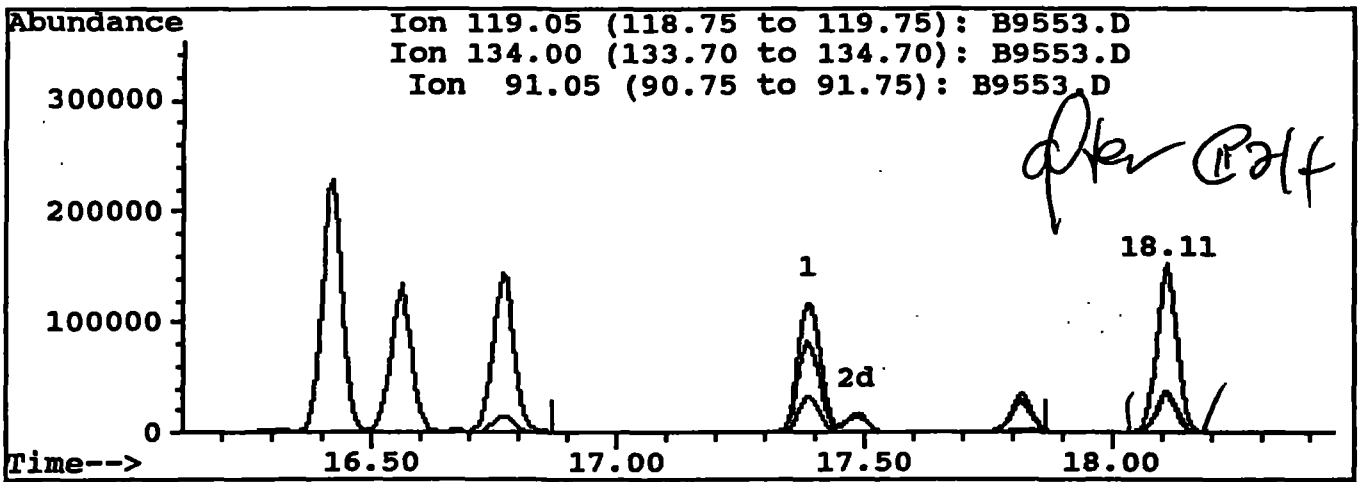
Ion	Exp%	Act%
119.05	100	100
134.00	26.30	26.73
91.05	65.80	71.08
0.00	0.00	0.00

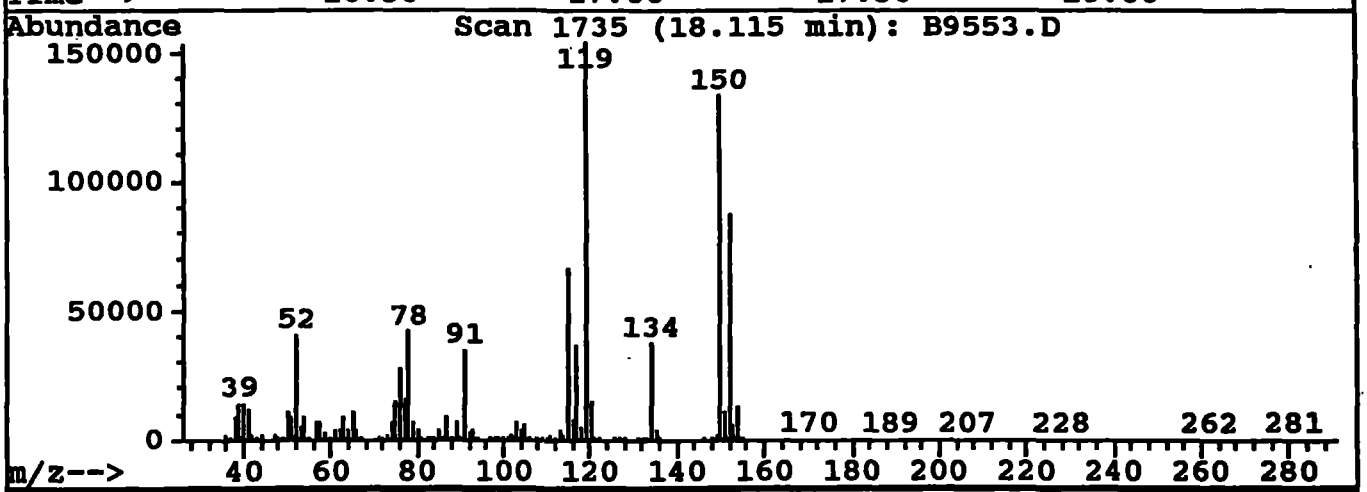
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9553.D
Acq On : 1 Feb 102 12:18 pm
Sample : 20 PPB
Misc :
Quant Time: Feb 4 8:39 19102

Vial: 7
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration





TIC: B9553.D

(86) p-Isopropyltoluene
18.11min 43.43ug/Kg m
response 443320

Ion	Exp%	Act%
119.05	100	100
134.00	26.30	24.18
91.05	65.80	22.41
0.00	0.00	0.00

B9553.D SOL0201.M Mon Feb 04 08:39:57 2002

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9554.D Vial: 8
Acq On : 1 Feb 102 12:54 pm Operator: TTRAVER
Sample : 50 PPB Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 4 8:42 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:37:24 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.41	168	572524	50.00 ug/Kg	0.01
35) 1,4 - Difluorobenzene	8.59	114	1172328	50.00 ug/Kg	0.01
52) d5 - Chlorobenzene	13.68	117	904626	50.00 ug/Kg	0.01
74) d4 - Dichlorobenzene	18.13	152	373691	50.00 ug/Kg	0.02
System Monitoring Compounds					**%Recovery**
36) surr4,Dibrflmethane	7.29	113	285627	38.01 ug/Kg	76.02%
58) surr3,Toluene-d8	11.10	98	1105025	57.30 ug/Kg	114.61%
59) surr2,bfb	15.90	95	433176	57.02 ug/Kg	114.05%
Target Compounds					**Qvalue**
2) Dichlorodifluoromethane	1.66	85	415827	85.30 ug/Kg	97
3) Chloromethane	1.88	50	672325	104.06 ug/Kg	98
4) Vinyl Chloride	2.01	62	432928	78.02 ug/Kg	97
5) Bromomethane	2.41	94	226599	58.55 ug/Kg	94
6) Chloroethane	2.55	64	278902	80.30 ug/Kg	99
7) Trichlorofluoromethane	2.91	101	470870	76.67 ug/Kg	98
8) Diethyl Ether	3.35	59	220889	40.09 ug/Kg	95
9) Acrolein	3.51	56	134154	108.67 ug/Kg	94
10) FREON 113	3.70	85	87380	53.78 ug/Kg	93
11) 1,1-Diclethene	3.67	96	252717	59.51 ug/Kg	95
12) Acetone	3.76	43	79065	32.19 ug/Kg	97
13) Iodomethane	3.88	127	106633	44.52 ug/Kg	92
14) Carbon Disulfide	3.97	76	1001140	61.12 ug/Kg	100
15) Acetonitrile	4.18	41	142241	515.54 ug/Kg	98
16) Allyl Chloride	4.24	76	154545	58.61 ug/Kg	98
17) Methylene Chloride	4.43	84	325176	56.19 ug/Kg	99
18) TBA	4.67	59	547581	813.61 ug/Kg	99
19) Acrylonitrile	4.81	53	472522	157.00 ug/Kg	98
20) Methyl-t-Butyl Ether	4.90	73	706646	43.09 ug/Kg	96
21) trans-1,2-Dichloroethene	4.88	96	262091	49.79 ug/Kg	99
22) 1,1-Diclethane	5.54	63	507421	53.99 ug/Kg	99
23) Vinyl Acetate	5.67	43	620876	49.16 ug/Kg	100
24) 2-Chloro-1,3-butadiene	5.70	53	550794	69.92 ug/Kg	99
25) 2,2-Dichloropropane	6.49	77	404278	60.91 ug/Kg	98
26) 2-Butanone	6.54	43	156973	35.82 ug/Kg	98
28) cis-1,2-Dichloroethene	6.50	96	322986	51.43 ug/Kg	88
29) Propionitrile	6.60	54	206373	181.77 ug/Kg	100
30) Methacrylonitrile	6.86	67	95670	32.59 ug/Kg	87
31) Bromochloromethane	6.88	128	157223	50.63 ug/Kg	95
32) Chloroform	7.04	83	470360	52.19 ug/Kg	99
33) Tetrahydrofuran	6.97	42	100232	34.69 ug/Kg	92
34) 1,1,1-Trichloroethane	7.31	97	439200	66.06 ug/Kg	97
37) Carbontetrachloride	7.60	117	369510	60.09 ug/Kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9554.D Vial: 8
Acq On : 1 Feb 102 12:54 pm Operator: TTRAVER
Sample : 50 PPB Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 4 8:42 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:37:24 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	1,1-Dichloropropene	7.60	75	546626	74.35	ug/Kg	96
39)	Iso-Butyl Alcohol	8.44	43	578877	2127.10	ug/Kg	100
40)	Benzene	7.92	78	1579614	74.97	ug/Kg	99
41)	1,2-Dichloroethane	7.95	62	346442	43.08	ug/Kg	100
42)	N-Heptane	8.44	43	585979	107.81	ug/Kg	97
43)	Trichloroethene	9.02	95	403892	71.81	ug/Kg	94
44)	1,2-Diclpropane	9.37	63	444937	64.37	ug/Kg	99
45)	Methyl Methacrylate	9.64	69	231553	46.45	ug/Kg	95
46)	1,4-Dioxane	9.64	88	68520	921.45	ug/Kg	93
47)	Dibromomethane	9.57	93	195389	43.39	ug/Kg	98
48)	Bromodichloromethane	9.86	83	423508	55.09	ug/Kg	98
49)	2-Nitropropane	10.24	43	201326	78.85	ug/Kg	97
50)	2-Chloroethylvinyl Ether	10.40	63	139204	24.42	ug/Kg	100
51)	cis-1,3-Dichloropropene	10.64	75	622203	61.79	ug/Kg	97
53)	4-Methyl-2-Pentanone	10.93	43	452583	49.68	ug/Kg	93
54)	Toluene	11.22	91	1416676	74.72	ug/Kg	99
55)	trans-1,3-Dichloropropene	11.61	75	547342	64.04	ug/Kg	96
56)	Ethyl Methacrylate	11.82	69	414701	49.77	ug/Kg	98
57)	1,1,2-Trichloroethane	11.93	83	292949	61.19	ug/Kg	97
60)	Tetrachloroethene	12.20	166	342720	80.95	ug/Kg	95
61)	2-Hexanone	12.41	43	315720	51.21	ug/Kg	92
62)	1,3-Dichloropropane	12.22	76	637065	61.50	ug/Kg	88
63)	Dibromochloromethane	12.63	129	348942	60.63	ug/Kg	99
64)	1,2-Dibromoethane	12.81	107	354775	57.28	ug/Kg	99
65)	Chlorobenzene	13.74	112	914230	74.51	ug/Kg	96
66)	1,1,1,2-Tetrachloroethane	13.90	131	334202	72.62	ug/Kg	97
67)	Ethylbenzene	13.97	91	1531237	79.79	ug/Kg	97
68)	(m+p)Xylene	14.19	106	1109500	162.89	ug/Kg	98
69)	o-Xylene	14.92	106	548862	82.10	ug/Kg	98
70)	Styrene	14.94	104	927614	77.00	ug/Kg	94
71)	Bromoform	15.27	173	214667	56.58	ug/Kg	98
72)	Isopropylbenzene	15.63	105	1445253	88.07	ug/Kg	100
73)	Cyclohexanone	15.75	55	1025498	1634.30	ug/Kg	95
75)	1,1,2,2-Tetrachloroethane	16.19	83	426765	53.53	ug/Kg	97
76)	Trans-1,4-Dichloro-2-buten	16.30	53	119604	49.10	ug/Kg	100
77)	1,2,3-Trichloropropane	16.26	110	120241	49.39	ug/Kg	99
78)	n-Propylbenzene	16.42	91	1696511	85.30	ug/Kg	100
79)	Bromobenzene	16.17	156	324225	64.92	ug/Kg	99
80)	1,3,5-Trimethylbenzene	16.77	105	1031076	56.95	ug/Kg#	53
81)	2-Chlorotoluene	16.56	91	997779	78.19	ug/Kg	99
82)	4-Chlorotoluene	16.77	91	1077716	74.96	ug/Kg	96
83)	tert-Butylbenzene	17.39	119	964420	93.26	ug/Kg	97
84)	1,2,4-Trimethylbenzene	17.48	105	1020178	85.62	ug/Kg	96
85)	sec-Butylbenzene	17.82	105	1555339	104.38	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9554.D Vial: 8
Acq On : 1 Feb 102 12:54 pm Operator: TTRAVER
Sample : 50 PPB Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 4 8:42 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:37:24 2002
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
86) p-Isopropyltoluene	18.11	119	1172358	113.37 ug/Kgm	98
87) 1,3-Dclbenz	18.00	146	535323	77.25 ug/Kg	99
88) 1,4-Dclbenz	18.18	146	570833	74.22 ug/Kg	97
89) n-Butylbenzene	18.91	91	1140599	114.55 ug/Kg	99
90) 1,2-Dclbenz	18.90	146	536168	72.68 ug/Kg	98
91) 1,2-Dibromo-3-chloropropan	20.42	157	63891	49.49 ug/Kg	93
92) Nitrobenzene	20.82	77	22335	31.52 ug/Kg	89
93) 1,2,4-Tcbenzene	22.08	180	316887	87.51 ug/Kg	100
94) Hexachlorobt	22.45	225	196657	140.72 ug/Kg	99
95) Naphthalen	22.55	128	647405	64.71 ug/Kg	98
96) 1,2,3-Tclbenzene	23.04	180	278136	83.81 ug/Kg	100

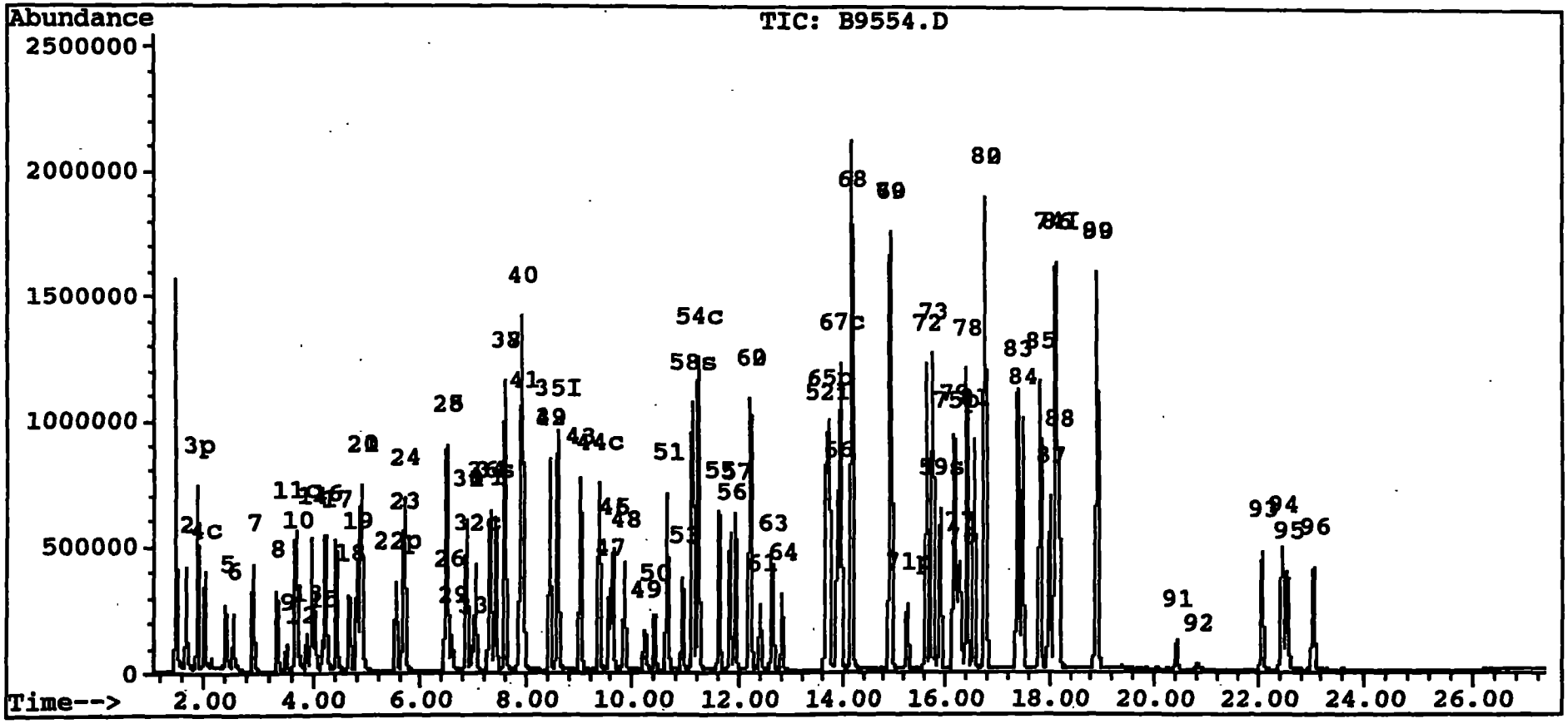
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9554.D
Acq On : 1 Feb 102 12:54 pm
Sample : 50 PPB
Misc :
Quant Time: Feb 4 8:42 19102

Vial: 8
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:37:24 2002
Response via : Multiple Level Calibration



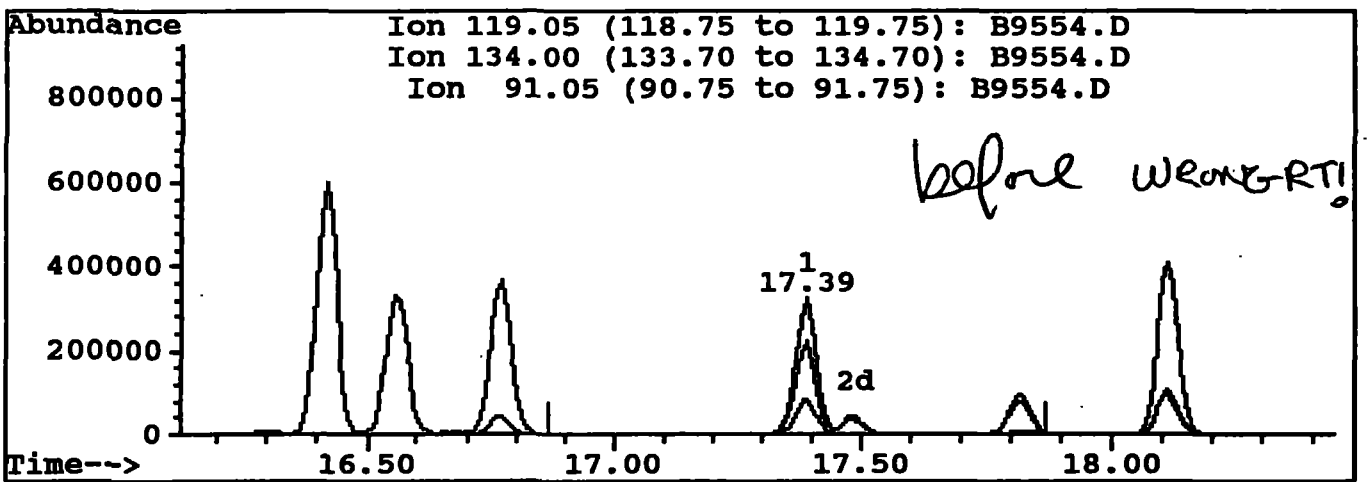
387

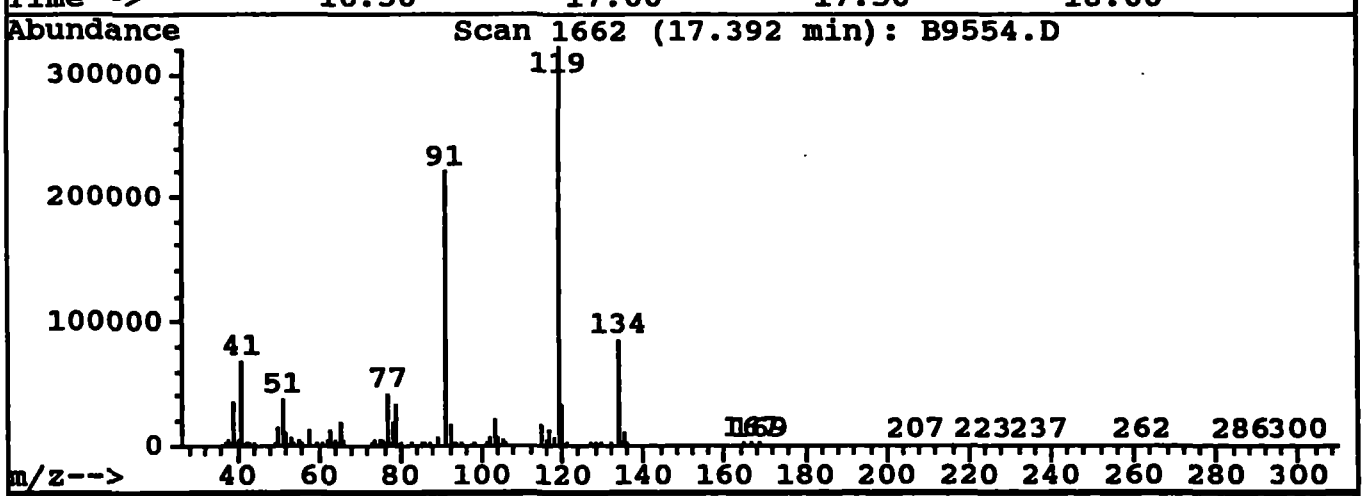
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9554.D
Acq On : 1 Feb 102 12:54 pm
Sample : 50 PPB
Misc :
Quant Time: Feb 1 13:22 19102

Vial: 8
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:37:24 2002
Response via : Multiple Level Calibration





TIC: B9554.D

(86) p-Isopropyltoluene
17.39min 93.26ug/Kg
response 964420

Ion	Exp%	Act%
119.05	100	100
134.00	26.30	26.34
91.05	65.80	68.33
0.00	0.00	0.00

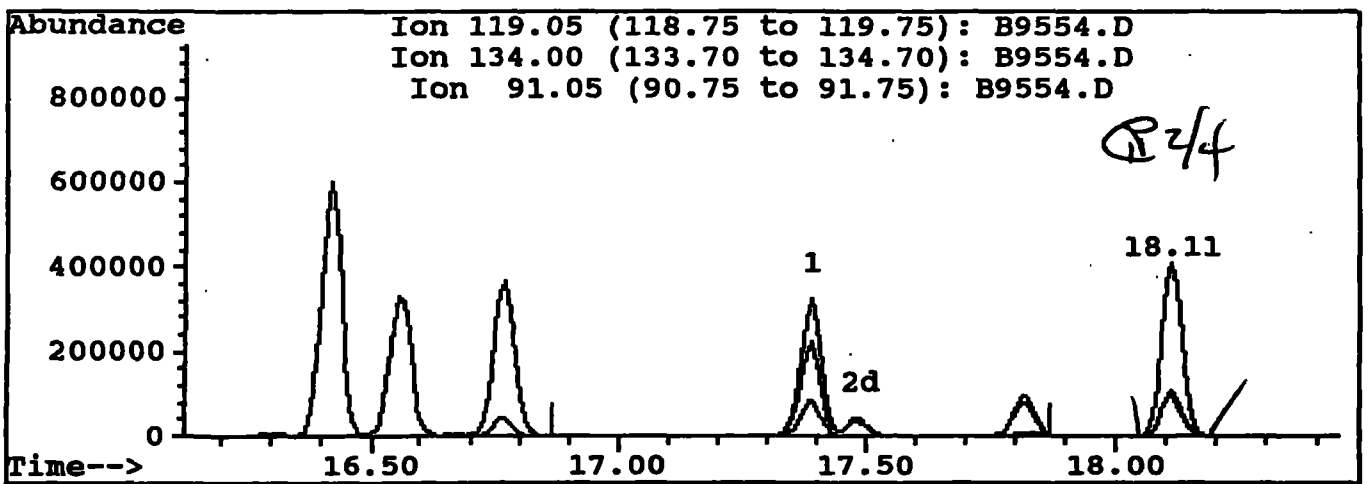
Quantitation Report

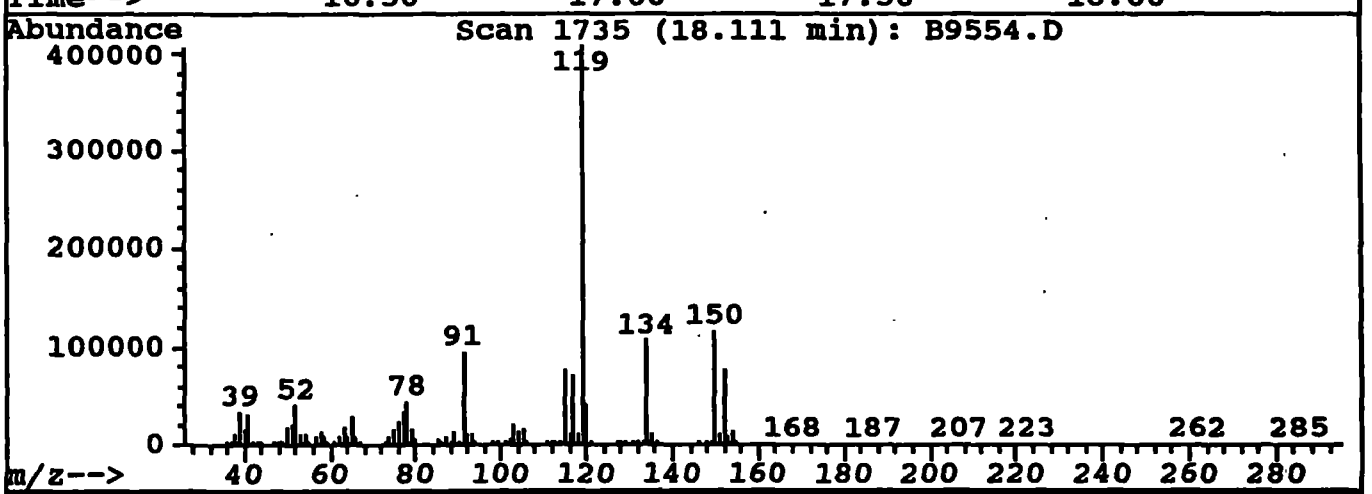
Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9554.D
Acq On : 1 Feb 102 12:54 pm
Sample : 50 PPB
Misc :
Quant Time: Feb 4 8:42 19102

Vial: 8
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:37:24 2002
Response via : Multiple Level Calibration

after





TIC: B9554.D

(86) p-Isopropyltoluene
18.11min 113.37ug/Kg m
response 1172358

Ion	Exp%	Act%
119.05	100	100
134.00	26.30	25.88
91.05	65.80	23.14
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9555.D Vial: 9
Acq On : 1 Feb 102 1:30 pm Operator: TTRAVER
Sample : 100 PPB Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 4 8:45 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:46:15 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.41	168	598645	50.00	ug/Kg	0.00
35) 1,4 - Difluorobenzene	8.59	114	1224233	50.00	ug/Kg	0.00
52) d5 - Chlorobenzene	13.68	117	986755	50.00	ug/Kg	0.00
74) d4 - Dichlorobenzene	18.13	152	419197	50.00	ug/Kg	0.00
System Monitoring Compounds						**%Recovery**
36) surr4,Dibrflmethane	7.28	113	558727	80.97	ug/Kg	161.94%
58) surr3,Toluene-d8	11.10	98	2199348	101.44	ug/Kg	202.88%
59) surr2,bfb	15.90	95	938614	110.21	ug/Kg	220.41%
Target Compounds						**Qvalue**
2) Dichlorodifluoromethane	1.66	85	871869	120.90	ug/Kgm	77
3) Chloromethane	1.87	50	1351544	122.35	ug/Kg	98
4) Vinyl Chloride	2.01	62	881936	113.92	ug/Kg	98
5) Bromomethane	2.41	94	467668	107.62	ug/Kg	96
6) Chloroethane	2.55	64	525322	111.82	ug/Kg	99
7) Trichlorofluoromethane	2.90	101	928412	109.20	ug/Kg	98
8) Diethyl Ether	3.35	59	405098	73.60	ug/Kg	97
9) Acrolein	3.50	56	257451	260.16	ug/Kg	91
10) FREON 113	3.70	85	160708	81.31	ug/Kg	92
11) 1,1-Diclethene	3.66	96	490698	96.35	ug/Kg	91
12) Acetone	3.76	43	148302	63.19	ug/Kg	99
13) Iodomethane	3.87	127	246120	101.20	ug/Kg	98
14) Carbon Disulfide	3.97	76	2021030	92.34	ug/Kg	100
15) Acetonitrile	4.17	41	302708	849.92	ug/Kg	99
16) Allyl Chloride	4.23	76	297776	96.06	ug/Kg	93
17) Methylene Chloride	4.43	84	641697	95.45	ug/Kg	97
18) TBA	4.68	59	1101493	1652.91	ug/Kg	99
19) Acrylonitrile	4.81	53	926310	348.07	ug/Kg	99
20) Methyl-t-Butyl Ether	4.90	73	1318604	78.04	ug/Kg	98
21) trans-1,2-Dichloroethene	4.87	96	488497	82.85	ug/Kg	91
22) 1,1-Diclethane	5.54	63	985534	90.28	ug/Kg	98
23) Vinyl Acetate	5.67	43	1154284	83.66	ug/Kg	100
24) 2-Chloro-1,3-butadiene	5.70	53	1033060	90.70	ug/Kg	96
25) 2,2-Dichloropropane	6.49	77	749818	91.23	ug/Kg	96
26) 2-Butanone	6.53	43	305972	70.79	ug/Kg	95
28) cis-1,2-Dichloroethene	6.50	96	612080	88.25	ug/Kg	91
29) Propionitrile	6.59	54	404922	380.99	ug/Kg	100
30) Methacrylonitrile	6.86	67	185161	71.26	ug/Kg	99
31) Bromochloromethane	6.87	128	307623	91.65	ug/Kg	93
32) Chloroform	7.03	83	872151	85.50	ug/Kg	97
33) Tetrahydrofuran	6.96	42	190730	67.47	ug/Kg	93
34) 1,1,1-Trichloroethane	7.31	97	804182	93.59	ug/Kg	98
37) Carbontetrachloride	7.59	117	688830	90.58	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9555.D Vial: 9
Acq On : 1 Feb 102 1:30 pm Operator: TTRAVER
Sample : 100 PPB Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 4 8:45 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:46:15 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	1,1-Dichloropropene	7.59	75	1044237	104.67	ug/Kg	98
39)	Iso-Butyl Alcohol	8.44	43	1186327	2517.90	ug/Kg	100
40)	Benzene	7.92	78	3036949	104.72	ug/Kg	98
41)	1,2-Dichloroethane	7.94	62	655283	78.92	ug/Kg	99
42)	N-Heptane	8.44	43	1178221	124.10	ug/Kg	98
43)	Trichloroethene	9.02	95	791357	101.97	ug/Kg	97
44)	1,2-Diclpropane	9.37	63	844746	97.82	ug/Kg	98
45)	Methyl Methacrylate	9.63	69	477834	91.74	ug/Kg	92
46)	1,4-Dioxane	9.63	88	149377	1882.77	ug/Kg	96
47)	Dibromomethane	9.57	93	373400	79.71	ug/Kg	97
48)	Bromodichloromethane	9.86	83	825055	93.17	ug/Kg	99
49)	2-Nitropropane	10.24	43	398771	163.12	ug/Kg	97
50)	2-Chloroethylvinyl Ether	10.40	63	293939	62.90	ug/Kg	97
51)	cis-1,3-Dichloropropene	10.64	75	1244624	101.72	ug/Kg	97
53)	4-Methyl-2-Pentanone	10.93	43	900405	83.10	ug/Kg	97
4)	Toluene	11.22	91	2877025	103.71	ug/Kg	99
55)	trans-1,3-Dichloropropene	11.61	75	1116542	99.56	ug/Kg	97
56)	Ethyl Methacrylate	11.82	69	849351	89.57	ug/Kg	100
57)	1,1,2-Trichloroethane	11.93	83	570374	94.17	ug/Kg	100
60)	Tetrachloroethene	12.20	166	699781	107.47	ug/Kg	98
61)	2-Hexanone	12.40	43	634119	84.36	ug/Kg	96
62)	1,3-Dichloropropane	12.22	76	1268604	95.84	ug/Kg	92
63)	Dibromochloromethane	12.63	129	741786	100.99	ug/Kg	98
64)	1,2-Dibromoethane	12.82	107	741052	97.15	ug/Kg	99
65)	Chlorobenzene	13.73	112	1895506	106.02	ug/Kg	98
66)	1,1,1,2-Tetrachloroethane	13.90	131	687485	105.10	ug/Kg	99
67)	Ethylbenzene	13.96	91	3158410	107.51	ug/Kg	98
68)	(m+p)Xylene	14.18	106	2303271	218.31	ug/Kg	96
69)	o-Xylene	14.92	106	1129906	109.50	ug/Kg	100
70)	Styrene	14.94	104	1949324	108.14	ug/Kg	96
71)	Bromoform	15.26	173	490351	107.70	ug/Kg	99
72)	Isopropylbenzene	15.63	105	3054509	114.34	ug/Kg	98
73)	Cyclohexanone	15.75	55	2737308	2942.02	ug/Kg	99
75)	1,1,2,2-Tetrachloroethane	16.19	83	908209	93.63	ug/Kg	98
76)	Trans-1,4-Dichloro-2-buten	16.30	53	251472	88.26	ug/Kg	92
77)	1,2,3-Trichloropropane	16.25	110	253071	89.79	ug/Kg	96
78)	n-Propylbenzene	16.42	91	3660855	109.87	ug/Kg	98
79)	Bromobenzene	16.17	156	743854	105.74	ug/Kg	95
80)	1,3,5-Trimethylbenzene	16.76	105	2232336	92.40	ug/Kg#	52
81)	2-Chlorotoluene	16.56	91	2120157	104.85	ug/Kg	100
82)	4-Chlorotoluene	16.76	91	2373872	106.55	ug/Kg	97
83)	tert-Butylbenzene	17.38	119	2031785	113.36	ug/Kg	96
84)	1,2,4-Trimethylbenzene	17.48	105	2213785	112.76	ug/Kg	97
85)	sec-Butylbenzene	17.82	105	3262237	117.62	ug/Kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9555.D Vial: 9
Acq On : 1 Feb 102 1:30 pm Operator: TTRAVER
Sample : 100 PPB Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 4 8:45 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:46:15 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
86)	p-Isopropyltoluene	18.11	119	2542406	141.85 ug/Kgm	97
87)	1,3-Dclbenz	18.00	146	1166674	111.64 ug/Kg	99
88)	1,4-Dclbenz	18.17	146	1233099	107.44 ug/Kg	100
89)	n-Butylbenzene	18.91	91	2432666	124.24 ug/Kg	100
90)	1,2-Dclbenz	18.89	146	1137764	105.61 ug/Kg	98
91)	1,2-Dibromo-3-chloropropan	20.41	157	142540	95.38 ug/Kg	98
92)	Nitrobenzene	20.82	77	60148	81.23 ug/Kg	94
93)	1,2,4-Tcbenzene	22.08	180	699975	120.91 ug/Kg	95
94)	Hexachlorobt	22.45	225	405107	132.11 ug/Kg	98
95)	Naphthalen	22.55	128	1391936	106.50 ug/Kg	98
96)	1,2,3-Tclbenzene	23.03	180	593524	112.50 ug/Kg	98

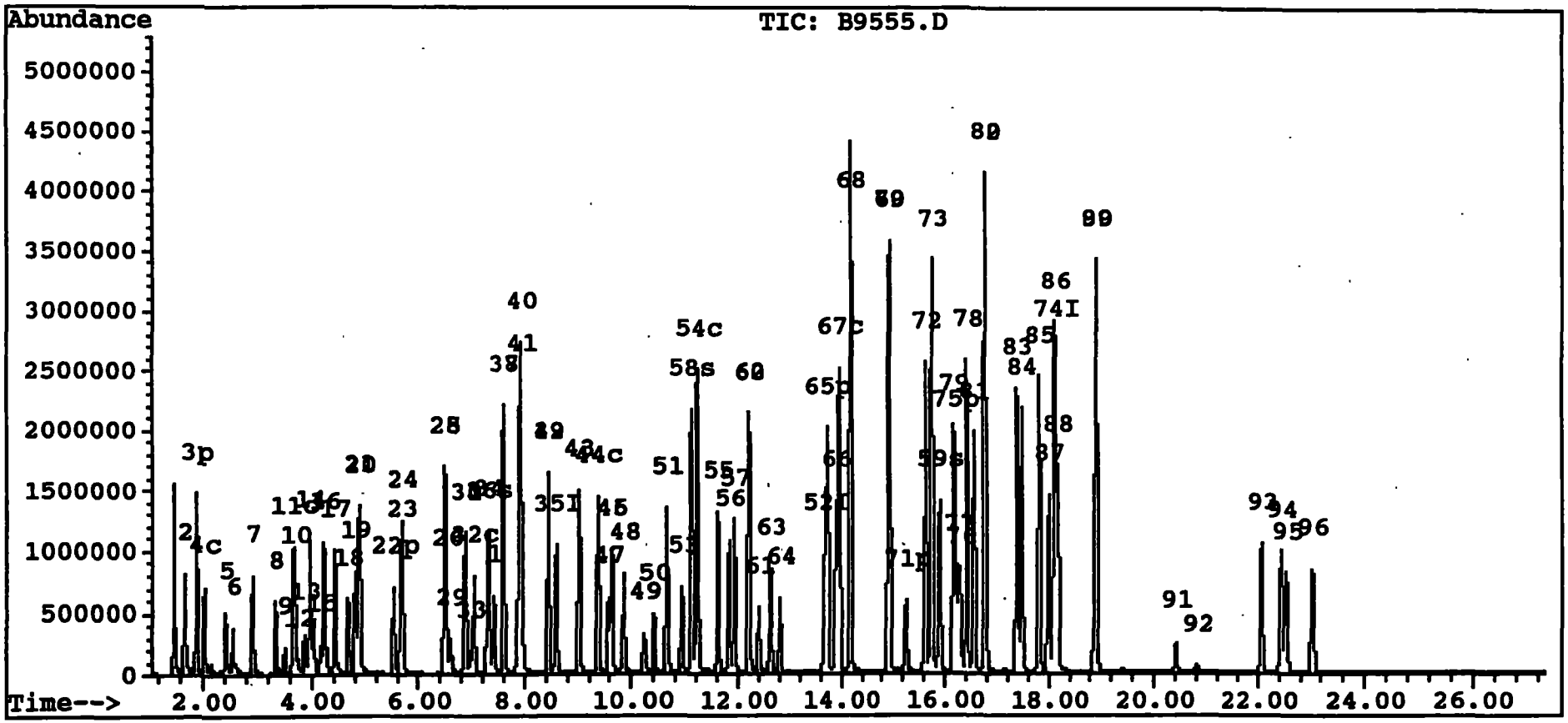
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9555.D
Acq On : 1 Feb 102 1:30 pm
Sample : 100 PPB
Misc :
Quant Time: Feb 4 8:45 19102

Vial: 9
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:46:15 2002
Response via : Multiple Level Calibration

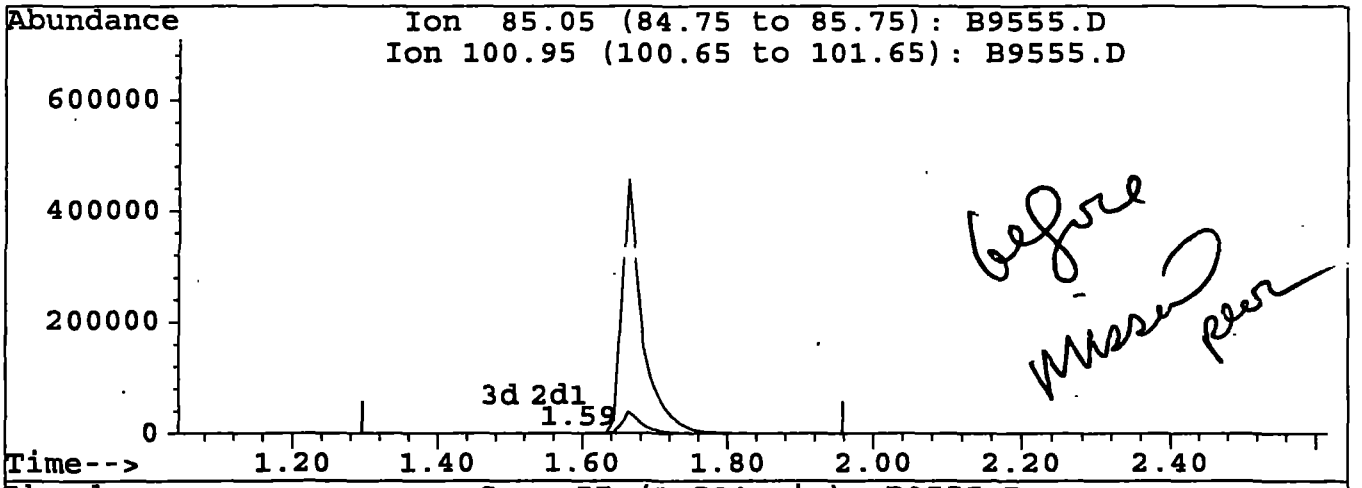


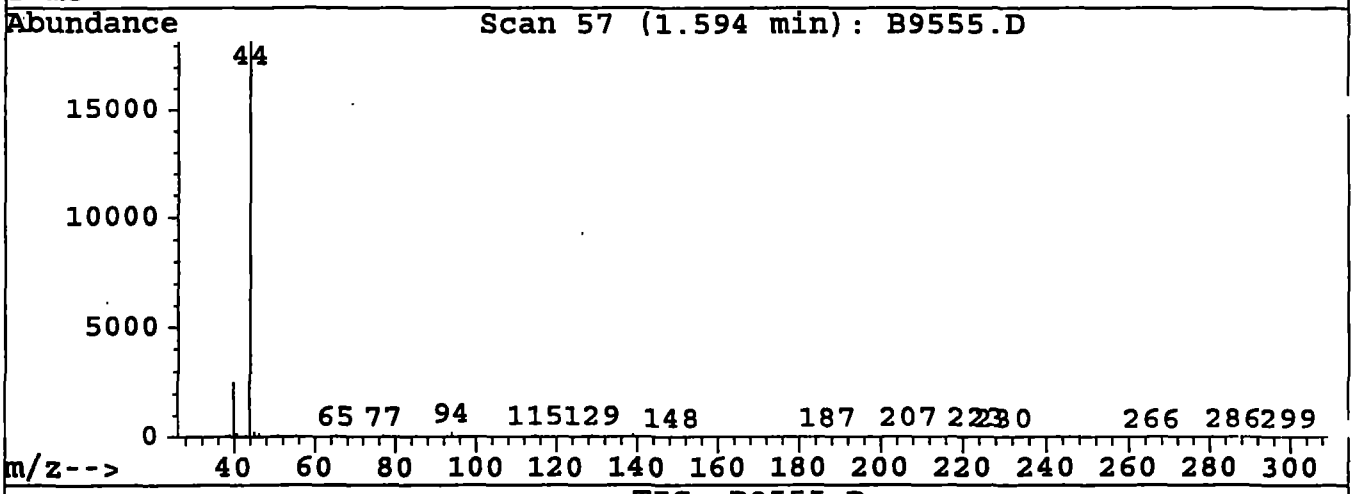
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9555.D
Acq On : 1 Feb 102 1:30 pm
Sample : 100 PPB
Misc :
Quant Time: Feb 1 13:58 19102

Vial: 9
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 13:41:28 2002
Response via : Multiple Level Calibration





TIC: B9555.D

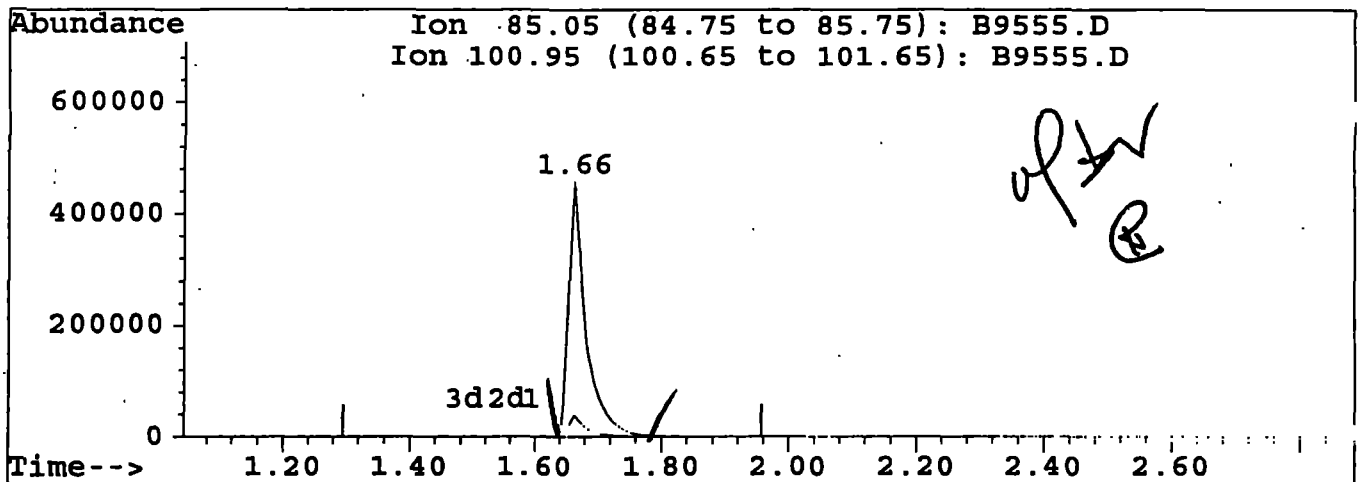
(2) Dichlorodifluoromethane
1.59min 0.01ug/Kg
response 103

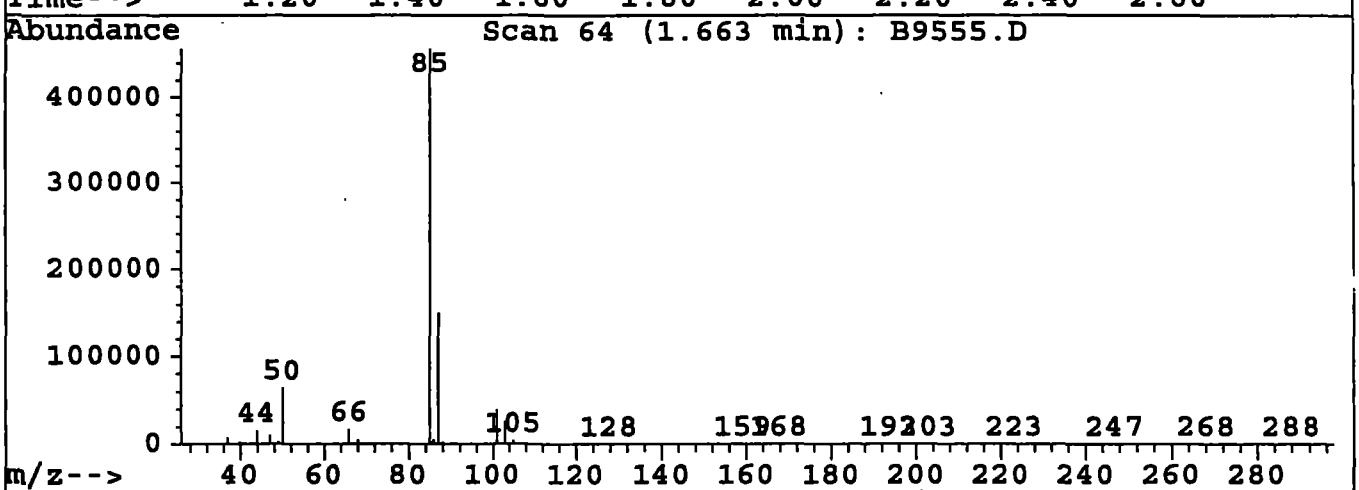
Ion	Exp%	Act%
85.05	100	100
100.95	8.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9555.D Vial: 9
Acq On : 1 Feb 102 1:30 pm Operator: TTRAVER
Sample : 100 PPB Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 1 14:00 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 13:41:28 2002
Response via : Multiple Level Calibration





TIC: B9555.D

(2) Dichlorodifluoromethane
1.66min 120.90ug/Kg m
response 871869

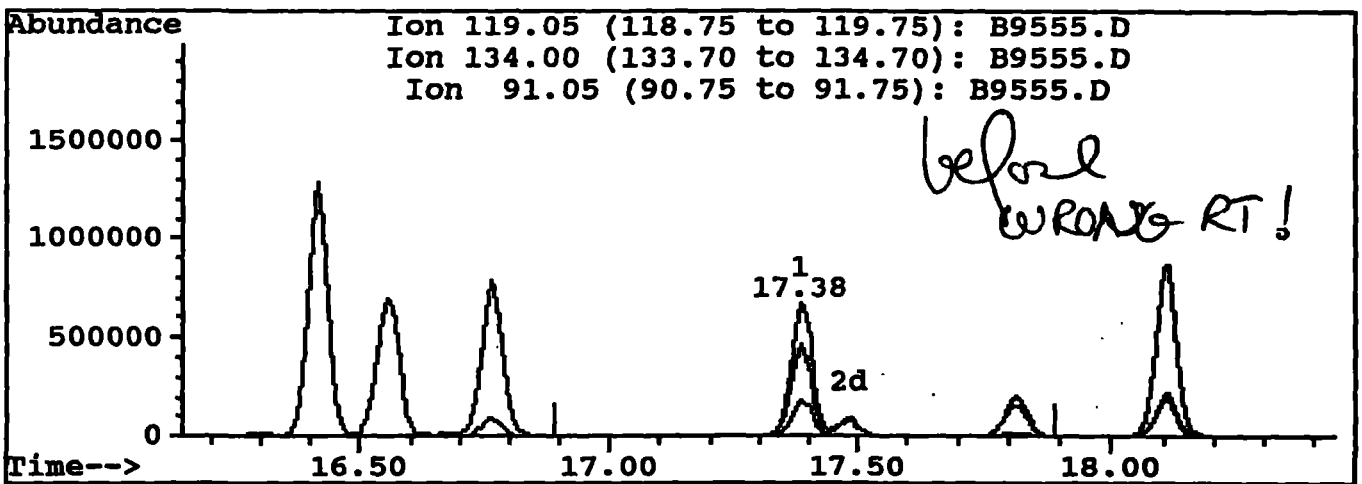
Ion	Exp%	Act%
85.05	100	100
100.95	8.10	8.57
0.00	0.00	0.00
0.00	0.00	0.00

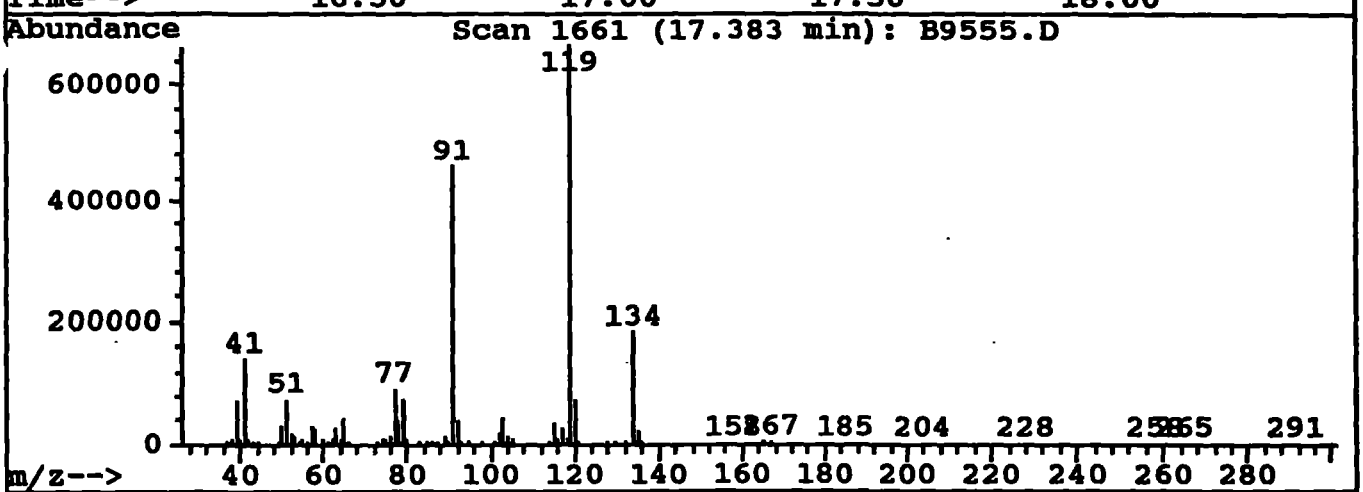
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9555.D
Acq On : 1 Feb 102 1:30 pm
Sample : 100 PPB
Misc :
Quant Time: Feb 1 14:00 19102

Vial: 9
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:43:46 2002
Response via : Multiple Level Calibration





TIC: B9555.D

(86) p-Isopropyltoluene
17.38min 113.36ug/Kg
response 2031785

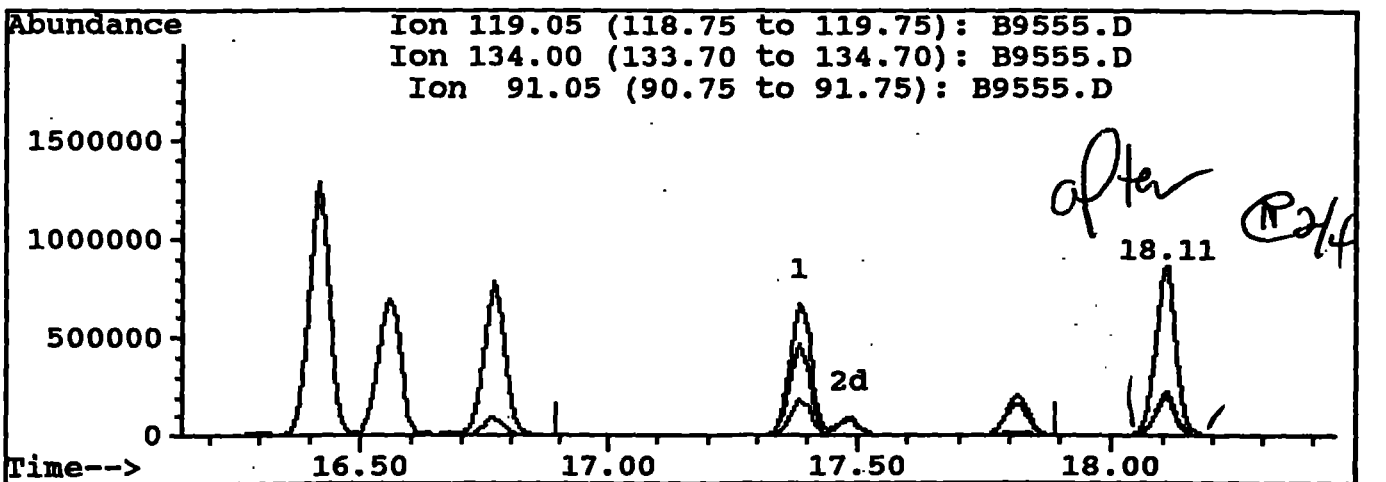
Ion	Exp%	Act%
119.05	100	100
134.00	26.30	27.32
91.05	65.80	68.98
0.00	0.00	0.00

Quantitation Report

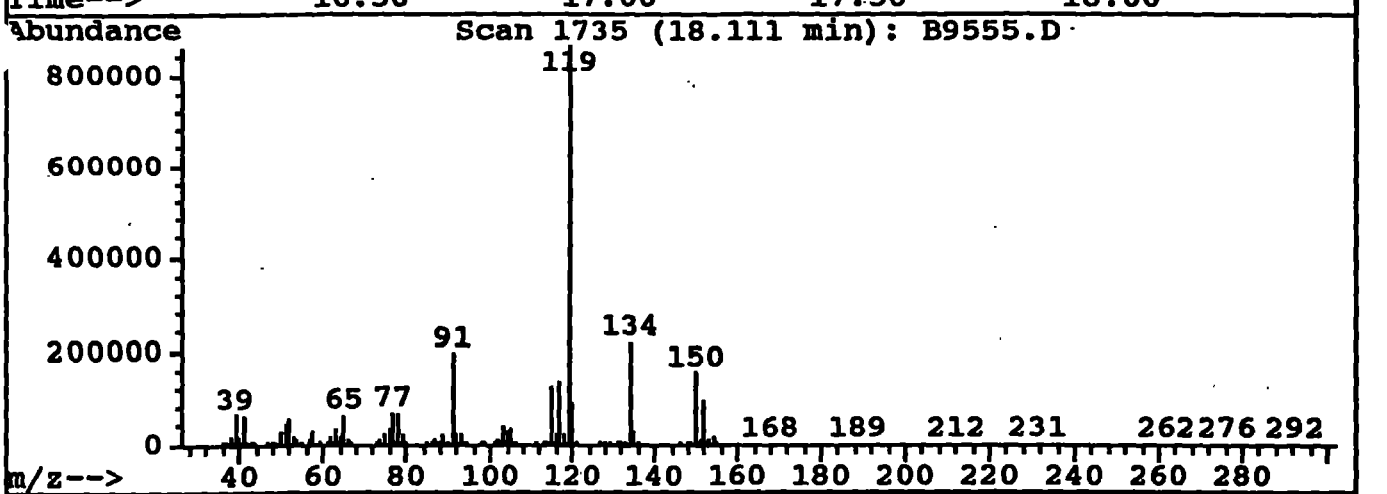
Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9555.D
Acq On : 1 Feb 102 1:30 pm
Sample : 100 PPB
Misc :
Quant Time: Feb 4 8:45 19102

Vial: 9
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:43:46 2002
Response via : Multiple Level Calibration



after



TIC: B9555.D

(86) p-Isopropyltoluene
18.11min 141.85ug/Kg m
response 2542406

Ion	Exp%	Act%
119.05	100	100
134.00	26.30	25.14
91.05	65.80	22.32
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9556.D
I On : 1 Feb 102 2:05 pm
Sample : 150 PPB
Misc :
Quant Time: Feb 4 8:51 19102

Vial: 10
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:53:08 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.41	168	715193	50.00	ug/Kg	0.00
35) 1,4 - Difluorobenzene	8.59	114	1368788	50.00	ug/Kg	0.00
52) d5 - Chlorobenzene	13.69	117	1058851	50.00	ug/Kg	0.00
74) d4 - Dichlorobenzene	18.13	152	409697	50.00	ug/Kg	0.00
System Monitoring Compounds						**%Recovery**
36) surr4,Dibrflmethane	7.29	113	798306	110.24	ug/Kg	220.47%
58) surr3,Toluene-d8	11.10	98	2831952	120.33	ug/Kg	240.66%
59) surr2,bfb	15.89	95	1107661	117.69	ug/Kg	235.37%
Target Compounds						**Qvalue**
2) Dichlorodifluoromethane	1.66	85	1308790	142.25	ug/Kgm	0
3) Chloromethane	1.88	50	2009074	139.40	ug/Kg	98
4) Vinyl Chloride	2.00	62	1379675	142.05	ug/Kg	98
5) Bromomethane	2.41	94	817389	155.23	ug/Kg	96
6) Chloroethane	2.54	64	897663	151.92	ug/Kg	98
7) Trichlorofluoromethane	2.91	101	1549191	146.63	ug/Kg	99
8) Diethyl Ether	3.34	59	705900	114.74	ug/Kg	99
9) Acrolein	3.51	56	427444	420.14	ug/Kg	98
10) FREON 113	3.70	85	279936	121.85	ug/Kg	100
11) 1,1-Diclethene	3.67	96	895791	147.69	ug/Kg	97
12) Acetone	3.76	43	242533	93.72	ug/Kg	98
13) Iodomethane	3.87	127	399397	146.61	ug/Kgm	0
14) Carbon Disulfide	3.97	76	3260003	124.76	ug/Kg	100
15) Acetonitrile	4.17	41	480715	1223.09	ug/Kg	97
16) Allyl Chloride	4.24	76	523229	141.47	ug/Kg	91
17) Methylene Chloride	4.43	84	1104220	137.73	ug/Kg	97
18) TBA	4.68	59	1840372	2410.77	ug/Kg	100
19) Acrylonitrile	4.81	53	1516787	523.99	ug/Kg	99
20) Methyl-t-Butyl Ether	4.90	73	2279659	119.15	ug/Kg	98
21) trans-1,2-Dichloroethene	4.88	96	908650	134.31	ug/Kg	97
22) 1,1-Diclethane	5.55	63	1713989	133.96	ug/Kg	100
23) Vinyl Acetate	5.67	43	1899544	118.46	ug/Kg	99
24) 2-Chloro-1,3-butadiene	5.69	53	1651491	120.31	ug/Kg	100
25) 2,2-Dichloropropane	6.48	77	1302089	133.52	ug/Kg	96
26) 2-Butanone	6.53	43	501586	103.26	ug/Kg	99
28) cis-1,2-Dichloroethene	6.49	96	1117687	138.56	ug/Kg	95
29) Propionitrile	6.60	54	689307	581.64	ug/Kg	98
30) Methacrylonitrile	6.86	67	326048	114.75	ug/Kg	97
31) Bromochloromethane	6.87	128	545203	138.21	ug/Kg	97
32) Chloroform	7.03	83	1543990	129.84	ug/Kg	97
33) Tetrahydrofuran	6.96	42	313741	98.63	ug/Kg	97
34) 1,1,1-Trichloroethane	7.31	97	1408222	136.88	ug/Kg	99
37) Carbontetrachloride	7.59	117	1214017	143.66	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9556.D
Acq On : 1 Feb 102 2:05 pm
Sample : 150 PPB
Misc :
Quant Time: Feb 4 8:51 19102

Vial: 10
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:53:08 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	1,1-Dichloropropene	7.59	75	1748059	151.87	ug/Kg	99
39)	Iso-Butyl Alcohol	8.44	43	1806648	3104.95	ug/Kg	100
40)	Benzene	7.92	78	4990777	148.79	ug/Kg	99
41)	1,2-Dichloroethane	7.95	62	1090446	123.52	ug/Kg	98
42)	N-Heptane	8.44	43	1798008	153.61	ug/Kg	99
43)	Trichloroethene	9.01	95	1338052	150.19	ug/Kg	97
44)	1,2-Diclpropane	9.38	63	1410517	144.44	ug/Kg	99
45)	Methyl Methacrylate	9.63	69	777742	136.61	ug/Kg	100
46)	1,4-Dioxane	9.62	88	234797	2659.77	ug/Kg	90
47)	Dibromomethane	9.56	93	649352	129.98	ug/Kg	97
48)	Bromodichloromethane	9.86	83	1405488	143.43	ug/Kg	99
49)	2-Nitropropane	10.23	43	668885	257.87	ug/Kg	100
50)	2-Chloroethylvinyl Ether	10.41	63	478881	103.21	ug/Kg	96
51)	cis-1,3-Dichloropropene	10.64	75	2058917	148.49	ug/Kg	96
3)	4-Methyl-2-Pentanone	10.92	43	1375905	120.43	ug/Kg	100
4)	Toluene	11.22	91	4699936	152.81	ug/Kg	98
55)	trans-1,3-Dichloropropene	11.61	75	1783849	146.45	ug/Kg	98
56)	Ethyl Methacrylate	11.83	69	1342676	135.18	ug/Kg	100
57)	1,1,2-Trichloroethane	11.94	83	933067	143.36	ug/Kg	99
60)	Tetrachloroethene	12.20	166	1163842	159.40	ug/Kg	96
61)	2-Hexanone	12.41	43	979013	123.12	ug/Kg	99
62)	1,3-Dichloropropane	12.22	76	2039339	142.77	ug/Kg	92
63)	Dibromochloromethane	12.62	129	1209873	151.92	ug/Kg	99
64)	1,2-Dibromoethane	12.81	107	1181107	144.20	ug/Kg	99
65)	Chlorobenzene	13.74	112	3045141	152.93	ug/Kg	97
66)	1,1,1,2-Tetrachloroethane	13.89	131	1112753	153.49	ug/Kg	98
67)	Ethylbenzene	13.96	91	4938804	150.11	ug/Kg	97
68)	(m+p)Xylene	14.19	106	3638104	306.68	ug/Kg	99
69)	o-Xylene	14.92	106	1772223	152.74	ug/Kg	100
70)	Styrene	14.95	104	3044849	150.96	ug/Kg	99
71)	Bromoform	15.26	173	738886	148.98	ug/Kg	99
72)	Isopropylbenzene	15.63	105	4597348	150.98	ug/Kg	99
73)	Cyclohexanone	15.75	55	3786692	3380.67	ug/Kg	99
75)	1,1,2,2-Tetrachloroethane	16.19	83	1344506	142.84	ug/Kg	100
76)	Trans-1,4-Dichloro-2-buten	16.30	53	372483	136.92	ug/Kg	97
77)	1,2,3-Trichloropropane	16.26	110	376509	138.80	ug/Kg	100
78)	n-Propylbenzene	16.41	91	5351671	155.81	ug/Kg	97
79)	Bromobenzene	16.17	156	1085215	153.51	ug/Kg	97
80)	1,3,5-Trimethylbenzene	16.77	105	3273491	139.66	ug/Kg#	48
81)	2-Chlorotoluene	16.56	91	3133470	152.34	ug/Kg	100
82)	4-Chlorotoluene	16.77	91	3436226	151.35	ug/Kg	100
83)	tert-Butylbenzene	17.39	119	2961539	158.37	ug/Kg	100
84)	1,2,4-Trimethylbenzene	17.48	105	3218983	157.94	ug/Kg	97
85)	sec-Butylbenzene	17.81	105	4721124	160.92	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9556.D
Acq On : 1 Feb 102 2:05 pm
ample : 150 PPB
Misc :
Quant Time: Feb 4 8:51 19102

Vial: 10
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:53:08 2002
Response via : Multiple Level Calibration

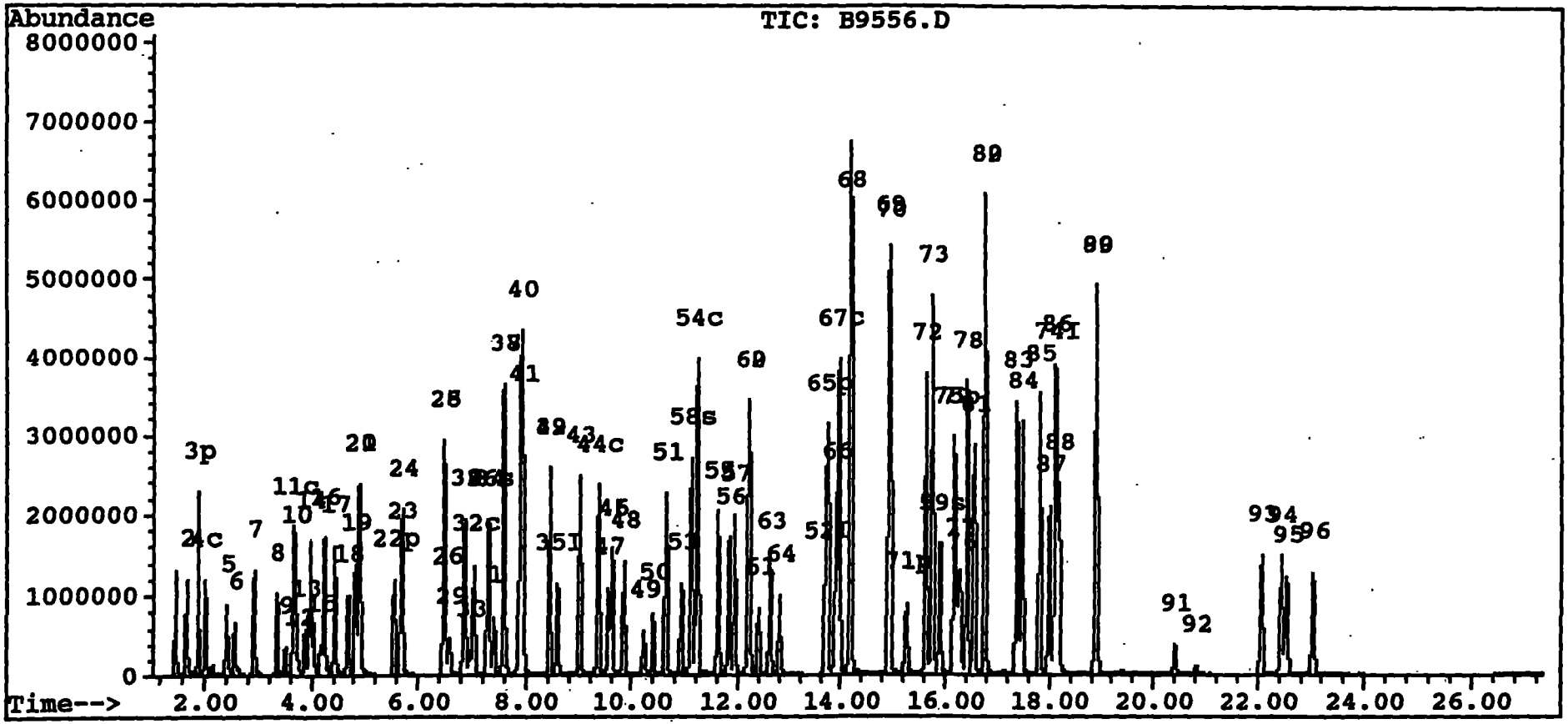
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
86)	p-Isopropyltoluene	18.11	119	3655705	195.50 ug/Kgm	100
87)	1,3-Dclbenz	18.00	146	1666601	155.71 ug/Kg	99
88)	1,4-Dclbenz	18.18	146	1773199	151.52 ug/Kg	97
89)	n-Butylbenzene	18.90	91	3481261	165.16 ug/Kg	99
90)	1,2-Dclbenz	18.89	146	1649918	151.31 ug/Kg	99
91)	1,2-Dibromo-3-chloropropan	20.42	157	209786	145.73 ug/Kg	95
92)	Nitrobenzene	20.81	77	101029	146.76 ug/Kg	99
93)	1,2,4-Tcbenzene	22.08	180	1005575	165.30 ug/Kg	98
94)	Hexachlorobt	22.46	225	586302	173.16 ug/Kg	99
95)	Naphthalen	22.55	128	2030940	154.39 ug/Kg	97
96)	1,2,3-Tclbenzene	23.04	180	865881	158.49 ug/Kg	99

(#) = qualifier out of range (m) = manual integration

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9556.D
Acq On : 1 Feb 102 2:05 pm
Sample : 150 PPB
Misc :
Quant Time: Feb 4 8:51 19102

Vial: 10
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:53:08 2002
Response via : Multiple Level Calibration



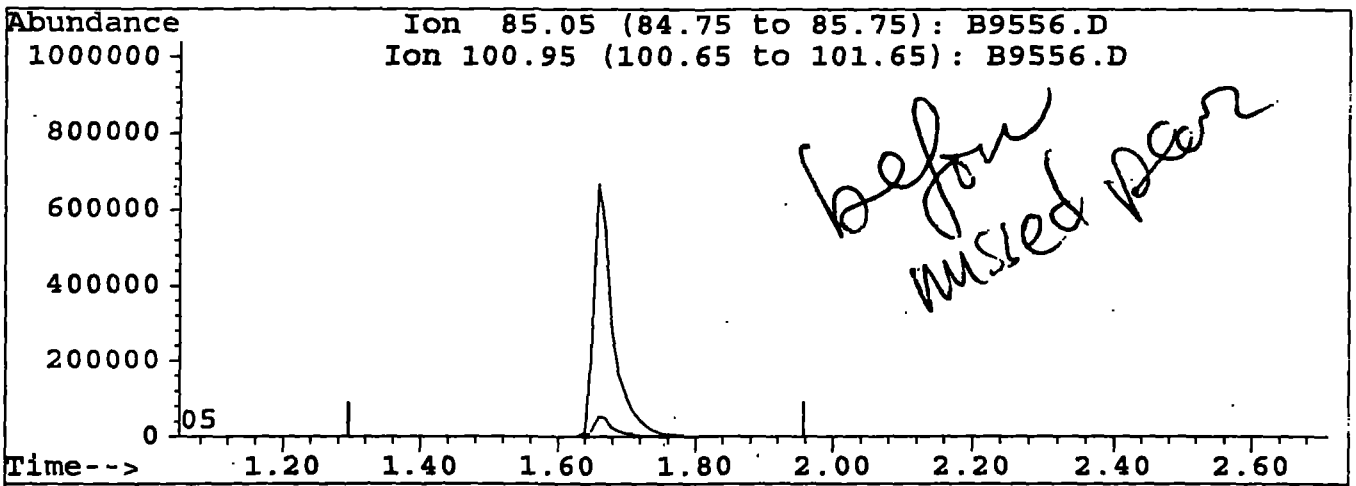
401

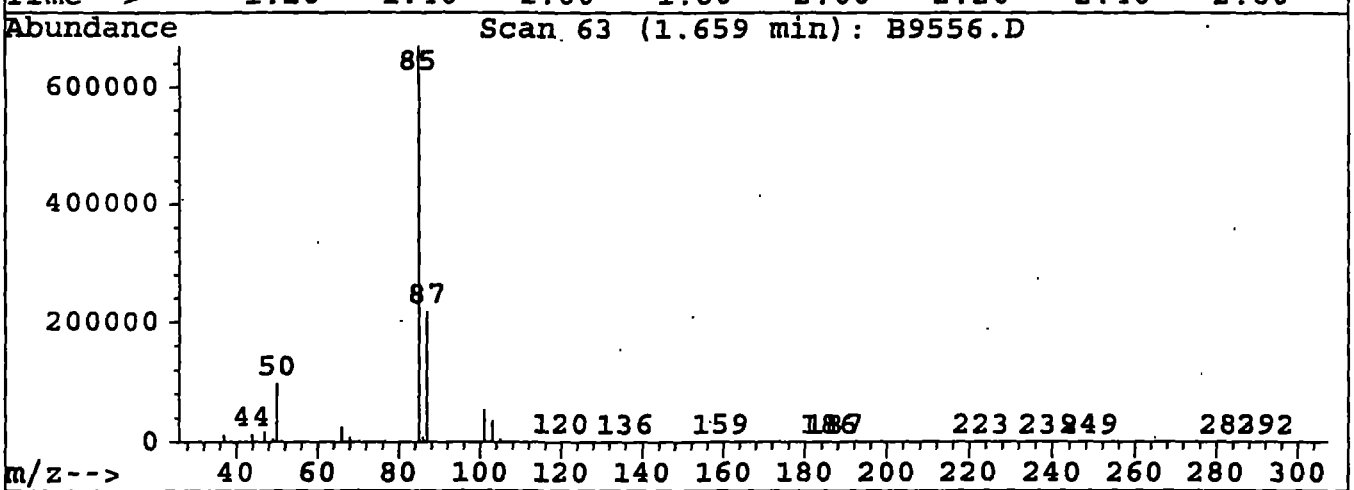
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9556.D
Acq On : 1 Feb 102 2:05 pm
Sample : 150 PPB
Misc :
Quant Time: Feb 1 14:33 19102

Vial: 10
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 14:01:22 2002
Response via : Multiple Level Calibration





TIC: B9556.D

(2) Dichlorodifluoromethane
1.66min 0.00ug/Kg d
response 0

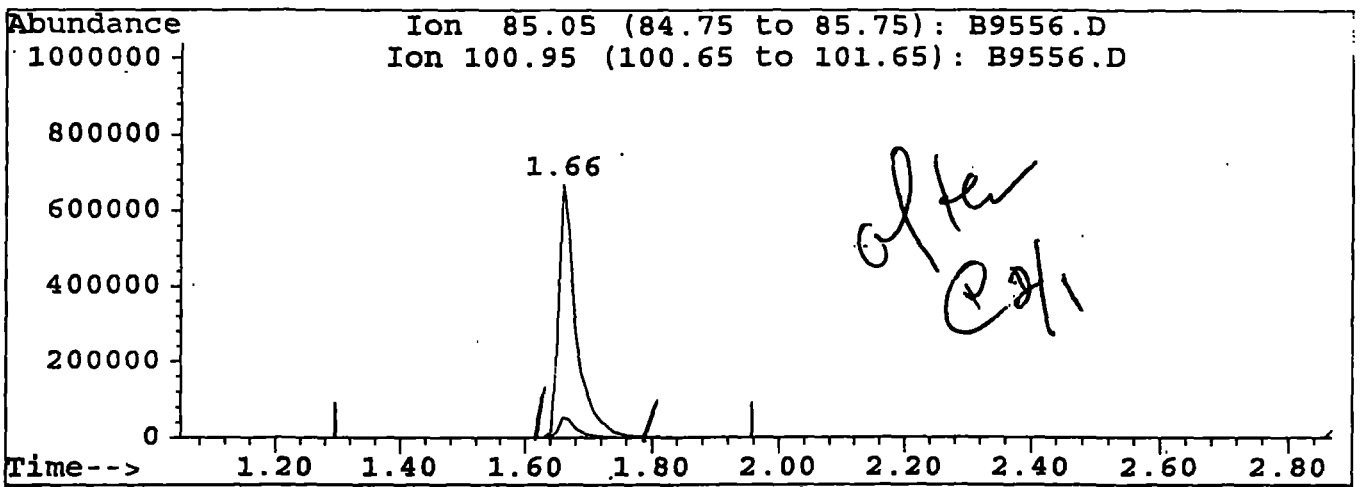
Ion	Exp%	Act%
85.05	100	0.00
100.95	8.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

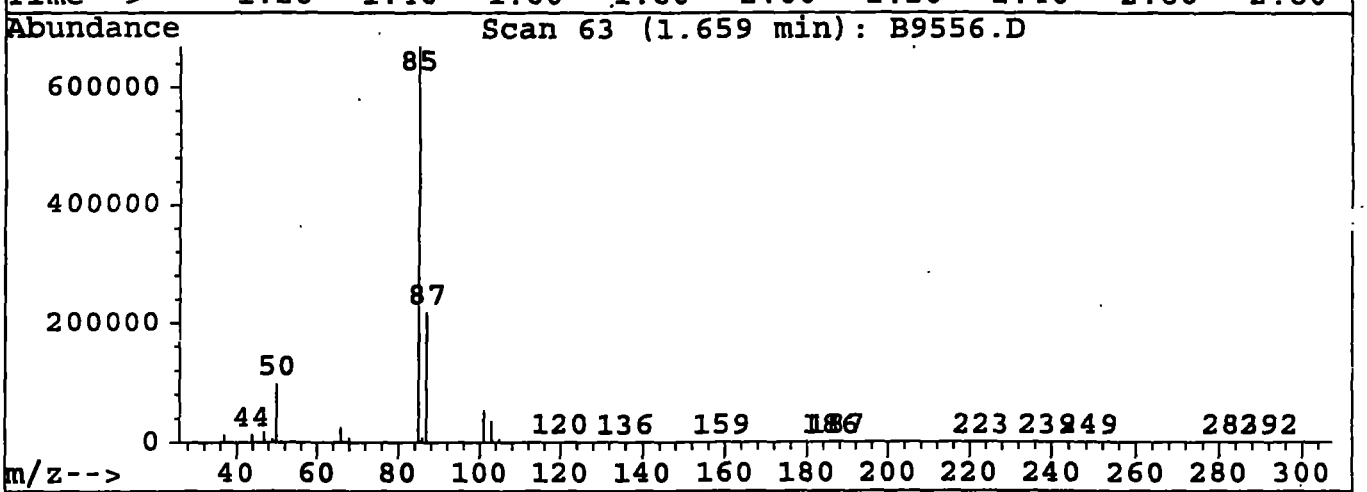
Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9556.D
Acq On : 1 Feb 102 2:05 pm
Sample : 150 PPB
Misc :
Quant Time: Feb 1 14:41 19102

Vial: 10
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 14:01:22 2002
Response via : Multiple Level Calibration



after CD/1



TIC: B9556.D

(2) Dichlorodifluoromethane
1.66min 142.25ug/Kg m
response 1308790

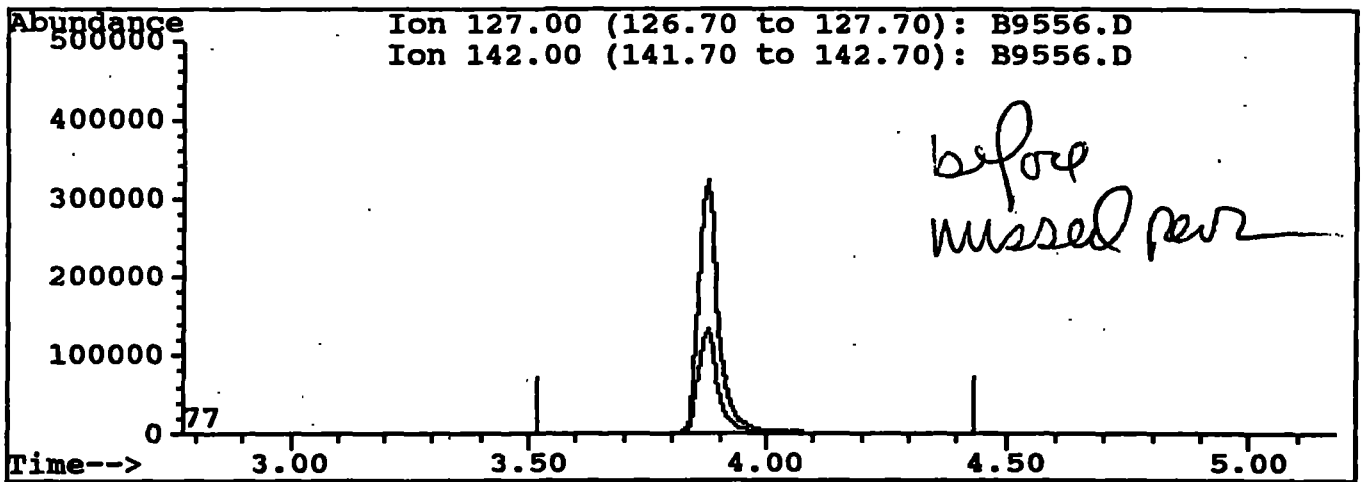
Ion	Exp%	Act%
85.05	100	100
100.95	8.10	8.07
0.00	0.00	0.00
0.00	0.00	0.00

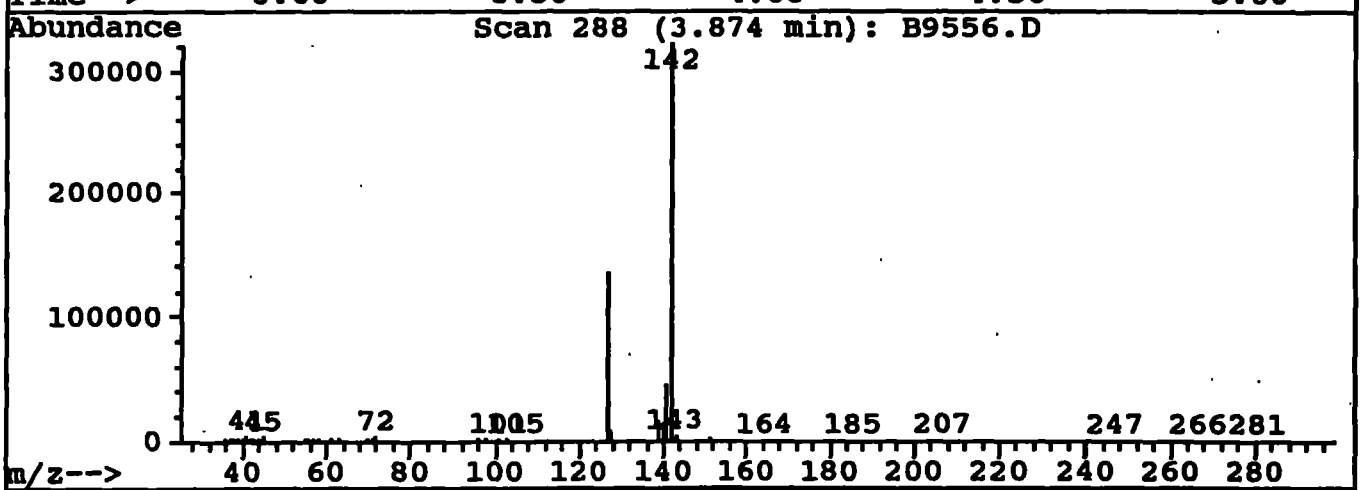
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9556.D
Acq On : 1 Feb 102 2:05 pm
Sample : 150 PPB
Misc :
Quant Time: Feb 4 8:48 19102

Vial: 10
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:46:15 2002
Response via : Multiple Level Calibration





TIC: B9556.D

(13) Iodomethane
3.88min 0.00ug/Kg d
response 0

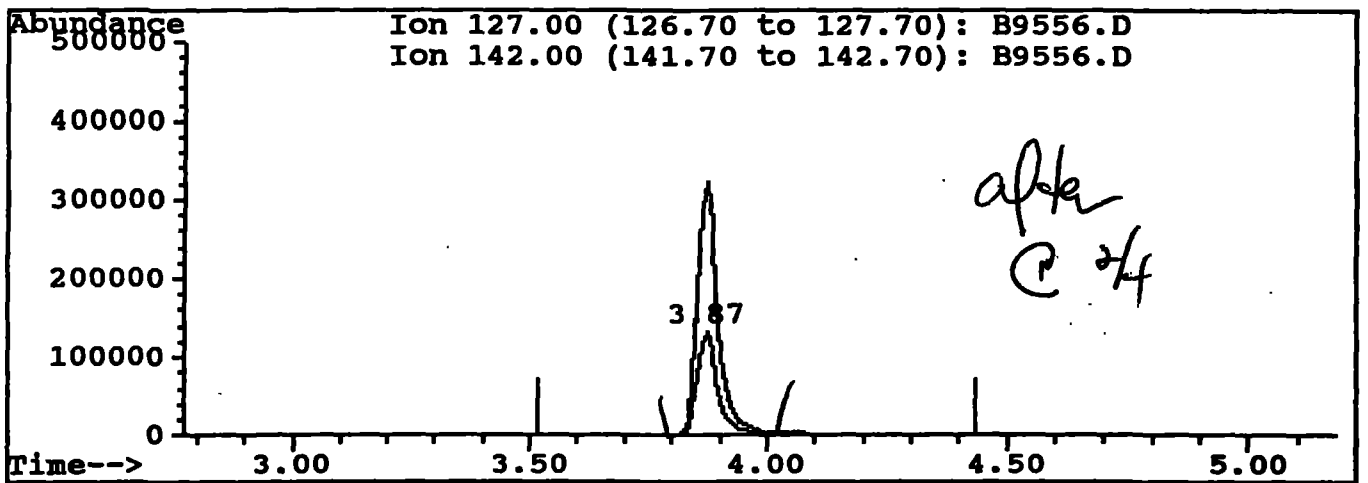
Ion	Exp%	Act%
127.00	100	0.00
142.00	222.30	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

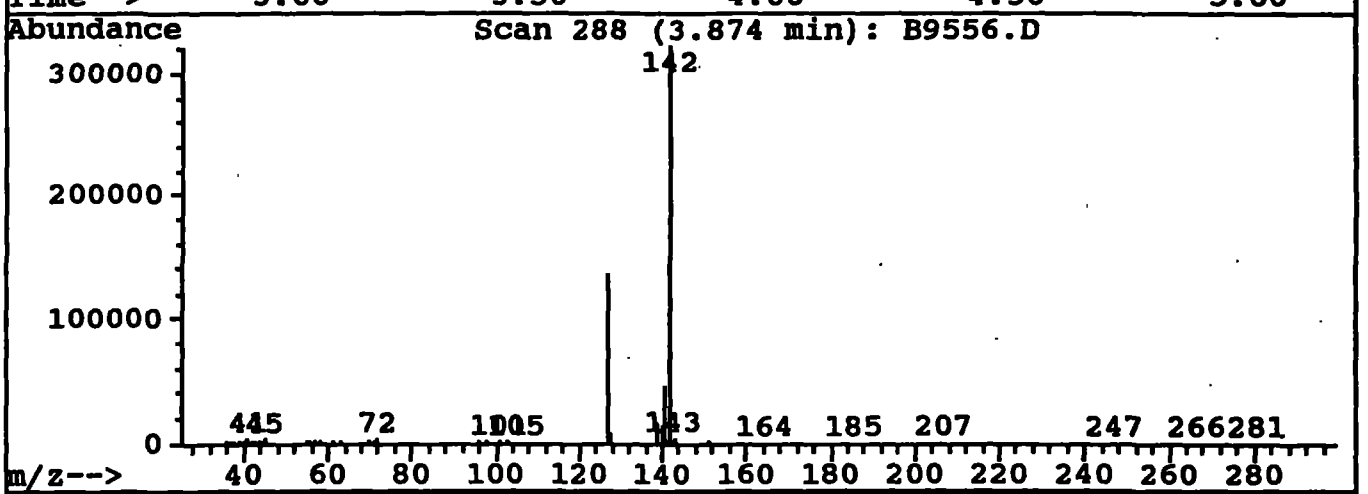
Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9556.D
Acq On : 1 Feb 102 2:05 pm
Sample : 150 PPB
Misc :
Quant Time: Feb 4 8:51 19102

Vial: 10
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:46:15 2002
Response via : Multiple Level Calibration



after @ 2/4



TIC: B9556.D

(13) Iodomethane
3.87min 146.61ug/Kg m
response 399397

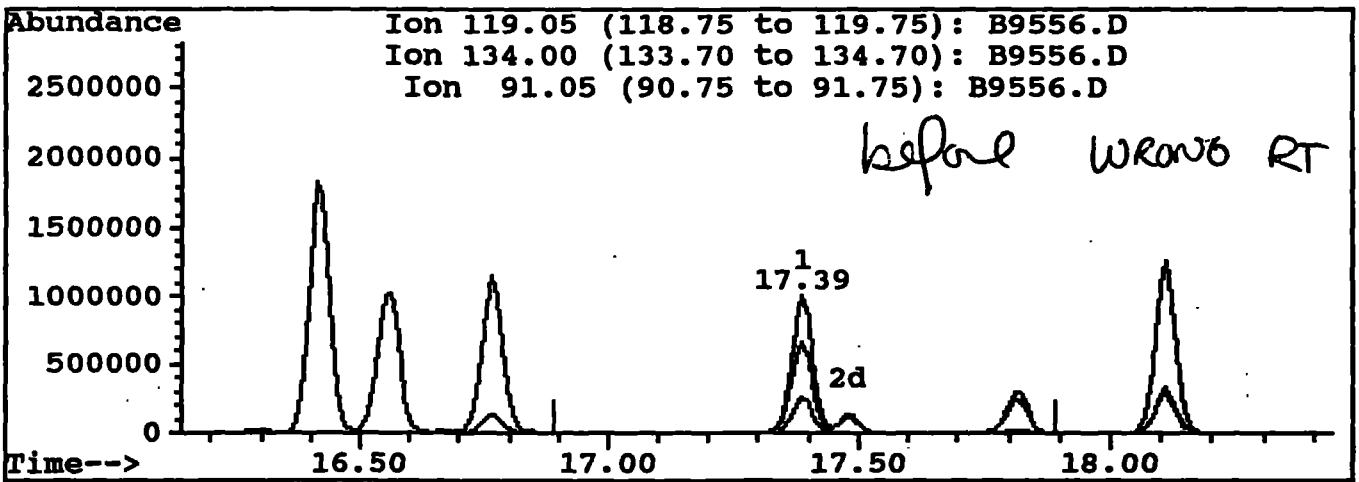
Ion	Exp%	Act%
127.00	100	100
142.00	222.30	241.64
0.00	0.00	0.00
0.00	0.00	0.00

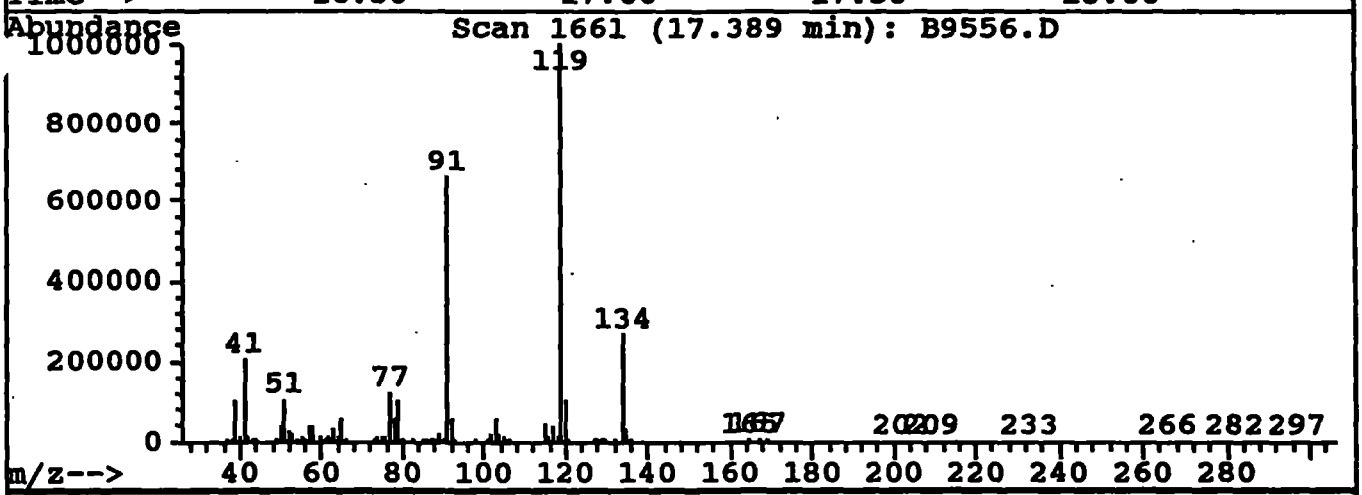
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9556.D
Acq On : 1 Feb 102 2:05 pm
Sample : 150 PPB
Misc :
Quant Time: Feb 1 14:41 19102

Vial: 10
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:46:15 2002
Response via : Multiple Level Calibration





TIC: B9556.D

(86) p-Isopropyltoluene
17.39min 158.37ug/Kg
response 2961539

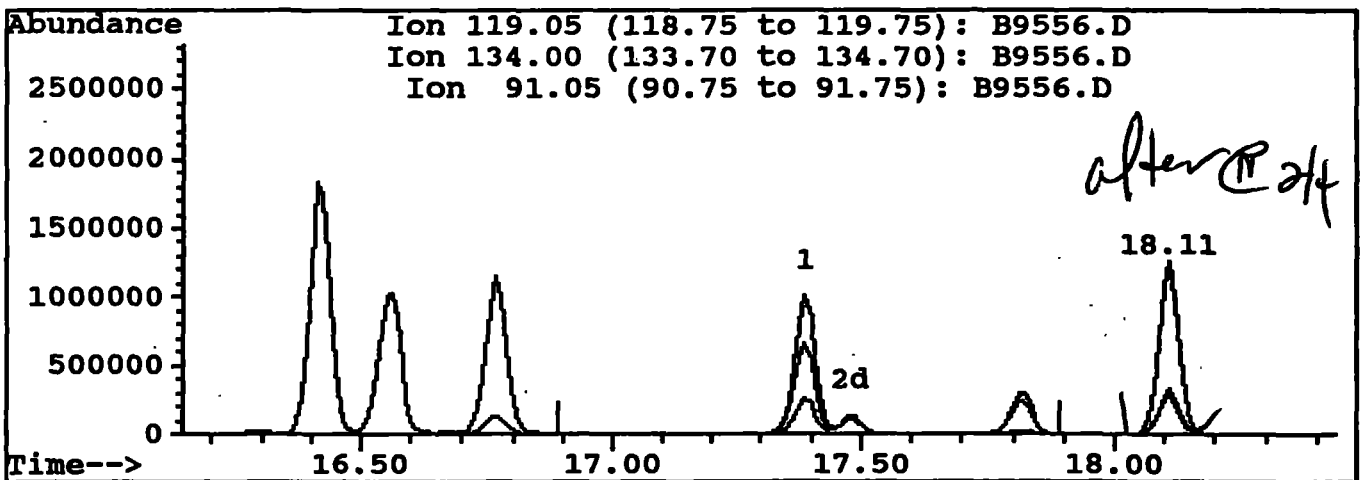
Ion	Exp%	Act%
119.05	100	100
134.00	26.30	26.48
91.05	65.80	65.95
0.00	0.00	0.00

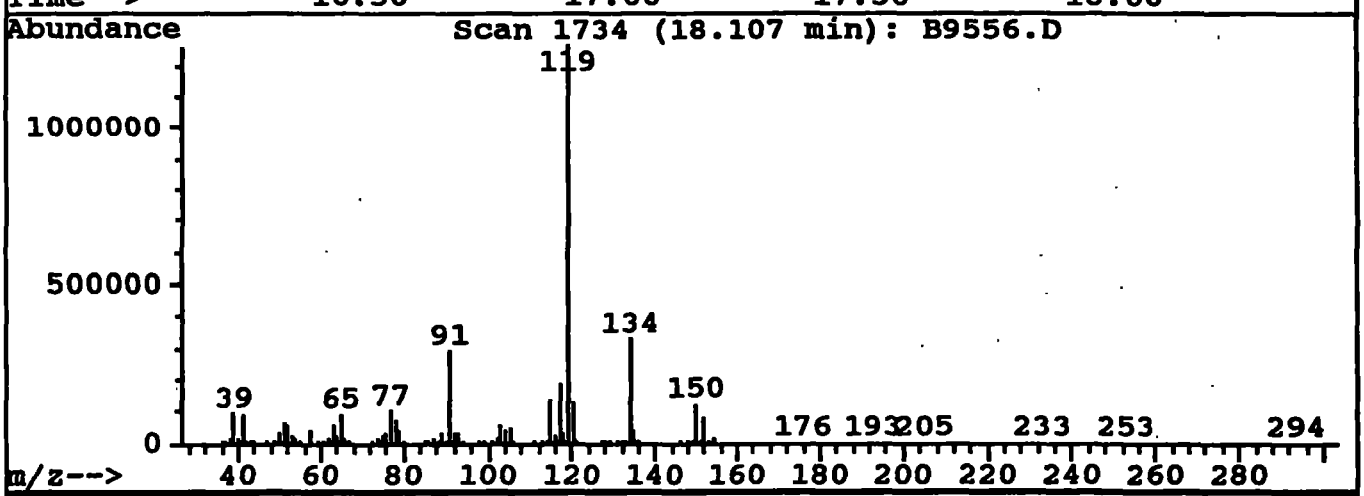
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9556.D
Acq On : 1 Feb 102 2:05 pm
Sample : 150 PPB
Misc :
Quant Time: Feb 4 8:48 19102

Vial: 10
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:46:15 2002
Response via : Multiple Level Calibration





TIC: B9556.D

(86) p-Isopropyltoluene
18.11min 195.50ug/Kg m
response 3655705

Ion	Exp%	Act%
119.05	100	100
134.00	26.30	25.82
91.05	65.80	22.94
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9557.D Vial: 11
Acq On : 1 Feb 102 2:41 pm Operator: TTRAVER
Sample : 200 PPB Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 4 8:54 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:55:04 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.41	168	701479	50.00	ug/Kg	0.00
35) 1,4 - Difluorobenzene	8.59	114	1363304	50.00	ug/Kg	0.00
52) d5 - Chlorobenzene	13.68	117	1061755	50.00	ug/Kg	0.00
74) d4 - Dichlorobenzene	18.13	152	420735	50.00	ug/Kg	0.00
System Monitoring Compounds						%Recovery
36) surr4,Dibrflmethane	7.28	113	1022423	158.16	ug/Kg	316.32%
58) surr3,Toluene-d8	11.10	98	3506341	142.98	ug/Kg	285.96%
59) surr2,bfb	15.90	95	1375991	139.90	ug/Kg	279.80%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.66	85	1764316	177.93	ug/Kgm	77
3) Chloromethane	1.87	50	2722898	167.54	ug/Kg	98
4) Vinyl Chloride	2.01	62	1860674	181.01	ug/Kg	99
5) Bromomethane	2.40	94	1090164	205.65	ug/Kg	96
6) Chloroethane	2.55	64	1203434	188.43	ug/Kgm	1
7) Trichlorofluoromethane	2.90	101	2143821	191.34	ug/Kg	99
8) Diethyl Ether	3.35	59	947764	176.05	ug/Kg	100
9) Acrolein	3.50	56	574138	807.67	ug/Kg	99
10) FREON 113	3.69	85	375387	172.89	ug/Kg	91
11) 1,1-Diclethene	3.66	96	1246096	206.81	ug/Kg	98
12) Acetone	3.75	43	315436	141.42	ug/Kg	99
13) Iodomethane	3.87	127	576386	240.81	ug/Kg	91
14) Carbon Disulfide	3.97	76	4073737	154.27	ug/Kg	98
15) Acetonitrile	4.16	41	687037	1916.11	ug/Kg	97
16) Allyl Chloride	4.23	76	720293	195.44	ug/Kg	96
17) Methylene Chloride	4.43	84	1482500	185.16	ug/Kg	95
18) TBA	4.68	59	2419375	3518.61	ug/Kg	98
19) Acrylonitrile	4.81	53	2023631	864.13	ug/Kg	99
20) Methyl-t-Butyl Ether	4.90	73	3097091	179.23	ug/Kg	98
21) trans-1,2-Dichloroethene	4.87	96	1267181	200.76	ug/Kg	98
22) 1,1-Diclethane	5.54	63	2387612	192.44	ug/Kg	100
23) Vinyl Acetate	5.67	43	2538616	157.04	ug/Kg	98
24) 2-Chloro-1,3-butadiene	5.70	53	2046897	144.57	ug/Kg	97
25) 2,2-Dichloropropane	6.49	77	1834734	189.96	ug/Kg	95
26) 2-Butanone	6.53	43	661102	155.27	ug/Kg	100
28) cis-1,2-Dichloroethene	6.50	96	1541819	199.78	ug/Kg	95
29) Propionitrile	6.60	54	894641	877.11	ug/Kg	98
30) Methacrylonitrile	6.86	67	434078	186.70	ug/Kg	97
31) Bromochloromethane	6.87	128	733650	189.97	ug/Kg	99
32) Chloroform	7.03	83	2163508	189.46	ug/Kg	97
33) Tetrahydrofuran	6.96	42	430798	150.16	ug/Kg	96
34) 1,1,1-Trichloroethane	7.31	97	1977677	192.14	ug/Kg	99
37) Carbontetrachloride	7.59	117	1710066	201.34	ug/Kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9557.D Vial: 11
Acq On : 1 Feb 102 2:41 pm Operator: TTRAVER
Sample : 200 PPB Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 4 8:54 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:55:04 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	1,1-Dichloropropene	7.59	75	2375541	193.23	ug/Kg	98
39)	Iso-Butyl Alcohol	8.45	43	2419037	3541.55	ug/Kg	100
40)	Benzene	7.92	78	6676209	184.92	ug/Kg	99
41)	1,2-Dichloroethane	7.94	62	1470692	179.35	ug/Kg	97
42)	N-Heptane	8.45	43	2408224	175.52	ug/Kg	99
43)	Trichloroethene	9.02	95	1796800	189.68	ug/Kg	99
44)	1,2-Diclpropane	9.37	63	1920843	189.27	ug/Kg	99
45)	Methyl Methacrylate	9.63	69	1023515	185.63	ug/Kg	100
46)	1,4-Dioxane	9.63	88	305430	3492.57	ug/Kg	91
47)	Dibromomethane	9.57	93	884276	189.26	ug/Kg	96
48)	Bromodichloromethane	9.85	83	1946072	198.08	ug/Kg	97
49)	2-Nitropropane	10.23	43	888384	375.32	ug/Kg	98
50)	2-Chloroethylvinyl Ether	10.40	63	635742	174.39	ug/Kg	100
51)	cis-1,3-Dichloropropene	10.63	75	2784911	192.73	ug/Kg	97
53)	4-Methyl-2-Pentanone	10.92	43	1811624	158.40	ug/Kg	98
54)	Toluene	11.22	91	6258793	187.33	ug/Kg	98
55)	trans-1,3-Dichloropropene	11.62	75	2396464	187.13	ug/Kg	99
56)	Ethyl Methacrylate	11.82	69	1815953	186.22	ug/Kg	100
57)	1,1,2-Trichloroethane	11.93	83	1249795	185.06	ug/Kg	98
60)	Tetrachloroethene	12.20	166	1551727	193.20	ug/Kg	95
61)	2-Hexanone	12.40	43	1260830	157.18	ug/Kg	96
62)	1,3-Dichloropropane	12.23	76	2748084	184.44	ug/Kg	94
63)	Dibromochloromethane	12.63	129	1658485	199.71	ug/Kg	99
64)	1,2-Dibromoethane	12.82	107	1566935	185.98	ug/Kg	97
65)	Chlorobenzene	13.73	112	4052416	185.85	ug/Kg	97
66)	1,1,1,2-Tetrachloroethane	13.90	131	1527126	194.80	ug/Kg	99
67)	Ethylbenzene	13.96	91	6607800	183.39	ug/Kg	97
68)	(m+p)Xylene	14.18	106	4871255	372.54	ug/Kg	96
69)	o-Xylene	14.92	106	2398296	187.71	ug/Kg	98
70)	Styrene	14.94	104	4101369	185.95	ug/Kg	99
71)	Bromoform	15.26	173	1020212	201.35	ug/Kg	99
72)	Isopropylbenzene	15.63	105	6249359	184.33	ug/Kg	97
73)	Cyclohexanone	15.75	55	4517475	3419.56	ug/Kg	99
75)	1,1,2,2-Tetrachloroethane	16.18	83	1787486	180.49	ug/Kg	99
76)	Trans-1,4-Dichloro-2-buten	16.30	53	502794	181.65	ug/Kg	92
77)	1,2,3-Trichloropropane	16.25	110	508969	183.49	ug/Kg	98
78)	n-Propylbenzene	16.42	91	7093336	179.67	ug/Kg	97
79)	Bromobenzene	16.16	156	1476142	190.72	ug/Kg	98
80)	1,3,5-Trimethylbenzene	16.76	105	4386806	182.66	ug/Kg#	47
81)	2-Chlorotoluene	16.56	91	4172953	179.64	ug/Kg	99
82)	4-Chlorotoluene	16.76	91	4627477	180.59	ug/Kg	99
83)	tert-Butylbenzene	17.38	119	4041918	185.06	ug/Kg	99
84)	1,2,4-Trimethylbenzene	17.48	105	4229744	177.69	ug/Kg	96
85)	sec-Butylbenzene	17.82	105	6386271	182.63	ug/Kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9557.D
Acq On : 1 Feb 102 2:41 pm
Sample : 200 PPB
Misc :
Quant Time: Feb 4 8:54 19102

Vial: 11
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:55:04 2002
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
86) p-Isopropyltoluene	18.11	119	4942205	226.28 ug/Kgm	99
87) 1,3-Dclbenz	18.00	146	2258717	187.16 ug/Kg	98
88) 1,4-Dclbenz	18.17	146	2439379	185.62 ug/Kgm	0
89) n-Butylbenzene	18.91	91	4584448	176.74 ug/Kg	98
90) 1,2-Dclbenz	18.89	146	2227337	183.56 ug/Kg	98
91) 1,2-Dibromo-3-chloropropan	20.42	157	283068	194.78 ug/Kg	97
92) Nitrobenzene	20.81	77	140425	233.01 ug/Kg	98
93) 1,2,4-Tcbenzene	22.08	180	1334554	186.57 ug/Kg	97
94) Hexachlorobt	22.45	225	796511	185.41 ug/Kgm	44
95) Naphthalen	22.54	128	2730447	189.56 ug/Kg	96
96) 1,2,3-Tclbenzene	23.03	180	1169715	184.31 ug/Kg	98

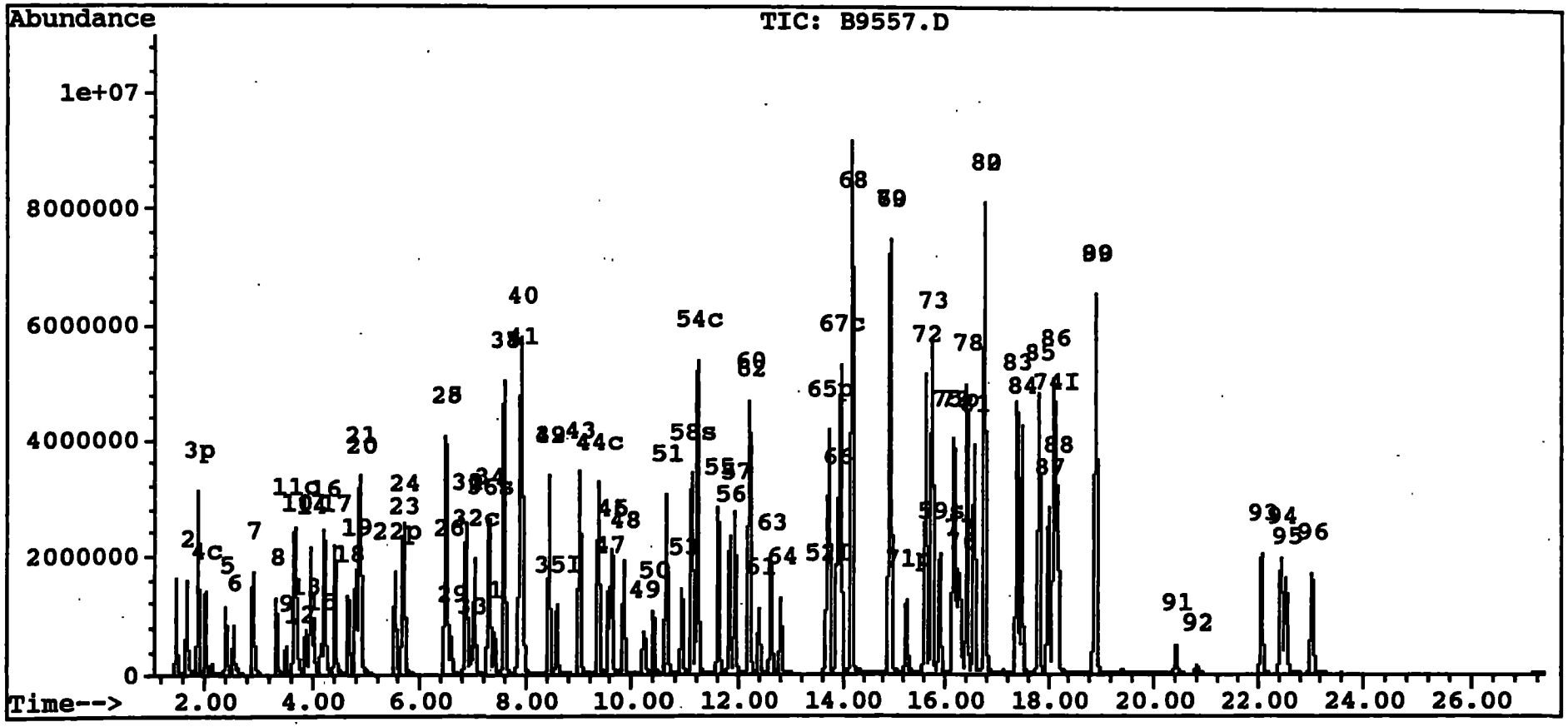
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9557.D
Acq On : 1 Feb 102 2:41 pm
Sample : 200 PPB
Misc :
Quant Time: Feb 4 8:54 19102

Vial: 11
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:55:04 2002
Response via : Multiple Level Calibration

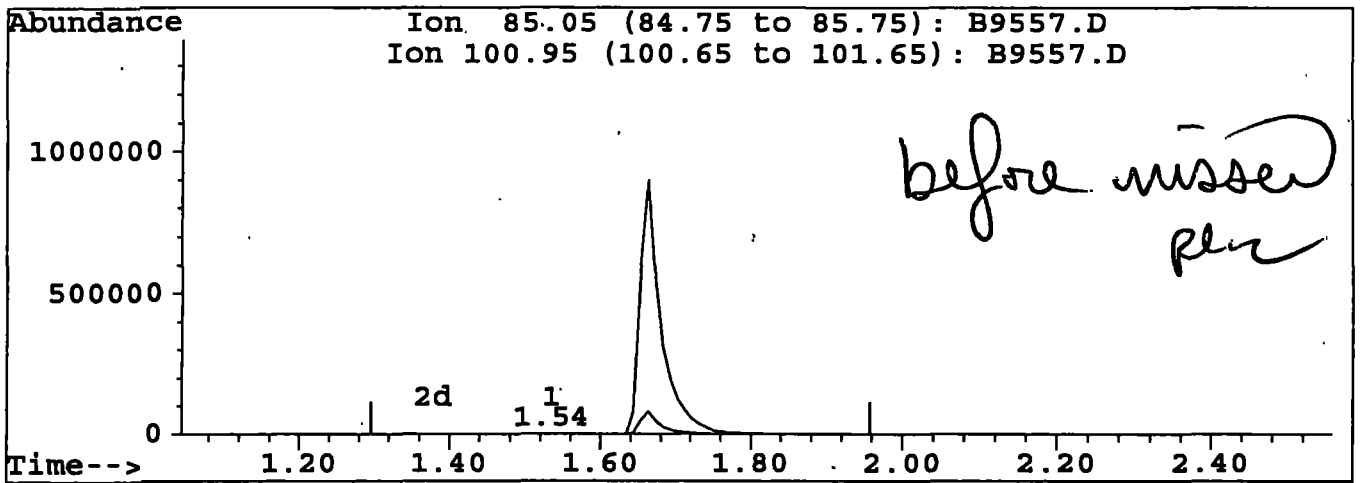


411

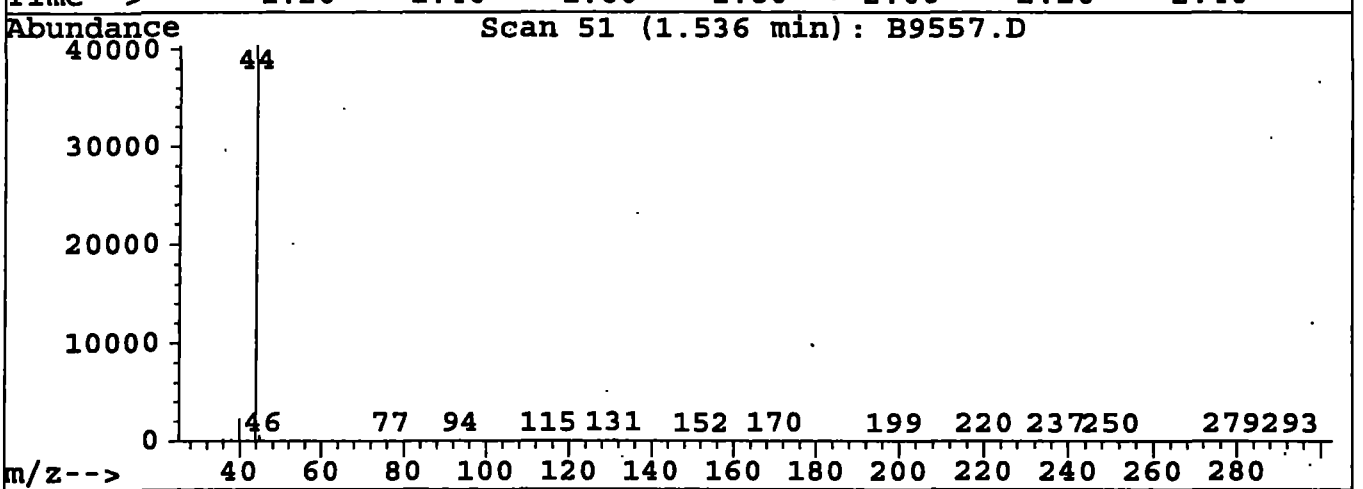
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9557.D Vial: 11
Acq On : 1 Feb 102 2:41 pm Operator: TTRAVER
Sample : 200 PPB Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 1 15:09 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 14:44:01 2002
Response via : Multiple Level Calibration



before missed
RLR



TIC: B9557.D

(2) Dichlorodifluoromethane
1.54min 0.01ug/Kg
response 73

Ion	Exp%	Act%
85.05	100	100
100.95	8.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

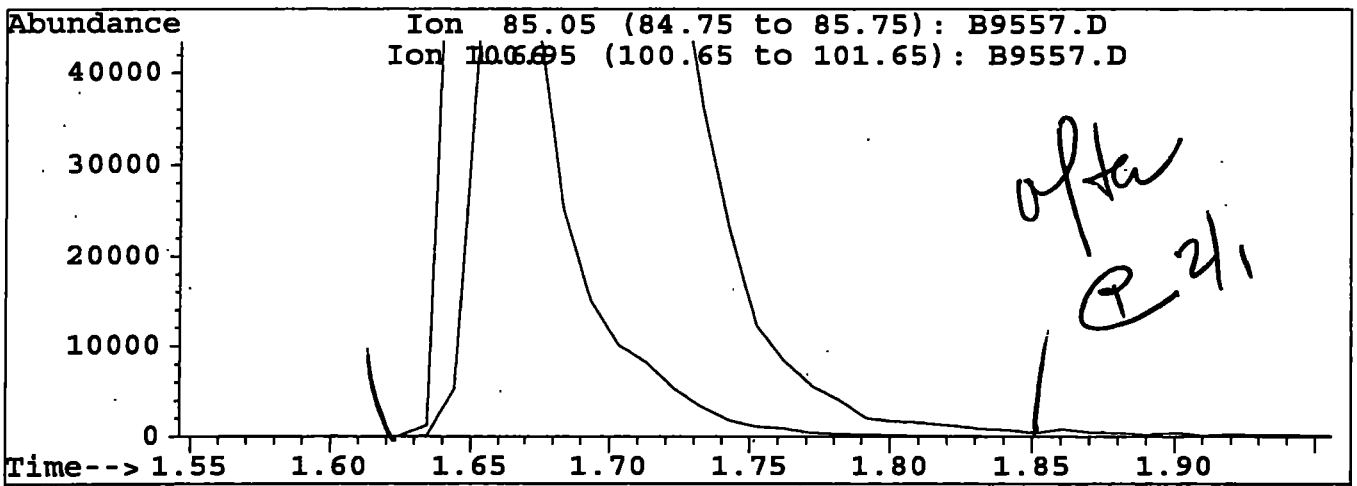
B9557.D SOL0201.M Fri Feb 01 15:11:27 2002

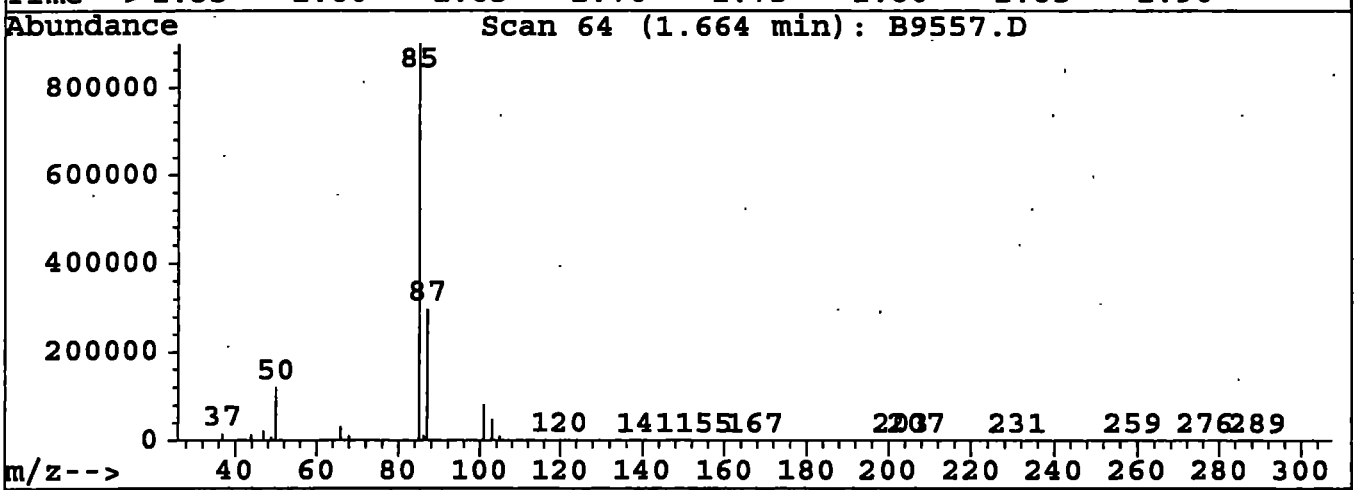
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9557.D
Acq On : 1 Feb 102 2:41 pm
Sample : 200 PPB
Misc :
Quant Time: Feb 1 15:11 19102

Vial: 11
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 14:44:01 2002
Response via : Multiple Level Calibration





TIC: B9557.D

(2) Dichlorodifluoromethane
1.66min 177.93ug/Kg m
response 1764316

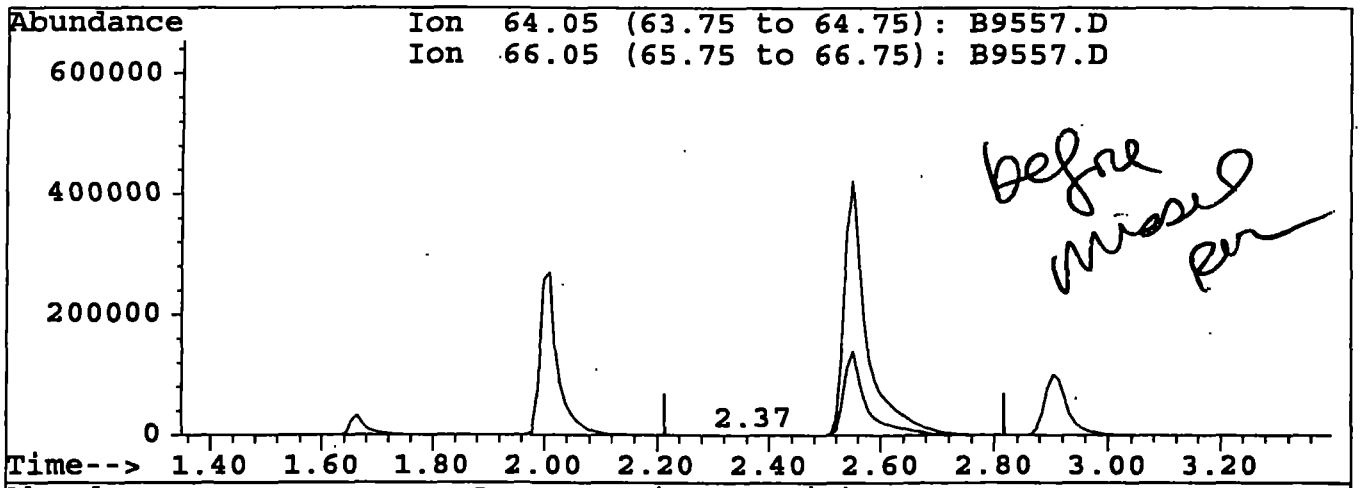
Ion	Exp%	Act%
85.05	100	100
100.95	8.10	8.93
0.00	0.00	0.00
0.00	0.00	0.00

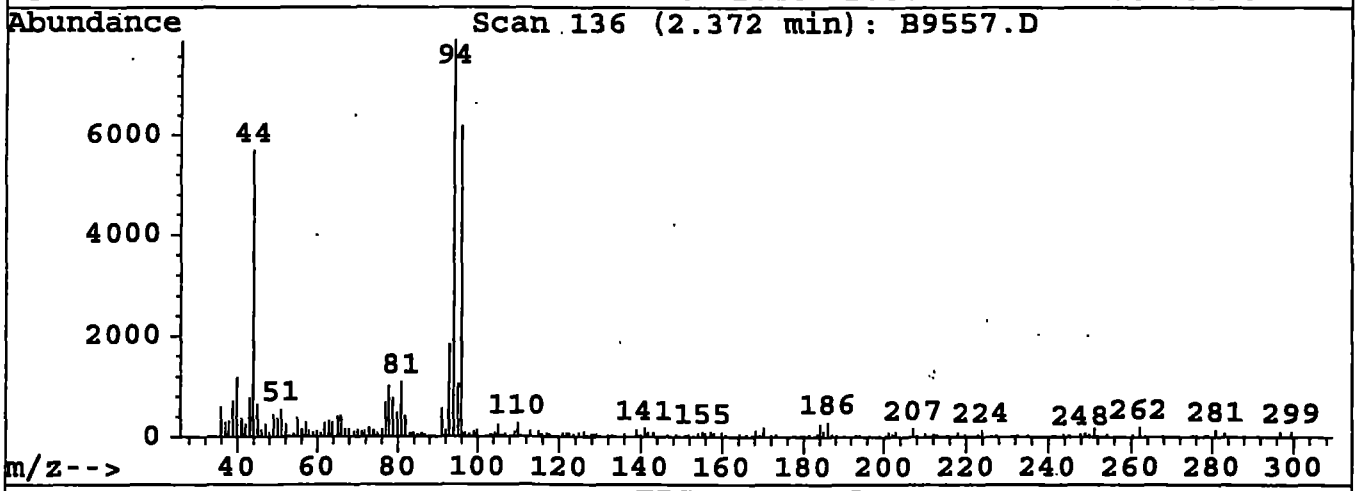
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9557.D
Acq On : 1 Feb 102 2:41 pm
Sample : 200 PPB
Misc :
Quant Time: Feb 1 15:11 19102

Vial: 11
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 14:44:01 2002
Response via : Multiple Level Calibration





TIC: B9557.D

(6) Chloroethane
2.37min 0.04ug/Kg
response 248

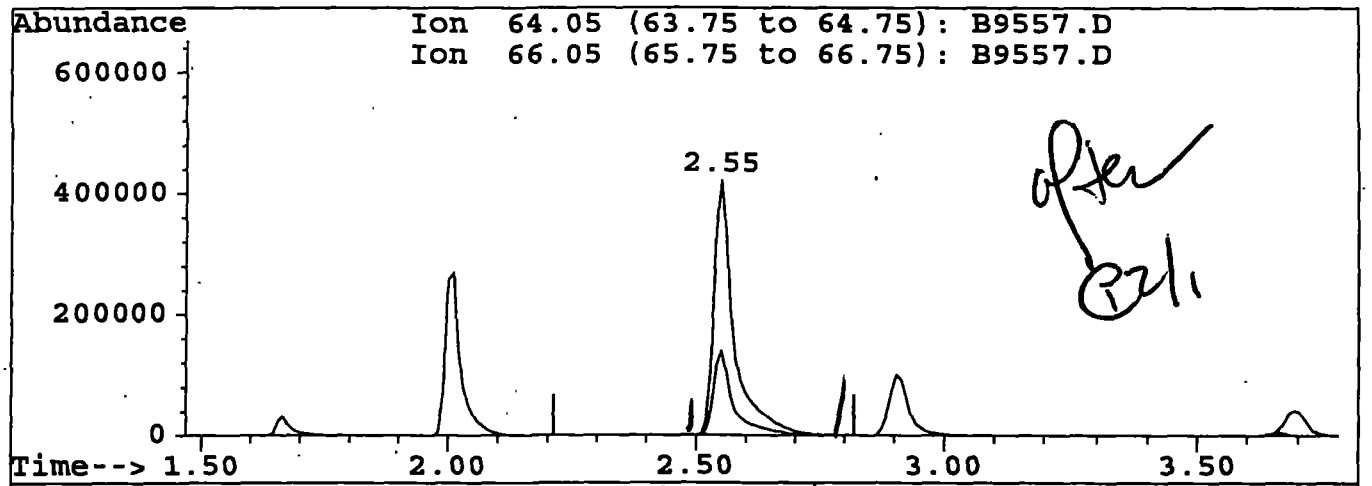
Ion	Exp%	Act%
64.05	100	100
66.05	31.90	147.06#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

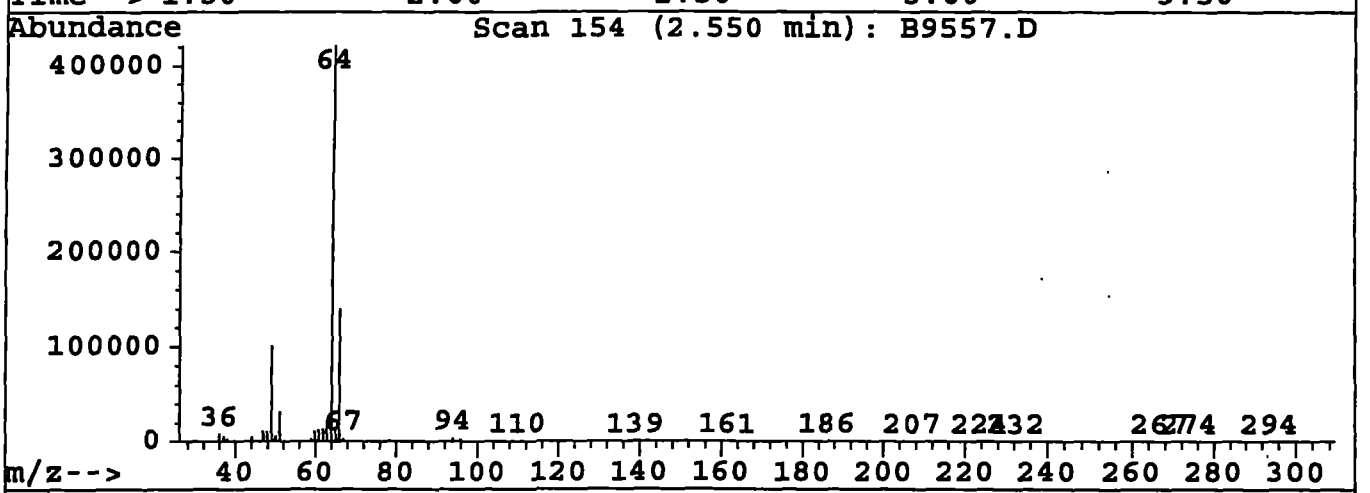
Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9557.D
Acq On : 1 Feb 102 2:41 pm
Sample : 200 PPB
Misc :
Quant Time: Feb 1 15:12 19102

Vial: 11
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 14:44:01 2002
Response via : Multiple Level Calibration



after 2/1



TIC: B9557.D

(6) Chloroethane
2.55min 188.43ug/Kg m
response 1203434

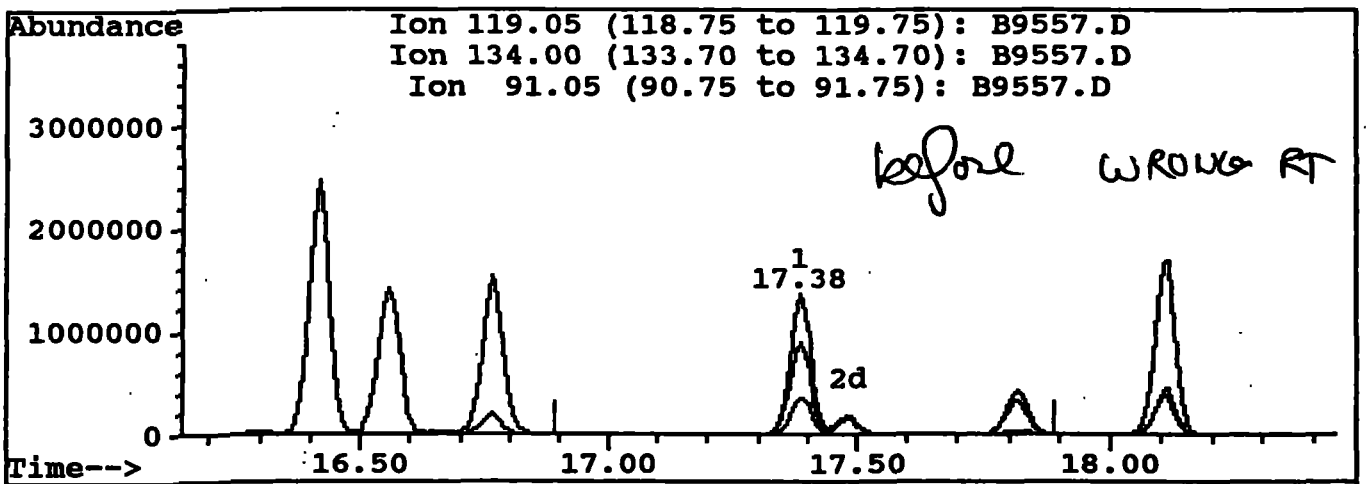
Ion	Exp%	Act%
64.05	100	100
66.05	31.90	33.04
0.00	0.00	0.00
0.00	0.00	0.00

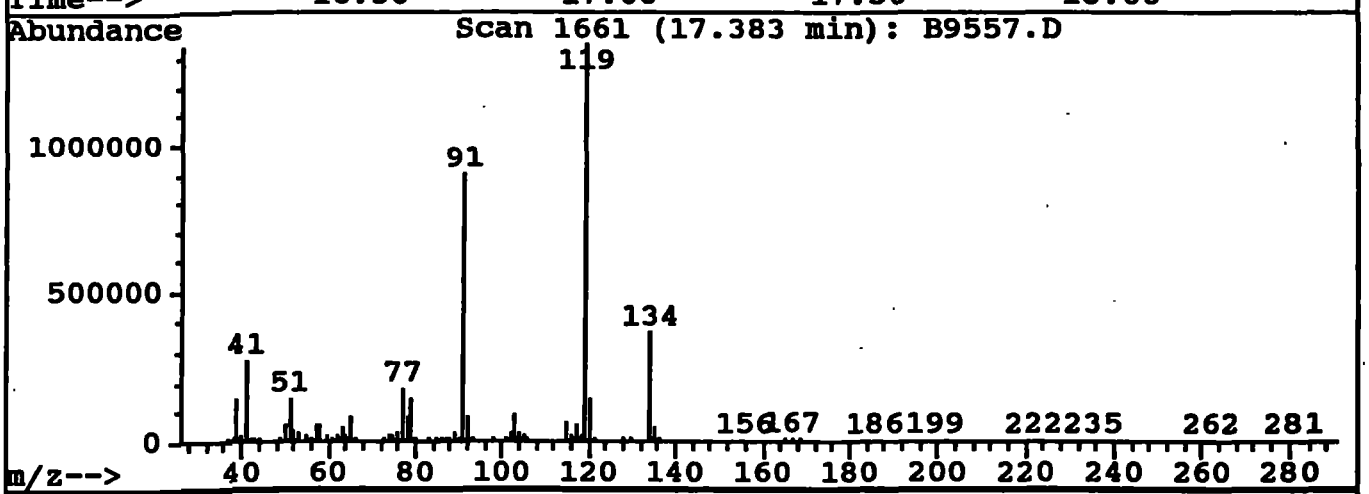
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9557.D
Acq On : 1 Feb 102 2:41 pm
Sample : 200 PPB
Misc :
Quant Time: Feb 1 15:13 19102

Vial: 11
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:53:08 2002
Response via : Multiple Level Calibration





TIC: B9557.D

(86) p-Isopropyltoluene
17.38min 185.06ug/Kg
response 4041918

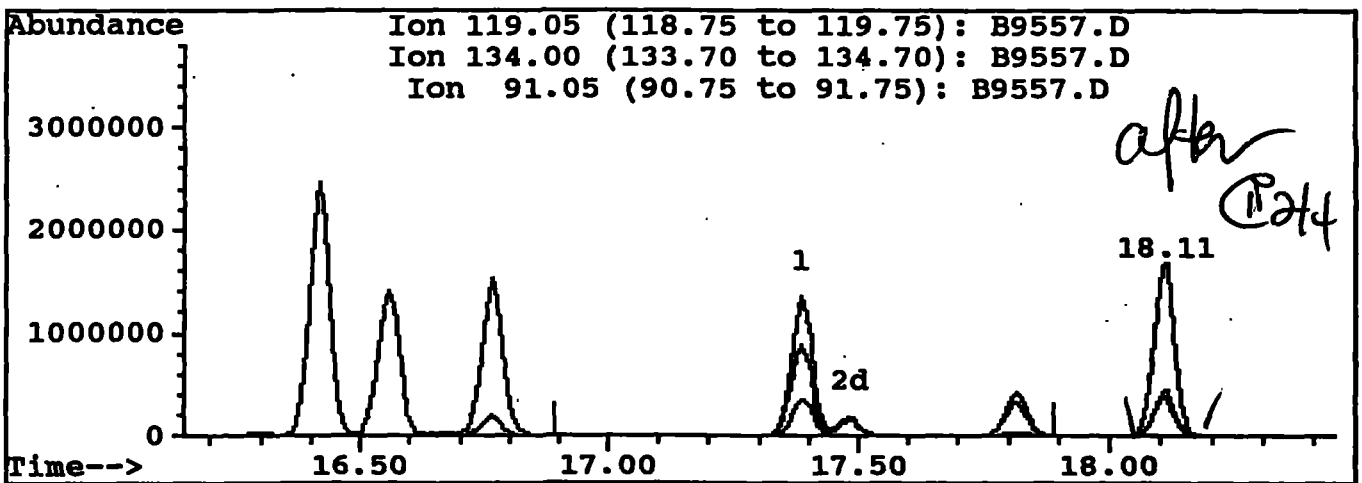
Ion	Exp%	Act%
119.05	100	100
134.00	26.30	26.64
91.05	65.80	66.73
0.00	0.00	0.00

Quantitation Report

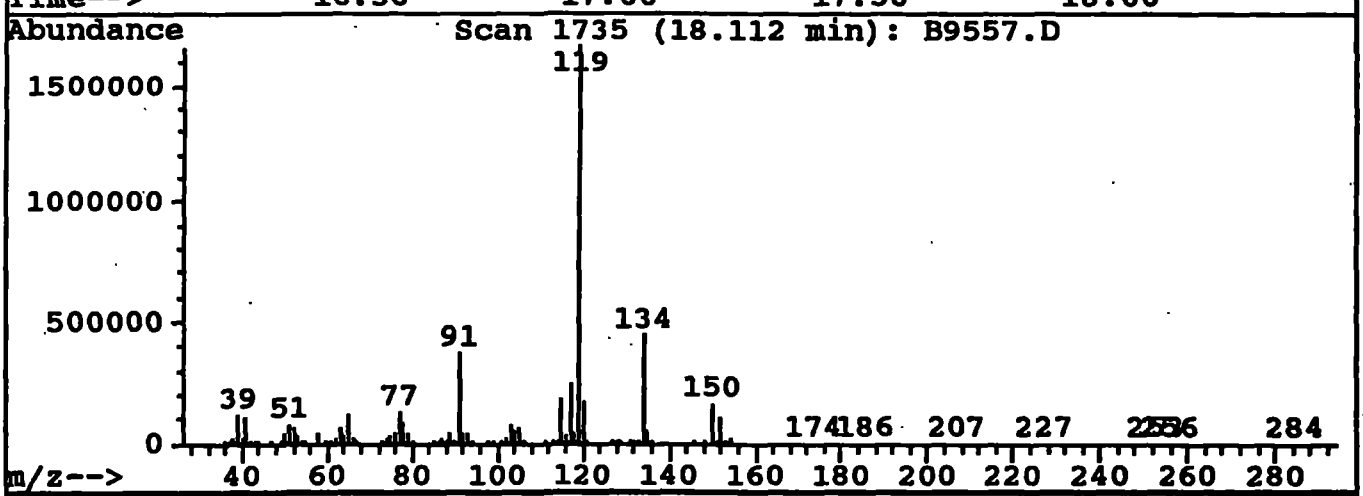
Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9557.D
Acq On : 1 Feb 102 2:41 pm
Sample : 200 PPB
Misc :
Quant Time: Feb 4 8:54 19102

Vial: 11
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 08:53:08 2002
Response via : Multiple Level Calibration



after P2/4



TIC: B9557.D

(86) p-Isopropyltoluene
18.11min 226.28ug/Kg m
response 4942205

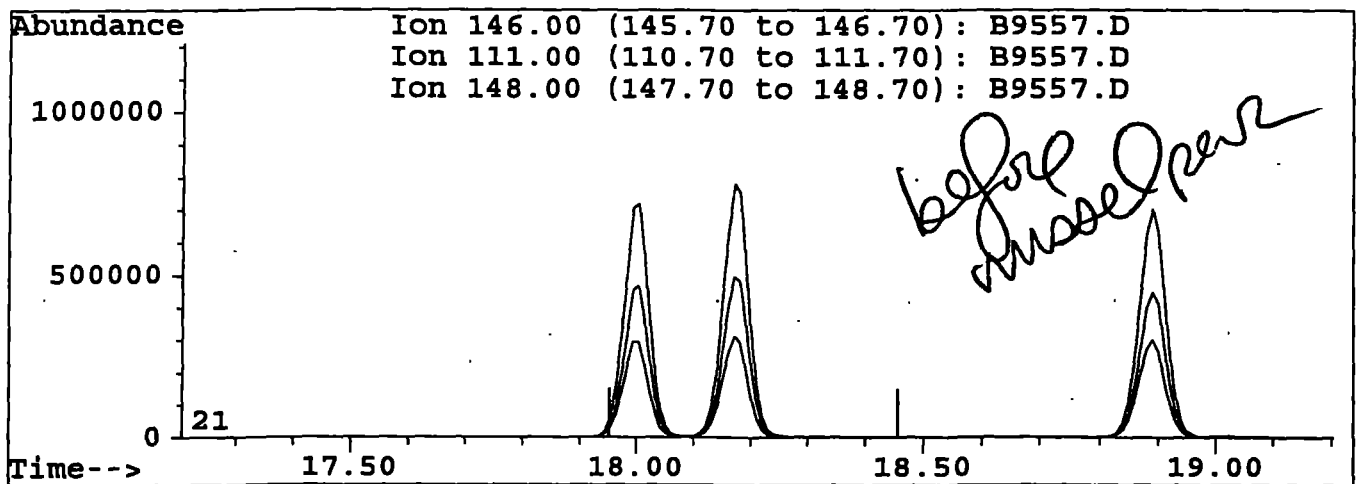
Ion	Exp%	Act%
119.05	100	100
134.00	26.30	26.53
91.05	65.80	22.24
0.00	0.00	0.00

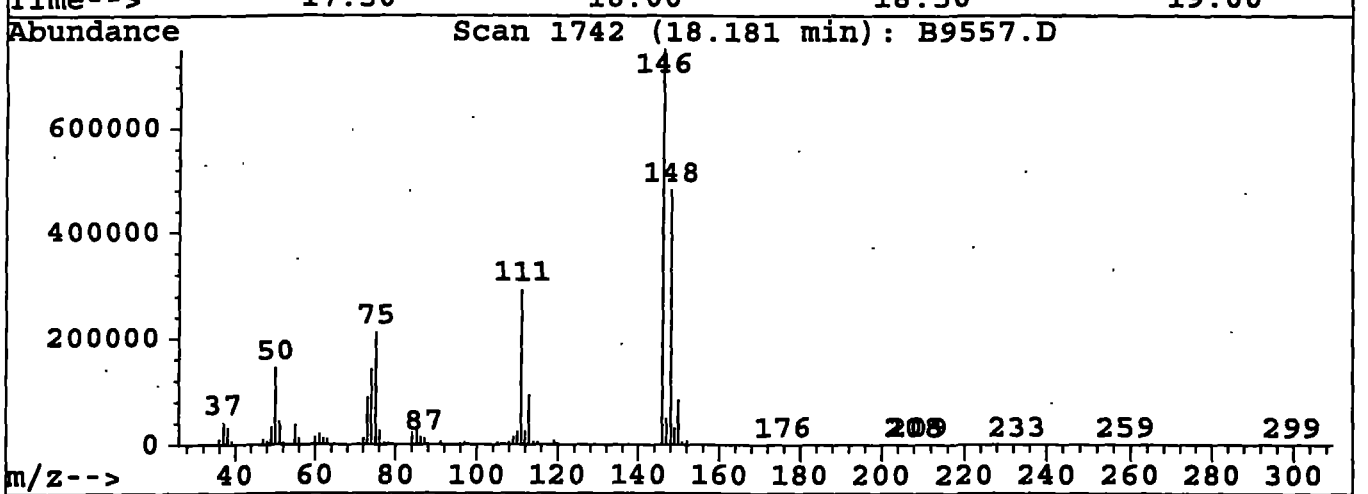
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9557.D
Acq On : 1 Feb 102 2:41 pm
Sample : 200 PPB
Misc :
Quant Time: Feb 1 15:12 19102

Vial: 11
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 14:44:01 2002
Response via : Multiple Level Calibration





TIC: B9557.D

(88) 1,4-Dclbenz
18.18min 0.00ug/Kg d
response 0

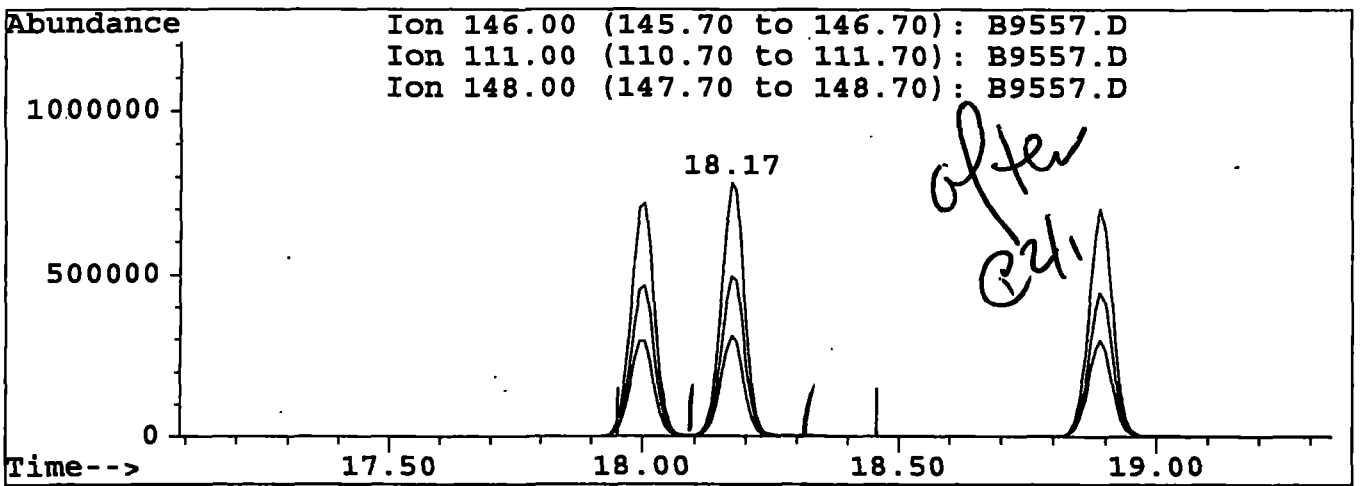
Ion	Exp%	Act%
146.00	100	0.00
111.00	40.30	0.00#
148.00	62.20	0.00#
0.00	0.00	0.00

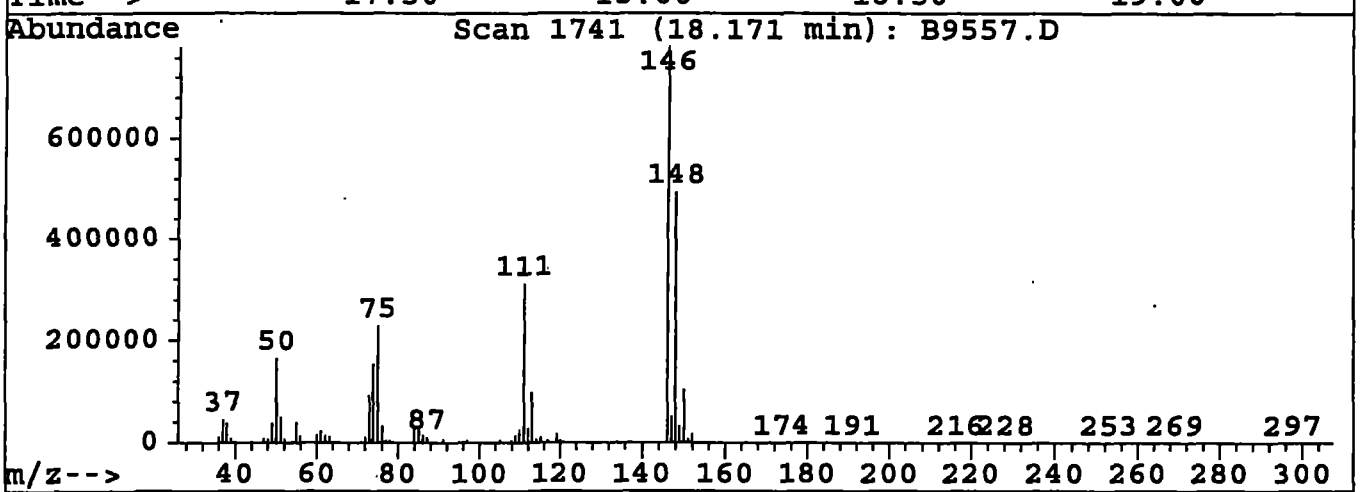
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9557.D
Acq On : 1 Feb 102 2:41 pm
Sample : 200 PPB
Misc :
Quant Time: Feb 1 15:12 19102

Vial: 11
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 14:44:01 2002
Response via : Multiple Level Calibration





TIC: B9557.D

(88) 1,4-Dclbenz
18.17min 185.62ug/Kg m
response 2439379

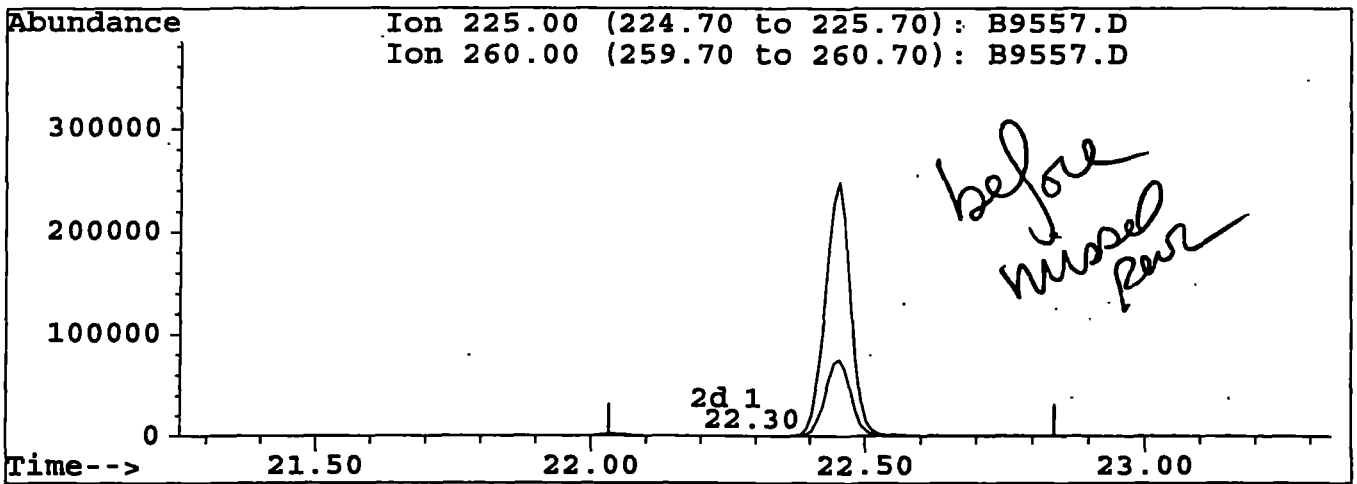
Ion	Exp%	Act%
146.00	100	100
111.00	40.30	39.89
148.00	62.20	63.27
0.00	0.00	0.00

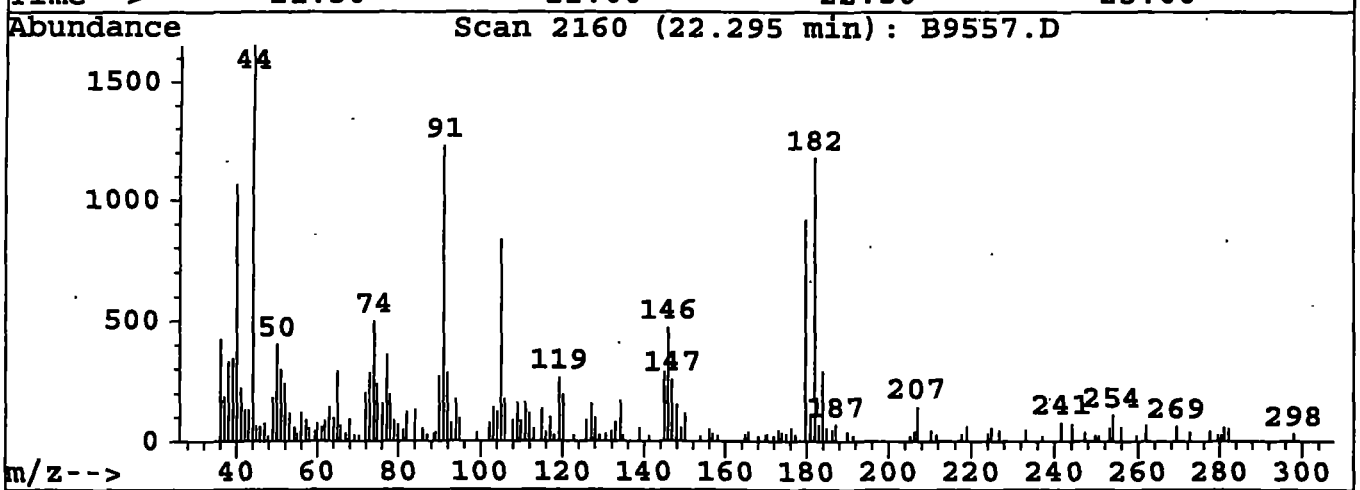
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9557.D
Acq On : 1 Feb 102 2:41 pm
Sample : 200 PPB
Misc :
Quant Time: Feb 1 15:12 19102

Vial: 11
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 14:44:01 2002
Response via : Multiple Level Calibration





TIC: B9557.D

(94) Hexachlorobt
22.30min 0.02ug/Kg
response 90

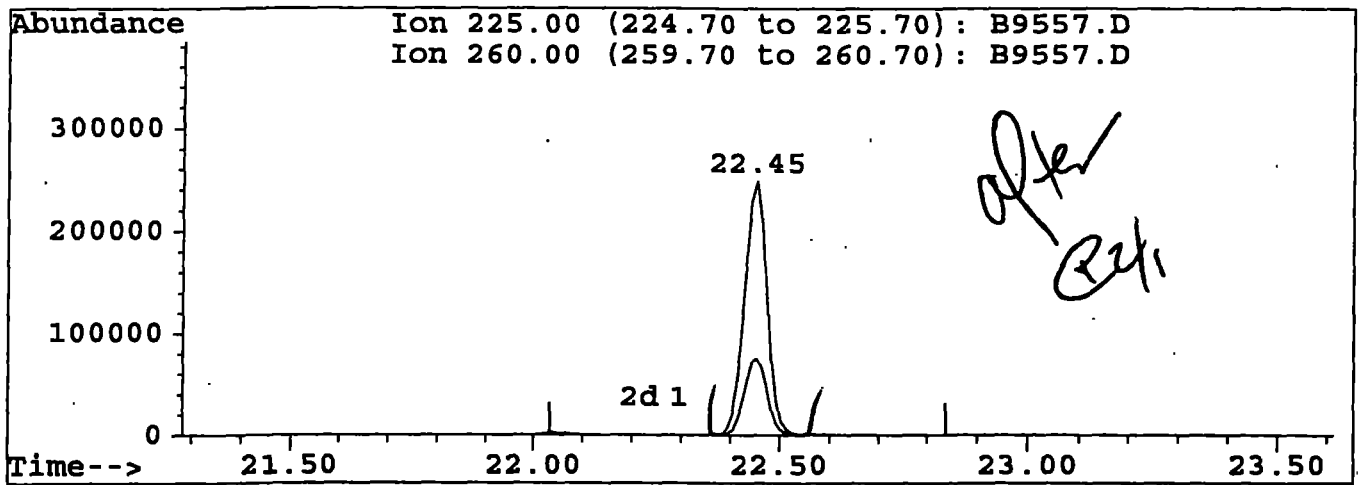
Ion	Exp%	Act%
225.00	100	100
260.00	30.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

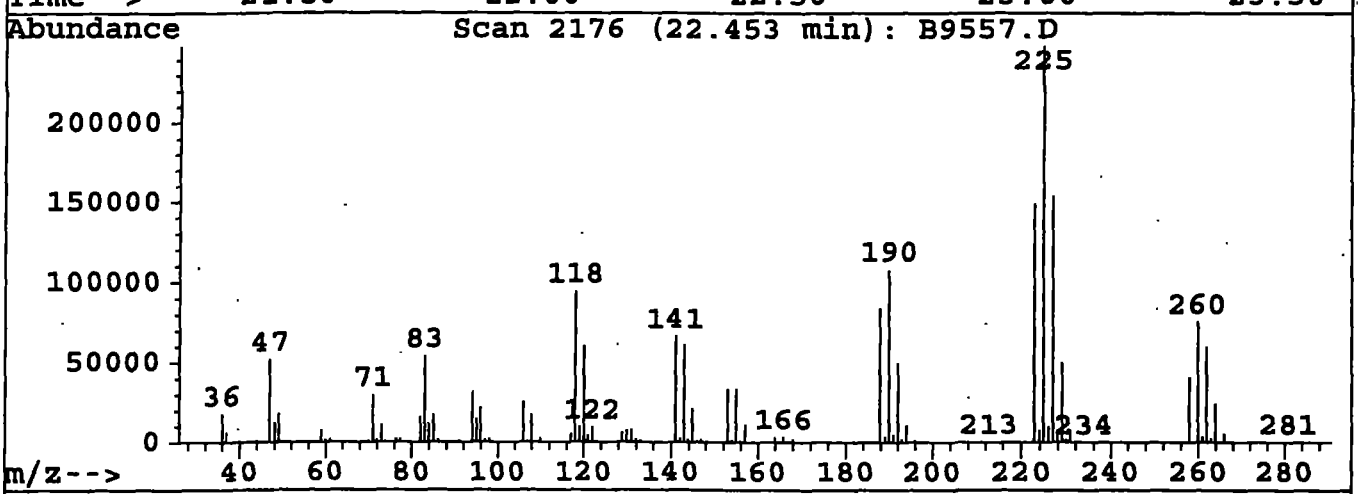
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9557.D
Acq On : 1 Feb 102 2:41 pm
Sample : 200 PPB
Misc :
Quant Time: Feb 1 15:13 19102

Vial: 11
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 14:44:01 2002
Response via : Multiple Level Calibration





TIC: B9557.D

(94) Hexachlorobt
22.45min 185.41ug/Kg m
response 796511

Ion	Exp%	Act%
225.00	100	100
260.00	30.60	30.38
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9554.D Vial: 8
Acq On : 1 Feb 102 12:54 pm Operator: TTRAVER
Sample : 50 PPB Inst : 5971 - In
Misc : Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 16:47:49 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	1.000	1.000	0.0	100	0.00
2		Dichlorodifluoromethane	0.659	0.726	-10.3	100	0.00
3	p	Chloromethane	1.087	1.174	-8.0	100	0.00
4	c	Vinyl Chloride	0.691	0.756	-9.4	100	0.00
5		Bromomethane	0.366	0.396	-8.1	100	0.00
6		Chloroethane	0.441	0.487	-10.5	100	0.00
7		Trichlorofluoromethane	0.744	0.822	-10.5	100	0.00
8		Diethyl Ether	0.353	0.386	-9.2	100	0.00
9		Acrolein	0.043	0.047	-8.5	100	0.00
10		FREON 113	0.133	0.153	-14.7	100	0.00
11	c	1,1-Diclethene	0.405	0.441	-9.1	100	0.00
12		Acetone	0.125	0.138	-10.6	100	0.00
13		Iodomethane	0.177	0.186	-5.2	100	0.00
1[illegible]		Carbon Disulfide	1.622	1.749	-7.8	100	0.00
1[illegible]		Acetonitrile	0.012	0.012	-4.2	100	0.00
16		Allyl Chloride	0.250	0.270	-8.0	100	0.00
17		Methylene Chloride	0.543	0.568	-4.5	100	0.00
18		TBA	0.046	0.048	-3.7	100	0.00
19		Acrylonitrile	0.153	0.165	-8.0	100	0.00
20		Methyl-t-Butyl Ether	1.138	1.234	-8.5	100	0.00
21		trans-1,2-Dichloroethene	0.425	0.458	-7.6	100	0.00
22	p	1,1-Diclethane	0.820	0.886	-8.0	100	0.00
23		Vinyl Acetate	0.967	1.084	-12.1	100	0.00
24		2-Chloro-1,3-butadiene	0.861	0.962	-11.7	100	0.00
25		2,2-Dichloropropane	0.630	0.706	-12.2	100	0.00
26		2-Butanone	0.256	0.274	-7.0	100	0.00
27		Ethyl Acetate	0.000	0.000	0.0	0#	0.00
28		cis-1,2-Dichloroethene	0.525	0.564	-7.4	100	0.00
29		Propionitrile	0.068	0.072	-5.3	100	0.00
30		Methacrylonitrile	0.158	0.167	-5.6	100	0.00
31		Bromochloromethane	0.264	0.275	-4.2	100	0.00
32	c	Chloroform	0.770	0.822	-6.7	100	0.00
33		Tetrahydrofuran	0.176	0.175	0.4	100	0.00
34		1,1,1-Trichloroethane	0.679	0.767	-13.0	100	0.00
35	I	1,4 - Difluorobenzene	1.000	1.000	0.0	100	0.00
36	s	surr4,Dibrflmethane	0.240	0.244	-1.7	100	0.00
37		Carbontetrachloride	0.286	0.315	-10.2	100	0.00
38		1,1-Dichloropropene	0.427	0.466	-9.2	100	0.00
3[illegible]		Iso-Butyl Alcohol	0.023	0.025	-9.3	100	0.00
40		Benzene	1.269	1.347	-6.2	100	0.00
41		1,2-Dichloroethane	0.281	0.296	-5.2	100	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9554.D Vial: 8
Acq On : 1 Feb 102 12:54 pm Operator: TTRAVER
Sample : 50 PPB Inst : 5971 - In
Misc : Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 16:47:49 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42		N-Heptane	0.451	0.500	-10.8	100	0.00
43		Trichloroethene	0.328	0.345	-5.1	100	0.00
44	c	1,2-Diclpropane	0.358	0.380	-6.0	100	0.00
45		Methyl Methacrylate	0.195	0.198	-1.1	100	0.00
46		1,4-Dioxane	0.003	0.003	4.7	100	0.00
47		Dibromomethane	0.163	0.167	-2.3	100	0.00
48		Bromodichloromethane	0.349	0.361	-3.6	100	0.00
49		2-Nitropropane	0.082	0.086	-4.3	100	0.00
50		2-Chloroethylvinyl Ether	0.121	0.119	1.7	100	0.00
51		cis-1,3-Dichloropropene	0.513	0.531	-3.5	100	0.00
52	I	d5 - Chlorobenzene	1.000	1.000	0.0	100	0.00
53		4-Methyl-2-Pentanone	0.466	0.500	-7.4	100	0.00
54	c	Toluene	1.502	1.566	-4.3	100	0.00
		trans-1,3-Dichloropropene	0.584	0.605	-3.7	100	0.00
[illegible]		Ethyl Methacrylate	0.443	0.458	-3.6	100	0.00
57		1,1,2-Trichloroethane	0.310	0.324	-4.6	100	0.00
58	s	surr3,Toluene-d8	1.144	1.222	-6.8	100	0.00
59	s	surr2,bfb	0.457	0.479	-4.8	100	0.00
60		Tetrachloroethene	0.360	0.379	-5.2	100	0.00
61		2-Hexanone	0.334	0.349	-4.6	100	0.00
62		1,3-Dichloropropane	0.679	0.704	-3.8	100	0.00
63		Dibromochloromethane	0.385	0.386	-0.1	100	0.00
64		1,2-Dibromoethane	0.389	0.392	-0.7	100	0.00
65	p	Chlorobenzene	0.994	1.011	-1.7	100	0.00
66		1,1,1,2-Tetrachloroethane	0.359	0.369	-2.8	100	0.00
67	c	Ethylbenzene	1.607	1.693	-5.3	100	0.00
68		(m+p)Xylene	0.590	0.613	-3.9	100	0.00
69		o-Xylene	0.587	0.607	-3.3	100	0.00
70		Styrene	1.010	1.025	-1.5	100	0.00
71	p	Bromoform	0.239	0.237	0.6	100	0.00
72		Isopropylbenzene	1.525	1.598	-4.8	100	0.00
73		Cyclohexanone	0.000	0.000	0.0	100	0.00
74	I	d4 - Dichlorobenzene	1.000	1.000	0.0	100	0.00
75	p	1,1,2,2-Tetrachloroethane	1.140	1.142	-0.2	100	0.00
76		Trans-1,4-Dichloro-2-butene	0.314	0.320	-1.8	100	0.00
77		1,2,3-Trichloropropane	0.320	0.322	-0.6	100	0.00
78		n-Propylbenzene	4.381	4.540	-3.6	100	0.00
7		Bromobenzene	0.912	0.868	4.8	100	0.00
8		1,3,5-Trimethylbenzene	2.704	2.759	-2.1	100	0.00
81		2-Chlorotoluene	2.615	2.670	-2.1	100	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9554.D Vial: 8
Acq On : 1 Feb 102 12:54 pm Operator: TTRAVER
Sample : 50 PPB Inst : 5971 - In
Misc : Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 16:47:49 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82	4-Chlorotoluene	2.890	2.884	0.2	100	0.00
83	tert-Butylbenzene	2.460	2.581	-4.9	100	0.00
84	1,2,4-Trimethylbenzene	2.681	2.730	-1.8	100	0.00
85	sec-Butylbenzene	3.917	4.162	-6.3	100	0.00
86	p-Isopropyltoluene	2.460	2.581	-4.9	100	0.00
87	1,3-Dclbenz	1.415	1.433	-1.3	100	0.00
88	1,4-Dclbenz	1.525	1.528	-0.1	100	0.00
89	n-Butylbenzene	2.863	3.052	-6.6	100	0.00
90	1,2-Dclbenz	1.408	1.435	-1.9	100	0.00
91	1,2-Dibromo-3-chloropropane	0.172	0.171	0.3	100	0.00
92	Nitrobenzene	0.073	0.060	17.7	100	0.00
93	1,2,4-Tcbenzene	0.839	0.848	-1.1	100	0.00
94	Hexachlorobt	0.489	0.526	-7.6	100	0.00
95	Naphthalen	1.820	1.732	4.8	100	0.00
	1,2,3-Tclbenzene	0.742	0.744	-0.3	100	0.00
97	TOTAL XYLENE	0.000	0.000	0.0	0#	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9554.D Vial: 8
Acq On : 1 Feb 102 12:54 pm Operator: TTRAVER
Sample : 50 PPB Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 1 13:22 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.41	168	572524	50.00	ug/Kg	0.01
35) 1,4 - Difluorobenzene	8.59	114	1172328	50.00	ug/Kg	0.01
52) d5 - Chlorobenzene	13.68	117	904626	50.00	ug/Kg	0.01
74) d4 - Dichlorobenzene	18.13	152	373691	50.00	ug/Kg	0.02
System Monitoring Compounds						**%Recovery**
36) surr4,Dibrflmethane	7.29	113	285627	38.01	ug/Kg	76.02%
58) surr3,Toluene-d8	11.10	98	1105025	57.30	ug/Kg	114.61%
59) surr2,bfb	15.90	95	433176	57.02	ug/Kg	114.05%
Target Compounds						**Qvalue**
2) Dichlorodifluoromethane	1.66	85	415827	85.30	ug/Kg	97
3) Chloromethane	1.88	50	672325	104.06	ug/Kg	98
4) Vinyl Chloride	2.01	62	432928	78.02	ug/Kg	97
5) Bromomethane	2.41	94	226599	58.55	ug/Kg	94
6) Chloroethane	2.55	64	278902	80.30	ug/Kg	99
7) Trichlorofluoromethane	2.91	101	470870	76.67	ug/Kg	98
8) Diethyl Ether	3.35	59	220889	40.09	ug/Kg	95
9) Acrolein	3.51	56	134154	108.67	ug/Kg	94
10) FREON 113	3.70	85	87380	53.78	ug/Kg	93
11) 1,1-Diclethene	3.67	96	252717	59.51	ug/Kg	95
12) Acetone	3.76	43	79065	32.19	ug/Kg	97
13) Iodomethane	3.88	127	106633	44.52	ug/Kg	92
14) Carbon Disulfide	3.97	76	1001140	61.12	ug/Kg	100
15) Acetonitrile	4.18	41	142241	515.54	ug/Kg	98
16) Allyl Chloride	4.24	76	154545	58.61	ug/Kg	98
17) Methylene Chloride	4.43	84	325176	56.19	ug/Kg	99
18) TBA	4.67	59	547581	813.61	ug/Kg	99
19) Acrylonitrile	4.81	53	472522	157.00	ug/Kg	98
20) Methyl-t-Butyl Ether	4.90	73	706646	43.09	ug/Kg	96
21) trans-1,2-Dichloroethene	4.88	96	262091	49.79	ug/Kg	99
22) 1,1-Diclethane	5.54	63	507421	53.99	ug/Kg	99
23) Vinyl Acetate	5.67	43	620876	49.16	ug/Kg	100
24) 2-Chloro-1,3-butadiene	5.70	53	550794	69.92	ug/Kg	99
25) 2,2-Dichloropropane	6.49	77	404278	60.91	ug/Kg	98
26) 2-Butanone	6.54	43	156973	35.82	ug/Kg	98
28) cis-1,2-Dichloroethene	6.50	96	322986	51.43	ug/Kg	88
29) Propionitrile	6.60	54	206373	181.77	ug/Kg	100
30) Methacrylonitrile	6.86	67	95670	32.59	ug/Kg	87
31) Bromochloromethane	6.88	128	157223	50.63	ug/Kg	95
32) Chloroform	7.04	83	470360	52.19	ug/Kg	99
33) Tetrahydrofuran	6.97	42	100232	34.69	ug/Kg	92
34) 1,1,1-Trichloroethane	7.31	97	439200	66.06	ug/Kg	97
37) Carbontetrachloride	7.60	117	369510	60.09	ug/Kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9554.D
Acq On : 1 Feb 102 12:54 pm
Sample : 50 PPB
Misc :
Quant Time: Feb 1 13:22 19102

Vial: 8
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 1,1-Dichloropropene	7.60	75	546626	74.35	ug/Kg	96
39) Iso-Butyl Alcohol	8.44	43	578877	2127.10	ug/Kg	100
40) Benzene	7.92	78	1579614	74.97	ug/Kg	99
41) 1,2-Dichloroethane	7.95	62	346442	43.08	ug/Kg	100
42) N-Heptane	8.44	43	585979	107.81	ug/Kg	97
43) Trichloroethene	9.02	95	403892	71.81	ug/Kg	94
44) 1,2-Diclpropane	9.37	63	444937	64.37	ug/Kg	99
45) Methyl Methacrylate	9.64	69	231553	46.45	ug/Kg	95
46) 1,4-Dioxane	9.64	88	68520	921.45	ug/Kg	93
47) Dibromomethane	9.57	93	195389	43.39	ug/Kg	98
48) Bromodichloromethane	9.86	83	423508	55.09	ug/Kg	98
49) 2-Nitropropane	10.24	43	201326	78.85	ug/Kg	97
50) 2-Chloroethylvinyl Ether	10.40	63	139204	24.42	ug/Kg	100
51) cis-1,3-Dichloropropene	10.64	75	622203	61.79	ug/Kg	97
53) 4-Methyl-2-Pentanone	10.93	43	452583	49.68	ug/Kg	93
54) Toluene	11.22	91	1416676	74.72	ug/Kg	99
55) trans-1,3-Dichloropropene	11.61	75	547342	64.04	ug/Kg	96
56) Ethyl Methacrylate	11.82	69	414701	49.77	ug/Kg	98
57) 1,1,2-Trichloroethane	11.93	83	292949	61.19	ug/Kg	97
60) Tetrachloroethene	12.20	166	342720	80.95	ug/Kg	95
61) 2-Hexanone	12.41	43	315720	51.21	ug/Kg	92
62) 1,3-Dichloropropane	12.22	76	637065	61.50	ug/Kg	88
63) Dibromochloromethane	12.63	129	348942	60.63	ug/Kg	99
64) 1,2-Dibromoethane	12.81	107	354775	57.28	ug/Kg	99
65) Chlorobenzene	13.74	112	914230	74.51	ug/Kg	96
66) 1,1,1,2-Tetrachloroethane	13.90	131	334202	72.62	ug/Kg	97
67) Ethylbenzene	13.97	91	1531237	79.79	ug/Kg	97
68) (m+p)Xylene	14.19	106	1109500	162.89	ug/Kg	98
69) o-Xylene	14.92	106	548862	82.10	ug/Kg	98
70) Styrene	14.94	104	927614	77.00	ug/Kg	94
71) Bromoform	15.27	173	214667	56.58	ug/Kg	98
72) Isopropylbenzene	15.63	105	1445253	88.07	ug/Kg	100
73) Cyclohexanone	15.75	55	1025498	1634.30	ug/Kg	95
75) 1,1,2,2-Tetrachloroethane	16.19	83	426765	53.53	ug/Kg	97
76) Trans-1,4-Dichloro-2-buten	16.30	53	119604	49.10	ug/Kg	100
77) 1,2,3-Trichloropropane	16.26	110	120241	49.39	ug/Kg	99
78) n-Propylbenzene	16.42	91	1696511	85.30	ug/Kg	100
79) Bromobenzene	16.17	156	324225	64.92	ug/Kg	99
80) 1,3,5-Trimethylbenzene	16.77	105	1031076	56.95	ug/Kg#	53
81) 2-Chlorotoluene	16.56	91	997779	78.19	ug/Kg	99
82) 4-Chlorotoluene	16.77	91	1077716	74.96	ug/Kg	96
83) tert-Butylbenzene	17.39	119	964420	93.26	ug/Kg	97
84) 1,2,4-Trimethylbenzene	17.48	105	1020178	85.62	ug/Kg	96
85) sec-Butylbenzene	17.82	105	1555339	104.38	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9554.D Vial: 8
Acq On : 1 Feb 102 12:54 pm Operator: TTRAVER
Sample : 50 PPB Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 1 13:22 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
86) p-Isopropyltoluene	17.39	119	964420	93.26 ug/Kg	98
87) 1,3-Dclbenz	18.00	146	535323	77.25 ug/Kg	99
88) 1,4-Dclbenz	18.18	146	570833	74.22 ug/Kg	97
89) n-Butylbenzene	18.91	91	1140599	114.55 ug/Kg	99
90) 1,2-Dclbenz	18.90	146	536168	72.68 ug/Kg	98
91) 1,2-Dibromo-3-chloropropan	20.42	157	63891	49.49 ug/Kg	93
92) Nitrobenzene	20.82	77	22335	31.52 ug/Kg	89
93) 1,2,4-Tcbenzene	22.08	180	316887	87.51 ug/Kg	100
94) Hexachlorobt	22.45	225	196657	140.72 ug/Kg	99
95) Naphthalen	22.55	128	647405	64.71 ug/Kg	98
96) 1,2,3-Tclbenzene	23.04	180	278136	83.81 ug/Kg	100

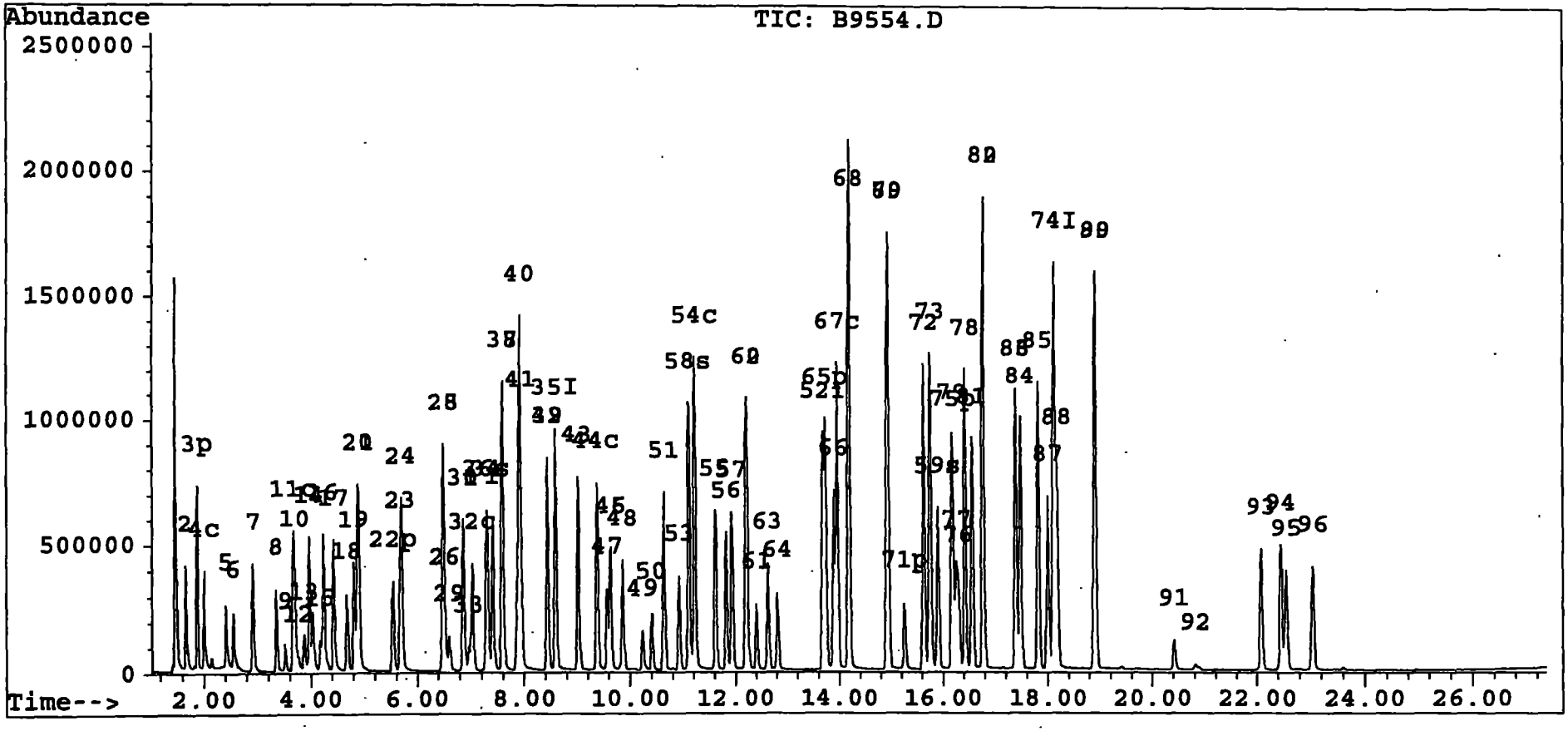
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data e : J:\ACQUDATA\MSVOA3\DATA\020102\B955
Acq On : 1 Feb 102 12:54 pm
Sample : 50 PPB
Misc :
Quant Time: Feb 1 13:22 19102

Vial: 8
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



428

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9573.D Vial: 4
Acq On : 2 Feb 102 11:44 am Operator: TTRAVER
Sample : CCV Inst : 5971 - In
Misc : Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	1.000	1.000	0.0	148	-0.09
2		Dichlorodifluoromethane	0.659	0.525	20.2	107	-0.03
3	p	Chloromethane	1.087	0.894	17.8	112	-0.04
4	c	Vinyl Chloride	0.691	0.565	18.3	110	-0.04
5		Bromomethane	0.366	0.262	28.5#	98	-0.05
6		Chloroethane	0.441	0.317	28.2#	96	-0.05
7		Trichlorofluoromethane	0.744	0.644	13.4	116	-0.06
8		Diethyl Ether	0.353	0.348	1.6	133	-0.06
9		Acrolein	0.043	0.040	6.3	127	-0.07
10		FREON 113	0.133	0.126	5.2	122	-0.07
11	c	1,1-Diclethene	0.405	0.385	4.8	129	-0.08
12		Acetone	0.125	0.132	-5.4	141	-0.07
13		Iodomethane	0.177	0.096	45.7#	76	-0.08
		Carbon Disulfide	1.622	1.546	4.7	131	-0.07
		Acetonitrile	0.012	0.013	-7.0	152	-0.08
16		Allyl Chloride	0.250	0.226	9.4	124	-0.08
17		Methylene Chloride	0.543	0.499	8.1	130	-0.08
18		TBA	0.046	0.047	-2.9	146	-0.07
19		Acrylonitrile	0.153	0.151	1.4	135	-0.08
20		Methyl-t-Butyl Ether	1.138	1.101	3.2	132	-0.08
21		trans-1,2-Dichloroethene	0.425	0.428	-0.5	138	-0.09
22	p	1,1-Diclethane	0.820	0.800	2.4	133	-0.08
23		Vinyl Acetate	0.967	0.877	9.3	119	-0.08
24		2-Chloro-1,3-butadiene	0.861	0.717	16.7	110	-0.08
25		2,2-Dichloropropane	0.630	0.583	7.4	122	-0.09
26		2-Butanone	0.256	0.249	2.9	134	-0.09
27		Ethyl Acetate	0.000	0.000	0.0	0#	-0.08
28		cis-1,2-Dichloroethene	0.525	0.524	0.3	137	-0.09
29		Propionitrile	0.068	0.066	3.6	135	-0.09
30		Methacrylonitrile	0.158	0.153	3.5	135	-0.09
31		Bromochloromethane	0.264	0.247	6.3	133	-0.10
32	c	Chloroform	0.770	0.733	4.8	132	-0.09
33		Tetrahydrofuran	0.176	0.166	5.7	140	-0.09
34		1,1,1-Trichloroethane	0.679	0.599	11.8	115	-0.09
35	I	1,4 - Difluorobenzene	1.000	1.000	0.0	138	-0.09
36	s	surr4,Dibrflmethane	0.240	0.275	-14.6	155	-0.10
37		Carbontetrachloride	0.286	0.267	6.7	117	-0.10
38		1,1-Dichloropropene	0.427	0.354	17.1	105	-0.10
		Iso-Butyl Alcohol	0.023	0.020	13.3	109	-0.09
40		Benzene	1.269	1.071	15.6	110	-0.10
41		1,2-Dichloroethane	0.281	0.268	4.7	125	-0.10

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9573.D Vial: 4
Acq On : 2 Feb 102 11:44 am Operator: TTRAVER
Sample : CCV Inst : 5971 - In
Misc : Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42		N-Heptane	0.451	0.392	13.1	108	-0.09
43		Trichloroethene	0.328	0.278	15.2	111	-0.09
44	c	1,2-Diclpropane	0.358	0.303	15.3	110	-0.09
45		Methyl Methacrylate	0.195	0.175	10.4	122	-0.10
46		1,4-Dioxane	0.003	0.003	5.0	138	-0.11
47		Dibromomethane	0.163	0.159	2.6	131	-0.10
48		Bromodichloromethane	0.349	0.314	9.9	120	-0.10
49		2-Nitropropane	0.082	0.076	7.5	122	-0.10
50		2-Chloroethylvinyl Ether	0.121	0.129	-6.7	150	-0.09
51		cis-1,3-Dichloropropene	0.513	0.441	14.0	115	-0.10
52	I	d5 - Chlorobenzene	1.000	1.000	0.0	135	-0.10
53		4-Methyl-2-Pentanone	0.466	0.427	8.2	116	-0.10
	c	Toluene	1.502	1.367	9.0	118	-0.10
[illegible]		trans-1,3-Dichloropropene	0.584	0.511	12.5	114	-0.09
56		Ethyl Methacrylate	0.443	0.416	6.0	123	-0.09
57		1,1,2-Trichloroethane	0.310	0.270	12.8	113	-0.09
58	s	surr3,Toluene-d8	1.144	1.211	-5.8	134	-0.09
59	s	surr2,bfb	0.457	0.459	-0.4	130	-0.10
60		Tetrachloroethene	0.360	0.336	6.7	120	-0.11
61		2-Hexanone	0.334	0.300	10.0	117	-0.10
62		1,3-Dichloropropane	0.679	0.596	12.2	115	-0.10
63		Dibromochloromethane	0.385	0.348	9.6	122	-0.10
64		1,2-Dibromoethane	0.389	0.352	9.5	122	-0.10
65	p	Chlorobenzene	0.994	0.889	10.5	119	-0.10
66		1,1,1,2-Tetrachloroethane	0.359	0.329	8.5	121	-0.10
67	c	Ethylbenzene	1.607	1.454	9.5	116	-0.10
68		(m+p)Xylene	0.590	0.534	9.5	118	-0.11
69		o-Xylene	0.587	0.522	11.1	117	-0.10
70		Styrene	1.010	0.896	11.3	118	-0.10
71	p	Bromoform	0.239	0.222	7.1	127	-0.11
72		Isopropylbenzene	1.525	1.379	9.6	117	-0.10
73		Cyclohexanone	0.000	0.000	0.0	145	-0.10
74	I	d4 - Dichlorobenzene	1.000	1.000	0.0	128	-0.10
75	p	1,1,2,2-Tetrachloroethane	1.140	1.058	7.2	119	-0.10
76		Trans-1,4-Dichloro-2-butene	0.314	0.290	7.8	116	-0.10
77		1,2,3-Trichloropropane	0.320	0.302	5.7	120	-0.10
		n-Propylbenzene	4.381	4.060	7.3	115	-0.10
		Bromobenzene	0.912	0.853	6.5	126	-0.10
80		1,3,5-Trimethylbenzene	2.704	2.537	6.2	118	-0.11
81		2-Chlorotoluene	2.615	2.397	8.3	115	-0.10

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9573.D Vial: 4
Acq On : 2 Feb 102 11:44 am Operator: TTRAVER
Sample : CCV Inst : 5971 - In
Misc : Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82	4-Chlorotoluene	2.890	2.624	9.2	117	-0.10
83	tert-Butylbenzene	2.460	2.300	6.5	114	-0.10
84	1,2,4-Trimethylbenzene	2.681	2.489	7.2	117	-0.10
85	sec-Butylbenzene	3.917	3.650	6.8	113	-0.10
86	p-Isopropyltoluene	2.460	2.300	6.5	114	-0.10
87	1,3-Dclbenz	1.415	1.307	7.6	117	-0.10
88	1,4-Dclbenz	1.525	1.404	8.0	118	-0.11
89	n-Butylbenzene	2.863	2.659	7.1	112	-0.10
90	1,2-Dclbenz	1.408	1.289	8.4	115	-0.11
91	1,2-Dibromo-3-chloropropane	0.172	0.167	2.4	126	-0.11
92	Nitrobenzene	0.073	0.069	5.7	147	-0.11
93	1,2,4-Tcbenzene	0.839	0.800	4.5	121	-0.10
94	Hexachlorobt	0.489	0.462	5.5	113	-0.10
	Naphthalen	1.820	1.613	11.4	120	-0.11
	1,2,3-Tclbenzene	0.742	0.696	6.2	120	-0.11
97	TOTAL XYLENE	0.000	0.000	0.0	0#	-0.03

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9573.D Vial: 4
Acq On : 2 Feb 102 11:44 am Operator: TTRAVER
Sample : CCV Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 2 12:49 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.32	168	845391	50.00	ug/Kg	-0.09
35) 1,4 - Difluorobenzene	8.50	114	1617136	50.00	ug/Kg	-0.09
52) d5 - Chlorobenzene	13.58	117	1225712	50.00	ug/Kg	-0.10
74) d4 - Dichlorobenzene	18.03	152	479806	50.00	ug/Kg	-0.10
System Monitoring Compounds						%Recovery
36) surr4,Dibrflmethane	7.20	113	444037	57.28	ug/Kg	114.57%
58) surr3,Toluene-d8	11.01	98	1483998	52.91	ug/Kg	105.83%
59) surr2,bfb	15.80	95	562446	50.21	ug/Kg	100.42%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.63	85	444090	39.88	ug/Kgm	77
3) Chloromethane	1.84	50	755601	41.11	ug/Kg	99
4) Vinyl Chloride	1.97	62	477396	40.86	ug/Kg	100
5) Bromomethane	2.36	94	221397	35.77	ug/Kg	94
6) Chloroethane	2.50	64	267697	35.90	ug/Kgm	1
7) Trichlorofluoromethane	2.85	101	544821	43.31	ug/Kg	99
8) Diethyl Ether	3.29	59	293912	49.18	ug/Kg	98
9) Acrolein	3.44	56	171024	234.25	ug/Kg	96
10) FREON 113	3.63	85	106616	47.38	ug/Kg	100
11) 1,1-Diclethene	3.59	96	325619	47.58	ug/Kg	95
12) Acetone	3.69	43	111255	52.69	ug/Kg	100
13) Iodomethane	3.80	127	81204	27.19	ug/Kg	91
14) Carbon Disulfide	3.90	76	1307291	47.67	ug/Kg	100
15) Acetonitrile	4.10	41	215624	1069.96	ug/Kg	97
16) Allyl Chloride	4.16	76	191380	45.28	ug/Kg	98
17) Methylene Chloride	4.35	84	421985	45.93	ug/Kg	99
18) TBA	4.61	59	802091	1029.08	ug/Kg	99
19) Acrylonitrile	4.73	53	637351	246.59	ug/Kg	99
20) Methyl-t-Butyl Ether	4.82	73	931065	48.41	ug/Kg	98
21) trans-1,2-Dichloroethene	4.79	96	361460	50.27	ug/Kg	99
22) 1,1-Diclethane	5.46	63	676729	48.78	ug/Kg	97
23) Vinyl Acetate	5.59	43	741631	45.34	ug/Kg	98
24) 2-Chloro-1,3-butadiene	5.62	53	606280	41.63	ug/Kg	97
25) 2,2-Dichloropropane	6.40	77	492578	46.28	ug/Kg	94
26) 2-Butanone	6.45	43	210330	48.53	ug/Kg	98
28) cis-1,2-Dichloroethene	6.41	96	442938	49.87	ug/Kg	97
29) Propionitrile	6.52	54	279092	241.00	ug/Kg	99
30) Methacrylonitrile	6.77	67	128989	48.23	ug/Kg	99
31) Bromochloromethane	6.78	128	208787	46.86	ug/Kg	96
32) Chloroform	6.95	83	619699	47.61	ug/Kg	97
33) Tetrahydrofuran	6.88	42	140048	50.57	ug/Kg	97
34) 1,1,1-Trichloroethane	7.22	97	506240	44.10	ug/Kg	99
37) Carbontetrachloride	7.50	117	431895	46.67	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9573.D Vial: 4
Acq On : 2 Feb 102 11:44 am Operator: TTRAVER
Sample : CCV Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 2 12:49 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	1,1-Dichloropropene	7.50	75	572293	41.44	ug/Kg	98
39)	Iso-Butyl Alcohol	8.36	43	633160	866.76	ug/Kg	98
40)	Benzene	7.83	78	1732552	42.21	ug/Kg	99
41)	1,2-Dichloroethane	7.85	62	432888	47.65	ug/Kg	98
42)	N-Heptane	8.36	43	633575	43.43	ug/Kg	98
43)	Trichloroethene	8.93	95	449169	42.38	ug/Kg	98
44)	1,2-Diclpropane	9.28	63	490641	42.36	ug/Kg	98
45)	Methyl Methacrylate	9.54	69	282965	44.79	ug/Kg	98
46)	1,4-Dioxane	9.53	88	94290	950.47	ug/Kg	98
47)	Dibromomethane	9.47	93	256660	48.70	ug/Kg	99
48)	Bromodichloromethane	9.76	83	507823	45.03	ug/Kg	99
49)	2-Nitropropane	10.14	43	246082	92.45	ug/Kg	96
50)	2-Chloroethylvinyl Ether	10.32	63	208464	53.35	ug/Kg	97
51)	cis-1,3-Dichloropropene	10.54	75	713079	43.00	ug/Kg	97
53)	4-Methyl-2-Pentanone	10.83	43	523905	45.89	ug/Kg	100
54)	Toluene	11.12	91	1675847	45.51	ug/Kg	99
55)	trans-1,3-Dichloropropene	11.53	75	625897	43.74	ug/Kg	100
56)	Ethyl Methacrylate	11.73	69	510238	47.02	ug/Kg	98
57)	1,1,2-Trichloroethane	11.84	83	331184	43.62	ug/Kg	100
60)	Tetrachloroethene	12.10	166	411618	46.63	ug/Kg	98
61)	2-Hexanone	12.31	43	367919	44.98	ug/Kg	96
62)	1,3-Dichloropropane	12.13	76	730109	43.88	ug/Kg	94
63)	Dibromochloromethane	12.53	129	427059	45.19	ug/Kg	100
64)	1,2-Dibromoethane	12.72	107	431997	45.26	ug/Kg	100
65)	Chlorobenzene	13.64	112	1089990	44.73	ug/Kg	97
66)	1,1,1,2-Tetrachloroethane	13.80	131	402965	45.75	ug/Kg	98
67)	Ethylbenzene	13.87	91	1782234	45.23	ug/Kg	98
68)	(m+p)Xylene	14.09	106	1308726	90.49	ug/Kg	100
69)	o-Xylene	14.82	106	640269	44.46	ug/Kg	99
70)	Styrene	14.84	104	1098844	44.36	ug/Kg	97
71)	Bromoform	15.16	173	271842	46.45	ug/Kg	98
72)	Isopropylbenzene	15.53	105	1690094	45.20	ug/Kg	99
75)	1,1,2,2-Tetrachloroethane	16.09	83	507740	46.42	ug/Kg	100
76)	Trans-1,4-Dichloro-2-buten	16.20	53	139072	46.09	ug/Kg	100
77)	1,2,3-Trichloropropane	16.16	110	144814	47.17	ug/Kg	96
78)	n-Propylbenzene	16.32	91	1948234	46.34	ug/Kg	97
79)	Bromobenzene	16.07	156	409065	46.76	ug/Kg	92
80)	1,3,5-Trimethylbenzene	16.66	105	1217397	46.92	ug/Kg#	51
81)	2-Chlorotoluene	16.46	91	1149976	45.83	ug/Kg	99
82)	4-Chlorotoluene	16.67	91	1258810	45.39	ug/Kg	99
83)	tert-Butylbenzene	17.29	119	1103722	46.75	ug/Kg	97
84)	1,2,4-Trimethylbenzene	17.38	105	1194115	46.42	ug/Kg	95
85)	sec-Butylbenzene	17.72	105	1751488	46.60	ug/Kg	99
86)	p-Isopropyltoluene	17.29	119	1103722	46.75	ug/Kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9573.D
Acq On : 2 Feb 102 11:44 am
Sample : CCV
Misc :
Quant Time: Feb 2 12:49 19102

Vial: 4
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
87)	1,3-Dclbenz	17.90	146	627012	46.19	ug/Kg	97
88)	1,4-Dclbenz	18.07	146	673490	46.01	ug/Kg	98
89)	n-Butylbenzene	18.81	91	1276032	46.44	ug/Kg	99
90)	1,2-Dclbenz	18.79	146	618427	45.78	ug/Kg	98
91)	1,2-Dibromo-3-chloropropan	20.32	157	80357	48.81	ug/Kg	94
92)	Nitrobenzene	20.71	77	32879	47.17	ug/Kg#	79
93)	1,2,4-Tcbenzene	21.98	180	384050	47.73	ug/Kg	97
94)	Hexachlorobt	22.35	225	221767	47.24	ug/Kg	100
95)	Naphthalen	22.44	128	773846	47.40	ug/Kg	96
96)	1,2,3-Tclbenzene	22.93	180	333873	46.89	ug/Kg	97

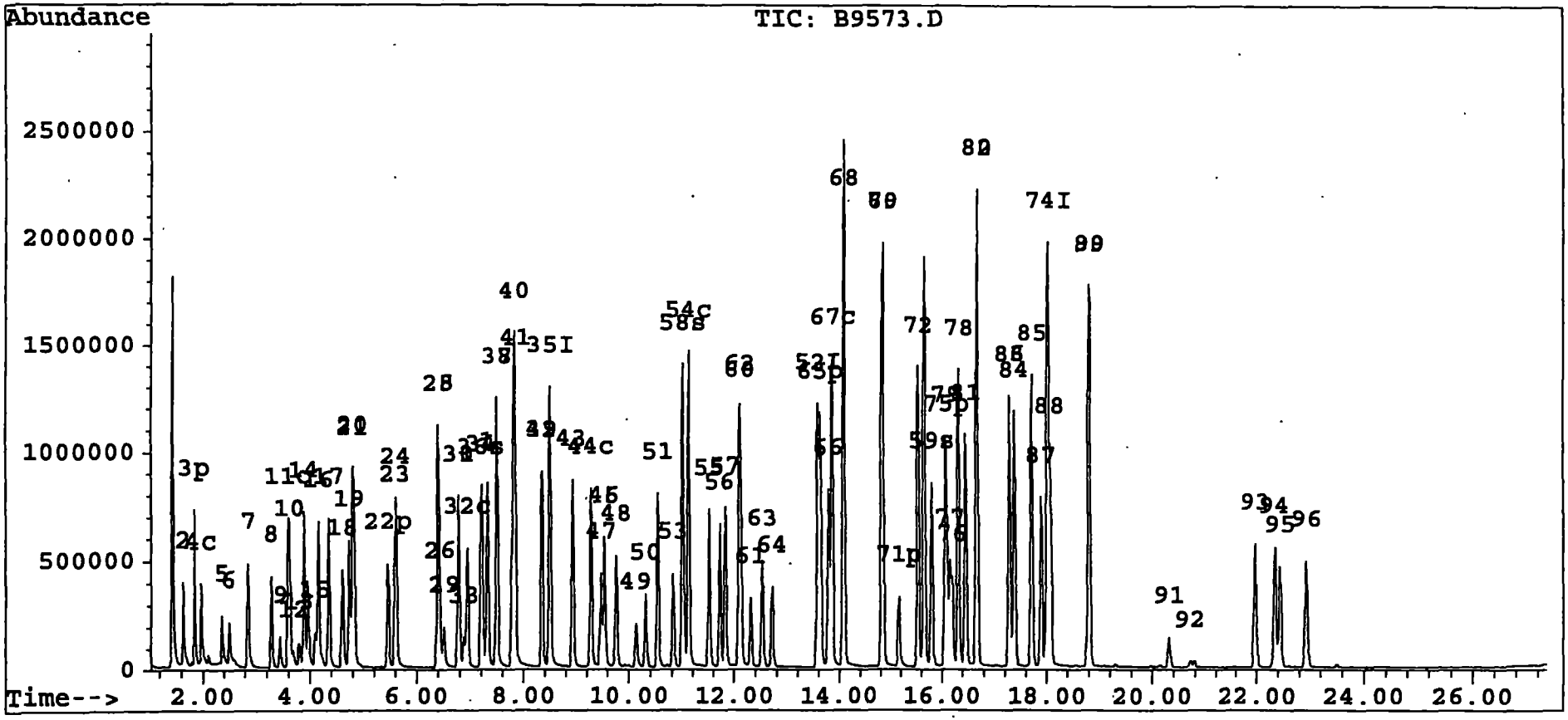
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B957.D
Acq On : 2 Feb 102 11:44 am
Sample : CCV
Misc :
Quant Time: Feb 2 12:49 19102

Vial: 4
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



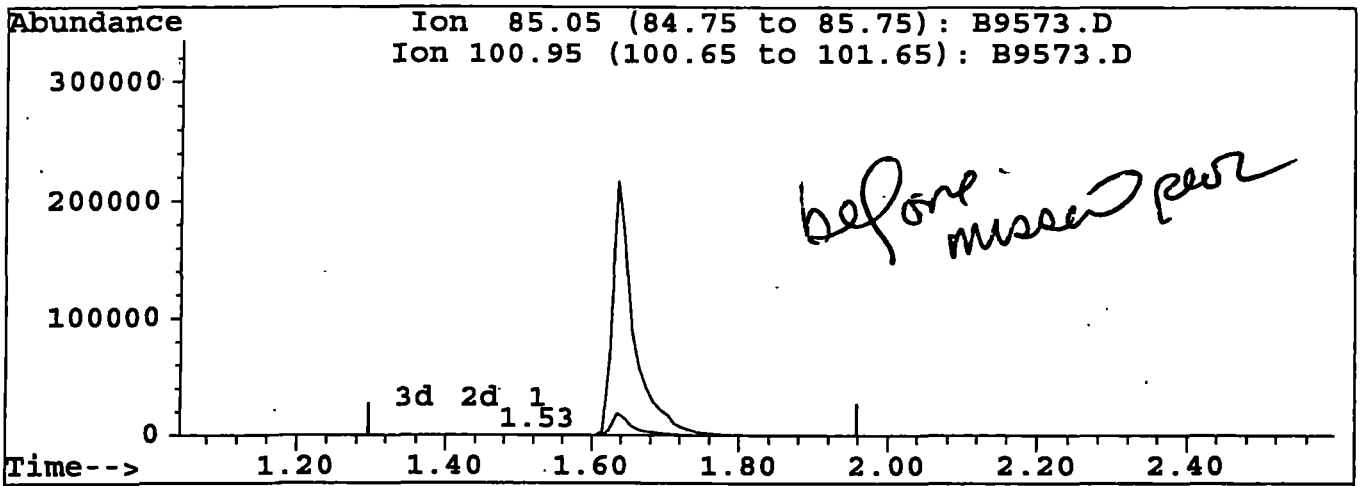
435

Quantitation Report

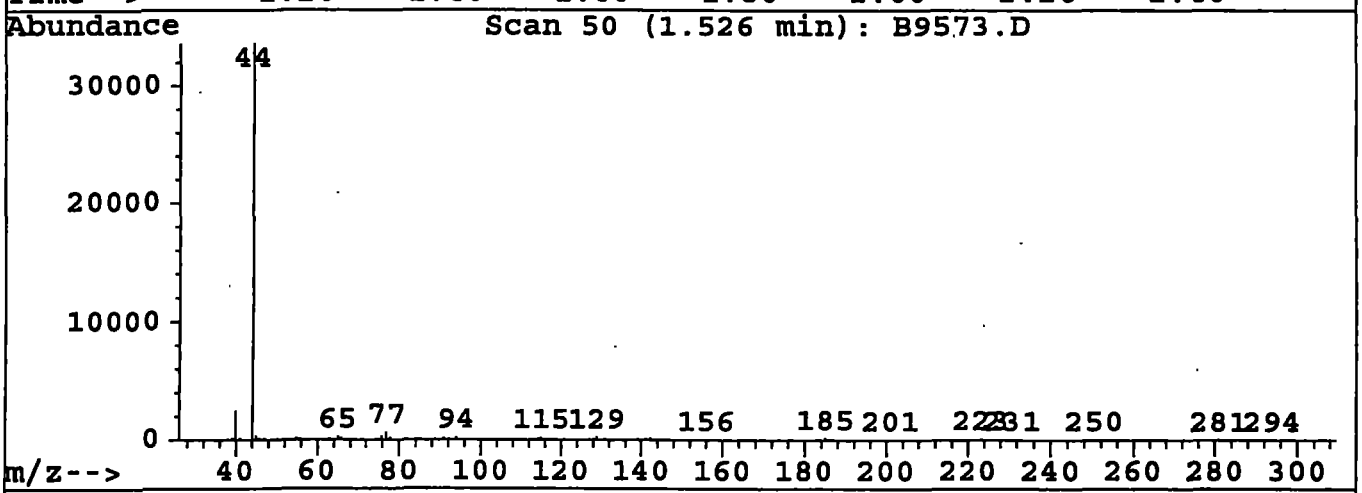
Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9573.D
Acq On : 2 Feb 102 11:44 am
Sample : CCV
Misc :
Quant Time: Feb 2 12:12 19102

Vial: 4
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



before missed peak



TIC: B9573.D

(2) Dichlorodifluoromethane
1.53min 0.02ug/Kg
response 252

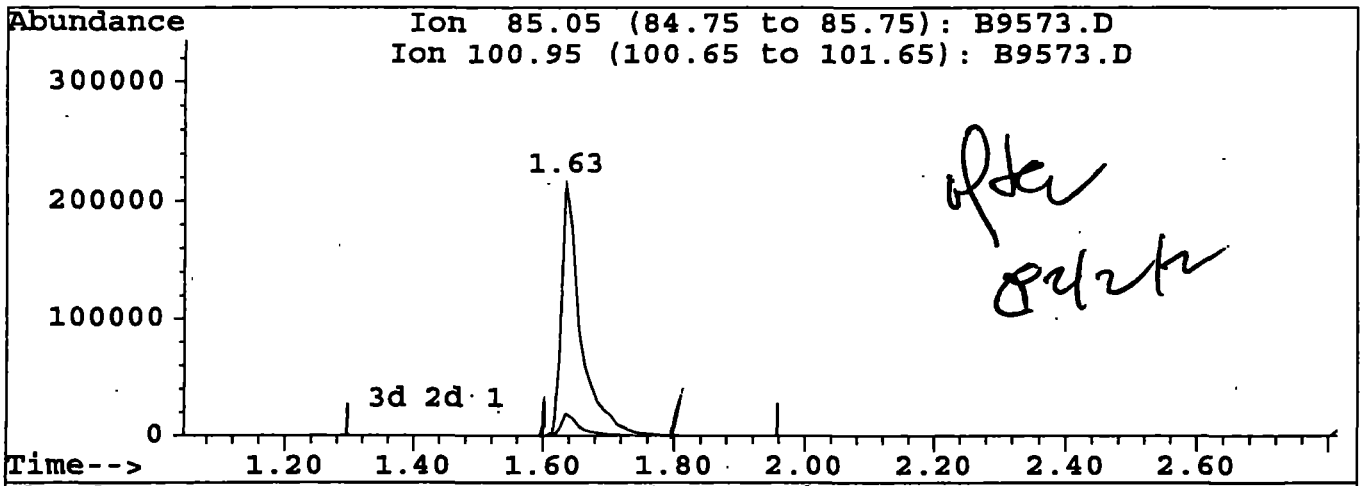
Ion	Exp%	Act%
85.05	100	100
100.95	8.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

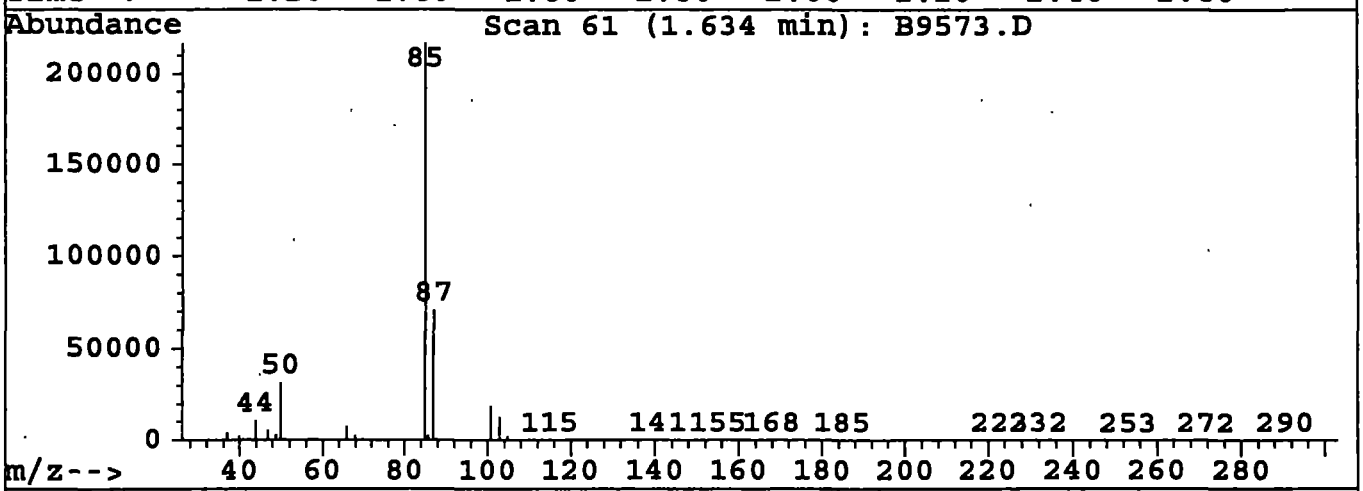
Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9573.D
Acq On : 2 Feb 102 11:44 am
Sample : CCV
Misc :
Quant Time: Feb 2 12:49 19102

Vial: 4
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



after 8242



TIC: B9573.D

(2) Dichlorodifluoromethane
1.63min 39.88ug/Kg m
response 444090

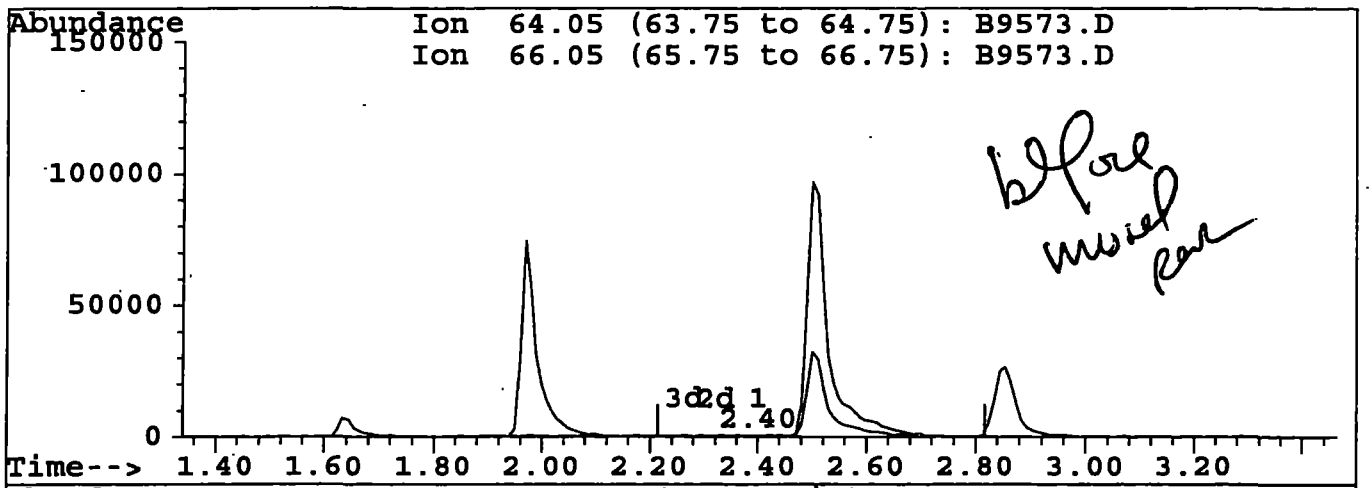
Ion	Exp%	Act%
85.05	100	100
100.95	8.10	8.69
0.00	0.00	0.00
0.00	0.00	0.00

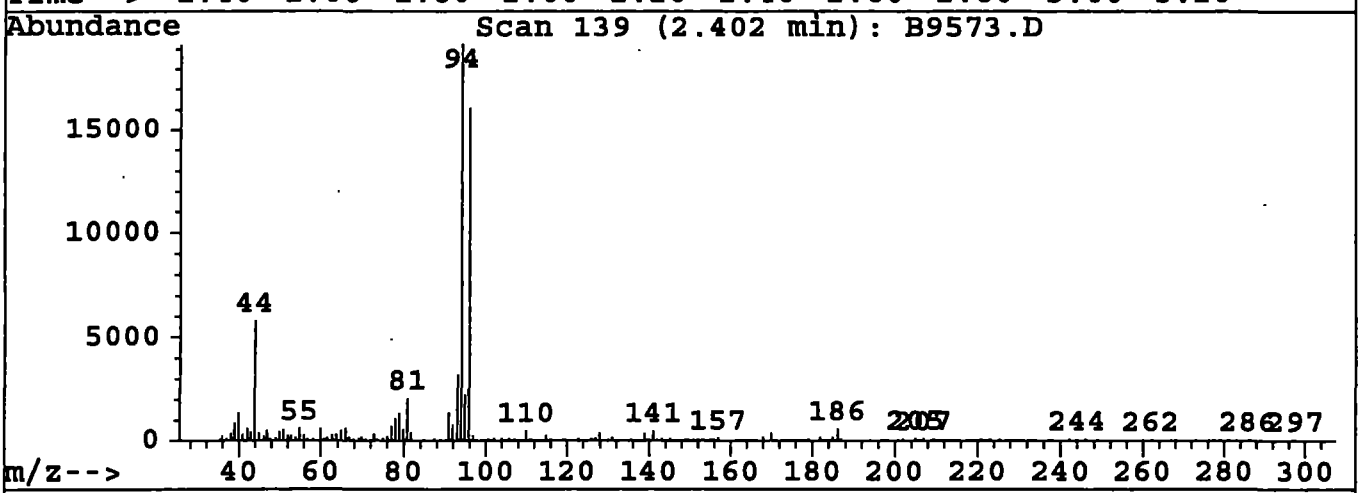
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9573.D
Acq On : 2 Feb 102 11:44 am
Sample : CCV
Misc :
Quant Time: Feb 2 12:49 19102

Vial: 4
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration





TIC: B9573.D

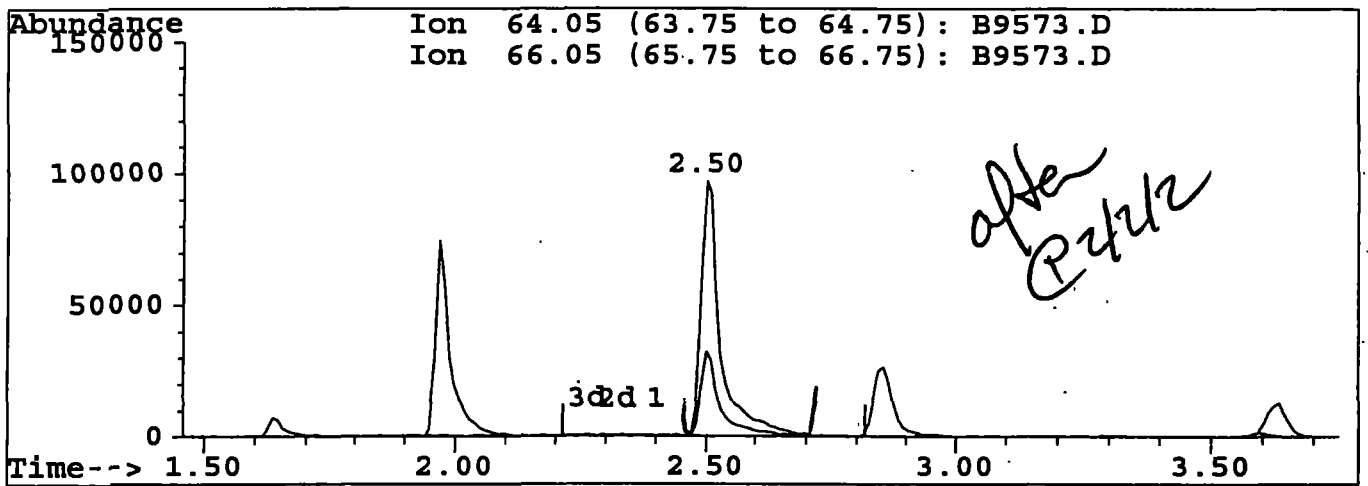
(6) Chloroethane
2.40min 0.18ug/Kg
response 1356

Ion	Exp%	Act%
64.05	100	100
66.05	31.90	206.67#
0.00	0.00	0.00
0.00	0.00	0.00

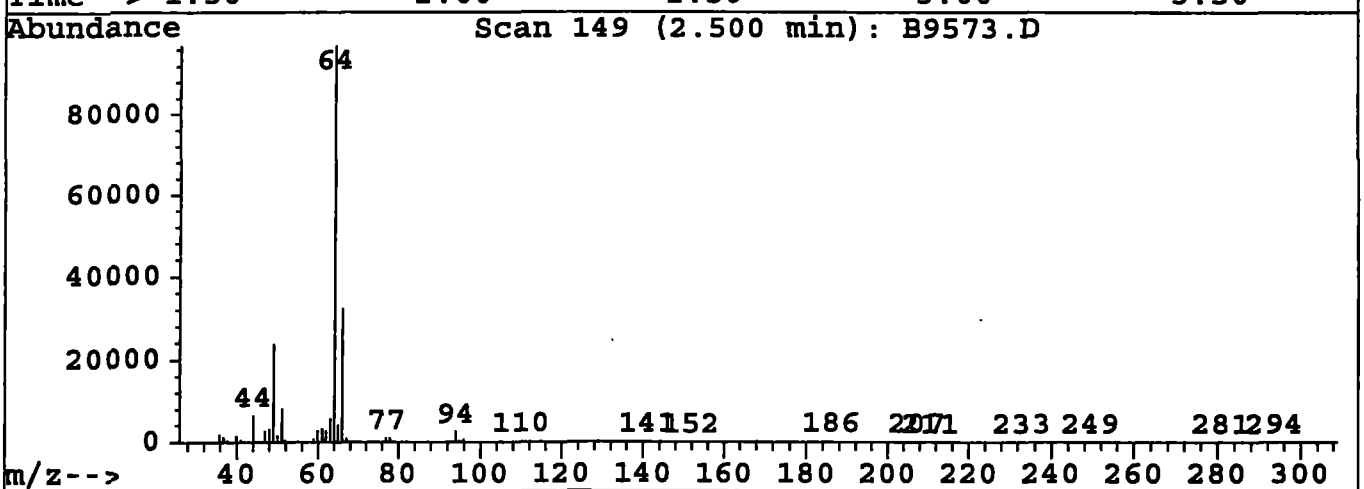
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9573.D Vial: 4
Acq On : 2 Feb 102 11:44 am Operator: TTRAVER
Sample : CCV Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 2 12:49 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



after 2/2/2



TIC: B9573.D

(6) Chloroethane
2.50min 35.90ug/Kg m
response 267697

Ion	Exp%	Act%
64.05	100	100
66.05	31.90	33.38
0.00	0.00	0.00
0.00	0.00	0.00

B9573.D SOL0201.M Sat Feb 02 12:49:48 2002

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9603.D Vial: 5
Acq On : 4 Feb 102 10:24 am Operator: DROOT
Sample : CCV Inst : 5971 - In
Misc : Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	1.000	1.000	0.0	133	-0.02
2		Dichlorodifluoromethane	0.659	0.661	-0.3	121	-0.01
3	p	Chloromethane	1.087	0.961	11.6	109	0.00
4	c	Vinyl Chloride	0.691	0.694	-0.4	122	-0.01
5		Bromomethane	0.366	0.236	35.5#	79	0.00
6		Chloroethane	0.441	0.447	-1.3	122	-0.01
7		Trichlorofluoromethane	0.744	0.774	-4.0	125	-0.01
8		Diethyl Ether	0.353	0.380	-7.6	131	-0.02
9		Acrolein	0.043	0.039	8.9	112	-0.01
10		FREON 113	0.133	0.135	-1.7	118	-0.01
11	c	1,1-Diclethene	0.405	0.431	-6.4	130	-0.01
12		Acetone	0.125	0.124	1.0	119	-0.01
13		Iodomethane	0.172	0.142	17.1	102	-0.01
		Carbon Disulfide	1.622	1.607	0.9	122	-0.01
15		Acetonitrile	0.012	0.014	-13.6	145	-0.01
16		Allyl Chloride	0.250	0.266	-6.2	131	-0.01
17		Methylene Chloride	0.543	0.576	-6.0	135	-0.02
18		TBA	0.046	0.047	-1.3	130	-0.02
19		Acrylonitrile	0.153	0.162	-6.1	131	-0.02
20		Methyl-t-Butyl Ether	1.138	1.221	-7.3	132	-0.02
21		trans-1,2-Dichloroethene	0.425	0.454	-6.8	132	-0.01
22	p	1,1-Diclethane	0.820	0.862	-5.0	129	-0.02
23		Vinyl Acetate	0.967	0.901	6.9	111	-0.02
24		2-Chloro-1,3-butadiene	0.861	0.805	6.6	111	-0.02
25		2,2-Dichloropropane	0.630	0.638	-1.4	120	-0.02
26		2-Butanone	0.256	0.235	8.4	114	-0.01
27		Ethyl Acetate	0.000	0.000	0.0	0#	-0.02
28		cis-1,2-Dichloroethene	0.525	0.567	-7.8	134	-0.02
29		Propionitrile	0.068	0.071	-4.2	132	-0.01
30		Methacrylonitrile	0.158	0.169	-6.6	134	-0.02
31		Bromochloromethane	0.264	0.293	-11.2	142	-0.02
32	c	Chloroform	0.770	0.781	-1.4	126	-0.01
33		Tetrahydrofuran	0.176	0.168	4.5	128	-0.01
34		1,1,1-Trichloroethane	0.679	0.677	0.2	117	-0.02
35	I	1,4 - Difluorobenzene	1.000	1.000	0.0	126	-0.02
36	s	surr4,Dibrflmethane	0.240	0.242	-1.0	125	-0.01
37		Carbontetrachloride	0.286	0.296	-3.3	119	-0.01
		1,1-Dichloropropene	0.427	0.436	-2.2	118	-0.01
		Iso-Butyl Alcohol	0.023	0.020	10.8	103	-0.02
40		Benzene	1.269	1.326	-4.5	124	-0.02
41		1,2-Dichloroethane	0.281	0.301	-7.1	129	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9603.D Vial: 5
Acq On : 4 Feb 102 10:24 am Operator: DROOT
Sample : CCV Inst : 5971 - In
Misc : Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42		N-Heptane	0.451	0.406	10.1	103	-0.02
43		Trichloroethene	0.328	0.338	-3.1	124	-0.02
44	c	1,2-Diclpropane	0.358	0.364	-1.5	121	-0.02
45		Methyl Methacrylate	0.195	0.205	-5.1	131	-0.01
46		1,4-Dioxane	0.003	0.003	-6.7	142	-0.01
47		Dibromomethane	0.163	0.173	-5.9	131	-0.02
48		Bromodichloromethane	0.349	0.366	-5.0	128	-0.01
49		2-Nitropropane	0.082	0.084	-2.5	124	-0.01
50		2-Chloroethylvinyl Ether	0.121	0.151	-24.7	160	-0.01
51		cis-1,3-Dichloropropene	0.513	0.541	-5.5	129	-0.01
52	I	d5 - Chlorobenzene	1.000	1.000	0.0	129	-0.01
53		4-Methyl-2-Pentanone	0.466	0.421	9.6	108	-0.01
[illegible]	c	Toluene	1.502	1.544	-2.8	127	-0.02
[illegible]		trans-1,3-Dichloropropene	0.584	0.621	-6.5	132	-0.01
56		Ethyl Methacrylate	0.443	0.477	-7.7	134	-0.01
57		1,1,2-Trichloroethane	0.310	0.323	-4.4	128	-0.02
58	s	surr3,Toluene-d8	1.144	1.193	-4.3	126	-0.01
59	s	surr2,bfb	0.457	0.456	0.3	122	-0.01
60		Tetrachloroethene	0.360	0.390	-8.3	132	-0.01
61		2-Hexanone	0.334	0.296	11.3	109	-0.01
62		1,3-Dichloropropane	0.679	0.732	-7.8	134	-0.02
63		Dibromochloromethane	0.385	0.432	-12.1	144	-0.02
64		1,2-Dibromoethane	0.389	0.426	-9.4	140	-0.02
65	p	Chlorobenzene	0.994	1.053	-6.0	134	-0.01
66		1,1,1,2-Tetrachloroethane	0.359	0.382	-6.2	133	-0.02
67	c	Ethylbenzene	1.607	1.637	-1.8	124	-0.01
68		(m+p)Xylene	0.590	0.613	-3.9	129	-0.01
69		o-Xylene	0.587	0.601	-2.3	127	-0.02
70		Styrene	1.010	1.058	-4.8	133	-0.01
71	p	Bromoform	0.239	0.270	-13.0	146	-0.01
72		Isopropylbenzene	1.525	1.572	-3.0	127	-0.02
73		Cyclohexanone	0.000	0.000	0.0	174	-0.01
74	I	d4 - Dichlorobenzene	1.000	1.000	0.0	122	-0.02
75	p	1,1,2,2-Tetrachloroethane	1.140	1.215	-6.6	130	-0.01
76		Trans-1,4-Dichloro-2-butene	0.314	0.335	-6.5	127	-0.02
77		1,2,3-Trichloropropane	0.320	0.340	-6.1	129	-0.01
[illegible]		n-Propylbenzene	4.381	4.593	-4.8	123	-0.02
[illegible]		Bromobenzene	0.912	1.007	-10.5	141	-0.01
80		1,3,5-Trimethylbenzene	2.704	2.848	-5.3	126	-0.01
81		2-Chlorotoluene	2.615	2.686	-2.8	123	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9603.D Vial: 5
Acq On : 4 Feb 102 10:24 am Operator: DROOT
Sample : CCV Inst : 5971 - In
Misc : Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82	4-Chlorotoluene	2.890	3.031	-4.9	128	-0.01
83	tert-Butylbenzene	2.460	2.559	-4.0	121	-0.01
84	1,2,4-Trimethylbenzene	2.681	2.811	-4.9	125	-0.01
85	sec-Butylbenzene	3.917	4.090	-4.4	120	-0.01
86	p-Isopropyltoluene	3.022	3.099	-2.6	120	-0.02
87	1,3-Dclbenz	1.415	1.530	-8.2	130	-0.02
88	1,4-Dclbenz	1.525	1.635	-7.2	130	-0.01
89	n-Butylbenzene	2.863	2.918	-1.9	117	-0.01
90	1,2-Dclbenz	1.408	1.522	-8.1	129	-0.01
91	1,2-Dibromo-3-chloropropane	0.172	0.194	-12.8	138	-0.01
92	Nitrobenzene	0.073	0.077	-5.6	156	-0.02
93	1,2,4-Tcbenzene	0.839	0.903	-7.7	130	-0.01
94	Hexachlorobt	0.489	0.484	1.0	112	-0.01
	Naphthalen	1.820	1.755	3.6	123	-0.01
	1,2,3-Tclbenzene	0.742	0.785	-5.8	129	-0.01
97	TOTAL XYLENE	0.000	0.000	0.0	0#	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9603.D Vial: 5
Acq On : 4 Feb 102 10:24 am Operator: DROOT
Sample : CCV Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 4 11:32 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.39	168	761730	50.00	ug/Kg	-0.02
35) 1,4 - Difluorobenzene	8.57	114	1481109	50.00	ug/Kg	-0.02
52) d5 - Chlorobenzene	13.67	117	1164233	50.00	ug/Kg	-0.01
74) d4 - Dichlorobenzene	18.11	152	455338	50.00	ug/Kg	-0.02
System Monitoring Compounds						**%Recovery**
36) surr4,Dibrflmethane	7.27	113	358460	50.49	ug/Kg	100.98%
58) surr3,Toluene-d8	11.09	98	1388883	52.14	ug/Kg	104.28%
59) surr2,bfb	15.89	95	530612	49.87	ug/Kg	99.74%
Target Compounds						**Qvalue**
2) Dichlorodifluoromethane	1.65	85	503220	50.15	ug/Kg	99
3) Chloromethane	1.87	50	732348	44.22	ug/Kg	99
4) Vinyl Chloride	2.00	62	528464	50.20	ug/Kg	100
5) Bromomethane	2.40	94	179745	32.23	ug/Kg	96
6) Chloroethane	2.54	64	340440	50.67	ug/Kgm	1
7) Trichlorofluoromethane	2.89	101	589296	51.99	ug/Kg	97
8) Diethyl Ether	3.33	59	289685	53.80	ug/Kg	100
9) Acrolein	3.49	56	149822	227.75	ug/Kg	95
10) FREON 113	3.68	85	103144	50.87	ug/Kg	93
11) 1,1-Diclethene	3.65	96	327952	53.18	ug/Kg	98
12) Acetone	3.74	43	94209	49.52	ug/Kg	97
13) Iodomethane	3.86	127	108377	39.37	ug/Kg	88
14) Carbon Disulfide	3.96	76	1224243	49.54	ug/Kg	99
15) Acetonitrile	4.15	41	206215	1135.65	ug/Kg	99
16) Allyl Chloride	4.22	76	202267	53.11	ug/Kg	84
17) Methylene Chloride	4.41	84	438646	52.98	ug/Kg	94
18) TBA	4.66	59	711514	1013.13	ug/Kg	100
19) Acrylonitrile	4.79	53	617992	265.36	ug/Kg	98
20) Methyl-t-Butyl Ether	4.88	73	929756	53.65	ug/Kg	99
21) trans-1,2-Dichloroethene	4.86	96	346151	53.42	ug/Kg	97
22) 1,1-Diclethane	5.52	63	656452	52.52	ug/Kg	97
23) Vinyl Acetate	5.65	43	686204	46.56	ug/Kg	97
24) 2-Chloro-1,3-butadiene	5.68	53	613157	46.72	ug/Kg	98
25) 2,2-Dichloropropane	6.47	77	486165	50.69	ug/Kg	96
26) 2-Butanone	6.52	43	178774	45.78	ug/Kg	97
28) cis-1,2-Dichloroethene	6.48	96	431555	53.92	ug/Kg	93
29) Propionitrile	6.59	54	271747	260.43	ug/Kg	97
30) Methacrylonitrile	6.84	67	128457	53.30	ug/Kg	97
31) Bromochloromethane	6.85	128	223170	55.59	ug/Kg	98
32) Chloroform	7.02	83	594628	50.70	ug/Kg	99
33) Tetrahydrofuran	6.95	42	127819	51.30	ug/Kg	97
34) 1,1,1-Trichloroethane	7.29	97	515861	49.88	ug/Kg	97
37) Carbontetrachloride	7.58	117	437890	51.66	ug/Kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9603.D Vial: 5
Acq On : 4 Feb 102 10:24 am Operator: DROOT
Sample : CCV Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 4 11:32 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	1,1-Dichloropropene	7.58	75	646109	51.08	ug/Kg	98
39)	Iso-Butyl Alcohol	8.43	43	596730	891.92	ug/Kg	100
40)	Benzene	7.90	78	1963699	52.23	ug/Kg	100
41)	1,2-Dichloroethane	7.93	62	445519	53.55	ug/Kg	99
42)	N-Heptane	8.43	43	600822	44.97	ug/Kg	98
43)	Trichloroethene	9.00	95	500282	51.54	ug/Kg	98
44)	1,2-Diclpropane	9.35	63	538472	50.76	ug/Kg	96
45)	Methyl Methacrylate	9.62	69	304229	52.57	ug/Kg	92
46)	1,4-Dioxane	9.62	88	96969	1067.25	ug/Kg	92
47)	Dibromomethane	9.55	93	255507	52.94	ug/Kg	98
48)	Bromodichloromethane	9.84	83	542044	52.48	ug/Kg	98
49)	2-Nitropropane	10.22	43	249930	102.52	ug/Kg	100
50)	2-Chloroethylvinyl Ether	10.39	63	223053	62.33	ug/Kg	95
51)	cis-1,3-Dichloropropene	10.62	75	800903	52.73	ug/Kg	96
53)	4-Methyl-2-Pentanone	10.91	43	489996	45.19	ug/Kg	99
54)	Toluene	11.20	91	1797644	51.40	ug/Kg	98
55)	trans-1,3-Dichloropropene	11.61	75	723559	53.24	ug/Kg	100
56)	Ethyl Methacrylate	11.81	69	555058	53.85	ug/Kg	99
57)	1,1,2-Trichloroethane	11.91	83	376241	52.18	ug/Kg	97
60)	Tetrachloroethene	12.19	166	454044	54.15	ug/Kg	95
61)	2-Hexanone	12.39	43	344622	44.36	ug/Kg	99
62)	1,3-Dichloropropane	12.21	76	852026	53.91	ug/Kg	98
63)	Dibromochloromethane	12.61	129	502911	56.03	ug/Kg	99
64)	1,2-Dibromoethane	12.80	107	496059	54.71	ug/Kg	100
65)	Chlorobenzene	13.72	112	1226128	52.98	ug/Kg	96
66)	1,1,1,2-Tetrachloroethane	13.88	131	444376	53.11	ug/Kg	98
67)	Ethylbenzene	13.95	91	1905490	50.92	ug/Kg	96
68)	(m+p)Xylene	14.17	106	1426746	103.86	ug/Kg	98
69)	o-Xylene	14.90	106	699268	51.13	ug/Kg	98
70)	Styrene	14.93	104	1232298	52.38	ug/Kg	98
71)	Bromoform	15.25	173	314054	56.49	ug/Kg	99
72)	Isopropylbenzene	15.61	105	1829636	51.52	ug/Kg	99
75)	1,1,2,2-Tetrachloroethane	16.17	83	553108	53.29	ug/Kg	99
76)	Trans-1,4-Dichloro-2-buten	16.28	53	152468	53.24	ug/Kg	98
77)	1,2,3-Trichloropropane	16.24	110	154596	53.07	ug/Kg	94
78)	n-Propylbenzene	16.40	91	2091188	52.41	ug/Kg	96
79)	Bromobenzene	16.15	156	458483	55.23	ug/Kg	94
80)	1,3,5-Trimethylbenzene	16.75	105	1296682	52.66	ug/Kg#	49
81)	2-Chlorotoluene	16.54	91	1223254	51.38	ug/Kg	100
82)	4-Chlorotoluene	16.75	91	1379935	52.44	ug/Kg	99
83)	tert-Butylbenzene	17.37	119	1165110	52.00	ug/Kg	100
84)	1,2,4-Trimethylbenzene	17.47	105	1279961	52.43	ug/Kg	95
85)	sec-Butylbenzene	17.81	105	1862306	52.21	ug/Kg	98
86)	p-Isopropyltoluene	18.09	119	1411192	51.28	ug/Kg#	61

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9603.D Vial: 5
Acq On : 4 Feb 102 10:24 am Operator: DROOT
Sample : CCV Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 4 11:32 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
87)	1,3-Dclbenz	17.98	146	696685	54.08 ug/Kg	99
88)	1,4-Dclbenz	18.16	146	744561	53.60 ug/Kg	98
89)	n-Butylbenzene	18.90	91	1328833	50.96 ug/Kg	98
90)	1,2-Dclbenz	18.88	146	693145	54.07 ug/Kg	97
91)	1,2-Dibromo-3-chloropropan	20.41	157	88116	56.40 ug/Kg	98
92)	Nitrobenzene	20.79	77	34921	52.79 ug/Kg	97
93)	1,2,4-Tcbenzene	22.07	180	411353	53.87 ug/Kg	98
94)	Hexachlorobt	22.44	225	220515	49.49 ug/Kg	97
95)	Naphthalen	22.53	128	799044	51.81 ug/Kg	98
96)	1,2,3-Tclbenzene	23.02	180	357512	52.91 ug/Kg	99

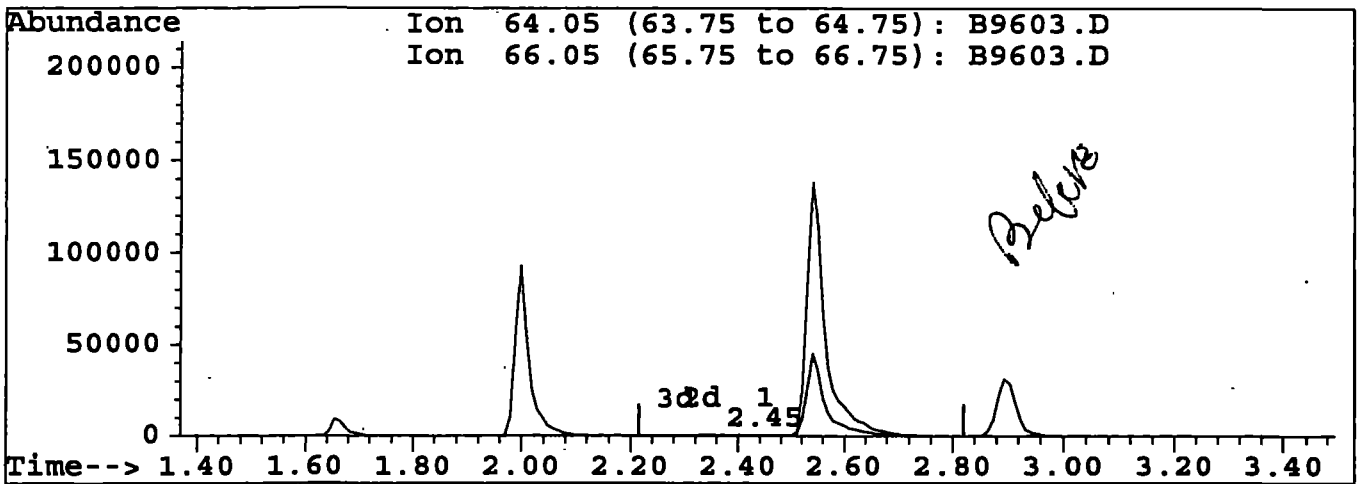
(#) = qualifier out of range (m) = manual integration

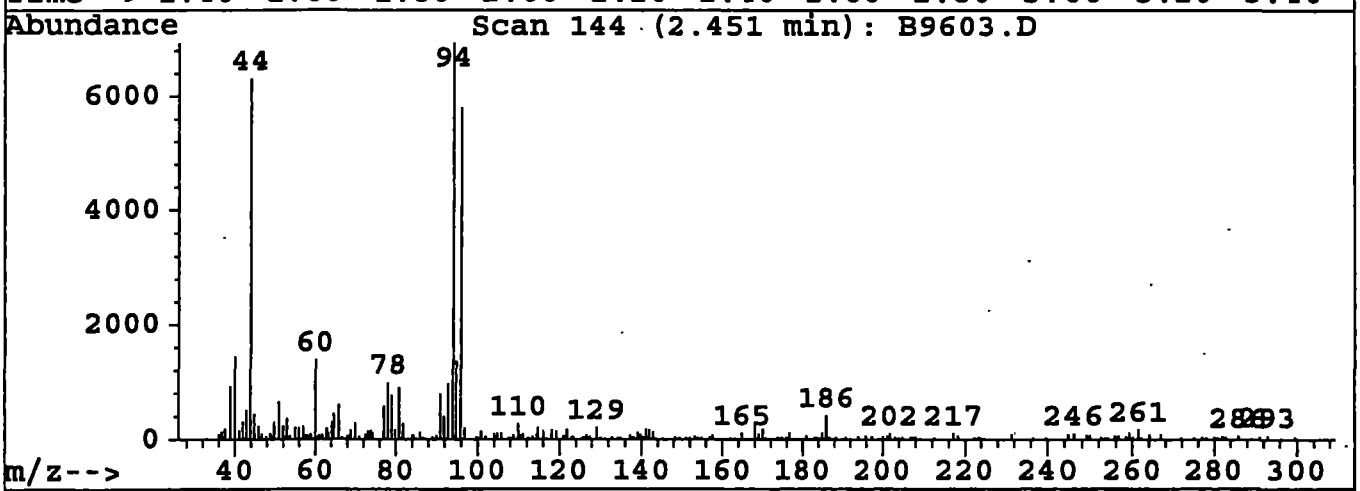
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9603.D
Acq On : 4 Feb 102 10:24 am
Sample : CCV
Misc :
Quant Time: Feb 4 10:52 19102

Vial: 5
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration





TIC: B9603.D

(6) Chloroethane
2.45min 0.21ug/Kg
response 1393

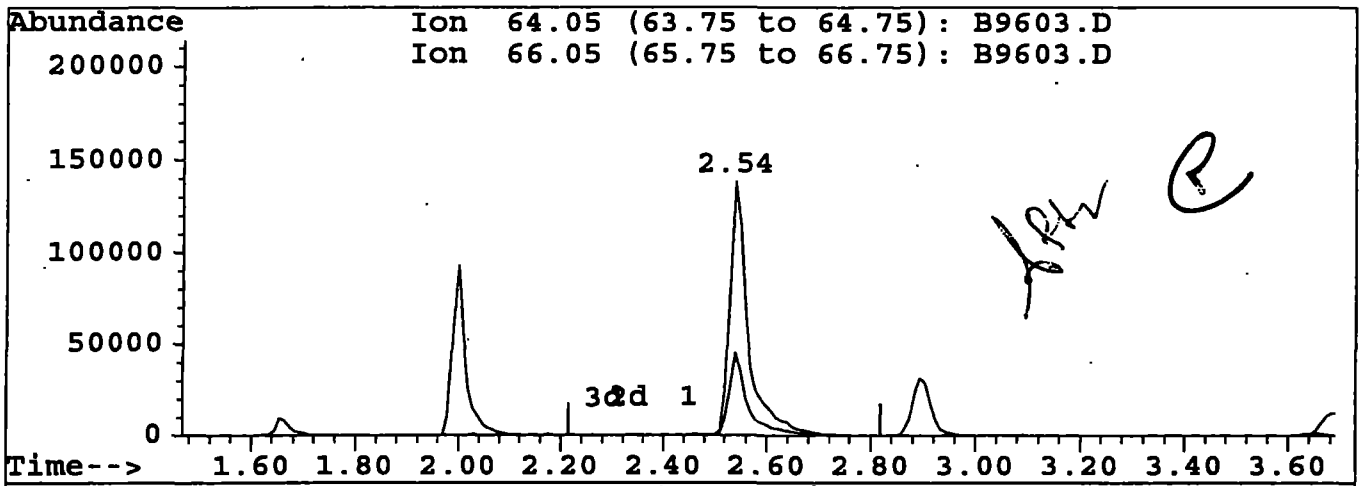
Ion	Exp%	Act%
64.05	100	100
66.05	31.90	87.62#
0.00	0.00	0.00
0.00	0.00	0.00

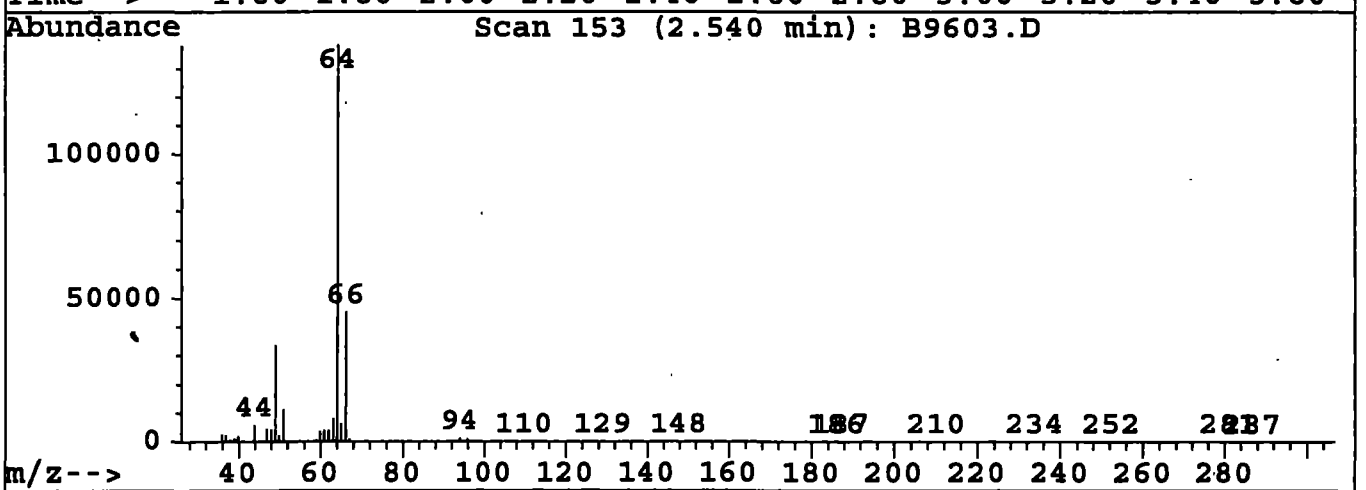
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9603.D
Acq On : 4 Feb 102 10:24 am
Sample : CCV
Misc :
Quant Time: Feb 4 11:32 19102

Vial: 5
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration





TIC: B9603.D

(6) Chloroethane
2.54min 50.67ug/Kg m
response 340440

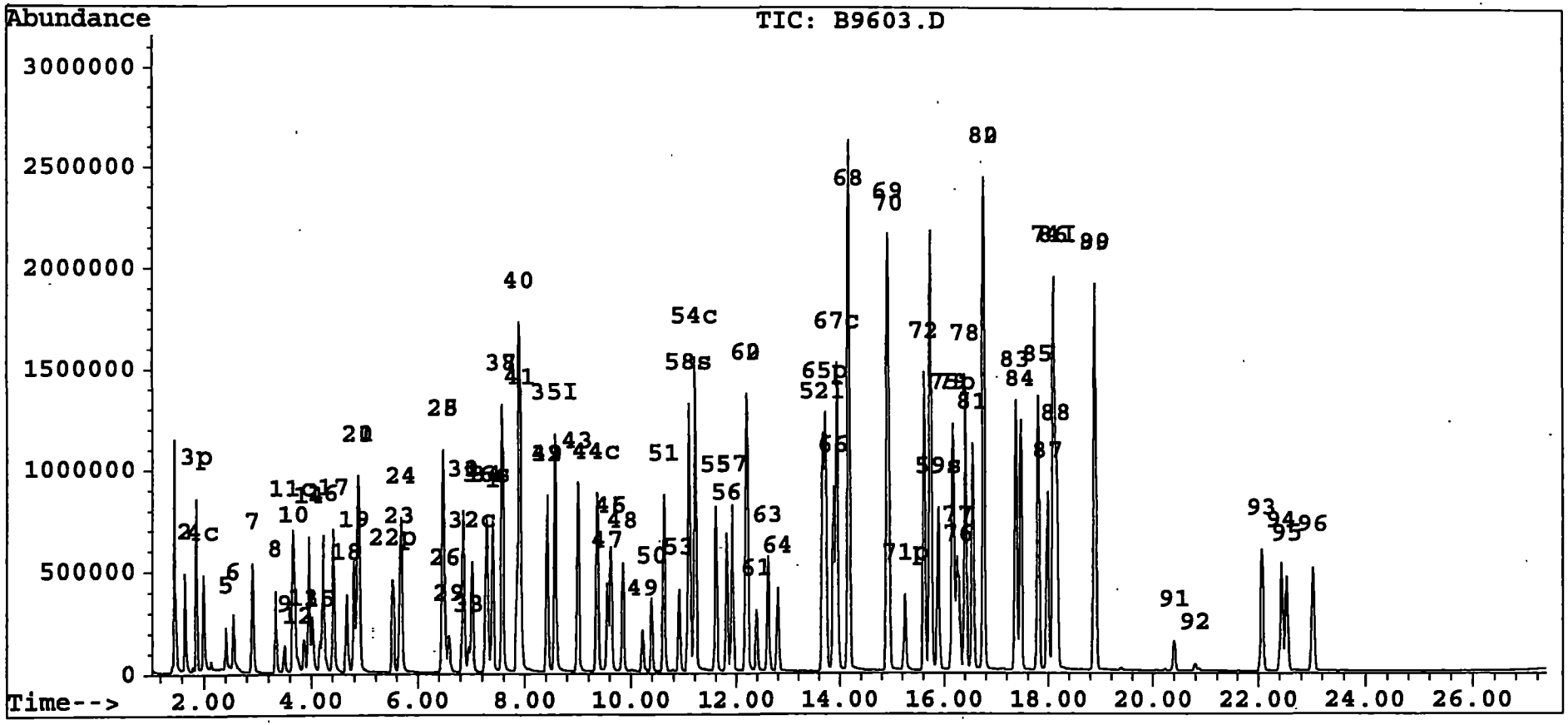
Ion	Exp%	Act%
64.05	100	100
66.05	31.90	32.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9603..
Acq On : 4 Feb 102 10:24 am
Sample : CCV
Misc :
Quant Time: Feb 4 11:32 19102

Vial: 5
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration



Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9620.D Vial: 11
Acq On : 5 Feb 102 9:40 am Operator: DROOT
Sample : CCV Inst : 5971 - In
Misc : Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	1.000	1.000	0.0	139	-0.07
2		Dichlorodifluoromethane	0.659	0.678	-3.0	130	-0.02
3	p	Chloromethane	1.087	1.131	-4.0	134	-0.02
4	c	Vinyl Chloride	0.691	0.730	-5.6	134	-0.03
5		Bromomethane	0.366	0.297	18.8	104	-0.02
6		Chloroethane	0.441	0.427	3.2	122	-0.04
7		Trichlorofluoromethane	0.744	0.839	-12.7	141	-0.04
8		Diethyl Ether	0.353	0.412	-16.5	148	-0.05
9		Acrolein	0.043	0.054	-24.1	159	-0.05
10		FREON 113	0.133	0.154	-15.6	140	-0.05
11	c	1,1-Diclethene	0.405	0.484	-19.5	152	-0.05
12		Acetone	0.125	0.172	-38.0#	173	-0.05
13		Iodomethane	0.172	0.140	18.2	105	-0.05
[illegible]		Carbon Disulfide	1.622	1.948	-20.1	155	-0.06
[illegible]		Acetonitrile	0.012	0.014	-15.4	154	-0.05
16		Allyl Chloride	0.250	0.282	-12.7	145	-0.06
17		Methylene Chloride	0.543	0.611	-12.5	149	-0.06
18		TBA	0.046	0.061	-31.5#	176	-0.06
19		Acrylonitrile	0.153	0.194	-26.6#	163	-0.07
20		Methyl-t-Butyl Ether	1.138	1.346	-18.3	151	-0.06
21		trans-1,2-Dichloroethene	0.425	0.517	-21.5	157	-0.06
22	p	1,1-Diclethane	0.820	0.975	-18.9	153	-0.06
23		Vinyl Acetate	0.967	1.124	-16.2	144	-0.07
24		2-Chloro-1,3-butadiene	0.861	0.890	-3.3	128	-0.07
25		2,2-Dichloropropane	0.630	0.712	-13.1	140	-0.07
26		2-Butanone	0.256	0.326	-27.3#	165	-0.06
27		Ethyl Acetate	0.000	0.000	0.0	0#	-0.07
28		cis-1,2-Dichloroethene	0.525	0.641	-22.0	158	-0.07
29		Propionitrile	0.068	0.082	-19.0	157	-0.07
30		Methacrylonitrile	0.158	0.196	-24.1	163	-0.07
31		Bromochloromethane	0.264	0.320	-21.6	162	-0.07
32	c	Chloroform	0.770	0.883	-14.7	149	-0.07
33		Tetrahydrofuran	0.176	0.201	-14.5	159	-0.06
34		1,1,1-Trichloroethane	0.679	0.734	-8.1	133	-0.07
35	I	1,4 - Difluorobenzene	1.000	1.000	0.0	130	-0.07
36	s	surr4,Dibrflmethane	0.240	0.258	-7.5	138	-0.07
37		Carbontetrachloride	0.286	0.326	-14.0	135	-0.07
3[illegible]		1,1-Dichloropropene	0.427	0.456	-6.8	127	-0.07
3[illegible]		Iso-Butyl Alcohol	0.023	0.024	-7.3	128	-0.08
40		Benzene	1.269	1.415	-11.5	137	-0.08
41		1,2-Dichloroethane	0.281	0.327	-16.4	144	-0.07

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9620.D Vial: 11
Acq On : 5 Feb 102 9:40 am Operator: DROOT
Sample : CCV Inst : 5971 - In
Misc : Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42		N-Heptane	0.451	0.484	-7.4	126	-0.08
43		Trichloroethene	0.328	0.366	-11.6	138	-0.07
44	c	1,2-Diclpropane	0.358	0.384	-7.2	132	-0.07
45		Methyl Methacrylate	0.195	0.219	-11.9	144	-0.07
46		1,4-Dioxane	0.003	0.004	-16.0	159	-0.07
47		Dibromomethane	0.163	0.201	-23.3	157	-0.08
48		Bromodichloromethane	0.349	0.398	-14.3	144	-0.07
49		2-Nitropropane	0.082	0.084	-2.5	128	-0.07
50		2-Chloroethylvinyl Ether	0.121	0.204	-68.5#	223#	-0.07
51		cis-1,3-Dichloropropene	0.513	0.564	-10.0	138	-0.07
52	I	d5 - Chlorobenzene	1.000	1.000	0.0	132	-0.07
53		4-Methyl-2-Pentanone	0.466	0.503	-7.9	133	-0.07
	c	Toluene	1.502	1.735	-15.5	147	-0.08
55		trans-1,3-Dichloropropene	0.584	0.650	-11.3	142	-0.07
56		Ethyl Methacrylate	0.443	0.447	-1.1	129	-0.07
57		1,1,2-Trichloroethane	0.310	0.347	-12.1	142	-0.07
58	s	surr3,Toluene-d8	1.144	1.159	-1.3	126	-0.07
59	s	surr2,bfb	0.457	0.457	-0.1	126	-0.07
60		Tetrachloroethene	0.360	0.446	-23.8	156	-0.07
61		2-Hexanone	0.334	0.306	8.3	116	-0.07
62		1,3-Dichloropropane	0.679	0.764	-12.6	144	-0.08
63		Dibromochloromethane	0.385	0.460	-19.3	158	-0.08
64		1,2-Dibromoethane	0.389	0.459	-17.8	155	-0.08
65	p	Chlorobenzene	0.994	1.150	-15.7	151	-0.07
66		1,1,1,2-Tetrachloroethane	0.359	0.418	-16.2	150	-0.08
67	c	Ethylbenzene	1.607	1.854	-15.4	145	-0.07
68		(m+p)Xylene	0.590	0.692	-17.3	150	-0.07
69		o-Xylene	0.587	0.667	-13.5	146	-0.08
70		Styrene	1.010	1.157	-14.5	149	-0.07
71	p	Bromoform	0.239	0.293	-22.6	163	-0.07
72		Isopropylbenzene	1.525	1.750	-14.8	145	-0.08
73		Cyclohexanone	0.000	0.000	0.0	130	-0.08
74	I	d4 - Dichlorobenzene	1.000	1.000	0.0	124	-0.08
75	p	1,1,2,2-Tetrachloroethane	1.140	1.385	-21.5	150	-0.07
76		Trans-1,4-Dichloro-2-butene	0.314	0.358	-13.8	139	-0.08
77		1,2,3-Trichloropropane	0.320	0.397	-24.1	153	-0.07
[illegible]		n-Propylbenzene	4.381	5.230	-19.4	143	-0.08
[illegible]		Bromobenzene	0.912	1.107	-21.4	158	-0.07
80		1,3,5-Trimethylbenzene	2.704	3.210	-18.7	144	-0.07
81		2-Chlorotoluene	2.615	3.078	-17.7	143	-0.07

(#) = Out of Range

450

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9620.D Vial: 11
Acq On : 5 Feb 102 9:40 am Operator: DROOT
Sample : CCV Inst : 5971 - In
Misc : Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82	4-Chlorotoluene	2.890	3.370	-16.6	145	-0.07
83	tert-Butylbenzene	2.460	2.907	-18.2	140	-0.07
84	1,2,4-Trimethylbenzene	2.681	3.152	-17.6	143	-0.08
85	sec-Butylbenzene	3.917	4.598	-17.4	137	-0.08
86	p-Isopropyltoluene	3.022	3.506	-16.0	139	-0.08
87	1,3-Dclbenz	1.415	1.695	-19.8	147	-0.08
88	1,4-Dclbenz	1.525	1.791	-17.4	146	-0.07
89	n-Butylbenzene	2.863	3.345	-16.8	136	-0.08
90	1,2-Dclbenz	1.408	1.648	-17.1	143	-0.08
91	1,2-Dibromo-3-chloropropane	0.172	0.220	-28.1#	160	-0.07
92	Nitrobenzene	0.073	0.074	-2.3	154	-0.07
93	1,2,4-Tcbenzene	0.839	0.995	-18.7	146	-0.08
94	Hexachlorobt	0.489	0.562	-14.9	133	-0.08
	Naphthalen	1.820	1.914	-5.2	137	-0.07
96	1,2,3-Tclbenzene	0.742	0.872	-17.5	145	-0.07
97	TOTAL XYLENE	0.000	0.000	0.0	0#	-0.01

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9620.D Vial: 11
Acq On : 5 Feb 102 9:40 am Operator: DROOT
Sample : CCV Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 5 10:09 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.34	168	794272	50.00	ug/Kg	-0.07
35) 1,4 - Difluorobenzene	8.52	114	1526428	50.00	ug/Kg	-0.07
52) d5 - Chlorobenzene	13.61	117	1198137	50.00	ug/Kg	-0.07
74) d4 - Dichlorobenzene	18.05	152	463728	50.00	ug/Kg	-0.08
System Monitoring Compounds						**%Recovery**
36) surr4,Dibrflmethane	7.21	113	393337	53.76	ug/Kg	107.52%
58) surr3,Toluene-d8	11.03	98	1388665	50.66	ug/Kg	101.31%
59) surr2,bfb	15.83	95	547906	50.04	ug/Kg	100.08%
Target Compounds						**Qvalue**
2) Dichlorodifluoromethane	1.64	85	538561	51.48	ug/Kg	97
3) Chloromethane	1.85	50	898345	52.02	ug/Kg	99
4) Vinyl Chloride	1.98	62	579570	52.80	ug/Kg	98
5) Bromomethane	2.38	94	236143	40.60	ug/Kg	96
6) Chloroethane	2.51	64	338996	48.38	ug/Kgm	1
7) Trichlorofluoromethane	2.86	101	666047	56.35	ug/Kg	99
8) Diethyl Ether	3.30	59	327031	58.25	ug/Kg	96
9) Acrolein	3.45	56	212727	310.13	ug/Kg	95
10) FREON 113	3.64	85	122223	57.81	ug/Kg	92
11) 1,1-Diclethene	3.61	96	384307	59.77	ug/Kg	95
12) Acetone	3.70	43	136891	69.00	ug/Kg	98
13) Iodomethane	3.82	127	111499	38.91	ug/Kg	88
14) Carbon Disulfide	3.91	76	1547576	60.06	ug/Kg	100
15) Acetonitrile	4.11	41	218502	1154.02	ug/Kg	99
16) Allyl Chloride	4.17	76	223885	56.37	ug/Kg	97
17) Methylene Chloride	4.37	84	485421	56.23	ug/Kg	97
18) TBA	4.62	59	963269	1315.41	ug/Kg	100
19) Acrylonitrile	4.74	53	768609	316.51	ug/Kg	98
20) Methyl-t-Butyl Ether	4.84	73	1068796	59.14	ug/Kg	99
21) trans-1,2-Dichloroethene	4.81	96	410466	60.76	ug/Kg	96
22) 1,1-Diclethane	5.48	63	774532	59.43	ug/Kg	97
23) Vinyl Acetate	5.60	43	893004	58.11	ug/Kg	97
24) 2-Chloro-1,3-butadiene	5.63	53	706982	51.67	ug/Kg	95
25) 2,2-Dichloropropane	6.42	77	565648	56.56	ug/Kg	97
26) 2-Butanone	6.47	43	259093	63.63	ug/Kg	98
28) cis-1,2-Dichloroethene	6.43	96	509178	61.02	ug/Kg	97
29) Propionitrile	6.53	54	323682	297.50	ug/Kg	99
30) Methacrylonitrile	6.79	67	155942	62.06	ug/Kg	96
31) Bromochloromethane	6.80	128	254554	60.81	ug/Kg	98
32) Chloroform	6.96	83	701414	57.36	ug/Kg	97
33) Tetrahydrofuran	6.90	42	159787	62.63	ug/Kg	100
34) 1,1,1-Trichloroethane	7.24	97	582996	54.06	ug/Kg	98
37) Carbontetrachloride	7.52	117	498043	57.01	ug/Kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9620.D
Acq On : 5 Feb 102 9:40 am
Sample : CCV
Misc :
Quant Time: Feb 5 10:09 19102

Vial: 11
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	1,1-Dichloropropene	7.52	75	695986	53.39	ug/Kg	97
39)	Iso-Butyl Alcohol	8.37	43	739553	1072.57	ug/Kg	99
40)	Benzene	7.84	78	2160545	55.76	ug/Kg	99
41)	1,2-Dichloroethane	7.87	62	498928	58.19	ug/Kg	99
42)	N-Heptane	8.37	43	739539	53.71	ug/Kg	98
43)	Trichloroethene	8.95	95	558370	55.82	ug/Kg	95
44)	1,2-Diclpropane	9.30	63	585864	53.59	ug/Kg	98
45)	Methyl Methacrylate	9.56	69	333758	55.97	ug/Kg	100
46)	1,4-Dioxane	9.56	88	108626	1160.05	ug/Kg	95
47)	Dibromomethane	9.49	93	306670	61.65	ug/Kg	97
48)	Bromodichloromethane	9.78	83	608095	57.13	ug/Kg	98
49)	2-Nitropropane	10.16	43	257607	102.53	ug/Kg	97
50)	2-Chloroethylvinyl Ether	10.34	63	310738	84.25	ug/Kg	100
51)	cis-1,3-Dichloropropene	10.56	75	861147	55.01	ug/Kg	97
53)	4-Methyl-2-Pentanone	10.85	43	602100	53.96	ug/Kg	99
54)	Toluene	11.14	91	2078856	57.76	ug/Kg	99
55)	trans-1,3-Dichloropropene	11.55	75	778470	55.66	ug/Kg	99
56)	Ethyl Methacrylate	11.75	69	535997	50.53	ug/Kg	100
57)	1,1,2-Trichloroethane	11.86	83	415860	56.04	ug/Kg	99
60)	Tetrachloroethene	12.13	166	534050	61.89	ug/Kg	95
61)	2-Hexanone	12.33	43	366512	45.84	ug/Kg	99
62)	1,3-Dichloropropane	12.15	76	915358	56.28	ug/Kg	94
63)	Dibromochloromethane	12.55	129	551173	59.67	ug/Kg	100
64)	1,2-Dibromoethane	12.74	107	549698	58.91	ug/Kg	99
65)	Chlorobenzene	13.66	112	1377657	57.84	ug/Kg	95
66)	1,1,1,2-Tetrachloroethane	13.82	131	500447	58.12	ug/Kg	97
67)	Ethylbenzene	13.89	91	2221729	57.69	ug/Kg	98
68)	(m+p)Xylene	14.12	106	1658921	117.34	ug/Kg	98
69)	o-Xylene	14.84	106	799130	56.77	ug/Kg	99
70)	Styrene	14.87	104	1386121	57.25	ug/Kg	98
71)	Bromoform	15.19	173	350667	61.29	ug/Kg	98
72)	Isopropylbenzene	15.55	105	2096944	57.38	ug/Kg	99
75)	1,1,2,2-Tetrachloroethane	16.11	83	642062	60.74	ug/Kg	98
76)	Trans-1,4-Dichloro-2-buten	16.22	53	165907	56.89	ug/Kg	98
77)	1,2,3-Trichloropropane	16.18	110	184107	62.05	ug/Kg	95
78)	n-Propylbenzene	16.34	91	2425313	59.69	ug/Kg	98
79)	Bromobenzene	16.09	156	513164	60.70	ug/Kg	95
80)	1,3,5-Trimethylbenzene	16.69	105	1488679	59.37	ug/Kg#	49
81)	2-Chlorotoluene	16.49	91	1427265	58.86	ug/Kg	98
82)	4-Chlorotoluene	16.69	91	1562987	58.32	ug/Kg	99
83)	tert-Butylbenzene	17.31	119	1348190	59.09	ug/Kg	100
84)	1,2,4-Trimethylbenzene	17.40	105	1461881	58.80	ug/Kg	97
85)	sec-Butylbenzene	17.74	105	2132139	58.69	ug/Kg	99
86)	p-Isopropyltoluene	18.03	119	1626035	58.02	ug/Kg#	60

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9620.D Vial: 11
Acq On : 5 Feb 102 9:40 am Operator: DROOT
Sample : CCV Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 5 10:09 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
87) 1,3-Dclbenz	17.92	146	785959	59.91 ug/Kg	98
88) 1,4-Dclbenz	18.10	146	830667	58.72 ug/Kg	98
89) n-Butylbenzene	18.83	91	1551004	58.40 ug/Kg	100
90) 1,2-Dclbenz	18.81	146	764394	58.55 ug/Kg	99
91) 1,2-Dibromo-3-chloropropan	20.35	157	101955	64.07 ug/Kg	96
92) Nitrobenzene	20.74	77	34468	51.16 ug/Kg	95
93) 1,2,4-Tcbenzene	22.00	180	461549	59.35 ug/Kg	93
94) Hexachlorobt	22.37	225	260734	57.46 ug/Kg	97
95) Naphthalen	22.47	128	887576	56.75 ug/Kg	98
96) 1,2,3-Tclbenzene	22.96	180	404406	58.77 ug/Kg	96

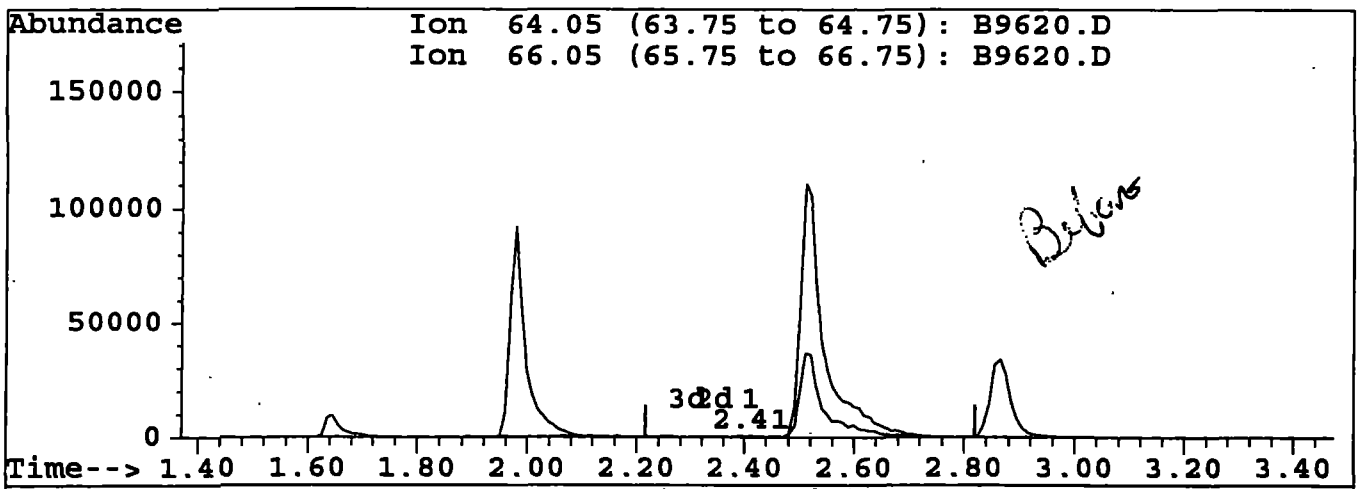
(#) = qualifier out of range (m) = manual integration

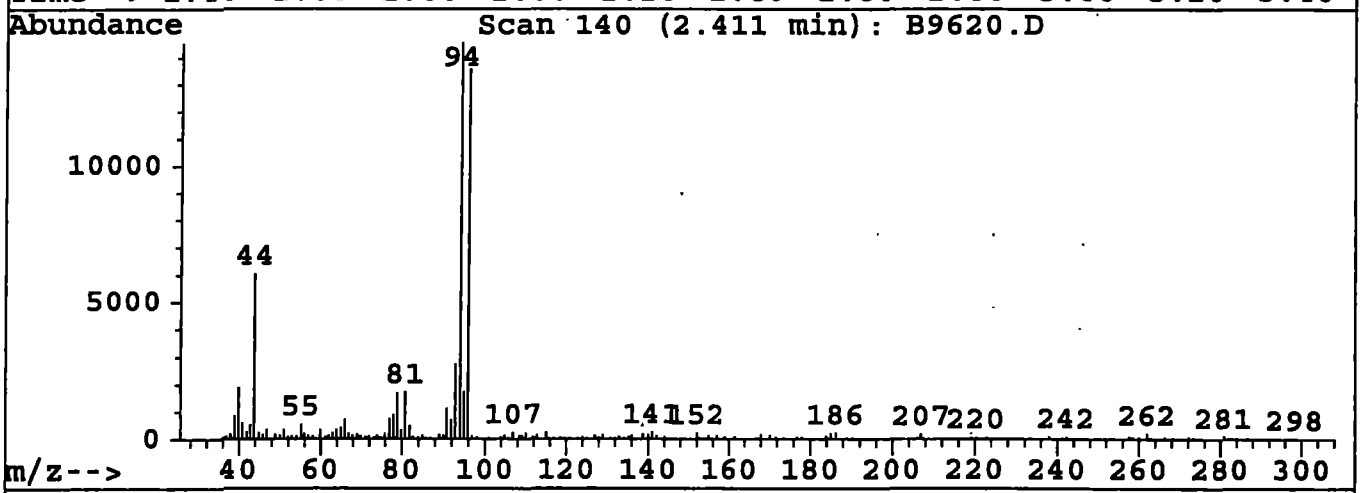
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9620.D
Acq On : 5 Feb 102 9:40 am
Sample : CCV
Misc :
Quant Time: Feb 5 10:08 19102

Vial: 11
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration





TIC: B9620.D

(6) Chloroethane
2.41min 0.10ug/Kg
response 672

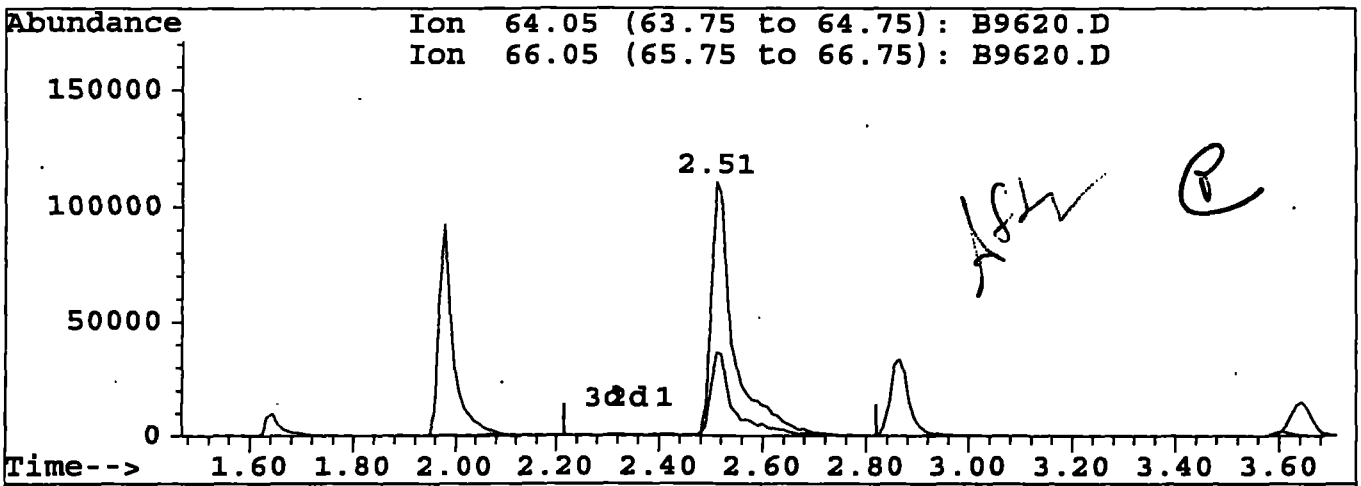
Ion	Exp%	Act%
64.05	100	100
66.05	31.90	200.56#
0.00	0.00	0.00
0.00	0.00	0.00

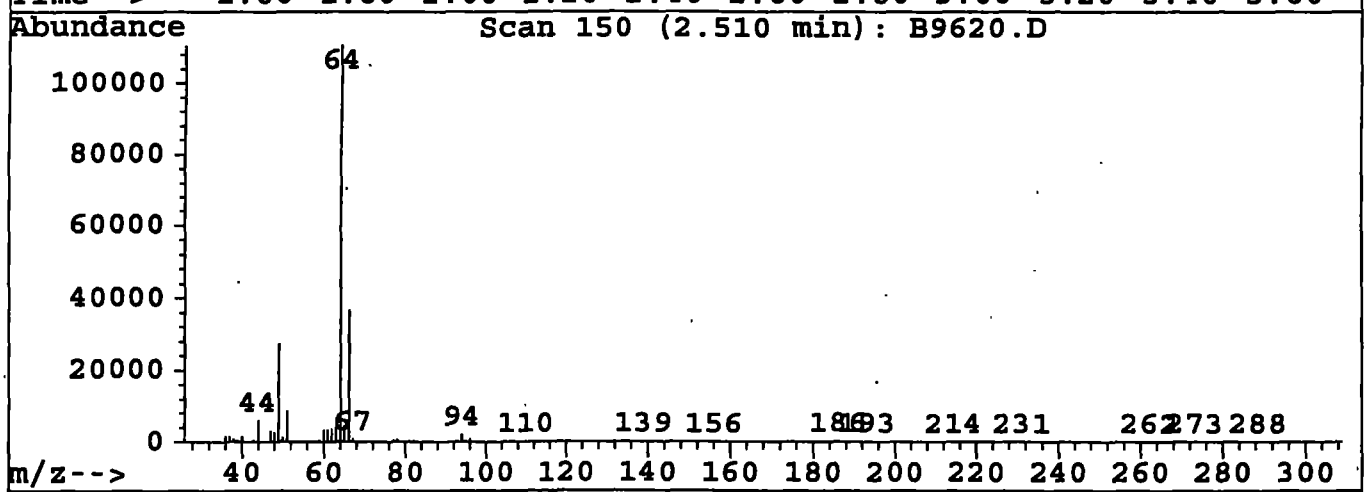
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9620.D
Acq On : 5 Feb 102 9:40 am
Sample : CCV
Misc :
Quant Time: Feb 5 10:09 19102

Vial: 11
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration





TIC: B9620.D

(6) Chloroethane
2.51min 48.38ug/Kg m
response 338996

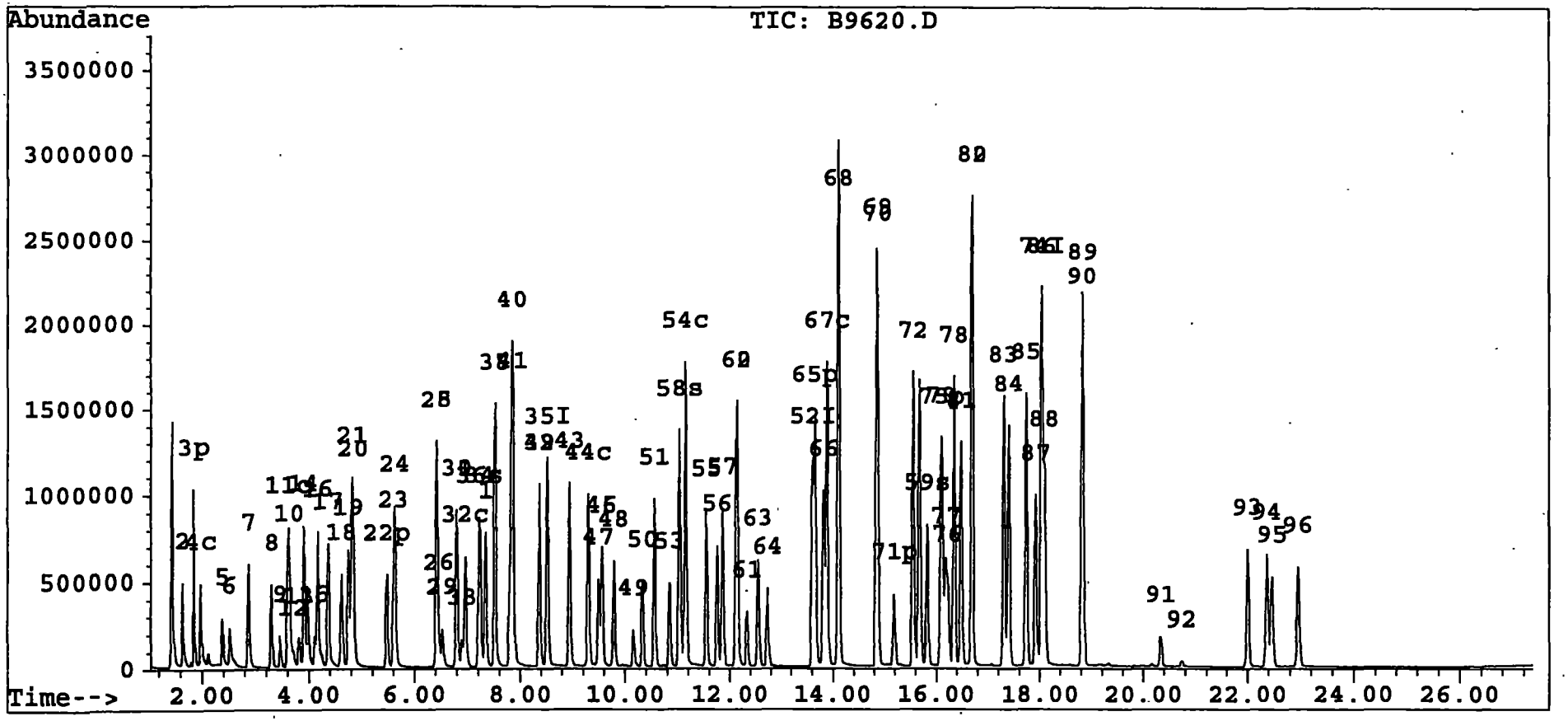
Ion	Exp%	Act%
64.05	100	100
66.05	31.90	33.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data F. : J:\ACQUDATA\MSVOA3\DATA\020502\B9620..
Acq On : 5 Feb 102 9:40 am
Sample : CCV
Misc :
Quant Time: Feb 5 10:09 19102

Vial: 11
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration



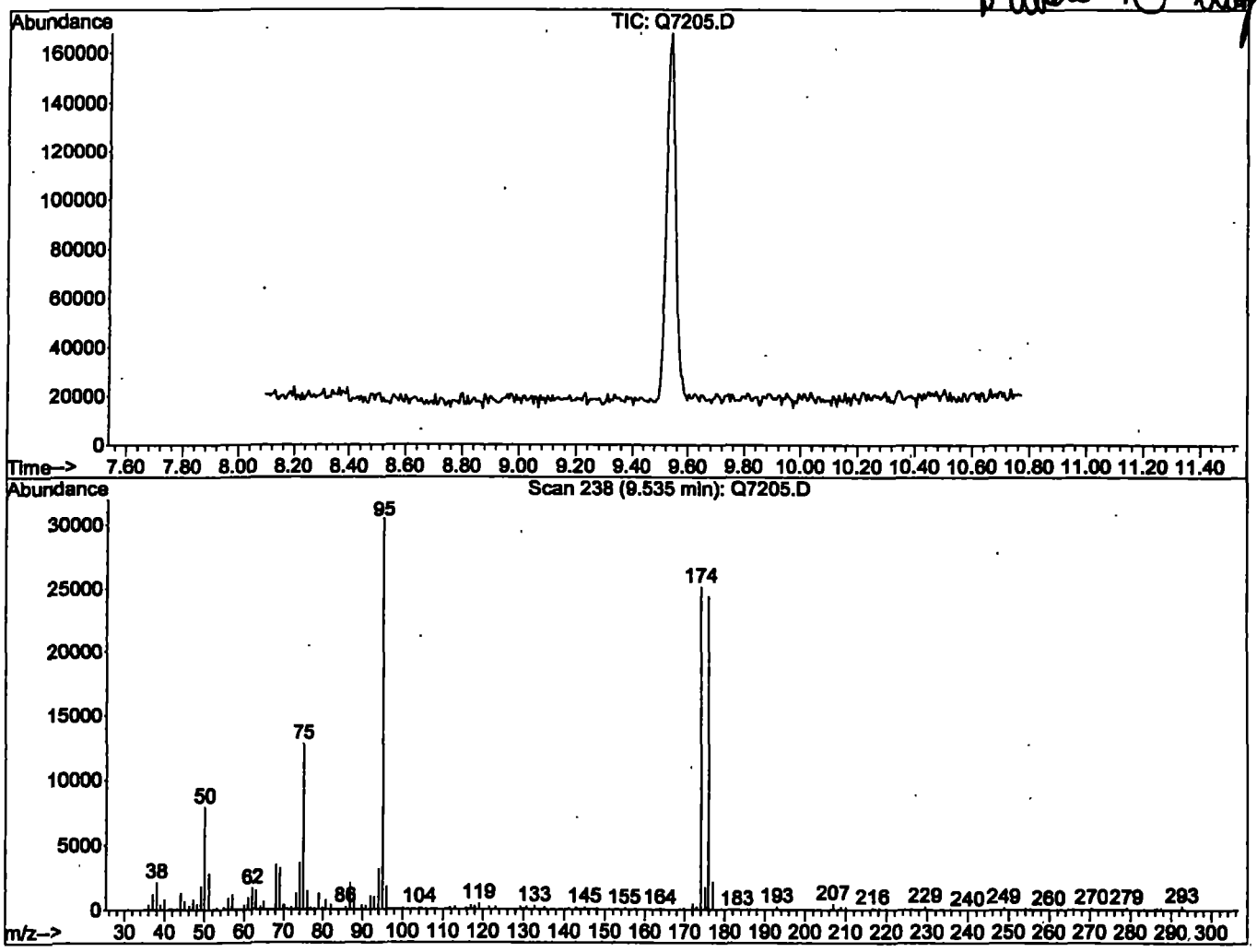
457

VOLATILE ORGANICS

RAW QC DATA

BFB

Data File : J:\ACQUDATA\MSVOA6\DATA\012402\Q7205.D Vial: 86
Acq On : 24 Jan 2002 10:18 am Operator: B.ALLGEIER
Sample : TUNE Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0116.M (RTE Integrator)
Title : 8260B WATERS

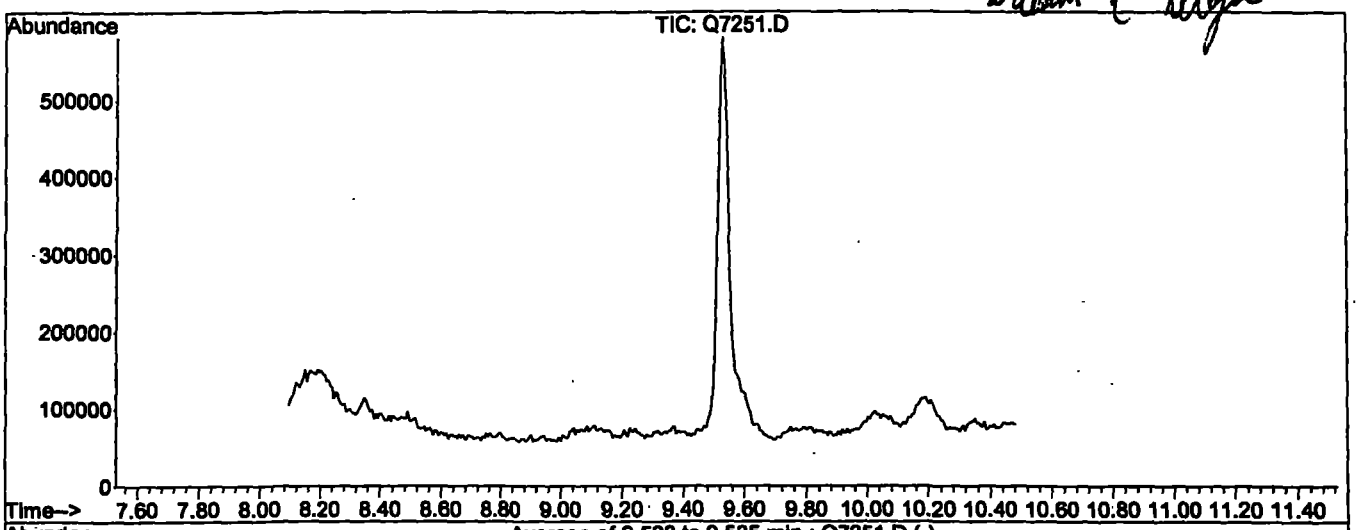


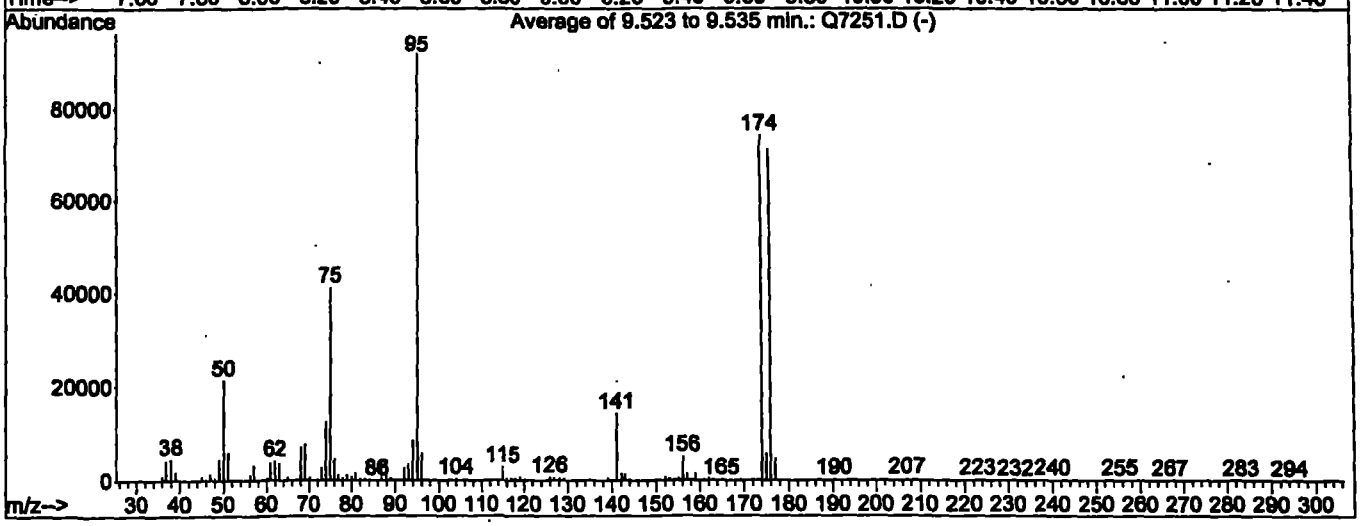
Spectrum Information: Scan 238

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.0	7922	PASS
75	95	30	60	41.8	12747	PASS
95	95	100	100	100.0	30504	PASS
96	95	5	9	5.8	1770	PASS
173	174	0.00	2	0.9	228	PASS
174	95	50	120	82.5	25152	PASS
175	174	5	9	6.9	1729	PASS
176	174	95	101	97.2	24448	PASS
177	176	5	9	9.0	2193	PASS

BFB

Data File : J:\ACQUDATA\MSVOA6\DATA\012902\Q7251.D Vial: 1
Acq On : 29 Jan 2002 6:15 am Operator: B.ALLGEIER
Sample : TUNE Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS





AutoFind: Scans 236, 237, 238; Background Corrected with Scan 227

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.3	21461	PASS
75	95	30	60	44.6	41088	PASS
95	95	100	100	100.0	92112	PASS
96	95	5	9	6.5	5997	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	80.6	74246	PASS
175	174	5	9	7.8	5790	PASS
176	174	95	101	95.9	71173	PASS
177	176	5	9	6.7	4770	PASS

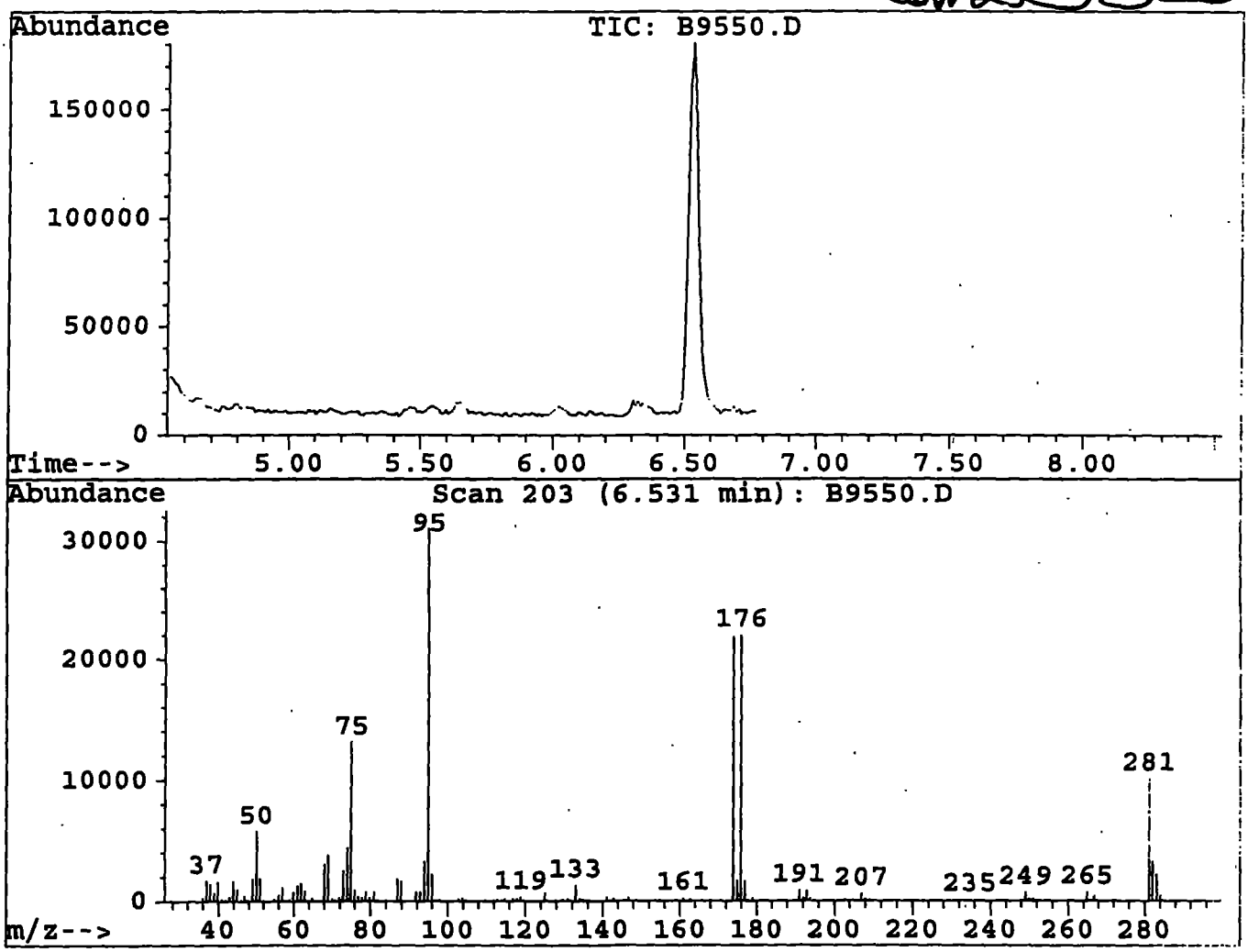
Q7251.D EXP0124.M Tue Jan 29 06:27:49 2002

BFB

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9550.D
Acq On : 1 Feb 102 10:22 am
Sample : TUNE CHECK
Misc : SOIL SIDE

Vial: 4
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\EXP1217.M
Title : 8260voa



Peak Apex is scan: 203

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	5749	PASS
75	95	30	60	42.1	13106	PASS
95	95	100	100	100.0	31096	PASS
96	95	5	9	7.1	2196	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	70.6	21952	PASS
175	174	5	9	7.6	1664	PASS
176	174	95	101	100.5	22072	PASS
177	176	5	9	7.2	1597	PASS

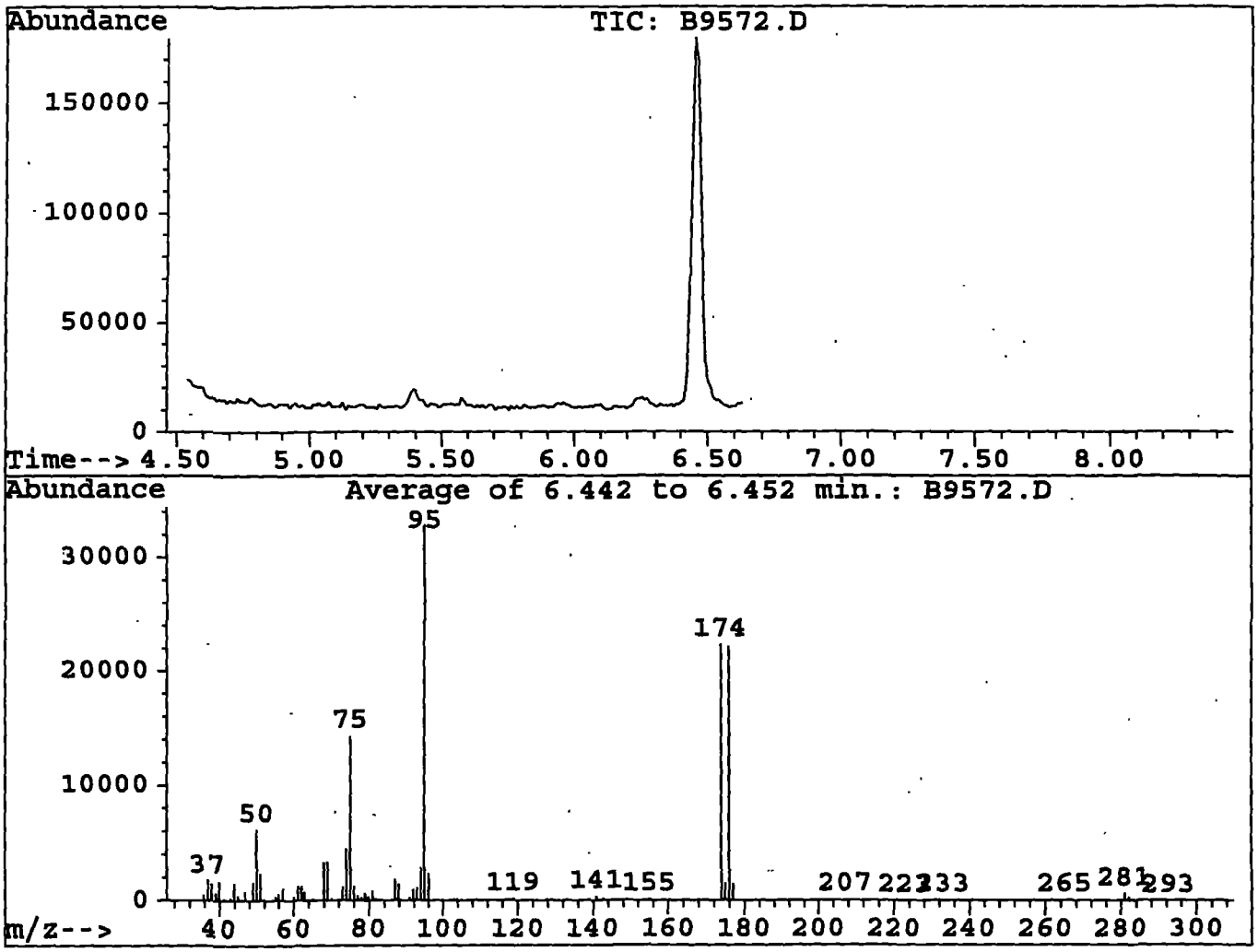
B9550.D EXP1217.M Fri Feb 01 10:29:32 2002

BFB

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9572.D
Acq On : 2 Feb 102 11:08 am
Sample : TUNE CHECK
Misc :

Vial: 3
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa



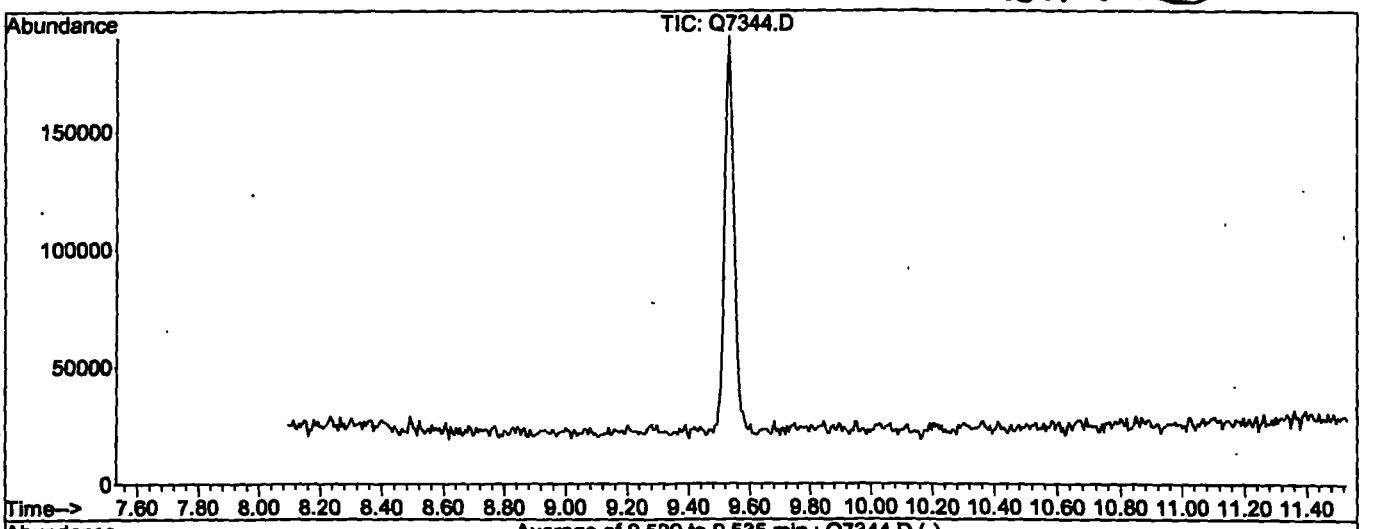
Peak Apex is scan: 196

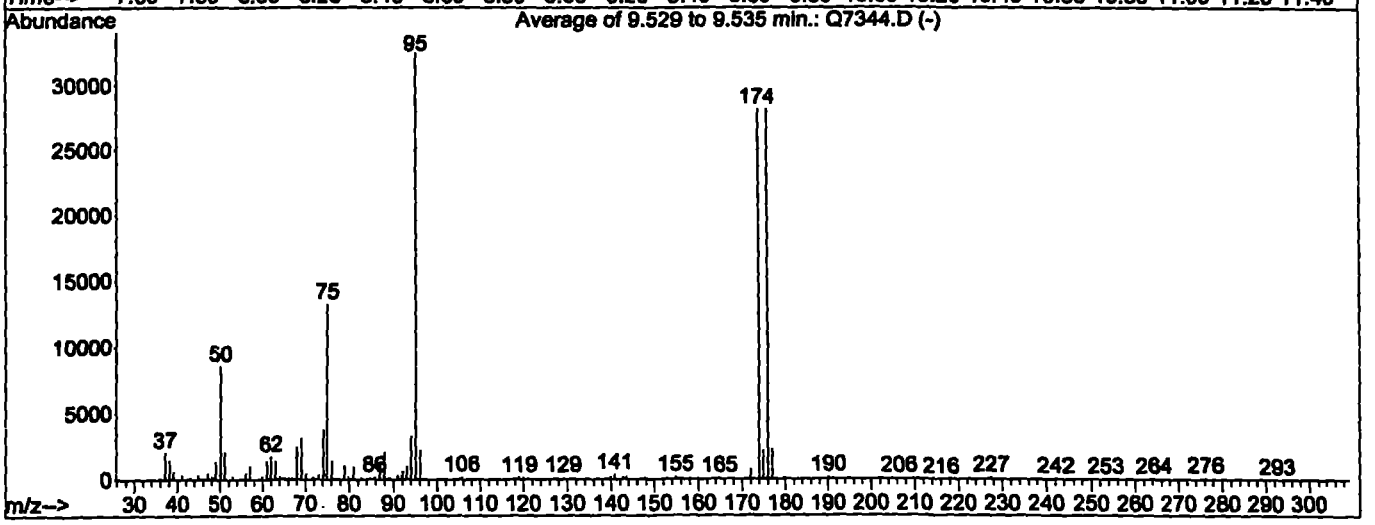
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	6164	PASS
75	95	30	60	43.6	14316	PASS
95	95	100	100	100.0	32820	PASS
96	95	5	9	7.0	2295	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	68.1	22364	PASS
175	174	5	9	6.7	1506	PASS
176	174	95	101	99.1	22164	PASS
177	176	5	9	6.5	1445	PASS

B9572.D SOL0201.M Sat Feb 02 11:16:02 2002

BFB

Data File : J:\ACQUDATA\MSVOA6\DATA\020302\Q7344.D Vial: 2
Acq On : 3 Feb 2002 11:11 am Operator: TTRAVER
Sample : TUNE CHECK Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS





Spectrum Information: Average of 9.529 to 9.535 min.

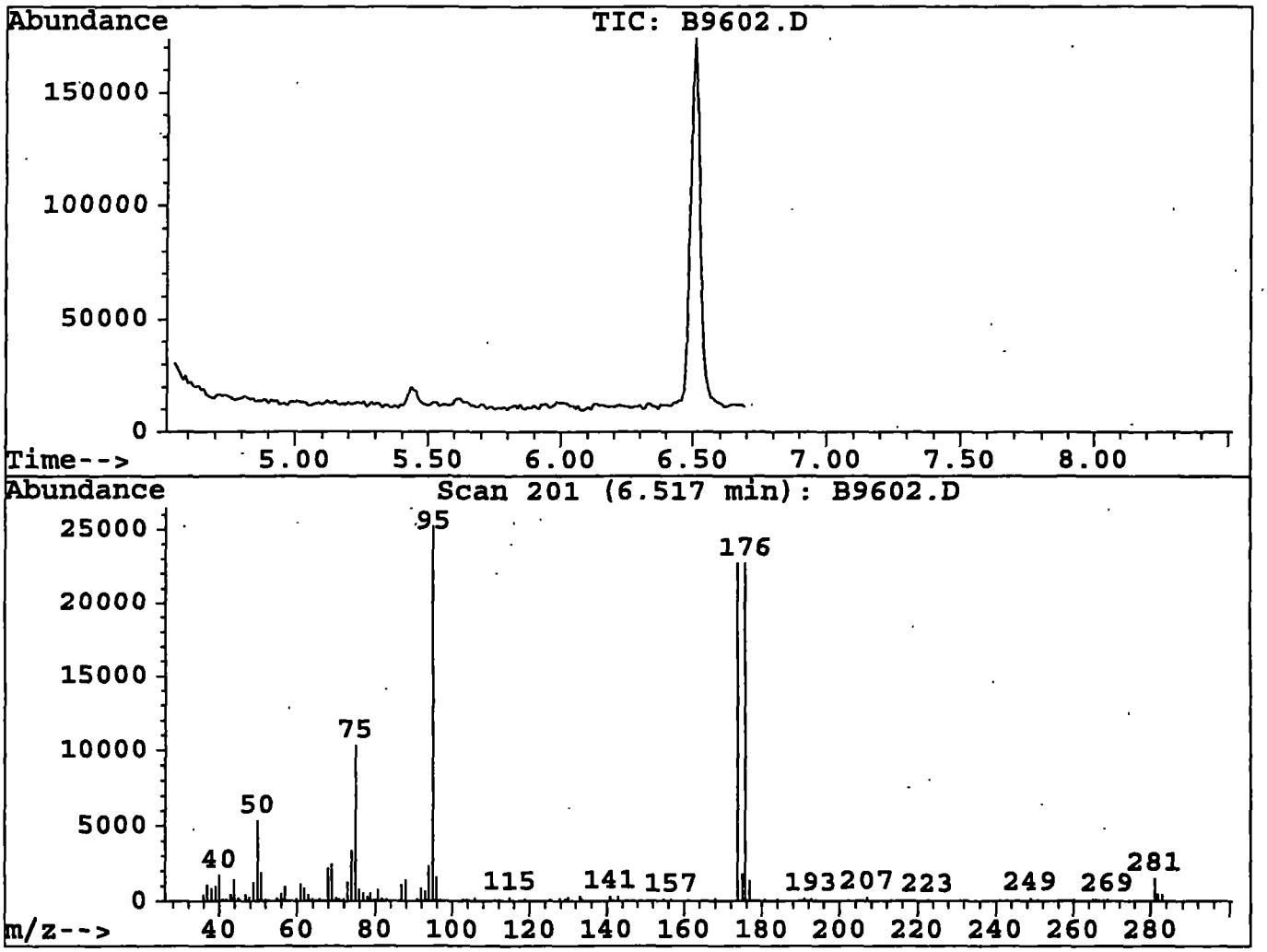
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.4	8567	PASS
75	95	30	60	40.7	13240	PASS
95	95	100	100	100.0	32500	PASS
96	95	5	9	6.9	2237	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	86.7	28179	PASS
175	174	5	9	7.7	2169	PASS
176	174	95	101	99.9	28152	PASS
177	176	5	9	8.1	2284	PASS

BFB

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9602.D
Acq On : 4 Feb 102 9:48 am
Sample : TUNE CHECK
Misc :

Vial: 4
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\EXP1217.M
Title : 8260voa



Peak Apex is scan: 201

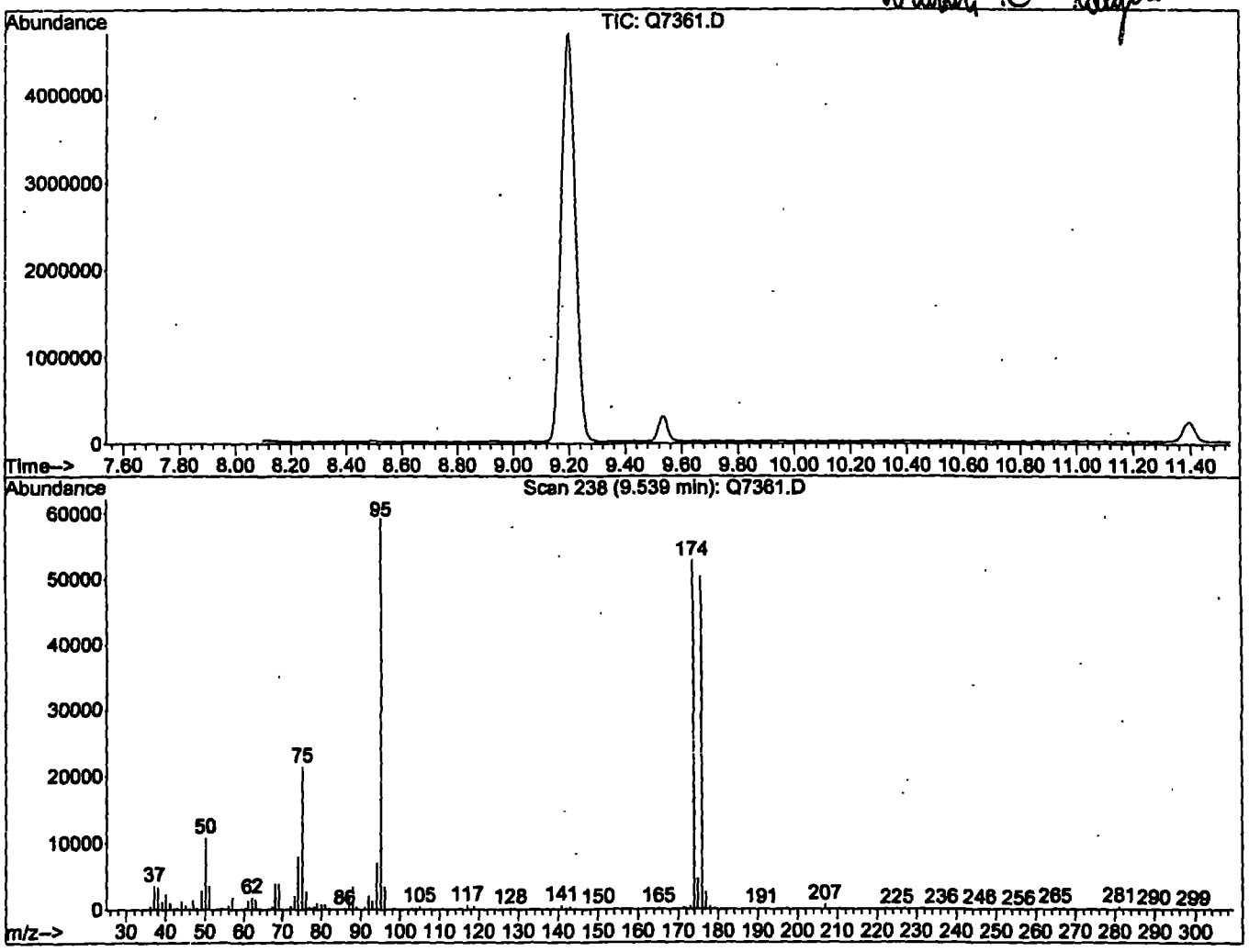
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.2	5361	PASS
75	95	30	60	40.9	10331	PASS
95	95	100	100	100.0	25248	PASS
96	95	5	9	6.3	1600	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	90.0	22712	PASS
175	174	5	9	7.8	1779	PASS
176	174	95	101	100.0	22720	PASS
177	176	5	9	5.9	1330	PASS

B9602.D EXP1217.M Mon Feb 04 09:56:06 2002

2/4

BFB

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7361.D Vial: 2
Acq On : 4 Feb 2002 10:42 am Operator: BALLGEIER
Sample : TUNE Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS



Spectrum Information: Scan 238

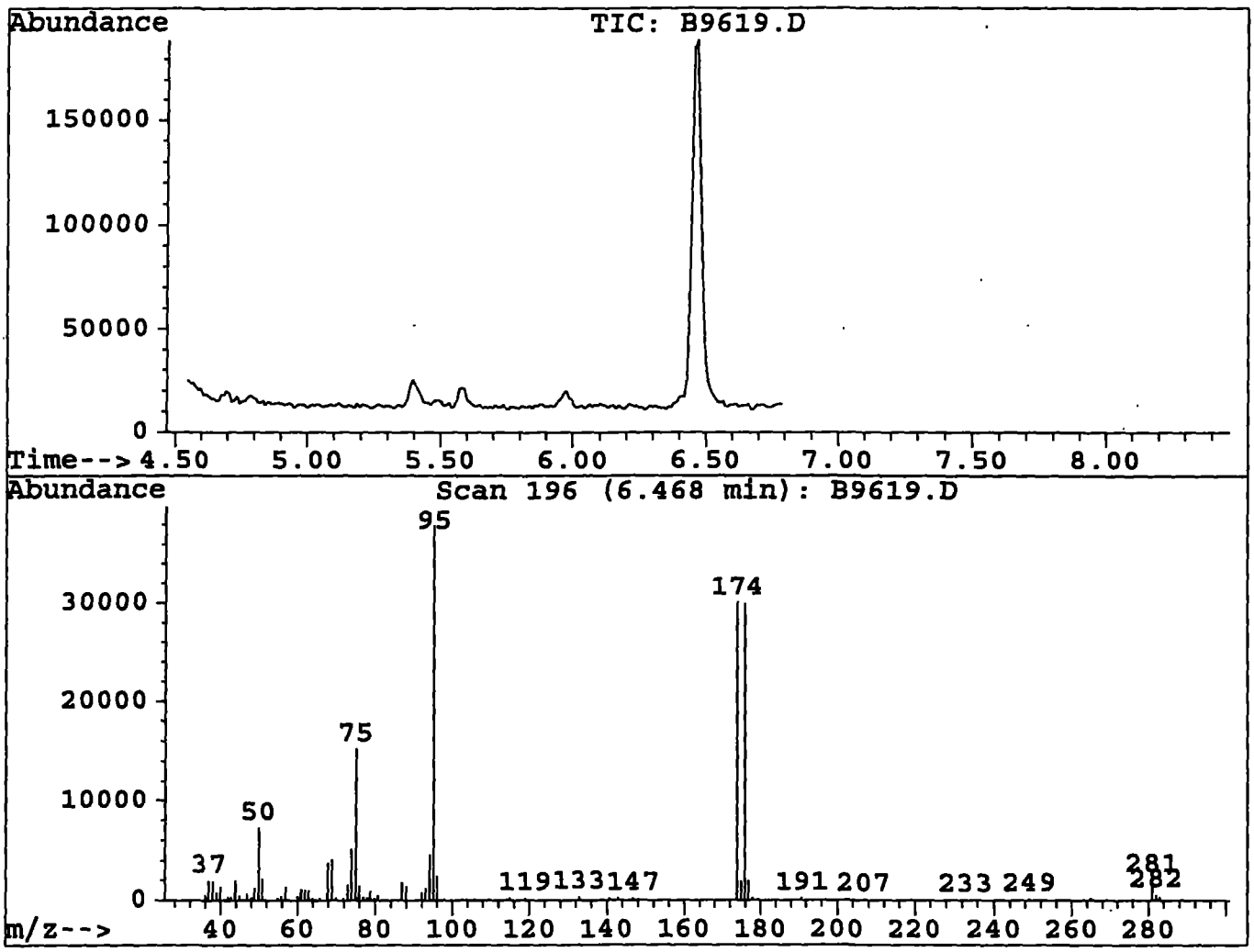
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	10789	PASS
75	95	30	60	36.1	21392	PASS
95	95	100	100	100.0	59336	PASS
96	95	5	9	5.8	3462	PASS
173	174	0.00	2	1.0	527	PASS
174	95	50	120	89.1	52872	PASS
175	174	5	9	8.9	4686	PASS
176	174	95	101	95.4	50448	PASS
177	176	5	9	5.3	2691	PASS

BFB

Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9619.D
Acq On : 5 Feb 102 9:04 am
Sample : TUNE
Misc :

Vial: 12
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\EXP1217.M
Title : 8260voa



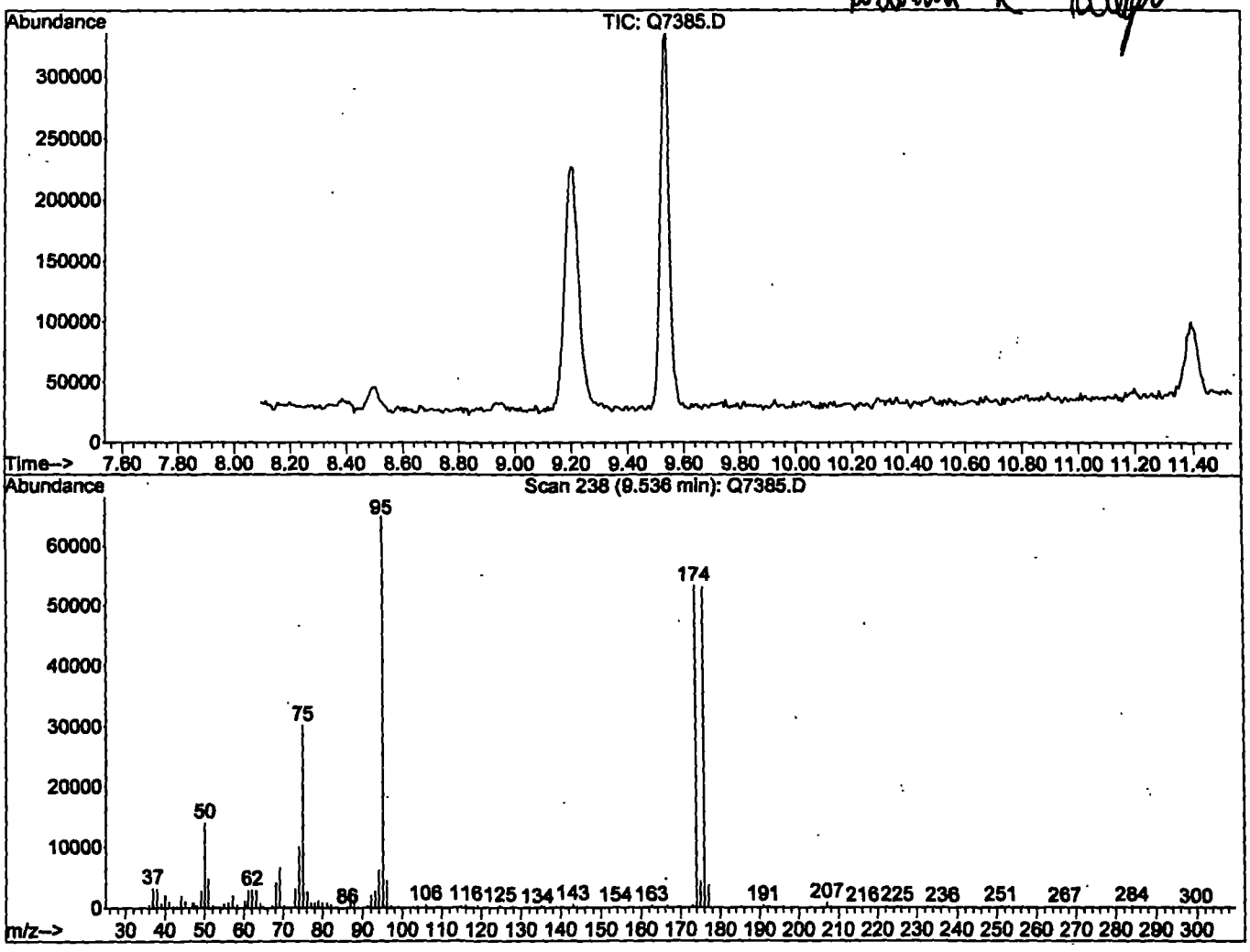
Peak Apex is scan: 196

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.1	7242	PASS
75	95	30	60	40.1	15220	PASS
95	95	100	100	100.0	37936	PASS
96	95	5	9	6.5	2457	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	79.3	30096	PASS
175	174	5	9	6.3	1909	PASS
176	174	95	101	99.6	29976	PASS
177	176	5	9	6.6	1986	PASS

B9619.D EXP1217.M Tue Feb 05 09:11:40 2002

BFB

Data File : J:\ACQUDATA\MSVOA6\DATA\020502\Q7385.D Vial: 26
Acq On : 5 Feb 2002 11:19 am Operator: BALLGEIER
Sample : TUNE Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS



Spectrum Information: Scan 238

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	14078	PASS
75	95	30	60	46.5	30216	PASS
95	95	100	100	100.0	64928	PASS
96	95	5	9	6.8	4432	PASS
173	174	0.00	2	0.7	382	PASS
174	95	50	120	82.1	53328	PASS
175	174	5	9	8.1	4296	PASS
176	174	95	101	99.5	53064	PASS
177	176	5	9	6.8	3620	PASS

Q7385.D EXP0124.M Tue Feb 05 11:34:18 2002

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 529699 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 01/29/02			
ANALYTICAL DILUTION: 125.00			Dry Weight
ACETONE	20	2500 U	UG/KG
BENZENE	5.0	630 U	UG/KG
BROMODICHLOROMETHANE	5.0	630 U	UG/KG
BROMOFORM	5.0	630 U	UG/KG
BROMOMETHANE	5.0	630 U	UG/KG
2-BUTANONE (MEK)	10	1300 U	UG/KG
CARBON DISULFIDE	10	1300 U	UG/KG
CARBON TETRACHLORIDE	5.0	630 U	UG/KG
CHLOROBENZENE	5.0	630 U	UG/KG
CHLOROETHANE	5.0	630 U	UG/KG
CHLOROFORM	5.0	630 U	UG/KG
'LOROMETHANE	5.0	630 U	UG/KG
.BROMOCHLOROMETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHANE	5.0	630 U	UG/KG
1,2-DICHLOROETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHENE	5.0	630 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
1,2-DICHLOROPROPANE	5.0	630 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
ETHYLBENZENE	5.0	630 U	UG/KG
2-HEXANONE	10	1300 U	UG/KG
METHYLENE CHLORIDE	5.0	630 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1300 U	UG/KG
STYRENE	5.0	630 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	630 U	UG/KG
TETRACHLOROETHENE	5.0	630 U	UG/KG
TOLUENE	5.0	630 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	630 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	630 U	UG/KG
TRICHLOROETHENE	5.0	630 U	UG/KG
VINYL CHLORIDE	5.0	630 U	UG/KG
O-XYLENE	5.0	630 U	UG/KG
M+P-XYLENE	5.0	630 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	111	%
TOLUENE-D8	(71 - 128 %)	104	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	103	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012902\Q7255.D Vial: 5
Acq On : 29 Jan 2002 8:33 am Operator: B.ALLGEIER
Sample : MED BLK Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 30 12:39 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

52969
125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.56	168	1135978	50.00	ug/L	0.00
34) 1,4-Difluorobenzene	12.92	114	1827484	50.00	ug/L	0.00
58) d5-Chlorobenzene	18.20	117	1580698	50.00	ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.52	152	801151	50.00	ug/L	0.00
System Monitoring Compounds						
35) surr4,Dibrflmethane	11.61	113	587551	51.34	ug/L	0.00
Spiked Amount 50.000			Recovery	=	102.68%	
52) SURR3,Toluene-d8	15.55	98	1871779	52.06	ug/L	0.00
Spiked Amount 50.000			Recovery	=	104.12%	
57) SURR2,BFB	20.34	95	839128	55.59	ug/L	0.00
Spiked Amount 50.000			Recovery	=	111.18%	

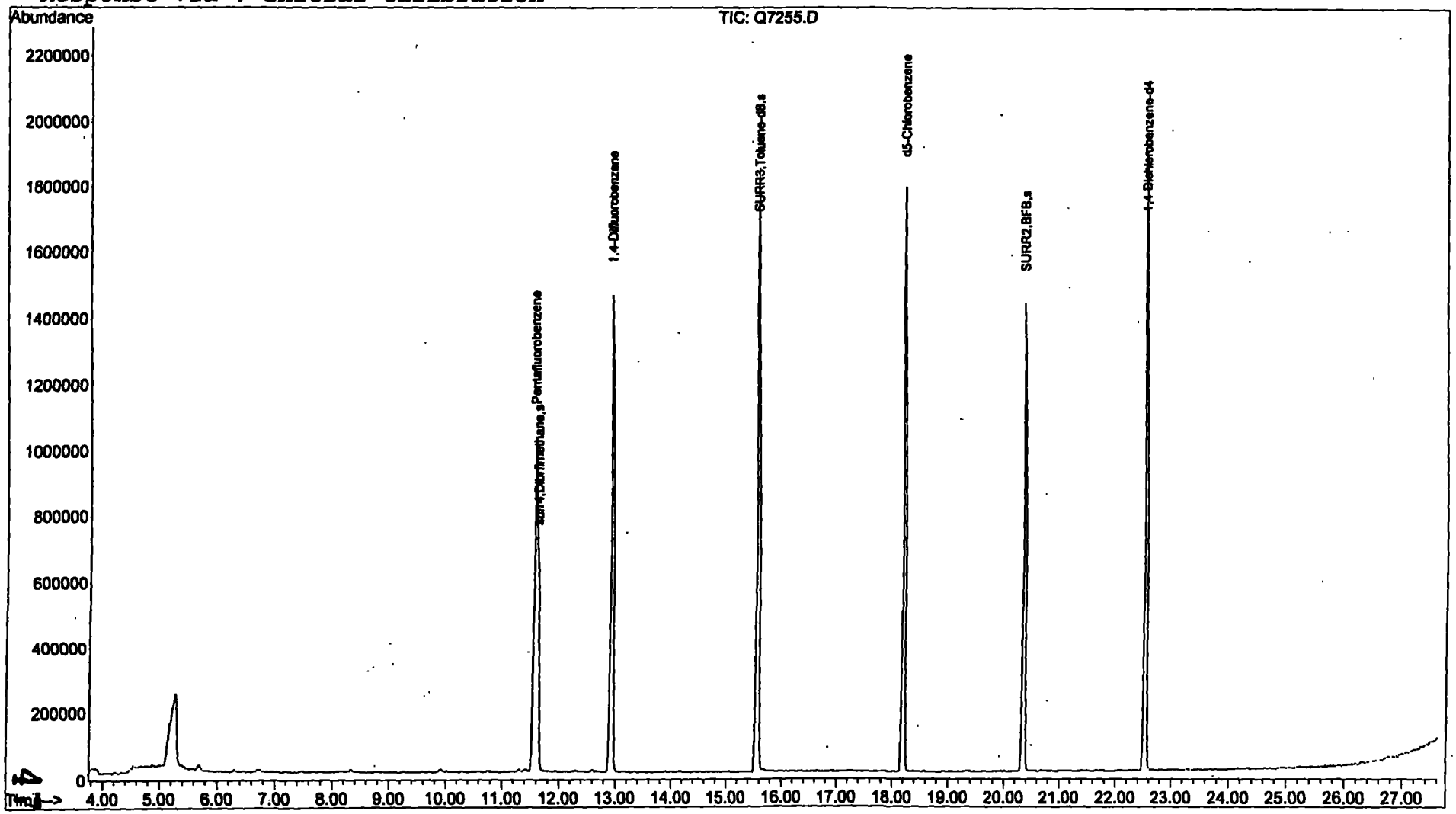
Target Compounds Qvalue

BA
1/30

(#) = qualifier out of range (m) = manual integration
Q7255.D EXP0124.M Wed Jan 30 12:39:27 2002

Data File : J:\ACQUDATA\MSVOA6\DATA\012902\Q7255.D Vial: 5
Acq On : 29 Jan 2002 8:33 am Operator: B.ALLGEIER
Sample : MED BLK Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 30 12:39 2002 Quant Results File: EXP0124.RES

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 529701 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/01/02			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	20 U	UG/KG
BENZENE	5.0	5.0 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.0 U	UG/KG
BROMOFORM	5.0	5.0 U	UG/KG
BROMOMETHANE	5.0	5.0 U	UG/KG
2-BUTANONE (MEK)	10	10 U	UG/KG
CARBON DISULFIDE	10	10 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.0 U	UG/KG
CHLOROBENZENE	5.0	5.0 U	UG/KG
CHLOROETHANE	5.0	5.0 U	UG/KG
CHLOROFORM	5.0	5.0 U	UG/KG
CHLOROMETHANE	5.0	5.0 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.0 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
ETHYLBENZENE	5.0	5.0 U	UG/KG
2-HEXANONE	10	10 U	UG/KG
METHYLENE CHLORIDE	5.0	5.0 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/KG
STYRENE	5.0	5.0 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/KG
TETRACHLOROETHENE	5.0	5.0 U	UG/KG
TOLUENE	5.0	5.0 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/KG
TRICHLOROETHENE	5.0	5.0 U	UG/KG
VINYL CHLORIDE	5.0	5.0 U	UG/KG
O-XYLENE	5.0	5.0 U	UG/KG
M+P-XYLENE	5.0	5.0 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	104	%
TOLUENE-D8	(71 - 128 %)	105	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	100	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9562.D
Acq On : 1 Feb 102 6:14 pm
Sample : MET BLANK 529701
Misc :
Quant Time: Feb 1 18:42 19102

Vial: 16
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:40:19 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.37	168	762512	50.00 ug/Kg	-0.04
35) 1,4 - Difluorobenzene	8.55	114	1477740	50.00 ug/Kg	-0.04
52) d5 - Chlorobenzene	13.64	117	1108361	50.00 ug/Kg	-0.04
74) d4 - Dichlorobenzene	18.08	152	448199	50.00 ug/Kg	-0.05
System Monitoring Compounds					%Recovery
36) surr4,Dibrflmethane	7.25	113	355045	50.12 ug/Kg	100.25%
58) surr3,Toluene-d8	11.06	98	1337335	52.73 ug/Kg	105.47%
59) surr2,bfb	15.86	95	525168	51.85 ug/Kg	103.69%
Target Compounds					Qvalue

Q2/2

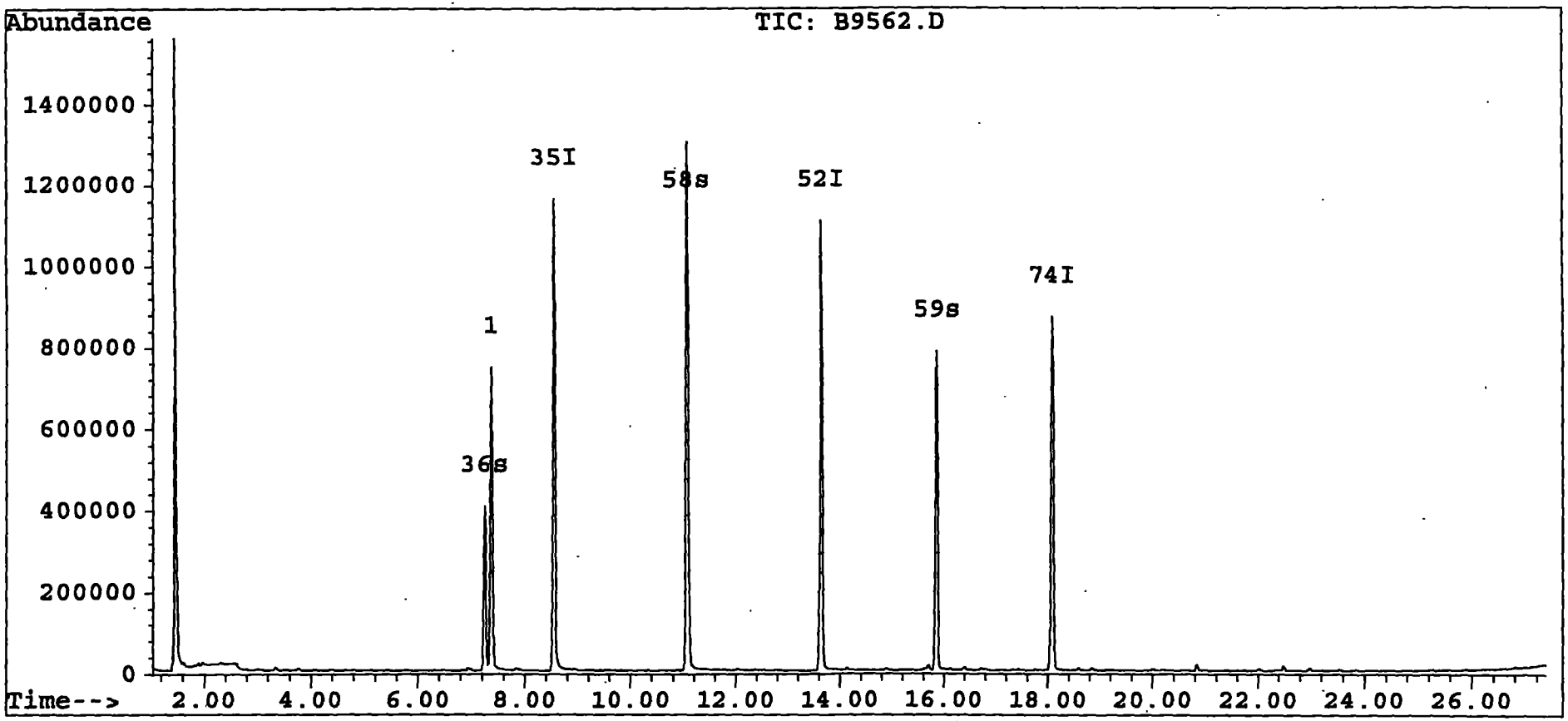
472

(#) = qualifier out of range (m) = manual integration

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9562.D
Acq On : 1 Feb 102 6:14 pm
Sample : MET BLANK
Misc :
Quant Time: Feb 1 18:42 19102

Vial: 16
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:40:19 2002
Response via : Multiple Level Calibration



473

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 529689 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/02/02			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	20 U	UG/KG
BENZENE	5.0	5.0 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.0 U	UG/KG
BROMOFORM	5.0	5.0 U	UG/KG
BROMOMETHANE	5.0	5.0 U	UG/KG
2-BUTANONE (MEK)	10	10 U	UG/KG
CARBON DISULFIDE	10	10 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.0 U	UG/KG
CHLOROBENZENE	5.0	5.0 U	UG/KG
CHLOROETHANE	5.0	5.0 U	UG/KG
CHLOROFORM	5.0	5.0 U	UG/KG
CHLOROMETHANE	5.0	5.0 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.0 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
ETHYLBENZENE	5.0	5.0 U	UG/KG
2-HEXANONE	10	10 U	UG/KG
METHYLENE CHLORIDE	5.0	5.0 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/KG
STYRENE	5.0	5.0 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/KG
TETRACHLOROETHENE	5.0	5.0 U	UG/KG
TOLUENE	5.0	5.0 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/KG
TRICHLOROETHENE	5.0	5.0 U	UG/KG
VINYL CHLORIDE	5.0	5.0 U	UG/KG
O-XYLENE	5.0	5.0 U	UG/KG
M+P-XYLENE	5.0	5.0 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	102	%
TOLUENE-D8	(71 - 128 %)	105	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	102	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9575.D
Acq On : 2 Feb 102 1:02 pm
Sample : MET BLK
Misc : 529689
Quant Time: Feb 2 13:30 19102

Vial: 6
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.33	168	784120	50.00 ug/Kg	-0.08
35) 1,4 - Difluorobenzene	8.51	114	1517317	50.00 ug/Kg	-0.08
52) d5 - Chlorobenzene	13.60	117	1160825	50.00 ug/Kg	-0.08
74) d4 - Dichlorobenzene	18.04	152	465563	50.00 ug/Kg	-0.09
System Monitoring Compounds					%Recovery
36) surr4,Dibrflmethane	7.21	113	369926	50.86 ug/Kg	101.73%
58) surr3,Toluene-d8	11.02	98	1389805	52.33 ug/Kg	104.65%
59) surr2,bfb	15.80	95	543057	51.19 ug/Kg	102.38%
Target Compounds					Qvalue
46) 1,4-Dioxane	9.58	88	211	~~2.27 ug/Kg#~~	~~12~~

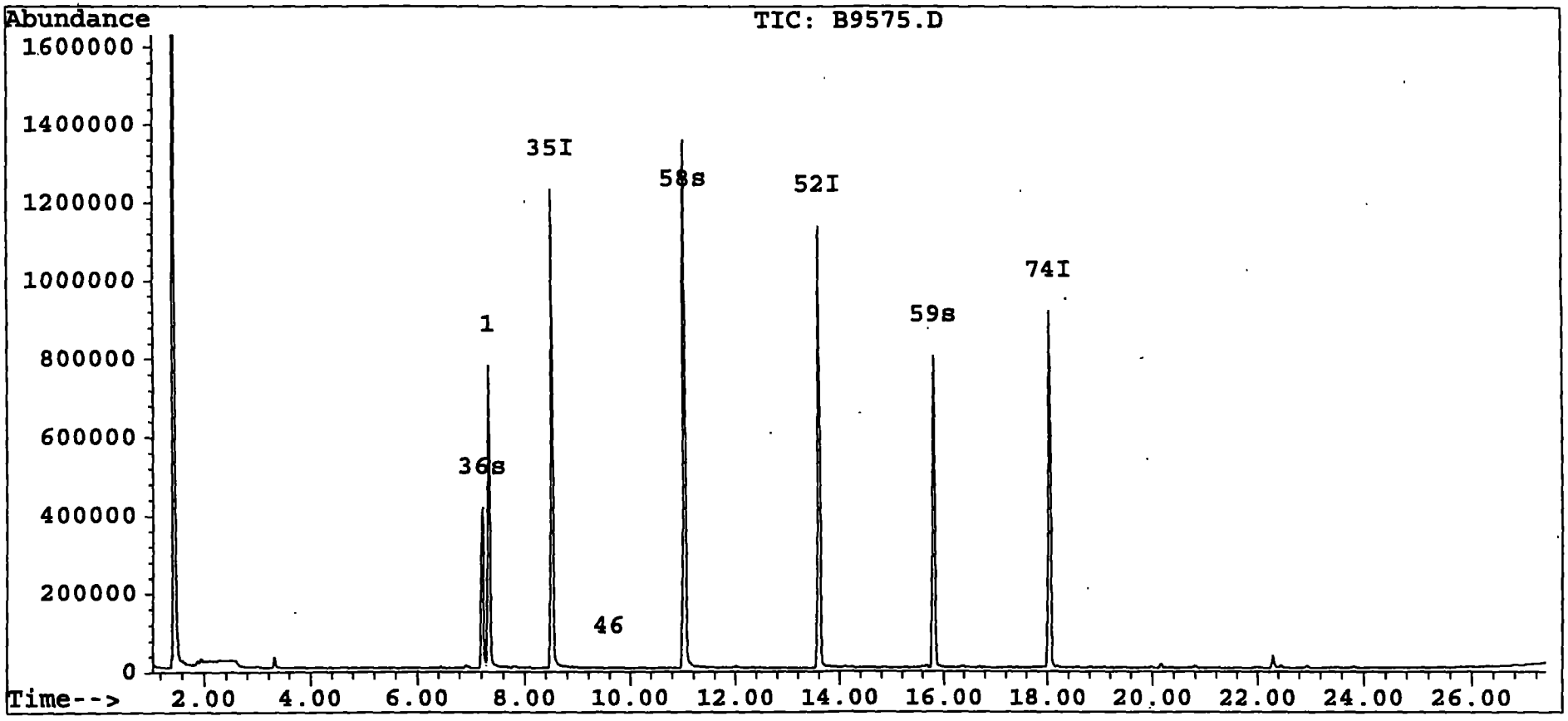
CR 2/3

(#) = qualifier out of range (m) = manual integration
B9575.D SOL0201.M Sat Feb 02 13:30:15 2002

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9575.D
Acq On : 2 Feb 102 1:02 pm
Sample : MET BLK
Misc :
Quant Time: Feb 2 13:30 19102

Vial: 6
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



476

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 529695 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/03/02			
ANALYTICAL DILUTION: 125.00			Dry Weight
ACETONE	20	2500 U	UG/KG
BENZENE	5.0	630 U	UG/KG
BROMODICHLOROMETHANE	5.0	630 U	UG/KG
BROMOFORM	5.0	630 U	UG/KG
BROMOMETHANE	5.0	630 U	UG/KG
2-BUTANONE (MEK)	10	1300 U	UG/KG
CARBON DISULFIDE	10	1300 U	UG/KG
CARBON TETRACHLORIDE	5.0	630 U	UG/KG
CHLOROBENZENE	5.0	630 U	UG/KG
CHLOROETHANE	5.0	630 U	UG/KG
CHLOROFORM	5.0	630 U	UG/KG
CHLOROMETHANE	5.0	630 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHANE	5.0	630 U	UG/KG
1,2-DICHLOROETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHENE	5.0	630 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
1,2-DICHLOROPROPANE	5.0	630 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
ETHYLBENZENE	5.0	630 U	UG/KG
2-HEXANONE	10	1300 U	UG/KG
METHYLENE CHLORIDE	5.0	630 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1300 U	UG/KG
STYRENE	5.0	630 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	630 U	UG/KG
TETRACHLOROETHENE	5.0	630 U	UG/KG
TOLUENE	5.0	630 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	630 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	630 U	UG/KG
TRICHLOROETHENE	5.0	630 U	UG/KG
VINYL CHLORIDE	5.0	630 U	UG/KG
O-XYLENE	5.0	630 U	UG/KG
M+P-XYLENE	5.0	630 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	90	%
TOLUENE-D8	(71 - 128 %)	99	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	106	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020302\Q7348.D Vial: 6
Acq On : 3 Feb 2002 1:38 pm Operator: TTRAVER
Sample : MED BLK Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 4 12:38 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

589695 125

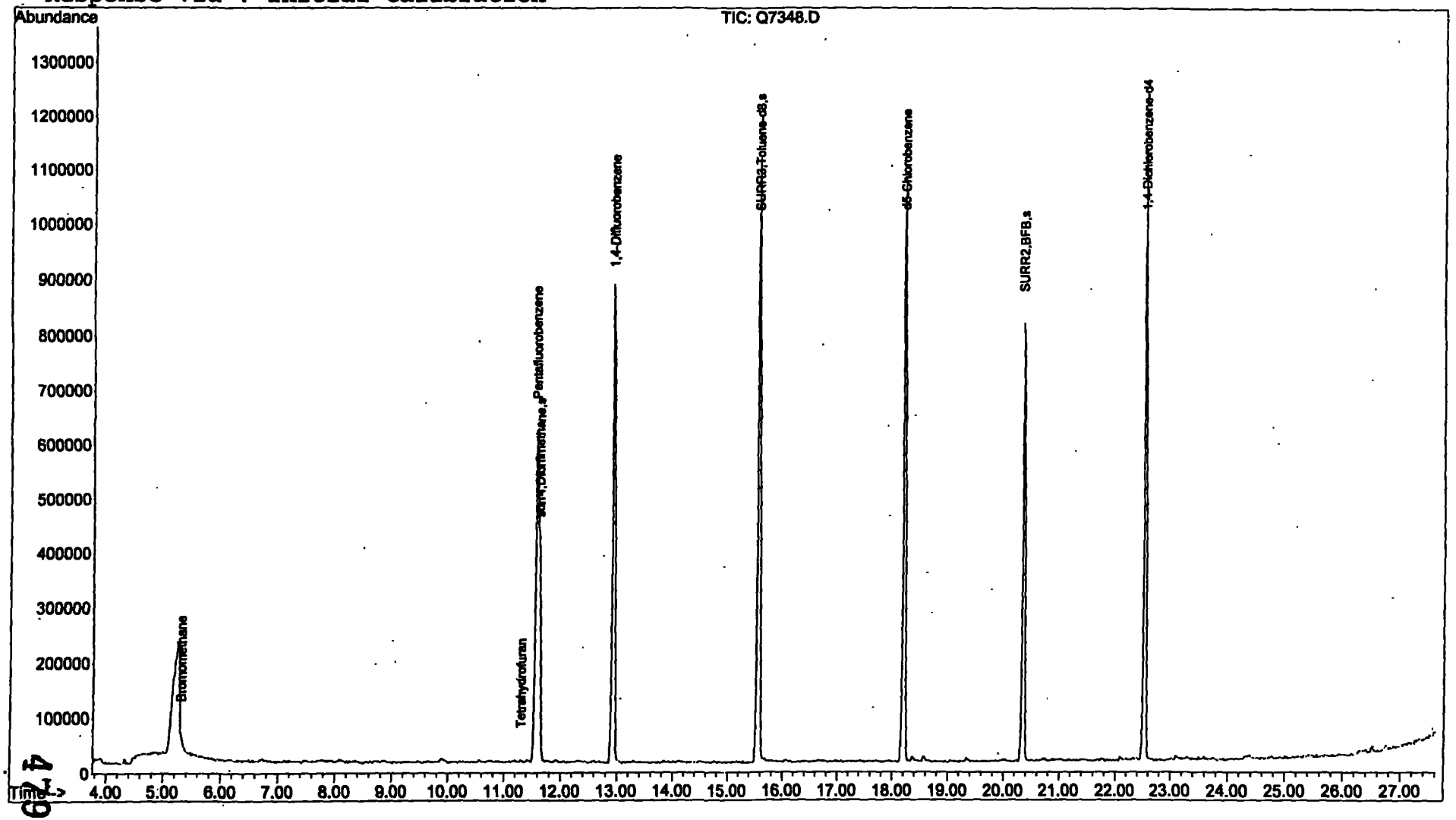
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.56	168	752761	50.00 ug/L	0.00
34) 1,4-Difluorobenzene	12.93	114	1153474	50.00 ug/L	0.01
58) d5-Chlorobenzene	18.20	117	942032	50.00 ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.52	152	468823	50.00 ug/L	0.00
System Monitoring Compounds					
35) surr4,Dibrflmethane	11.62	113	380616	52.81 ug/L	0.01
Spiked Amount 50.000			Recovery	= 105.62%	
52) SURR3,Toluene-d8	15.55	98	1123948	49.56 ug/L	0.00
Spiked Amount 50.000			Recovery	= 99.12%	
57) SURR2,BFB	20.34	95	430281	45.16 ug/L	0.00
Spiked Amount 50.000			Recovery	= 90.32%	
Target Compounds					Qvalue
5) Bromomethane	5.31	94	13356	~~1.96 ug/L~~	~~100~~
31) Tetrahydrofuran	11.30	42	2714	~~1.35 ug/L #~~	~~79~~

BA
2/4

(#) = qualifier out of range (m) = manual integration
Q7348.D EXP0124.M Mon Feb 04 12:38:16 2002

Data File : J:\ACQUDATA\MSVOA6\DATA\020302\Q7348.. Vial: 6
Acq On : 3 Feb 2002 1:38 pm Operator: TTRAVER
Sample : MED BLK Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 4 12:38 2002 Quant Results File: EXP0124.RES

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 529685 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/04/02			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	20 U	UG/KG
BENZENE	5.0	5.0 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.0 U	UG/KG
BROMOFORM	5.0	5.0 U	UG/KG
BROMOMETHANE	5.0	5.0 U	UG/KG
2-BUTANONE (MEK)	10	10 U	UG/KG
CARBON DISULFIDE	10	10 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.0 U	UG/KG
CHLOROBENZENE	5.0	5.0 U	UG/KG
CHLOROETHANE	5.0	5.0 U	UG/KG
CHLOROFORM	5.0	5.0 U	UG/KG
CHLOROMETHANE	5.0	5.0 U	UG/KG
BROMOCHLOROMETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.0 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
ETHYLBENZENE	5.0	5.0 U	UG/KG
2-HEXANONE	10	10 U	UG/KG
METHYLENE CHLORIDE	5.0	5.0 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/KG
STYRENE	5.0	5.0 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/KG
TETRACHLOROETHENE	5.0	5.0 U	UG/KG
TOLUENE	5.0	5.0 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/KG
TRICHLOROETHENE	5.0	5.0 U	UG/KG
VINYL CHLORIDE	5.0	5.0 U	UG/KG
O-XYLENE	5.0	5.0 U	UG/KG
M+P-XYLENE	5.0	5.0 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
-BROMOFLUOROBENZENE	(42 - 149 %)	102	%
TOLUENE-D8	(71 - 128 %)	102	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	101	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9606.D
Acq On : 4 Feb 102 12:26 pm
Sample : MET BLK 529685
Misc :
Quant Time: Feb 4 12:54 19102

Vial: 8
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.38	168	786866	50.00	ug/Kg	-0.03
35) 1,4 - Difluorobenzene	8.57	114	1514295	50.00	ug/Kg	-0.03
52) d5 - Chlorobenzene	13.65	117	1172661	50.00	ug/Kg	-0.03
74) d4 - Dichlorobenzene	18.09	152	473137	50.00	ug/Kg	-0.04
System Monitoring Compounds						**%Recovery**
36) surr4,Dibrflmethane	7.27	113	368210	50.73	ug/Kg	101.46%
58) surr3,Toluene-d8	11.08	98	1374638	51.23	ug/Kg	102.47%
59) surr2,bfb	15.87	95	547530	51.09	ug/Kg	102.18%
Target Compounds						**Qvalue**
12) Acetone	3.77	43	5996	3.05	ug/Kg#	86
29) Propionitrile	6.60	54	1867	~~1.73~~	~~ug/Kg#~~	~~47~~
39) Iso-Butyl Alcohol	8.43	43	1100	~~1.61~~	~~ug/Kg~~	~~85~~
46) 1,4-Dioxane	9.57	88	~~177~~	~~1.91~~	~~ug/Kg#~~	~~54~~

2/4

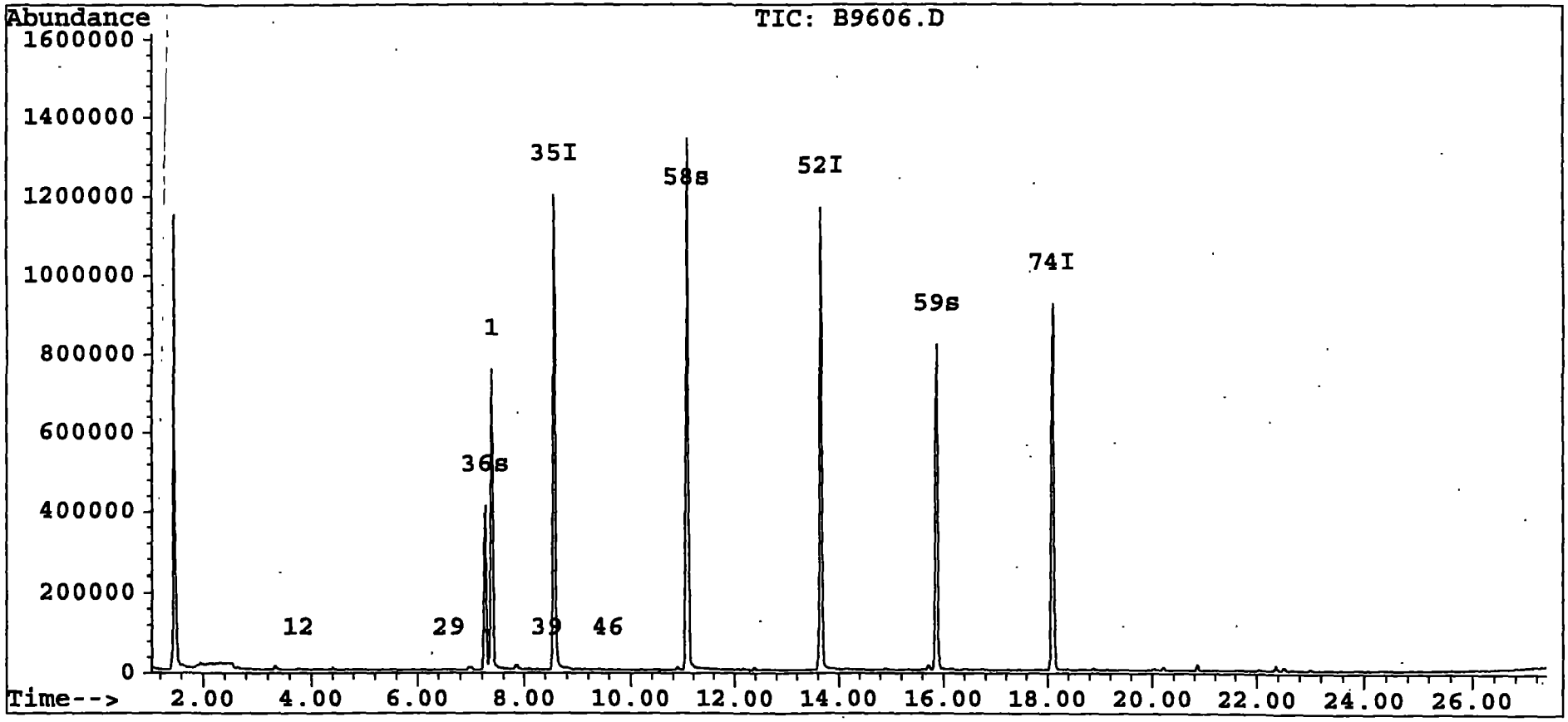
(#) = qualifier out of range (m) = manual integration

Quantitati- Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9606.D
Acq On : 4 Feb 102 12:26 pm
Sample : MET BLK
Misc :
Quant Time: Feb 4 12:54 19102

Vial: 8
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration



482

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 529697 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/04/02			
ANALYTICAL DILUTION: 125.00			Dry Weight
ACETONE	20	2500 U	UG/KG
BENZENE	5.0	630 U	UG/KG
BROMODICHLOROMETHANE	5.0	630 U	UG/KG
BROMOFORM	5.0	630 U	UG/KG
BROMOMETHANE	5.0	630 U	UG/KG
2-BUTANONE (MEK)	10	1300 U	UG/KG
CARBON DISULFIDE	10	1300 U	UG/KG
CARBON TETRACHLORIDE	5.0	630 U	UG/KG
CHLOROBENZENE	5.0	630 U	UG/KG
CHLOROETHANE	5.0	630 U	UG/KG
CHLOROFORM	5.0	630 U	UG/KG
CHLOROMETHANE	5.0	630 U	UG/KG
IBROMOCHLOROMETHANE	5.0	630 U	UG/KG
,1-DICHLOROETHANE	5.0	630 U	UG/KG
1,2-DICHLOROETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHENE	5.0	630 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
1,2-DICHLOROPROPANE	5.0	630 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
ETHYLBENZENE	5.0	630 U	UG/KG
2-HEXANONE	10	1300 U	UG/KG
METHYLENE CHLORIDE	5.0	630 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1300 U	UG/KG
STYRENE	5.0	630 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	630 U	UG/KG
TETRACHLOROETHENE	5.0	630 U	UG/KG
TOLUENE	5.0	630 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	630 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	630 U	UG/KG
TRICHLOROETHENE	5.0	630 U	UG/KG
VINYL CHLORIDE	5.0	630 U	UG/KG
O-XYLENE	5.0	630 U	UG/KG
M+P-XYLENE	5.0	630 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
1-BROMOFLUOROBENZENE	(42 - 149 %)	97	%
TOLUENE-D8	(71 - 128 %)	101	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	103	%

Quantitation Report (Not Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7364.D Vial: 5
Acq On : 4 Feb 2002 1:27 pm Operator: BALLGEIER
Sample : MED BLK Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 4 13:56 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

529687 125

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.57	168	853603	50.00 ug/L	0.01
34) 1,4-Difluorobenzene	12.93	114	1340197	50.00 ug/L	0.01
58) d5-Chlorobenzene	18.20	117	1118906	50.00 ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.52	152	548258	50.00 ug/L	0.00
System Monitoring Compounds					
35) surr4,Dibrflmethane	11.62	113	430943	51.35 ug/L	0.01
Spiked Amount 50.000			Recovery	= 102.70%	
52) SURR3,Toluene-d8	15.55	98	1331758	50.53 ug/L	0.00
Spiked Amount 50.000			Recovery	= 101.06%	
57) SURR2,BFB	20.34	95	534399	48.27 ug/L	0.00
Spiked Amount 50.000			Recovery	= 96.54%	
Target Compounds					Qvalue
8) Diethyl Ether	6.79	59	8914	~~1.38 ug/L~~	~~78 NJ~~
13) Iodomethane	7.69	142	3112	~~2.70 ug/L~~	~~89~~
27) 2-Butanone	10.76	43	4736	~~1.31 ug/L~~	~~97~~
31) Tetrahydrofuran	11.30	42	2337	~~1.03 ug/L #~~	~~73~~
40) Iso-Butyl Alcohol	12.09	43	588	~~1.90 ug/L #~~	~~72~~
45) 1,4-Dioxane	14.12	88	128	~~1.80 ug/L~~	~~85~~
46) Methyl Methacrylate	14.00	69	700	~~2.44 ug/L #~~	~~60~~

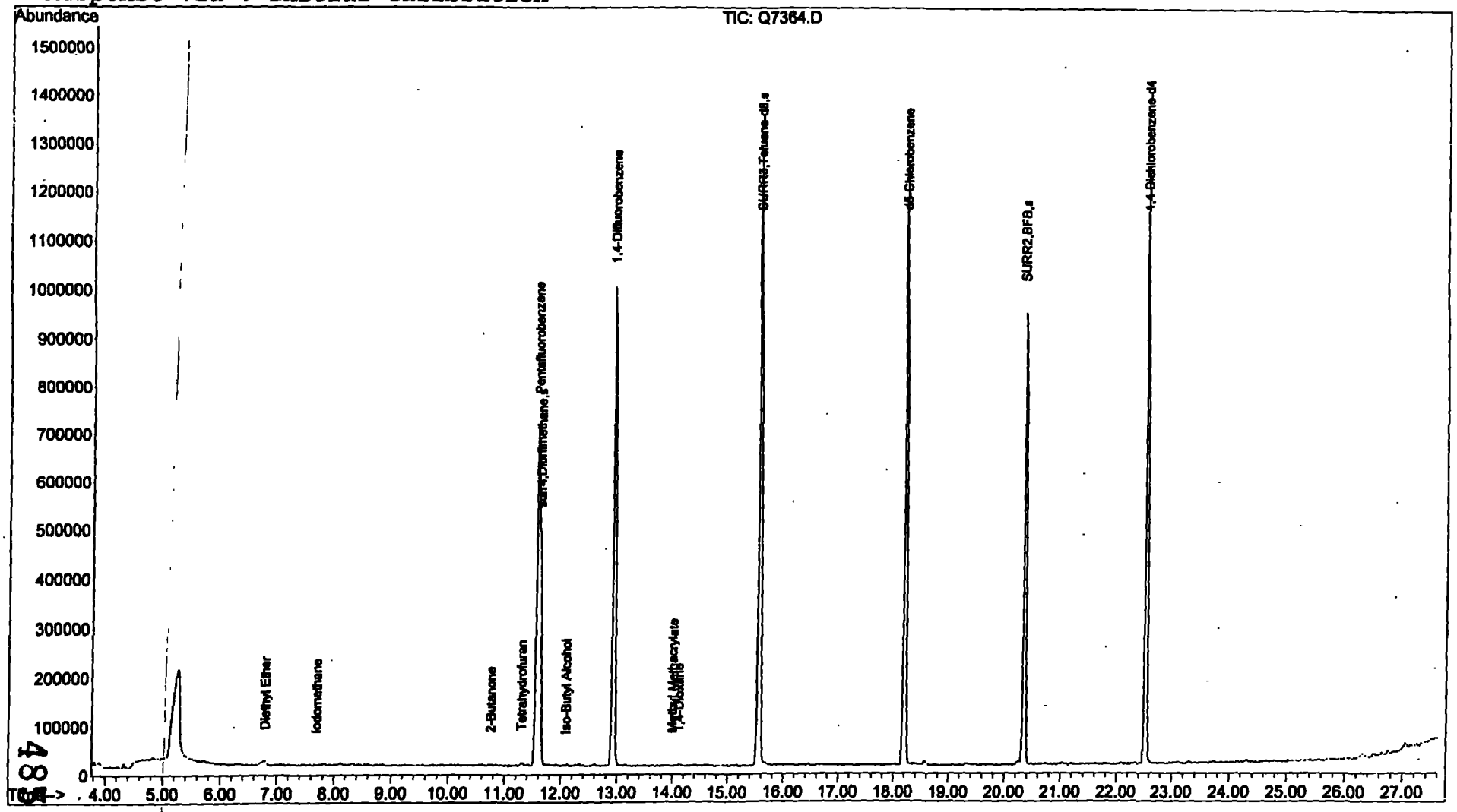
CP 2/8

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7364.1 Vial: 5
Acq On : 4 Feb 2002 1:27 pm Operator: BALLGEIER
Sample : MED BLK Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 4 13:56 2002 Quant Results File: EXP0124.RES

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 529691 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/05/02			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	9.2 J	UG/KG
BENZENE	5.0	5.0 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.0 U	UG/KG
BROMOFORM	5.0	5.0 U	UG/KG
BROMOMETHANE	5.0	5.0 U	UG/KG
2-BUTANONE (MEK)	10	10 U	UG/KG
CARBON DISULFIDE	10	10 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.0 U	UG/KG
CHLOROBENZENE	5.0	5.0 U	UG/KG
CHLOROETHANE	5.0	5.0 U	UG/KG
CHLOROFORM	5.0	5.0 U	UG/KG
CHLOROMETHANE	5.0	5.0 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.0 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
ETHYLBENZENE	5.0	5.0 U	UG/KG
2-HEXANONE	10	1.6 J	UG/KG
METHYLENE CHLORIDE	5.0	5.0 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/KG
STYRENE	5.0	5.0 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/KG
TETRACHLOROETHENE	5.0	5.0 U	UG/KG
TOLUENE	5.0	5.0 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/KG
TRICHLOROETHENE	5.0	5.0 U	UG/KG
VINYL CHLORIDE	5.0	5.0 U	UG/KG
O-XYLENE	5.0	5.0 U	UG/KG
M+P-XYLENE	5.0	5.0 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	102	%
TOLUENE-D8	(71 - 128 %)	101	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	98	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9624.D
Acq On : 5 Feb 102 12:05 pm
Sample : MET BLK
Misc :
Quant Time: Feb 5 12:32 19102

Vial: 15
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

529691

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.37	168	712548	50.00 ug/Kg	-0.04
35) 1,4 - Difluorobenzene	8.55	114	1351999	50.00 ug/Kg	-0.04
52) d5 - Chlorobenzene	13.63	117	1069304	50.00 ug/Kg	-0.05
74) d4 - Dichlorobenzene	18.08	152	431844	50.00 ug/Kg	-0.05
System Monitoring Compounds					%Recovery
36) surr4,Dibrflmethane	7.24	113	318470	49.14 ug/Kg	98.28%
58) surr3,Toluene-d8	11.05	98	1239154	50.65 ug/Kg	101.29%
59) surr2,bfb	15.84	95	496598	50.82 ug/Kg	101.63%
Target Compounds					Qvalue
12) Acetone	3.74	43	16414	9.22 ug/Kg	98 <J
18) TBA	4.65	59	15434	23.49 ug/Kg#	92 NT
29) Propionitrile	6.58	54	2938	~~3.01 ug/Kg#~~	~~59~~
46) 1,4-Dioxane	9.62	88	642	~~7.74 ug/Kg~~	~~89~~
49) 2-Nitropropane	10.18	43	3432	~~1.54 ug/Kg#~~	~~63~~
61) 2-Hexanone	12.36	43	11611	1.63 ug/Kg#	80 <J
92) Nitrobenzene	20.74	77	1096	~~1.75 ug/Kg#~~	~~44~~

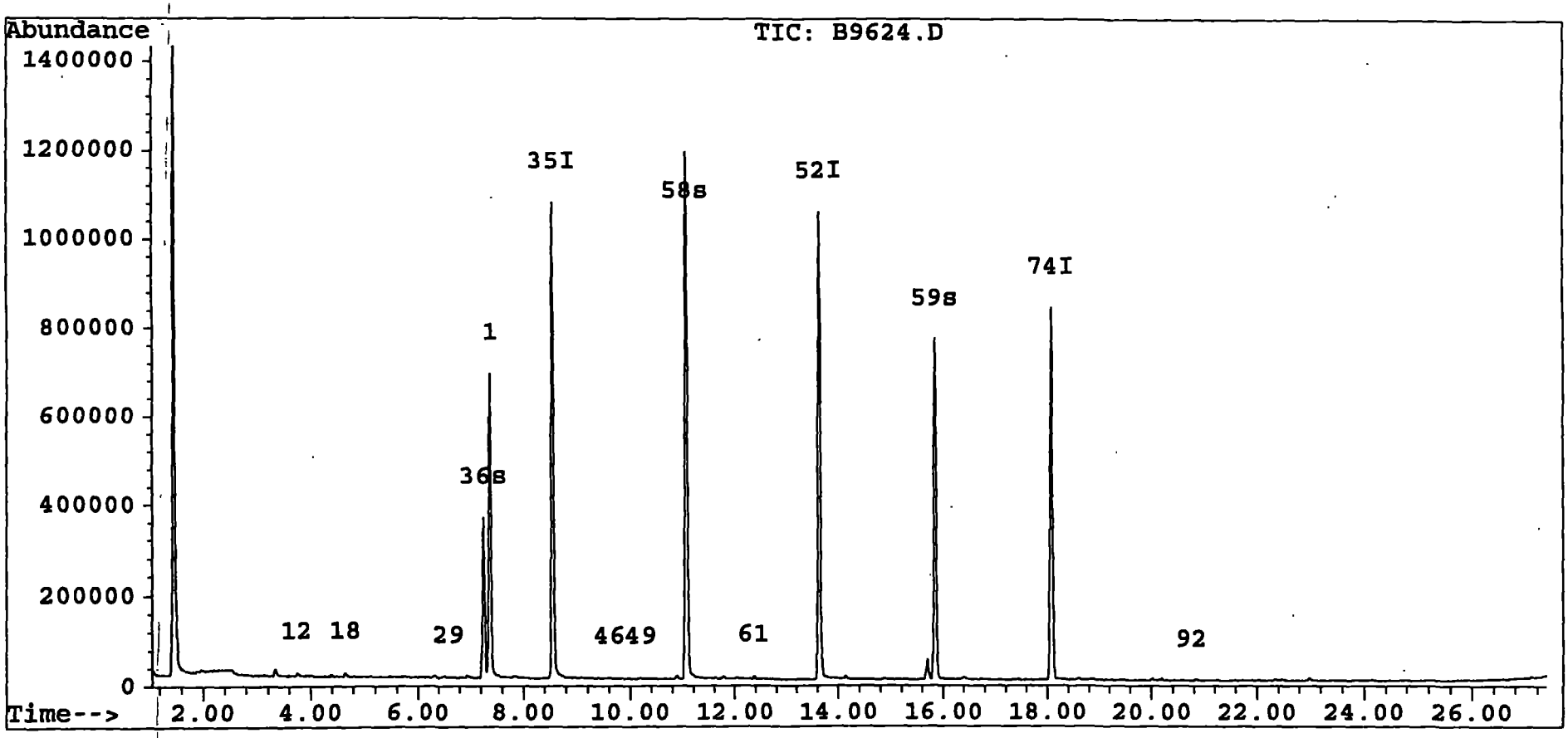
(#) = qualifier out of range (m) = manual integration

Quantitati Report

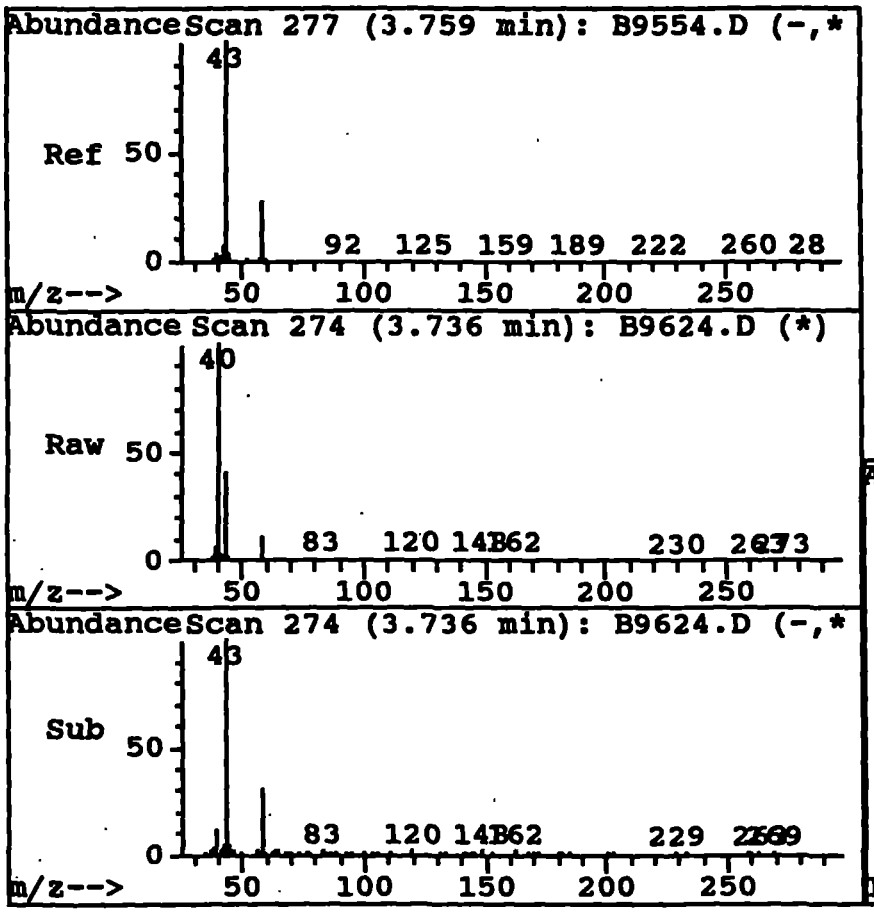
Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9624.D
Acq On : 5 Feb 102 12:05 pm
Sample : MET BLK
Misc :
Quant Time: Feb 5 12:32 19102

Vial: 15
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration



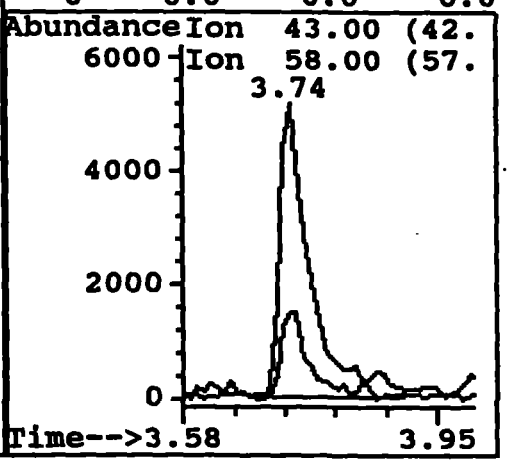
488

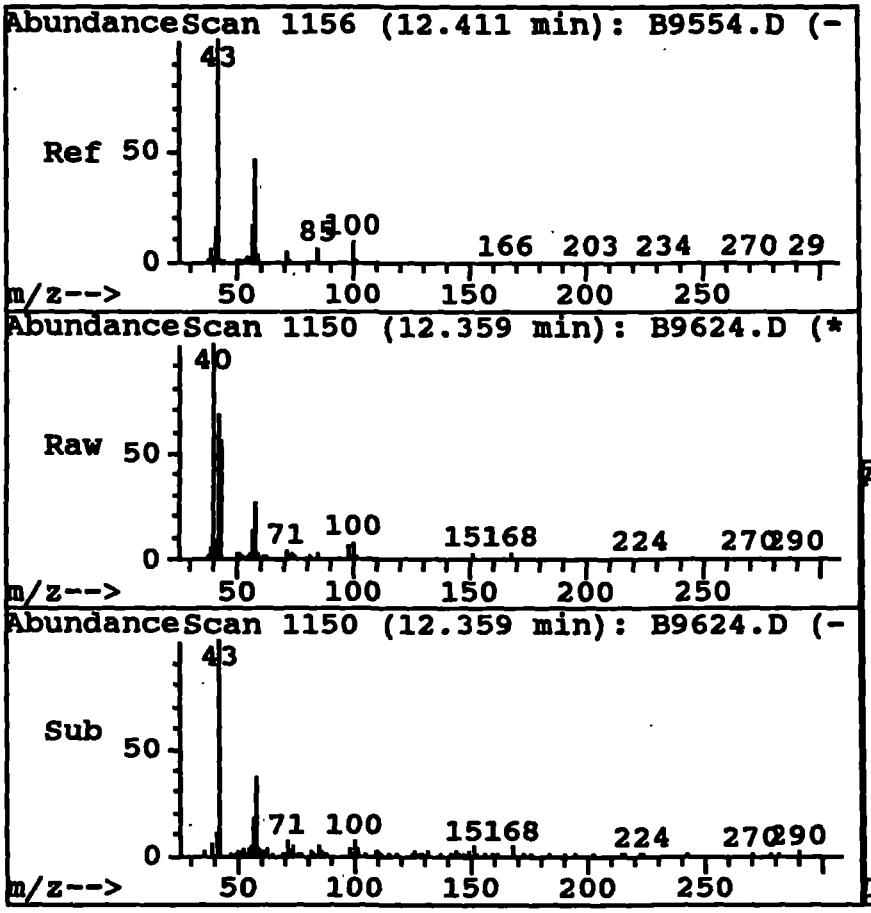


#12
Acetone
Concen: 9.22 ug/Kg
RT: 3.74 min Scan# 274
Delta R.T. -0.01 min
Lab File: B9624.D
Acq: 5 Feb 102 12:05 pm

Tgt Ion:43 Resp: 16414

Ion	Ratio	Lower	Upper
43	100		
58	29.2	22.8	34.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

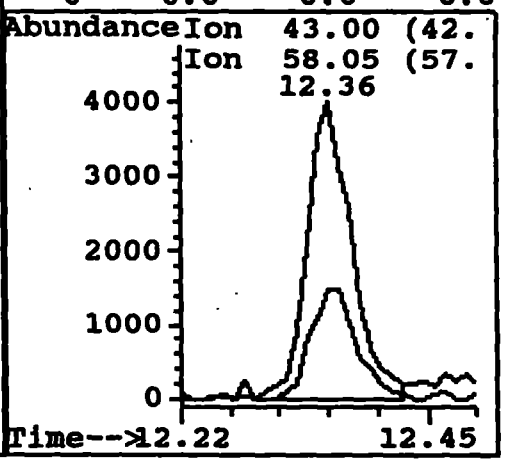




#61
2-Hexanone
Concen: 1.63 ug/Kg
RT: 12.36 min Scan# 1150
Delta R.T. -0.04 min
Lab File: B9624.D
Acq: 5 Feb 102 12:05 pm

Tgt Ion:43 Resp: 11611

Ion	Ratio	Lower	Upper
43	100		
58	37.8	41.5	62.2#
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 529687 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/05/02			
ANALYTICAL DILUTION: 125.00			Dry Weight
ACETONE	20	860 J	UG/KG
BENZENE	5.0	630 U	UG/KG
BROMODICHLOROMETHANE	5.0	630 U	UG/KG
BROMOFORM	5.0	630 U	UG/KG
BROMOMETHANE	5.0	630 U	UG/KG
2-BUTANONE (MEK)	10	1300 U	UG/KG
CARBON DISULFIDE	10	1300 U	UG/KG
CARBON TETRACHLORIDE	5.0	630 U	UG/KG
CHLOROBENZENE	5.0	630 U	UG/KG
CHLOROETHANE	5.0	630 U	UG/KG
CHLOROFORM	5.0	630 U	UG/KG
CHLOROMETHANE	5.0	630 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHANE	5.0	630 U	UG/KG
1,2-DICHLOROETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHENE	5.0	630 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
1,2-DICHLOROPROPANE	5.0	630 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
ETHYLBENZENE	5.0	630 U	UG/KG
2-HEXANONE	10	1300 U	UG/KG
METHYLENE CHLORIDE	5.0	630 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1300 U	UG/KG
STYRENE	5.0	630 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	630 U	UG/KG
TETRACHLOROETHENE	5.0	630 U	UG/KG
TOLUENE	5.0	630 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	630 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	630 U	UG/KG
TRICHLOROETHENE	5.0	630 U	UG/KG
VINYL CHLORIDE	5.0	630 U	UG/KG
O-XYLENE	5.0	630 U	UG/KG
M+P-XYLENE	5.0	630 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	110	%
TOLUENE-D8	(71 - 128 %)	106	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	100	%

Quantitation Report (Not Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020502\Q7389.D Vial: 30
Acq On : 5 Feb 2002 2:15 pm Operator: BALLGEIER
Sample : MED BLK Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 5 14:45 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

529087 125

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.56	168	1018631	50.00 ug/L	0.00
34) 1,4-Difluorobenzene	12.92	114	1619082	50.00 ug/L	0.00
58) d5-Chlorobenzene	18.20	117	1409161	50.00 ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.52	152	702440	50.00 ug/L	0.00
System Monitoring Compounds					
35) surr4,Dibrflmethane	11.61	113	508037	50.01 ug/L	0.00
Spiked Amount 50.000			Recovery	= 100.02%	
52) SURR3,Toluene-d8	15.55	98	1680566	52.75 ug/L	0.00
Spiked Amount 50.000			Recovery	= 105.50%	
57) SURR2,BFB	20.34	95	736925	55.10 ug/L	0.00
Spiked Amount 50.000			Recovery	= 110.20%	
Target Compounds					Qvalue
12) Acetone	7.46	43	19030	6.85 ug/L	91 5
13) Iodomethane	7.69	142	437	~~2.49 ug/L~~	~~80~~
27) 2-Butanone	10.77	43	7494	~~1.74 ug/L #~~	~~90~~
40) Iso-Butyl Alcohol	12.10	43	765	~~2.05 ug/L #~~	~~82~~
46) Methyl Methacrylate	13.93	69	719	~~2.42 ug/L #~~	~~7~~

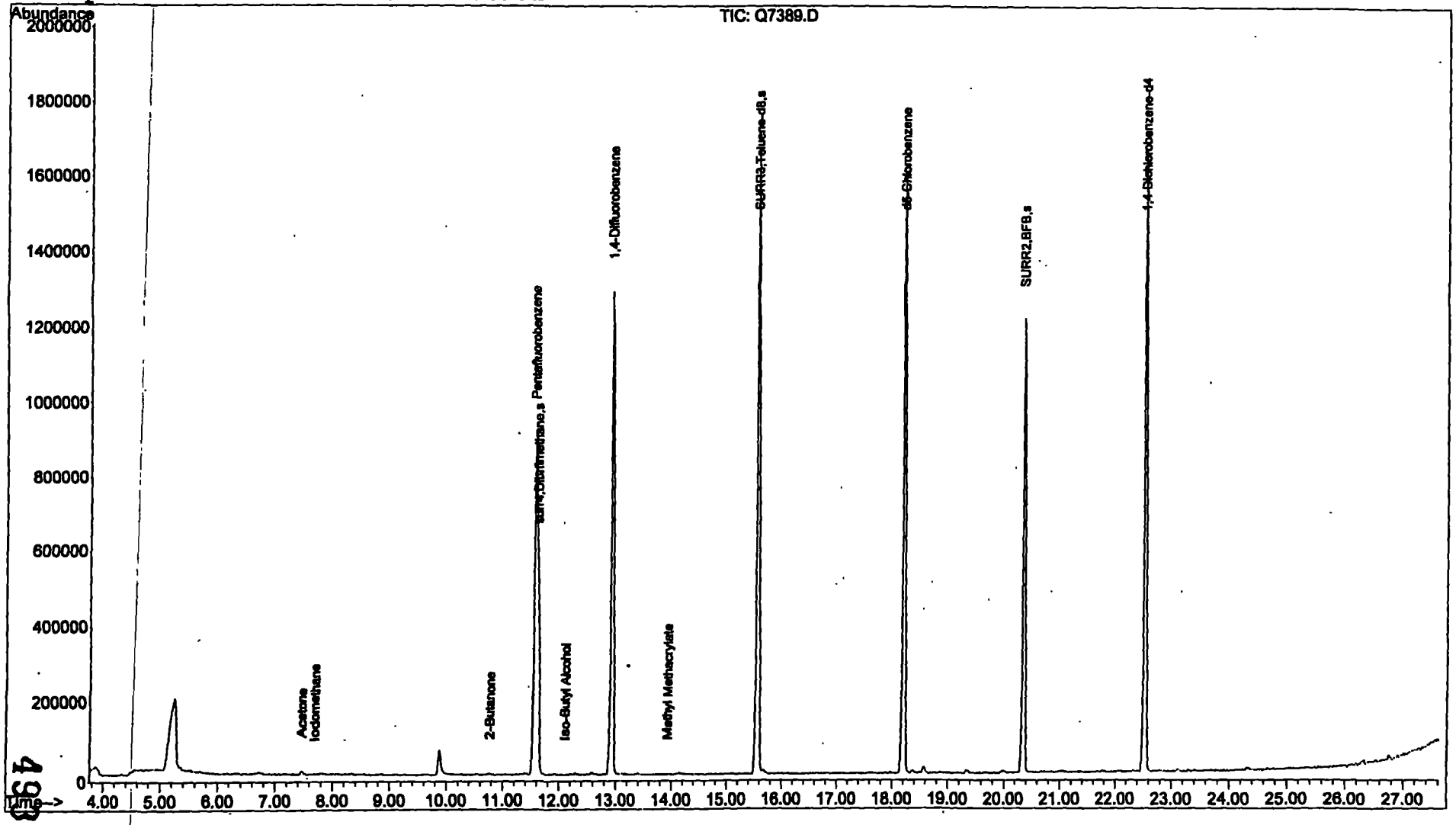
CP 2/8

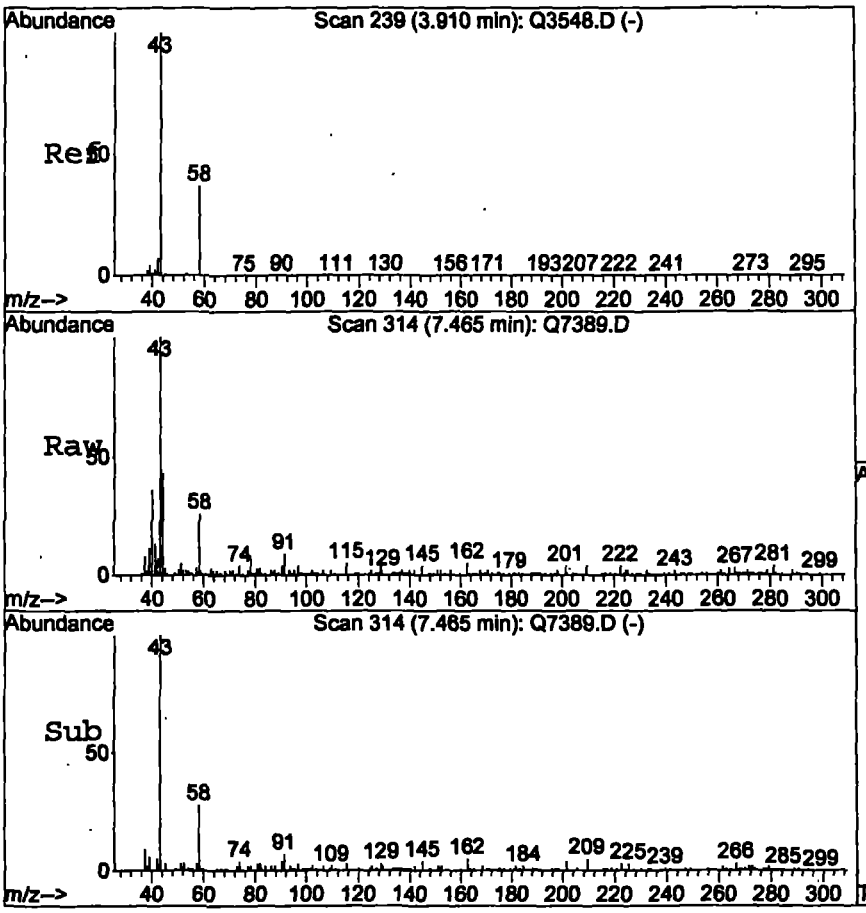
(#) = qualifier out of range (m) = manual integration
Q7389.D EXP0124.M Tue Feb 05 14:44:04 2002

Quantitation Report

Data File : J:\ACQUDATA\MSVOA6\DATA\020502\Q7389.D Vial: 30
Acq On : 5 Feb 2002 2:15 pm Operator: BALLGEIER
Sample : MED BLK Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 5 14:45 2002 Quant Results File: EXP0124.RES

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration

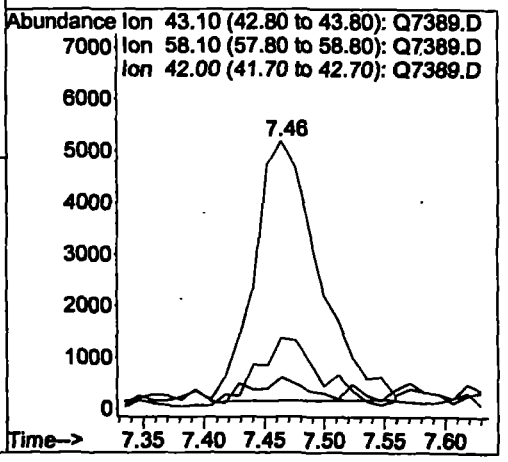




#12
Acetone
Concen: 6.85 ug/L
RT: 7.46 min Scan# 314
Delta R.T. 0.02 min
Lab File: Q7389.D
Acq: 5 Feb 2002 2:15 pm

Tgt Ion: 43 Resp: 19030

Ion	Ratio	Lower	Upper
43	100		
58	26.5	1.3	61.3
42	11.7	0.0	38.7



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Project Reference:
Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : **Order #:** 529700 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 01/29/02			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	21	UG/KG
BENZENE	5.0	20	UG/KG
BROMODICHLOROMETHANE	5.0	21	UG/KG
BROMOFORM	5.0	19	UG/KG
BROMOMETHANE	5.0	18	UG/KG
2-BUTANONE (MEK)	10	19	UG/KG
CARBON DISULFIDE	10	21	UG/KG
CARBON TETRACHLORIDE	5.0	21	UG/KG
CHLOROBENZENE	5.0	21	UG/KG
CHLOROETHANE	5.0	19	UG/KG
CHLOROFORM	5.0	22	UG/KG
CHLOROMETHANE	5.0	18	UG/KG
DIBROMOCHLOROMETHANE	5.0	20	UG/KG
1,1-DICHLOROETHANE	5.0	22	UG/KG
1,2-DICHLOROETHANE	5.0	22	UG/KG
1,1-DICHLOROETHENE	5.0	19	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	20	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	21	UG/KG
1,2-DICHLOROPROPANE	5.0	19	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	22	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	23	UG/KG
ETHYLBENZENE	5.0	22	UG/KG
2-HEXANONE	10	17	UG/KG
METHYLENE CHLORIDE	5.0	20	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	18	UG/KG
STYRENE	5.0	22	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	23	UG/KG
TETRACHLOROETHENE	5.0	18	UG/KG
TOLUENE	5.0	20	UG/KG
1,1,1-TRICHLOROETHANE	5.0	22	UG/KG
1,1,2-TRICHLOROETHANE	5.0	21	UG/KG
TRICHLOROETHENE	5.0	19	UG/KG
VINYL CHLORIDE	5.0	16	UG/KG
O-XYLENE	5.0	22	UG/KG
M+P-XYLENE	5.0	46	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	111	%
TOLUENE-D8	(71 - 128 %)	105	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	104	%

Quantitation Report (Not Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012902\Q7256.D Vial: 6
Acq On : 29 Jan 2002 9:09 am Operator: B.ALLGEIER
Sample : LCS Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 29 9:37 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

BA 1/30 529200 1.0

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.56	168	1170200	50.00 ug/L	0.00
34) 1,4-Difluorobenzene	12.92	114	1853339	50.00 ug/L	0.00
58) d5-Chlorobenzene	18.20	117	1569885	50.00 ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.53	152	800461	50.00 ug/L	0.00
System Monitoring Compounds					
35) surr4,Dibrflmethane	11.61	113	601686	51.89 ug/L	0.00
Spiked Amount 50.000			Recovery	= 103.78%	
52) SURR3,Toluene-d8	15.55	98	1905411	52.25 ug/L	0.00
Spiked Amount 50.000			Recovery	= 104.50%	
57) SURR2,BFB	20.34	95	846609	55.30 ug/L	0.00
Spiked Amount 50.000			Recovery	= 110.60%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.89	85	305540	20.13 ug/L	97
3) Chloromethane	4.33	50	394495	18.53 ug/L	100
4) Vinyl Chloride	4.58	62	199614	16.47 ug/L	98
5) Bromomethane	5.39	94	187676	17.72 ug/L	99
6) Chloroethane	5.62	64	191324	19.43 ug/L	97
7) Trichlorofluoromethane	6.17	101	391893	23.29 ug/L	98
8) Diethyl Ether	6.78	59	206197	23.32 ug/L	91
9) Acrolein	7.14	56	132706	84.74 ug/L	80
10) 1,1-Diclethene	7.31	96	191917	19.01 ug/L	96
11) Freon 113	7.25	101	235666	22.68 ug/L	99
12) Acetone	7.45	43	67469	21.15 ug/L	87
13) Iodomethane	7.69	142	305251	19.72 ug/L	98
14) Carbon Disulfide	7.83	76	796647	21.07 ug/L	97
16) Allyl Chloride	8.07	76	124452	22.54 ug/L	62
17) Methylene Chloride	8.33	84	233428	20.04 ug/L	91
18) TBA	8.51	59	392269	511.43 ug/L	92
19) Acrylonitrile	8.84	53	438543	102.85 ug/L	96
20) Methyl-t-Butyl Ether	8.78	73	545829	25.24 ug/L #	97
21) trans-1,2-Dichloroethene	8.85	96	230678	20.79 ug/L	100
22) 1,1-Diclethane	9.67	63	472304	22.20 ug/L	97
23) Vinyl Acetate	9.68	43	386369	19.50 ug/L	97
24) 2-Chloro-1,3-Butadiene	9.81	53	462677	25.12 ug/L	99
25) 2,2-Dichloropropane	10.72	77	330340	23.34 ug/L	96
26) cis-1,2-Dichloroethene	10.75	96	254343	20.49 ug/L	88
27) 2-Butanone	10.74	43	94155	19.03 ug/L	96
28) Propionitrile	10.91	54	153779	95.98 ug/L	99
29) Bromochloromethane	11.20	128	115420	19.62 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012902\Q7256.D Vial: 6
Acq On : 29 Jan 2002 9:09 am Operator: B.ALLGEIER
Sample : LCS Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 29 9:37 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
30)	Methacrylonitrile	11.16	67	77644	23.67 ug/L	#	67
32)	Chloroform	11.31	83	423399	22.04 ug/L		96
33)	1,1,1-Trichloroethane	11.63	97	336544	22.42 ug/L	#	98
36)	Carbontetrachloride	11.93	117	280997	20.86 ug/L		99
37)	1,1-Dichloropropene	11.91	110	107228	19.33 ug/L		98
38)	Benzene	12.30	78	908679	20.31 ug/L		97
39)	1,2-Dichloroethane	12.36	62	331682	21.73 ug/L		93
40)	Iso-Butyl Alcohol	12.08	43	174514	408.09 ug/L		98
41)	n-Heptane	12.59	43	447717	21.73 ug/L		98
42)	Trichloroethene	13.43	130	225973	19.46 ug/L		96
43)	1,2-Diclpropane	13.85	63	263387	19.13 ug/L	#	67
44)	Dibromomethane	14.10	93	142213	19.73 ug/L		93
45)	1,4-Dioxane	14.07	88	41130	417.78 ug/L		95
46)	Methyl Methacrylate	13.91	69	105124	22.06 ug/L		93
47)	Bromodichloromethane	14.34	83	304707	21.27 ug/L		99
48)	2-Nitropropane	14.74	43	206706	37.24 ug/L	#	42
49)	2-Chloroethylvinyl Ether	14.77	63	130336	19.64 ug/L		97
50)	cis-1,3-Dichloropropene	15.08	75	366436	22.59 ug/L		98
51)	4-Methyl-2-pentanone	15.29	43	175041	18.13 ug/L		97
53)	Toluene	15.68	91	926820	20.48 ug/L		98
54)	trans-1,3-Dichloropropene	16.07	75	320710	23.23 ug/L		98
55)	Ethyl Methacrylate	16.09	69	228180	24.39 ug/L		85
56)	1,1,2-Trichloroethane	16.42	97	201181	21.11 ug/L		99
59)	Tetrachloroethene	16.66	164	187475	18.20 ug/L		96
60)	2-Hexanone	16.76	43	113858	16.83 ug/L		95
61)	1,3-Dichloropropane	16.73	76	333940	21.68 ug/L		95
62)	Dibromochloromethane	17.18	129	218919	20.35 ug/L		98
63)	1,2-Dibromoethane	17.42	107	199213	20.62 ug/L		99
64)	Chlorobenzene	18.26	112	645003	20.64 ug/L		96
65)	1,1,1,2-Tetrachloroethane	18.37	131	216407	21.14 ug/L		93
66)	Ethylbenzene	18.37	106	337148	21.52 ug/L		94
67)	(m+p)Xylene	18.58	106	851279	45.66 ug/L		94
68)	o-Xylene	19.33	106	409592	22.14 ug/L		97
69)	Styrene	19.37	104	677232	21.98 ug/L		100
70)	Bromoform	19.83	173	140509	19.28 ug/L		98
71)	Isopropylbenzene	19.97	105	1003388	22.29 ug/L		98
73)	trans-1,4-Dichloro-2-Buten	20.68	53	98255	21.94 ug/L		86
75)	1,1,2,2-Tetrachloroethane	20.60	83	268533	23.42 ug/L		100
76)	Bromobenzene	20.67	156	265923	22.96 ug/L		89
77)	1,2,3-Trichloropropane	20.71	110	69807	26.00 ug/L		83
78)	n-Propylbenzene	20.74	91	1329785	23.34 ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\012902\Q7256.D Vial: 6
Acq On : 29 Jan 2002 9:09 am Operator: B.ALLGEIER
Sample : LCS Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 29 9:37 2002 Quant Results File: EXP0124.RES

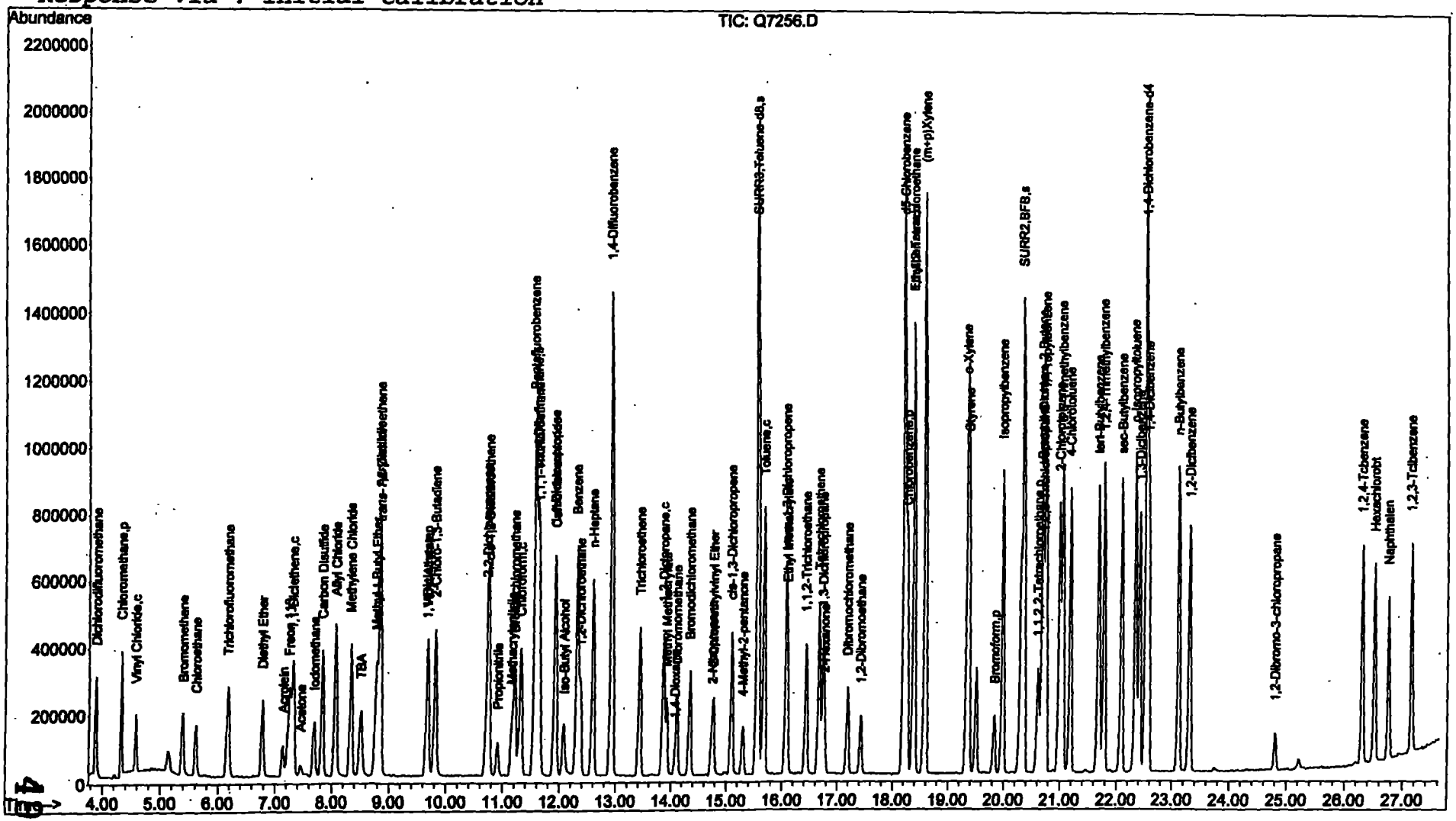
Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
79) 2-Chlorotoluene	20.99	91	879265	23.82 ug/L	97
80) 4-Chlorotoluene	21.18	91	827866	24.48 ug/L	96
81) 1,3,5-Trimethylbenzene	21.04	105	877942	24.88 ug/L	97
82) tert-Butylbenzene	21.68	119	704548	23.70 ug/L	98
83) 1,2,4-Trimethylbenzene	21.77	105	863723	24.27 ug/L	97
84) sec-Butylbenzene	22.09	105	1118854	23.28 ug/L	99
85) p-Isopropyltoluene	22.33	119	885774	22.68 ug/L	100
86) 1,3-Diclbenzene	22.41	146	526396	24.52 ug/L	98
87) 1,4-Diclbenzene	22.56	146	537785	22.01 ug/L	97
88) n-Butylbenzene	23.11	91	886977	21.49 ug/L	100
89) 1,2-Diclbenzene	23.31	146	513648	23.67 ug/L	98
90) 1,2-Dibromo-3-chloropropan	24.80	75	41998	22.84 ug/L	87
92) 1,2,4-Tcbenzene	26.30	180	320748	20.06 ug/L	100
93) Hexachlorobt	26.52	225	196785	21.06 ug/L	99
94) Naphthalen	26.75	128	547379	18.53 ug/L	99
95) 1,2,3-Tclbenzene	27.14	180	306435	19.63 ug/L	98

(#) = qualifier out of range (m) = manual integration

Data File : J:\ACQUDATA\MSVOA6\DATA\012902\Q7256.I Vial: 6
Acq On : 29 Jan 2002 9:09 am Operator: B.ALLGEIER
Sample : LCS Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jan 29 9:37 2002 Quant Results File: EXP0124.RES

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Project Reference:
Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : **Order #:** 529633 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/01/02			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	20 U	UG/KG
BENZENE	5.0	18	UG/KG
BROMODICHLOROMETHANE	5.0	18	UG/KG
BROMOFORM	5.0	18	UG/KG
BROMOMETHANE	5.0	14	UG/KG
2-BUTANONE (MEK)	10	18	UG/KG
CARBON DISULFIDE	10	18	UG/KG
CARBON TETRACHLORIDE	5.0	18	UG/KG
CHLOROBENZENE	5.0	19	UG/KG
CHLOROETHANE	5.0	15	UG/KG
CHLOROFORM	5.0	19	UG/KG
LOROMETHANE	5.0	17	UG/KG
DIBROMOCHLOROMETHANE	5.0	18	UG/KG
1,1-DICHLOROETHANE	5.0	20	UG/KG
1,2-DICHLOROETHANE	5.0	19	UG/KG
1,1-DICHLOROETHENE	5.0	18	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	20	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	19	UG/KG
1,2-DICHLOROPROPANE	5.0	17	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	18	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	19	UG/KG
ETHYLBENZENE	5.0	19	UG/KG
2-HEXANONE	10	17	UG/KG
METHYLENE CHLORIDE	5.0	18	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	17	UG/KG
STYRENE	5.0	19	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	18	UG/KG
TETRACHLOROETHENE	5.0	20	UG/KG
TOLUENE	5.0	19	UG/KG
1,1,1-TRICHLOROETHANE	5.0	16	UG/KG
1,1,2-TRICHLOROETHANE	5.0	18	UG/KG
TRICHLOROETHENE	5.0	17	UG/KG
VINYL CHLORIDE	5.0	17	UG/KG
O-XYLENE	5.0	19	UG/KG
M+P-XYLENE	5.0	39	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	102	%
TOLUENE-D8	(71 - 128 %)	107	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	106	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9563.D
Acq On : 1 Feb 102 6:50 pm
Sample : LCS 529633
Misc :
Quant Time: Feb 2 9:50 19102

Vial: 17
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

R 2/2

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.37	168	816839	50.00 ug/Kg	-0.04
35) 1,4 - Difluorobenzene	8.55	114	1551794	50.00 ug/Kg	-0.04
52) d5 - Chlorobenzene	13.63	117	1169887	50.00 ug/Kg	-0.05
74) d4 - Dichlorobenzene	18.08	152	466556	50.00 ug/Kg	-0.05
System Monitoring Compounds					%Recovery
36) surr4,Dibrflmethane	7.24	113	395197	53.13 ug/Kg	106.26%
58) surr3,Toluene-d8	11.05	98	1432678	53.52 ug/Kg	107.05%
59) surr2,bfb	15.84	95	543367	50.82 ug/Kg	101.65%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.65	85	177323	16.48 ug/Kgm	32
3) Chloromethane	1.86	50	300419	16.92 ug/Kg	99
4) Vinyl Chloride	1.98	62	191313	16.95 ug/Kg	100
5) Bromomethane	2.39	94	82080	13.72 ug/Kg	97
6) Chloroethane	2.53	64	108659	15.08 ug/Kgm	64
7) Trichlorofluoromethane	2.88	101	212078	17.45 ug/Kg	99
8) Diethyl Ether	3.31	59	113123	19.59 ug/Kg	99
9) Acrolein	3.48	56	63134	89.50 ug/Kg	99
10) FREON 113	3.67	85	46240	21.27 ug/Kg	96
11) 1,1-Diclethene	3.63	96	119223	18.03 ug/Kg	98
12) Acetone	3.73	43	39346	19.29 ug/Kg	99
13) Iodomethane	3.83	127	29219	13.22 ug/Kg	84
14) Carbon Disulfide	3.93	76	490614	18.51 ug/Kg	99
15) Acetonitrile	4.14	41	64487	331.18 ug/Kg	89
16) Allyl Chloride	4.20	76	79738	19.52 ug/Kg	87
17) Methylene Chloride	4.40	84	161477	18.19 ug/Kg	97
18) TBA	4.65	59	271466	360.46 ug/Kg	99
19) Acrylonitrile	4.78	53	231782	92.81 ug/Kg	98
20) Methyl-t-Butyl Ether	4.87	73	348490	18.75 ug/Kg	98
21) trans-1,2-Dichloroethene	4.84	96	133425	19.20 ug/Kg	97
22) 1,1-Diclethane	5.50	63	272230	20.31 ug/Kg	96
23) Vinyl Acetate	5.63	43	283782	17.96 ug/Kg	96
24) 2-Chloro-1,3-butadiene	5.66	53	250570	17.81 ug/Kg	97
25) 2,2-Dichloropropane	6.44	77	181724	17.67 ug/Kg	96
26) 2-Butanone	6.49	43	74144	17.71 ug/Kg	99
28) cis-1,2-Dichloroethene	6.45	96	168714	19.66 ug/Kg	99
29) Propionitrile	6.56	54	98453	87.99 ug/Kg	99
30) Methacrylonitrile	6.82	67	47608	18.42 ug/Kg	91
31) Bromochloromethane	6.83	128	78803	18.30 ug/Kg	94
32) Chloroform	6.98	83	239151	19.02 ug/Kg	99
33) Tetrahydrofuran	6.93	42	52776	16.26 ug/Kg	98
34) 1,1,1-Trichloroethane	7.27	97	182314	16.44 ug/Kg	99
37) Carbontetrachloride	7.55	117	156544	17.63 ug/Kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9563.D
Acq On : 1 Feb 102 6:50 pm
Sample : LCS
Misc :
Quant Time: Feb 2 9:50 19102

Vial: 17
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	1,1-Dichloropropene	7.55	75	207578	15.66	ug/Kg	99
39)	Iso-Butyl Alcohol	8.39	43	254182	362.61	ug/Kg	98
40)	Benzene	7.87	78	714879	18.15	ug/Kg	98
41)	1,2-Dichloroethane	7.90	62	167546	19.22	ug/Kg	94
42)	N-Heptane	8.39	43	254182	18.16	ug/Kg	97
43)	Trichloroethene	8.96	95	176745	17.38	ug/Kg	96
44)	1,2-Diclpropane	9.33	63	187260	16.85	ug/Kg	97
45)	Methyl Methacrylate	9.58	69	116923	19.29	ug/Kg	96
46)	1,4-Dioxane	9.58	88	33503	351.94	ug/Kg	94
47)	Dibromomethane	9.51	93	98344	19.45	ug/Kg	98
48)	Bromodichloromethane	9.81	83	200081	18.49	ug/Kg	99
49)	2-Nitropropane	10.18	43	81559	31.93	ug/Kg#	89
50)	2-Chloroethylvinyl Ether	10.36	63	77991	20.80	ug/Kg	99
51)	cis-1,3-Dichloropropene	10.59	75	279330	17.55	ug/Kg	100
53)	4-Methyl-2-Pentanone	10.87	43	190185	17.46	ug/Kg	99
54)	Toluene	11.17	91	671875	19.12	ug/Kg	100
55)	trans-1,3-Dichloropropene	11.56	75	254290	18.62	ug/Kg	96
56)	Ethyl Methacrylate	11.77	69	209110	20.19	ug/Kg	99
57)	1,1,2-Trichloroethane	11.88	83	134383	18.55	ug/Kg	98
60)	Tetrachloroethene	12.14	166	164318	19.50	ug/Kg	98
61)	2-Hexanone	12.36	43	131229	16.81	ug/Kg	99
62)	1,3-Dichloropropane	12.17	76	273419	17.22	ug/Kg	93
63)	Dibromochloromethane	12.58	129	161686	17.93	ug/Kg	99
64)	1,2-Dibromoethane	12.76	107	170668	18.73	ug/Kg	99
65)	Chlorobenzene	13.69	112	443593	19.07	ug/Kg	94
66)	1,1,1,2-Tetrachloroethane	13.84	131	167383	19.91	ug/Kg	99
67)	Ethylbenzene	13.90	91	725540	19.29	ug/Kg	100
68)	(m+p)Xylene	14.13	106	534187	38.70	ug/Kg	99
69)	o-Xylene	14.87	106	256173	18.64	ug/Kg	100
70)	Styrene	14.89	104	449943	19.03	ug/Kg	100
71)	Bromoform	15.20	173	103865	18.59	ug/Kg	99
72)	Isopropylbenzene	15.58	105	660509	18.51	ug/Kg	99
75)	1,1,2,2-Tetrachloroethane	16.14	83	192459	18.10	ug/Kg	97
76)	Trans-1,4-Dichloro-2-buten	16.25	53	52911	18.03	ug/Kg	97
77)	1,2,3-Trichloropropane	16.20	110	56859	19.05	ug/Kg	98
78)	n-Propylbenzene	16.36	91	764120	18.69	ug/Kg	95
79)	Bromobenzene	16.12	156	167162	19.65	ug/Kg	89
80)	1,3,5-Trimethylbenzene	16.71	105	483422	19.16	ug/Kg#	51
81)	2-Chlorotoluene	16.50	91	457689	18.76	ug/Kg	99
82)	4-Chlorotoluene	16.71	91	505327	18.74	ug/Kg	97
83)	tert-Butylbenzene	17.33	119	434345	18.92	ug/Kg	95
84)	1,2,4-Trimethylbenzene	17.43	105	470528	18.81	ug/Kg	99
85)	sec-Butylbenzene	17.76	105	678689	18.57	ug/Kg	99
86)	p-Isopropyltoluene	17.33	119	434345	18.92	ug/Kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9563.D
`cq On : 1 Feb 102 6:50 pm
ample : LCS
Misc :
Quant Time: Feb 2 9:50 19102

Vial: 17
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
87) 1,3-Dclbenz	17.94	146	265904	20.15 ug/Kg	99
88) 1,4-Dclbenz	18.12	146	270171	18.98 ug/Kg	95
89) n-Butylbenzene	18.86	91	477448	17.87 ug/Kg	100
90) 1,2-Dclbenz	18.84	146	252196	19.20 ug/Kg	98
91) 1,2-Dibromo-3-chloropropan	20.36	157	27384	17.11 ug/Kg	92
92) Nitrobenzene	20.76	77	9859	14.54 ug/Kg	93
93) 1,2,4-Tcbenzene	22.01	180	152335	19.47 ug/Kg	99
94) Hexachlorobt	22.39	225	84830	18.58 ug/Kg	97
95) Naphthalen	22.49	128	303971	17.56 ug/Kg	99
96) 1,2,3-Tclbenzene	22.97	180	136873	19.77 ug/Kg	100

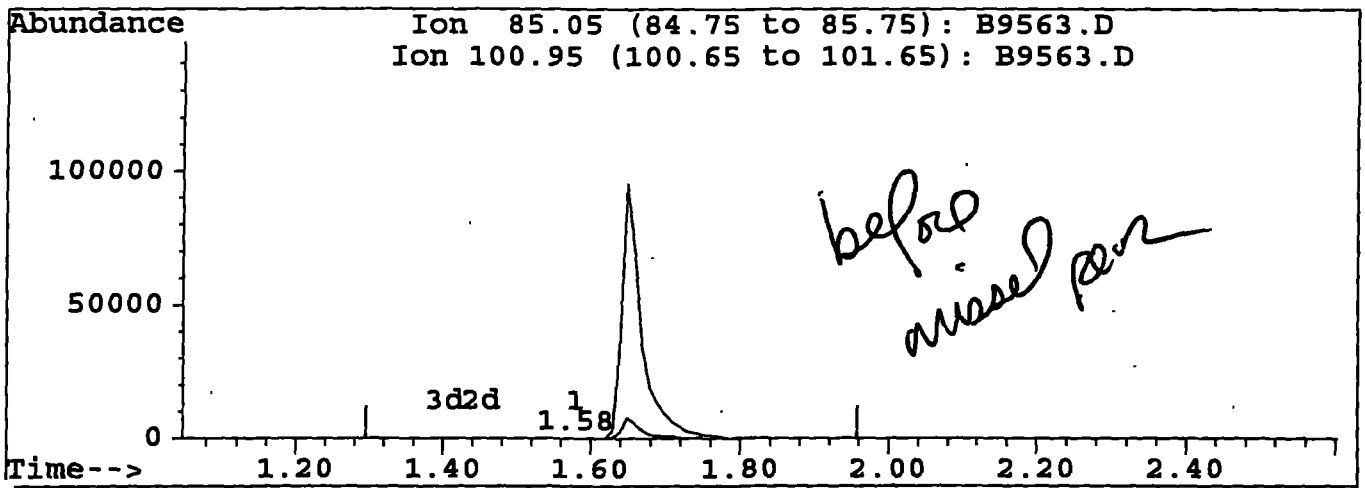
(#) = qualifier out of range (m) = manual integration

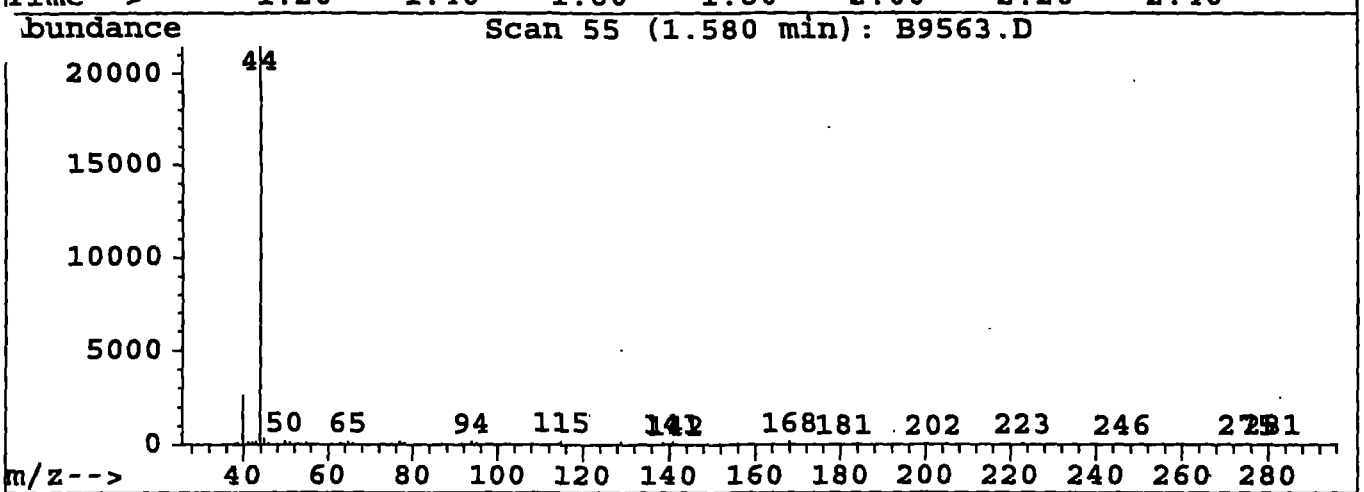
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9563.D
Acq On : 1 Feb 102 6:50 pm
Sample : LCS
Misc :
Quant Time: Feb 1 19:18 19102

Vial: 17
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration





TIC: B9563.D

(2) Dichlorodifluoromethane
1.58min 0.01ug/Kg
response 58

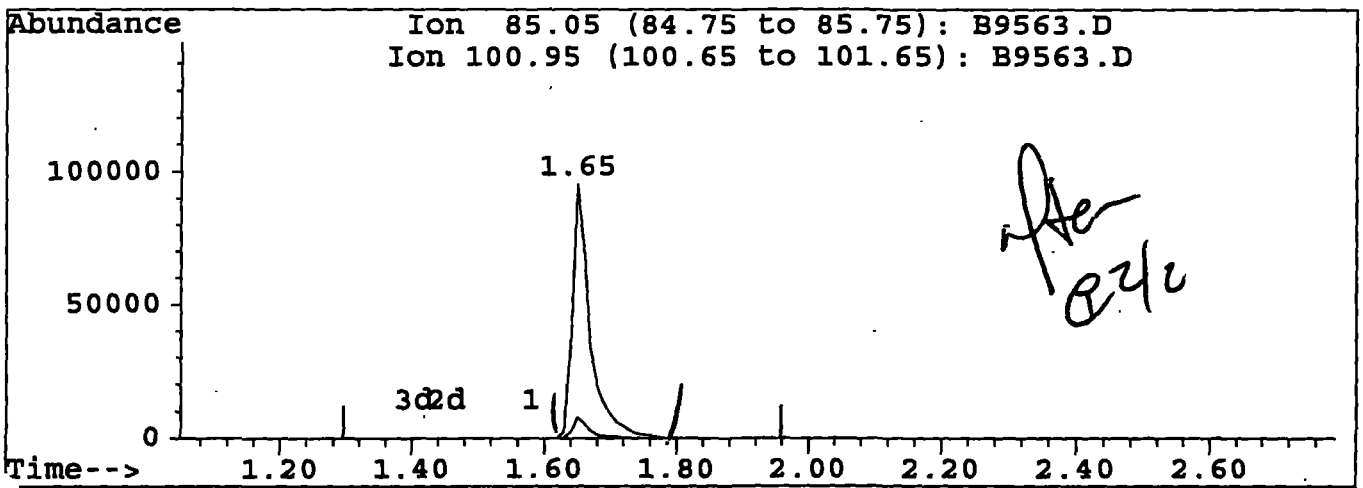
Ion	Exp%	Act%
85.05	100	100
100.95	8.10	32.31#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

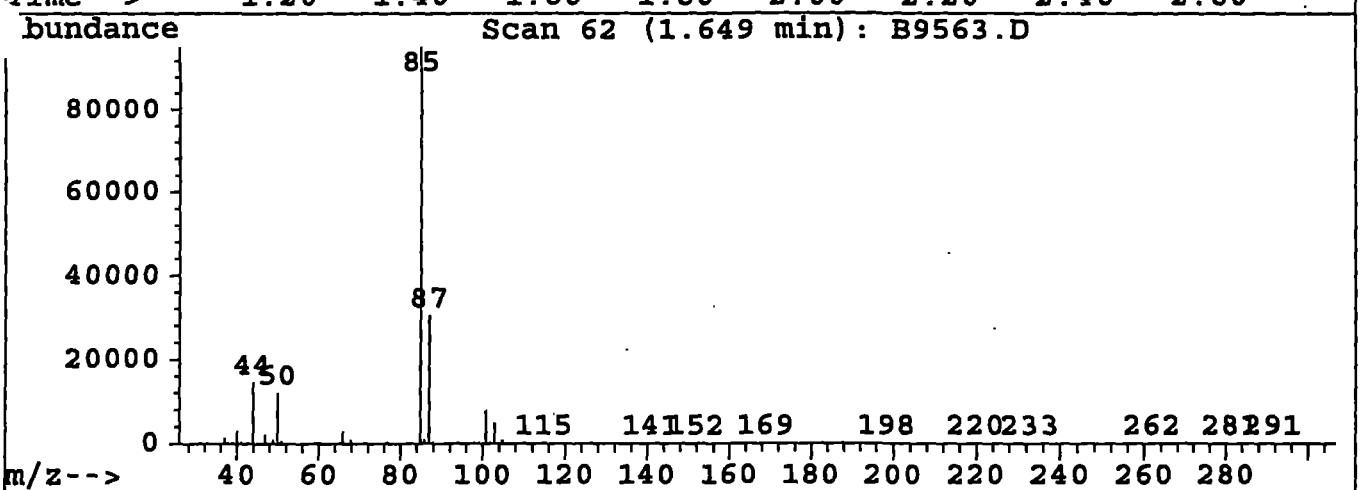
Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9563.D
Acq On : 1 Feb 102 6:50 pm
Sample : LCS
Misc :
Quant Time: Feb 2 9:50 19102

Vial: 17
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



After 8242



TIC: B9563.D

(2) Dichlorodifluoromethane
1.65min 16.48ug/Kg m
response 177323

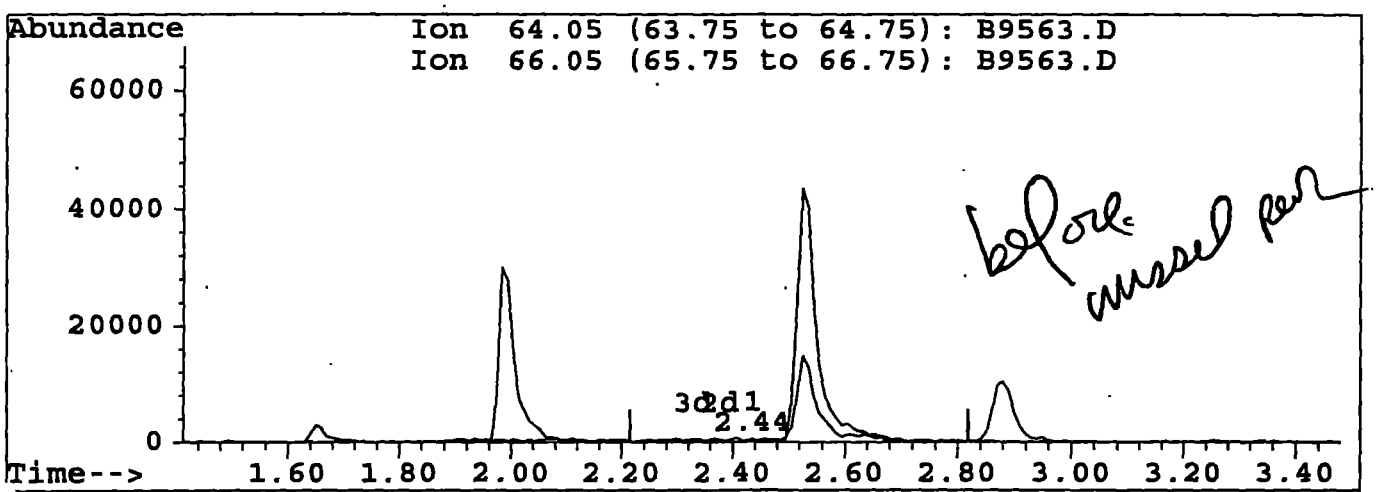
Ion	Exp%	Act%
85.05	100	100
100.95	8.10	8.27
0.00	0.00	0.00
0.00	0.00	0.00

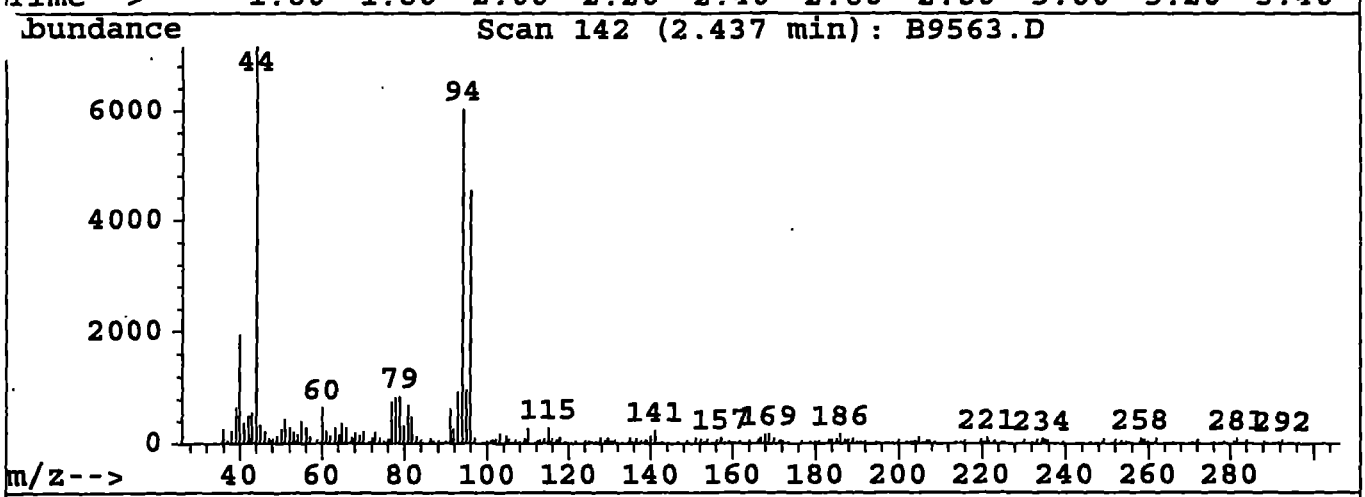
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9563.D
Acq On : 1 Feb 102 6:50 pm
Sample : LCS
Misc :
Quant Time: Feb 2 9:50 19102

Vial: 17
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration





TIC: B9563.D

(6) Chloroethane
2.44min 0.14ug/Kg
response 976

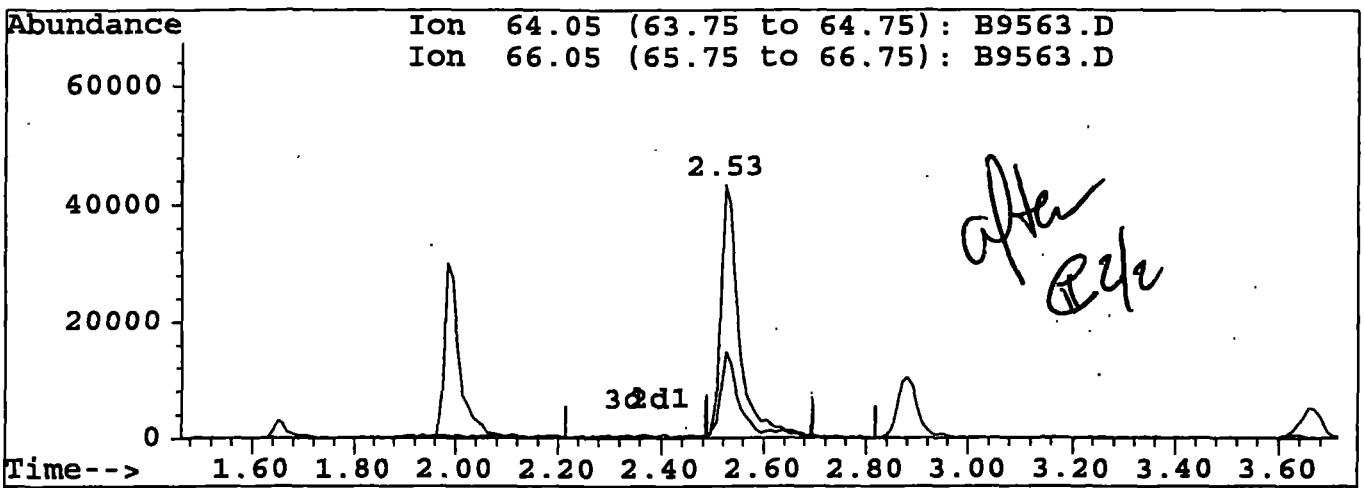
Ion	Exp%	Act%
64.05	100	100
66.05	31.90	52.07#
0.00	0.00	0.00
0.00	0.00	0.00

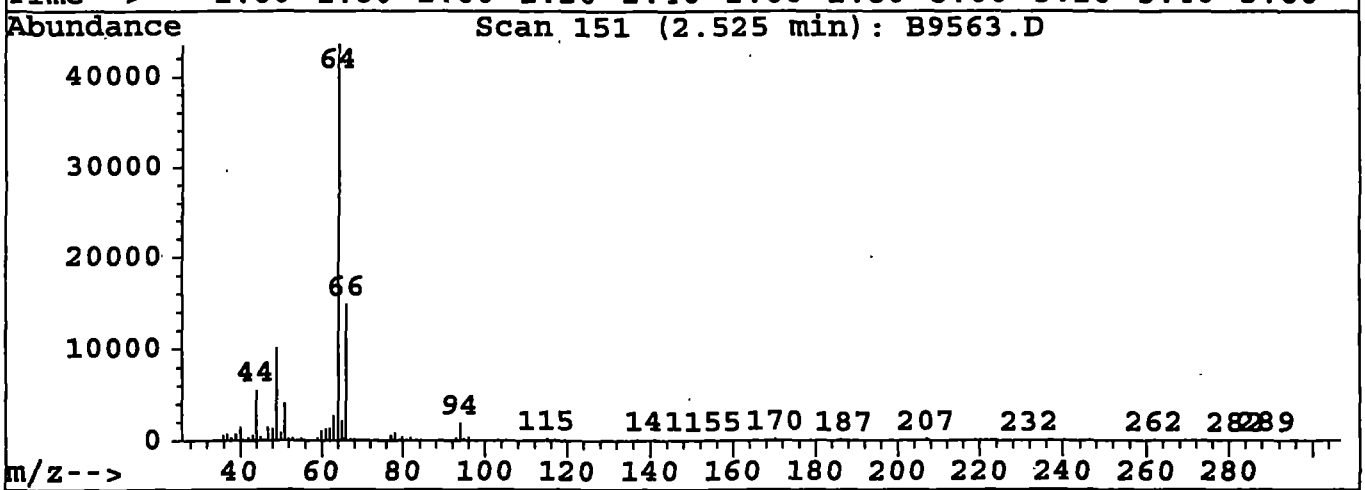
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9563.D
Acq On : 1 Feb 102 6:50 pm
Sample : LCS
Misc :
Quant Time: Feb 2 9:50 19102

Vial: 17
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration





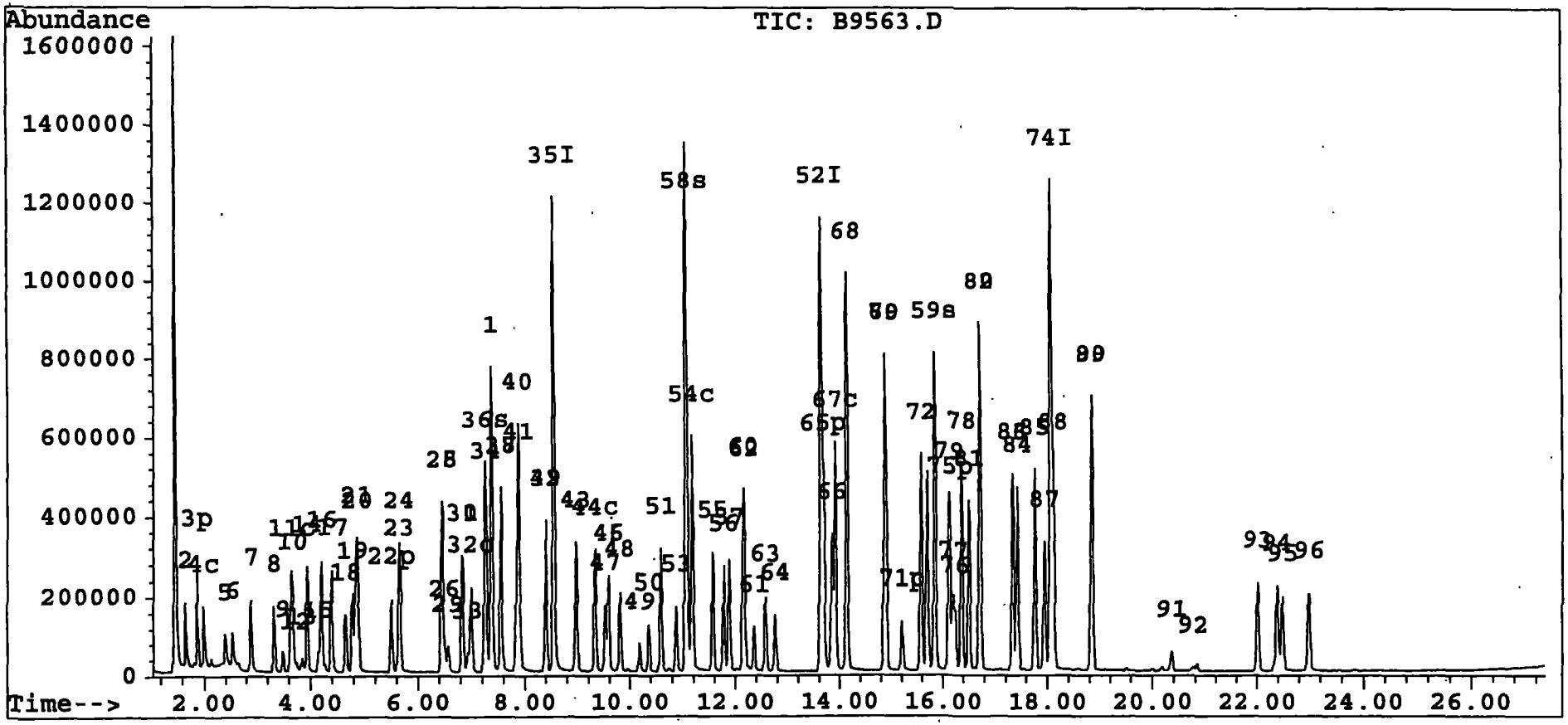
TIC: B9563.D

(6) Chloroethane
2.53min 15.08ug/Kg m
response 108659

Ion	Exp%	Act%
64.05	100	100
66.05	31.90	34.23
0.00	0.00	0.00
0.00	0.00	0.00

Data F. : J:\ACQUDATA\MSVOA3\DATA\020102\B9563. Vial: 17
Acq On : 1 Feb 102 6:50 pm Operator: TTRAVER
Sample : LCS Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 2 9:50 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



508

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Project Reference:
Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : **Order #:** 529690 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/02/02			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	24	UG/KG
BENZENE	5.0	17	UG/KG
BROMODICHLOROMETHANE	5.0	18	UG/KG
BROMOFORM	5.0	19	UG/KG
BROMOMETHANE	5.0	10	UG/KG
2-BUTANONE (MEK)	10	20	UG/KG
CARBON DISULFIDE	10	18	UG/KG
CARBON TETRACHLORIDE	5.0	17	UG/KG
CHLOROBENZENE	5.0	18	UG/KG
CHLOROETHANE	5.0	15	UG/KG
CHLOROFORM	5.0	19	UG/KG
ILOROMETHANE	5.0	18	UG/KG
BROMOCHLOROMETHANE	5.0	18	UG/KG
1,1-DICHLOROETHANE	5.0	19	UG/KG
1,2-DICHLOROETHANE	5.0	19	UG/KG
1,1-DICHLOROETHENE	5.0	18	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	19	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	18	UG/KG
1,2-DICHLOROPROPANE	5.0	16	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	18	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	18	UG/KG
ETHYLBENZENE	5.0	18	UG/KG
2-HEXANONE	10	19	UG/KG
METHYLENE CHLORIDE	5.0	18	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	20	UG/KG
STYRENE	5.0	18	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	19	UG/KG
TETRACHLOROETHENE	5.0	18	UG/KG
TOLUENE	5.0	18	UG/KG
1,1,1-TRICHLOROETHANE	5.0	16	UG/KG
1,1,2-TRICHLOROETHANE	5.0	18	UG/KG
TRICHLOROETHENE	5.0	17	UG/KG
VINYL CHLORIDE	5.0	16	UG/KG
O-XYLENE	5.0	18	UG/KG
M+P-XYLENE	5.0	36	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	102	%
TOLUENE-D8	(71 - 128 %)	106	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	107	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9576.D
Acq On : 2 Feb 102 1:39 pm
Sample : LCS 529690
Misc :
Quant Time: Feb 3 9:01 19102

Vial: 7
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

2/3

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.33	168	794539	50.00 ug/Kg	-0.08
35) 1,4 - Difluorobenzene	8.51	114	1547292	50.00 ug/Kg	-0.08
52) d5 - Chlorobenzene	13.59	117	1185458	50.00 ug/Kg	-0.09
74) d4 - Dichlorobenzene	18.04	152	475557	50.00 ug/Kg	-0.09
System Monitoring Compounds					%Recovery
36) surr4,Dibrflmethane	7.21	113	395349	53.31 ug/Kg	106.61%
58) surr3,Toluene-d8	11.02	98	1433444	52.85 ug/Kg	105.70%
59) surr2,bfb	15.80	95	550641	50.83 ug/Kg	101.65%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.64	85	172404	16.47 ug/Kg	98
3) Chloromethane	1.84	50	320063	18.53 ug/Kg	98
4) Vinyl Chloride	1.97	62	177940	16.20 ug/Kg	98
5) Bromomethane	2.37	94	59177	10.17 ug/Kg	100
6) Chloroethane	2.50	64	102798	14.67 ug/Kgm	1
7) Trichlorofluoromethane	2.86	101	199910	16.91 ug/Kg	99
8) Diethyl Ether	3.29	59	113819	20.27 ug/Kg	98
9) Acrolein	3.45	56	69214	100.87 ug/Kg	89
10) FREON 113	3.63	85	47120	22.28 ug/Kg	86
11) 1,1-Diclethene	3.60	96	112998	17.57 ug/Kg	97
12) Acetone	3.70	43	46628	23.50 ug/Kg	96
13) Iodomethane	3.81	127	21415	11.17 ug/Kg NT	95
14) Carbon Disulfide	3.90	76	468092	18.16 ug/Kg	99
15) Acetonitrile	4.11	41	80105	422.93 ug/Kg	97
16) Allyl Chloride	4.17	76	74425	18.73 ug/Kg	94
17) Methylene Chloride	4.36	84	155039	17.95 ug/Kg	98
18) TBA	4.61	59	324671	443.21 ug/Kg	99
19) Acrylonitrile	4.74	53	257459	105.99 ug/Kg	98
20) Methyl-t-Butyl Ether	4.83	73	356269	19.71 ug/Kg	98
21) trans-1,2-Dichloroethene	4.80	96	125436	18.56 ug/Kg	98
22) 1,1-Diclethane	5.47	63	250745	19.23 ug/Kg	99
23) Vinyl Acetate	5.60	43	307695	20.02 ug/Kg	98
24) 2-Chloro-1,3-butadiene	5.62	53	250936	18.33 ug/Kg	91
25) 2,2-Dichloropropane	6.40	77	176020	17.59 ug/Kg	94
26) 2-Butanone	6.46	43	81987	20.13 ug/Kg	94
28) cis-1,2-Dichloroethene	6.41	96	156672	18.77 ug/Kg	95
29) Propionitrile	6.52	54	107206	98.50 ug/Kg	94
30) Methacrylonitrile	6.78	67	53736	21.38 ug/Kg	98
31) Bromochloromethane	6.79	128	79164	18.90 ug/Kg	93
32) Chloroform	6.95	83	229785	18.78 ug/Kg	99
33) Tetrahydrofuran	6.88	42	61655	20.67 ug/Kg	96
34) 1,1,1-Trichloroethane	7.23	97	177771	16.48 ug/Kg	98
37) Carbontetrachloride	7.50	117	150146	16.96 ug/Kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9576.D Vial: 7
Acq On : 2 Feb 102 1:39 pm Operator: TTRAVER
Sample : LCS Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 3 9:01 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
38)	1,1-Dichloropropene	7.50	75	198505	15.02 ug/Kg	100
39)	Iso-Butyl Alcohol	8.36	43	263780	377.40 ug/Kg	100
40)	Benzene	7.84	78	676021	17.21 ug/Kg	98
41)	1,2-Dichloroethane	7.86	62	165686	19.06 ug/Kg	96
42)	N-Heptane	8.36	43	259623	18.60 ug/Kg	95
43)	Trichloroethene	8.93	95	169504	16.72 ug/Kg	97
44)	1,2-Diclpropane	9.29	63	182421	16.46 ug/Kg	90
45)	Methyl Methacrylate	9.54	69	122805	20.31 ug/Kg	94
46)	1,4-Dioxane	9.55	88	39270	413.72 ug/Kg	96
47)	Dibromomethane	9.47	93	101830	20.19 ug/Kg	98
48)	Bromodichloromethane	9.77	83	195836	18.15 ug/Kg	97
49)	2-Nitropropane	10.14	43	92541	36.34 ug/Kg	97
50)	2-Chloroethylvinyl Ether	10.32	63	81936	21.92 ug/Kg	99
51)	cis-1,3-Dichloropropene	10.55	75	279961	17.64 ug/Kg	94
53)	4-Methyl-2-Pentanone	10.83	43	220528	19.97 ug/Kg	99
54)	Toluene	11.13	91	644875	18.11 ug/Kg	98
55)	trans-1,3-Dichloropropene	11.53	75	250741	18.12 ug/Kg	99
56)	Ethyl Methacrylate	11.74	69	224719	21.41 ug/Kg	99
57)	1,1,2-Trichloroethane	11.85	83	131997	17.98 ug/Kg	97
60)	Tetrachloroethene	12.10	166	154625	18.11 ug/Kg	97
61)	2-Hexanone	12.32	43	154135	19.48 ug/Kg	99
62)	1,3-Dichloropropane	12.13	76	278539	17.31 ug/Kg	90
63)	Dibromochloromethane	12.53	129	163805	17.92 ug/Kg	97
64)	1,2-Dibromoethane	12.72	107	174611	18.91 ug/Kg	96
65)	Chlorobenzene	13.65	112	419956	17.82 ug/Kg	96
66)	1,1,1,2-Tetrachloroethane	13.80	131	155161	18.21 ug/Kg	97
67)	Ethylbenzene	13.86	91	695613	18.25 ug/Kg	99
68)	(m+p)Xylene	14.09	106	509810	36.45 ug/Kg	93
69)	o-Xylene	14.83	106	248422	17.84 ug/Kg	96
70)	Styrene	14.85	104	437065	18.25 ug/Kg	100
71)	Bromoform	15.16	173	106742	18.86 ug/Kg	99
72)	Isopropylbenzene	15.54	105	635643	17.58 ug/Kg	97
75)	1,1,2,2-Tetrachloroethane	16.10	83	210494	19.42 ug/Kg	93
76)	Trans-1,4-Dichloro-2-buten	16.21	53	55620	18.60 ug/Kg	94
77)	1,2,3-Trichloropropane	16.16	110	62390	20.51 ug/Kg	100
78)	n-Propylbenzene	16.32	91	751295	18.03 ug/Kg	97
79)	Bromobenzene	16.08	156	162713	18.77 ug/Kg	89
80)	1,3,5-Trimethylbenzene	16.67	105	478474	18.61 ug/Kg#	53
81)	2-Chlorotoluene	16.46	91	439091	17.66 ug/Kg	98
82)	4-Chlorotoluene	16.67	91	493074	17.94 ug/Kg	99
83)	tert-Butylbenzene	17.29	119	428008	18.29 ug/Kg	100
84)	1,2,4-Trimethylbenzene	17.39	105	459461	18.02 ug/Kg	99
85)	sec-Butylbenzene	17.72	105	668047	17.93 ug/Kg	99
86)	p-Isopropyltoluene	17.29	119	428008	18.29 ug/Kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9576.D
Acq On : 2 Feb 102 1:39 pm
Sample : LCS
Misc :
Quant Time: Feb 3 9:01 19102

Vial: 7
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
87)	1,3-Dclbenz	17.90	146	270272	20.09 ug/Kg	99
88)	1,4-Dclbenz	18.08	146	268099	18.48 ug/Kg	97
89)	n-Butylbenzene	18.81	91	485013	17.81 ug/Kg	97
90)	1,2-Dclbenz	18.79	146	249904	18.67 ug/Kg	97
91)	1,2-Dibromo-3-chloropropan	20.32	157	31562	19.34 ug/Kg	93
92)	Nitrobenzene	20.70	77	11345	16.42 ug/Kg#	81
93)	1,2,4-Tcbenzene	21.97	180	152528	19.13 ug/Kg	94
94)	Hexachlorobt	22.35	225	85643	18.41 ug/Kg	97
95)	Naphthalen	22.45	128	312650	17.75 ug/Kg	99
96)	1,2,3-Tclbenzene	22.93	180	138208	19.59 ug/Kg	100

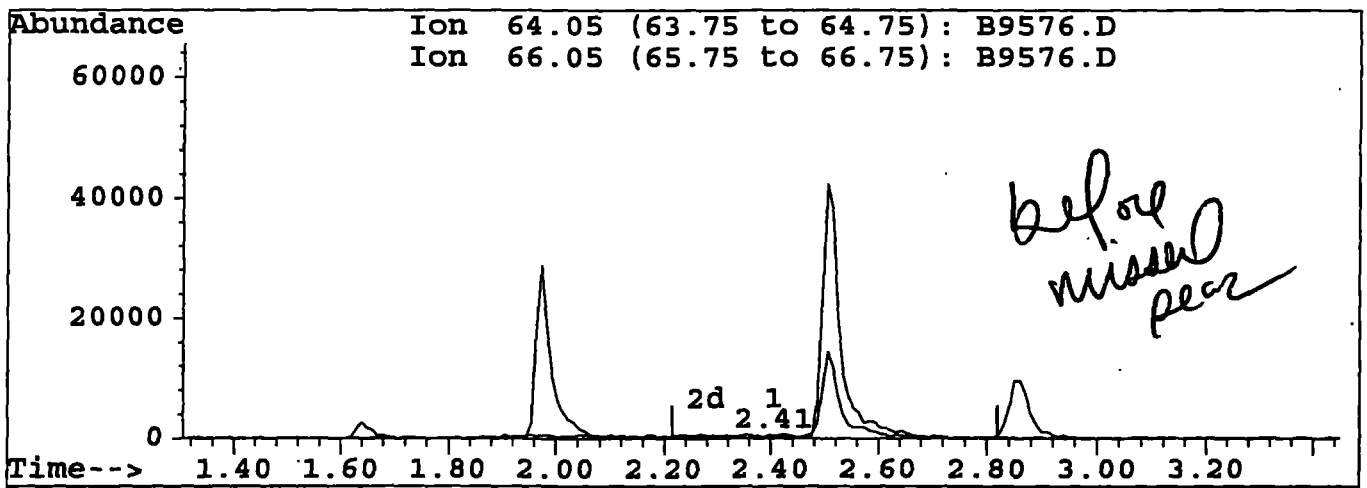
(#) = qualifier out of range (m) = manual integration

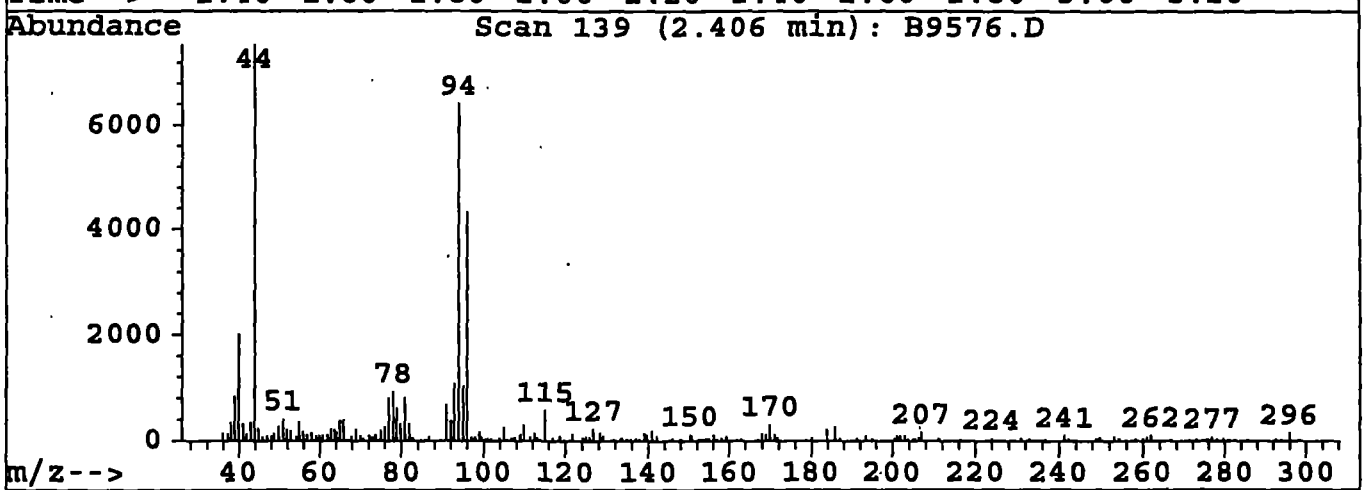
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9576.D
Acq On : 2 Feb 102 1:39 pm
Sample : LCS
Misc :
Quant Time: Feb 2 14:07 19102

Vial: 7
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration





TIC: B9576.D

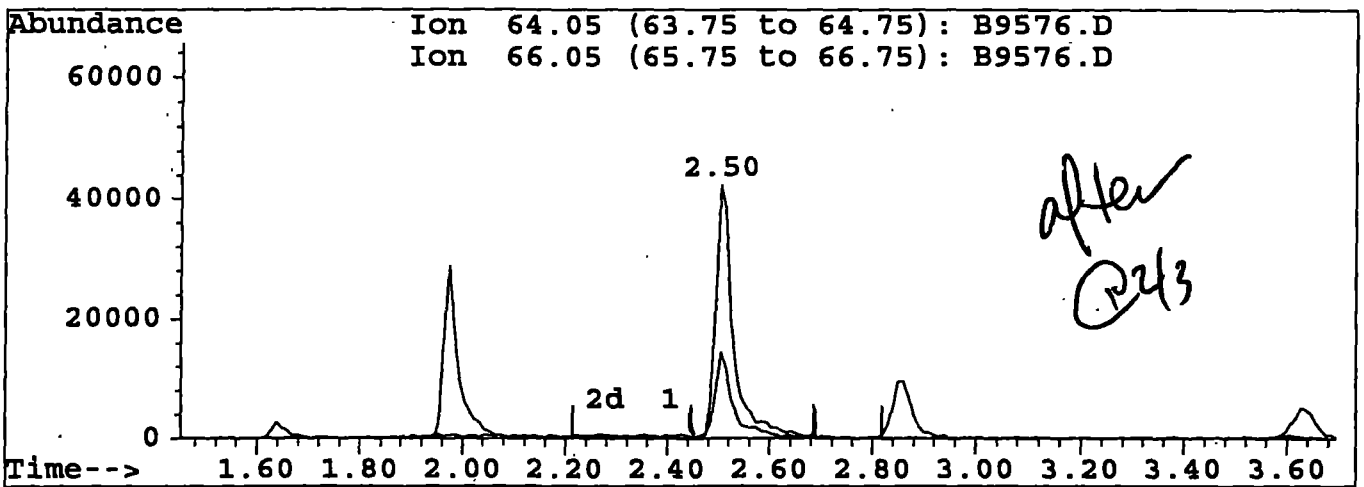
(6) Chloroethane
2.41min 0.26ug/Kg
response 1831

Ion	Exp%	Act%
64.05	100	100
66.05	31.90	103.30#
0.00	0.00	0.00
0.00	0.00	0.00

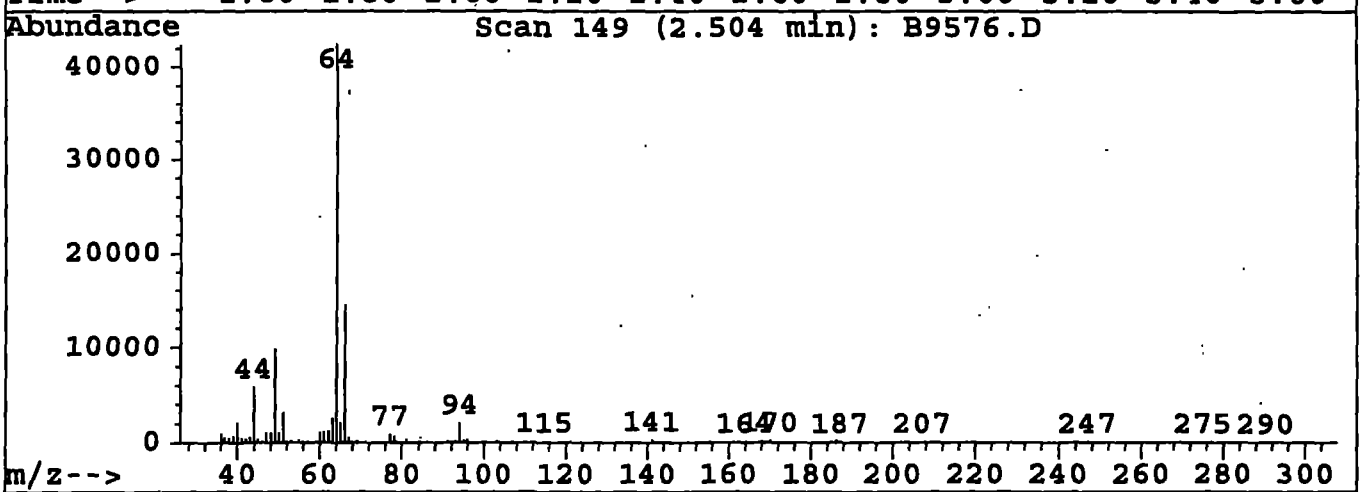
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020202\B9576.D Vial: 7
Acq On : 2 Feb 102 1:39 pm Operator: TTRAVER
Sample : LCS Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 3 9:01 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



after
P243



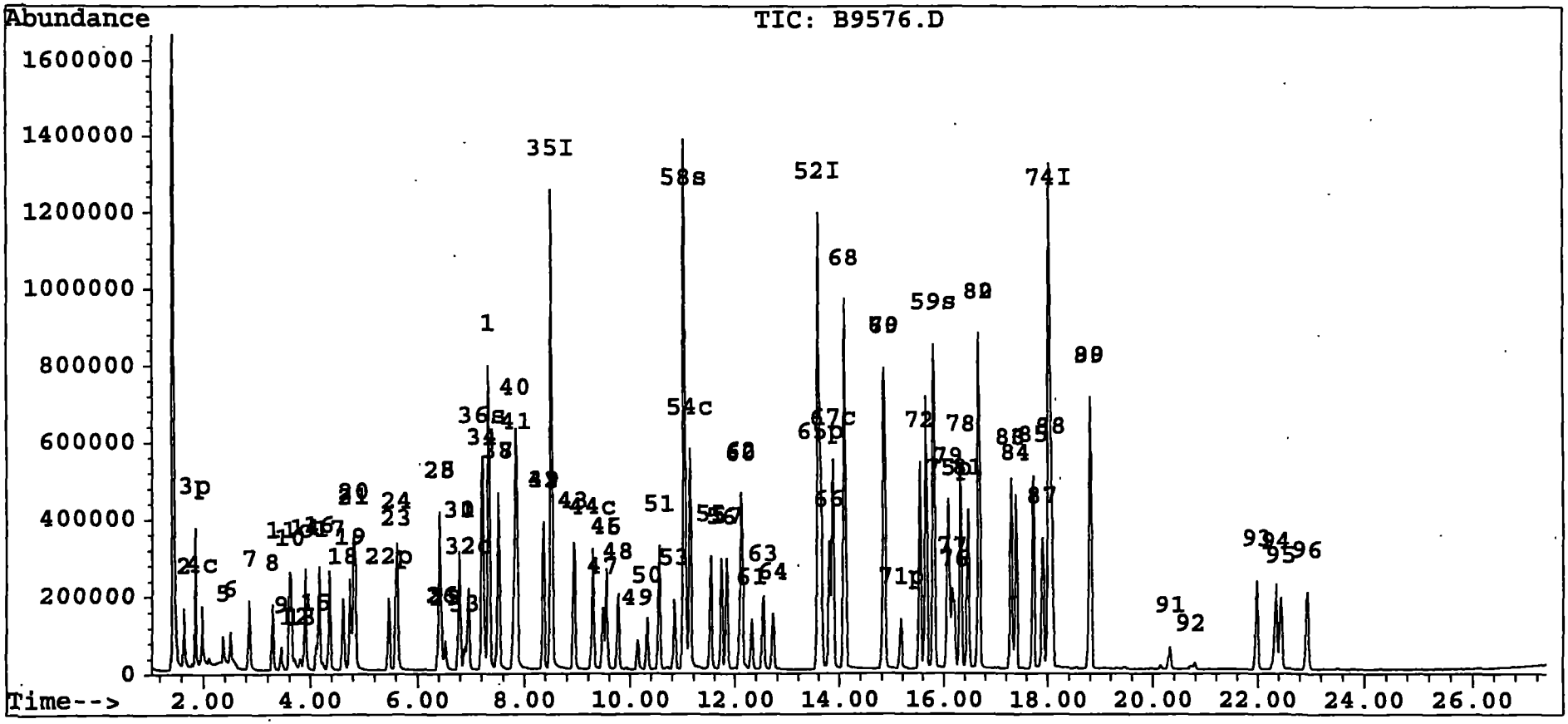
TIC: B9576.D

(6) Chloroethane
2.50min 14.67ug/Kg m
response 102798

Ion	Exp%	Act%
64.05	100	100
66.05	31.90	34.16
0.00	0.00	0.00
0.00	0.00	0.00

Data Fi. : J:\ACQUDATA\MSVOA3\DATA\020202\B9576.. Vial: 7
Acq On : 2 Feb 102 1:39 pm Operator: TTRAVER
Sample : LCS Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 3 9:01 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



515

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Project Reference:
Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : **Order #:** 529696 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/03/02			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	20 U	UG/KG
BENZENE	5.0	21	UG/KG
BROMODICHLOROMETHANE	5.0	20	UG/KG
BROMOFORM	5.0	18	UG/KG
BROMOMETHANE	5.0	22	UG/KG
2-BUTANONE (MEK)	10	16	UG/KG
CARBON DISULFIDE	10	17	UG/KG
CARBON TETRACHLORIDE	5.0	20	UG/KG
CHLOROBENZENE	5.0	21	UG/KG
CHLOROETHANE	5.0	20	UG/KG
CHLOROFORM	5.0	19	UG/KG
LOROMETHANE	5.0	19	UG/KG
BROMOCHLOROMETHANE	5.0	18	UG/KG
1,1-DICHLOROETHANE	5.0	20	UG/KG
1,2-DICHLOROETHANE	5.0	19	UG/KG
1,1-DICHLOROETHENE	5.0	19	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	20	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	21	UG/KG
1,2-DICHLOROPROPANE	5.0	20	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	20	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	19	UG/KG
ETHYLBENZENE	5.0	21	UG/KG
2-HEXANONE	10	15	UG/KG
METHYLENE CHLORIDE	5.0	20	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	16	UG/KG
STYRENE	5.0	21	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	17	UG/KG
TETRACHLOROETHENE	5.0	20	UG/KG
TOLUENE	5.0	20	UG/KG
1,1,1-TRICHLOROETHANE	5.0	19	UG/KG
1,1,2-TRICHLOROETHANE	5.0	19	UG/KG
TRICHLOROETHENE	5.0	20	UG/KG
VINYL CHLORIDE	5.0	17	UG/KG
O-XYLENE	5.0	20	UG/KG
M+P-XYLENE	5.0	46	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	102	%
TOLUENE-D8	(71 - 128 %)	102	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	104	%

Quantitation Report (Not Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020302\Q7349.D Vial: 7
Acq On : 3 Feb 2002 2:11 pm Operator: TTRAVER
Sample : LCS Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 3 14:40 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

BK 2/4 529696 1.0

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.57	168	716279	50.00 ug/L	0.00
34) 1,4-Difluorobenzene	12.93	114	1053603	50.00 ug/L	0.00
58) d5-Chlorobenzene	18.20	117	878004	50.00 ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.53	152	509317	50.00 ug/L	0.00
System Monitoring Compounds					
35) surr4,Dibrflmethane	11.62	113	343328	52.10 ug/L	0.00
Spiked Amount 50.000			Recovery	= 104.20%	
52) SURR3,Toluene-d8	15.56	98	1059404	51.12 ug/L	0.00
Spiked Amount 50.000			Recovery	= 102.24%	
77) SURR2,BFB	20.34	95	442484	50.84 ug/L	0.00
Spiked Amount 50.000			Recovery	= 101.68%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.89	85	174422	18.77 ug/L	98
3) Chloromethane	4.33	50	242922	18.64 ug/L	93
4) Vinyl Chloride	4.59	62	128528	17.33 ug/L	99
5) Bromomethane	5.39	94	139819	21.57 ug/L	96
6) Chloroethane	5.63	64	120137	19.94 ug/L	96
7) Trichlorofluoromethane	6.19	101	208403	20.24 ug/L	93
8) Diethyl Ether	6.78	59	114066	21.07 ug/L	95
9) Acrolein	7.15	56	60374	62.98 ug/L	100
10) 1,1-Diclethene	7.32	96	117308	18.98 ug/L	90
11) Freon 113	7.25	101	142735	22.44 ug/L	90
12) Acetone	7.46	43	33499	17.16 ug/L	81
13) Iodomethane	7.69	142	154776	16.76 ug/L	100
14) Carbon Disulfide	7.83	76	385102	16.64 ug/L #	96
16) Allyl Chloride	8.07	76	66985	19.82 ug/L	85
17) Methylene Chloride	8.34	84	143630	20.14 ug/L	89
18) TBA	8.51	59	130169	277.26 ug/L	92
19) Acrylonitrile	8.84	53	249636	95.65 ug/L	98
20) Methyl-t-Butyl Ether	8.79	73	231798	17.51 ug/L #	98
21) trans-1,2-Dichloroethene	8.85	96	145704	21.45 ug/L	100
22) 1,1-Diclethane	9.67	63	255663	19.63 ug/L	97
23) Vinyl Acetate	9.69	43	175188	14.44 ug/L	100
24) 2-Chloro-1,3-Butadiene	9.82	53	193452	17.16 ug/L	97
25) 2,2-Dichloropropane	10.73	77	162301	18.73 ug/L	98
26) cis-1,2-Dichloroethene	10.75	96	150560	19.81 ug/L	83
27) 2-Butanone	10.75	43	48848	16.13 ug/L #	88
28) Propionitrile	10.92	54	84271	85.93 ug/L	94
29) Bromochloromethane	11.22	128	73872	20.51 ug/L	87

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020302\Q7349.D Vial: 7
Acq On : 3 Feb 2002 2:11 pm Operator: TTRAVER
Sample : LCS Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 3 14:40 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
30)	Methacrylonitrile	11.17	67	35793	17.83 ug/L	#	64
31)	Tetrahydrofuran	11.29	42	32818	17.17 ug/L	#	89
32)	Chloroform	11.32	83	220272	18.73 ug/L		98
33)	1,1,1-Trichloroethane	11.64	97	174079	18.95 ug/L	#	95
36)	Carbontetrachloride	11.93	117	156580	20.45 ug/L		96
37)	1,1-Dichloropropene	11.93	110	62819	19.92 ug/L		85
38)	Benzene	12.32	78	530646	20.86 ug/L		95
39)	1,2-Dichloroethane	12.36	62	163669	18.86 ug/L		95
40)	Iso-Butyl Alcohol	12.08	43	67184	276.35 ug/L		85
41)	n-Heptane	12.60	43	272759	23.28 ug/L		99
42)	Trichloroethene	13.43	130	134830	20.42 ug/L		98
43)	1,2-Diclpropane	13.85	63	157590	20.13 ug/L	#	67
44)	Dibromomethane	14.10	93	77100	18.81 ug/L		94
45)	1,4-Dioxane	14.08	88	18455	329.75 ug/L		87
46)	Methyl Methacrylate	13.93	69	47444	17.98 ug/L		100
47)	Bromodichloromethane	14.34	83	161360	19.81 ug/L		99
48)	2-Nitropropane	14.75	43	96592	30.61 ug/L	#	74
49)	2-Chloroethylvinyl Ether	14.77	63	58192	15.42 ug/L		98
50)	cis-1,3-Dichloropropene	15.10	75	182948	19.84 ug/L		100
51)	4-Methyl-2-pentanone	15.30	43	85187	15.52 ug/L		99
53)	Toluene	15.68	91	522790	20.32 ug/L		100
54)	trans-1,3-Dichloropropene	16.07	75	148896	18.98 ug/L		96
55)	Ethyl Methacrylate	16.09	69	96329	18.11 ug/L		92
56)	1,1,2-Trichloroethane	16.43	97	103887	19.18 ug/L		97
59)	Tetrachloroethene	16.66	164	113425	19.69 ug/L		99
60)	2-Hexanone	16.78	43	55577	14.69 ug/L		93
61)	1,3-Dichloropropane	16.74	76	163451	18.97 ug/L		97
62)	Dibromochloromethane	17.18	129	110516	18.37 ug/L		96
63)	1,2-Dibromoethane	17.43	107	100092	18.52 ug/L		98
64)	Chlorobenzene	18.24	112	362712	20.76 ug/L		99
65)	1,1,1,2-Tetrachloroethane	18.39	131	113689	19.86 ug/L		93
66)	Ethylbenzene	18.37	106	184510	21.06 ug/L		96
67)	(m+p)Xylene	18.58	106	480320	46.06 ug/L		99
68)	o-Xylene	19.33	106	211839	20.48 ug/L		99
69)	Styrene	19.36	104	366242	21.25 ug/L		100
70)	Bromoform	19.83	173	73729	18.09 ug/L		98
71)	Isopropylbenzene	19.97	105	529801	21.04 ug/L		99
73)	trans-1,4-Dichloro-2-Buten	20.68	53	43174	17.24 ug/L		100
75)	1,1,2,2-Tetrachloroethane	20.60	83	125781	17.24 ug/L		96
76)	Bromobenzene	20.67	156	154687	20.99 ug/L		95
77)	1,2,3-Trichloropropane	20.71	110	31112	18.21 ug/L		89

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020302\Q7349.D Vial: 7
Acq On : 3 Feb 2002 2:11 pm Operator: TTRAVER
ample : LCS Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 3 14:40 2002 Quant Results File: EXP0124.RES

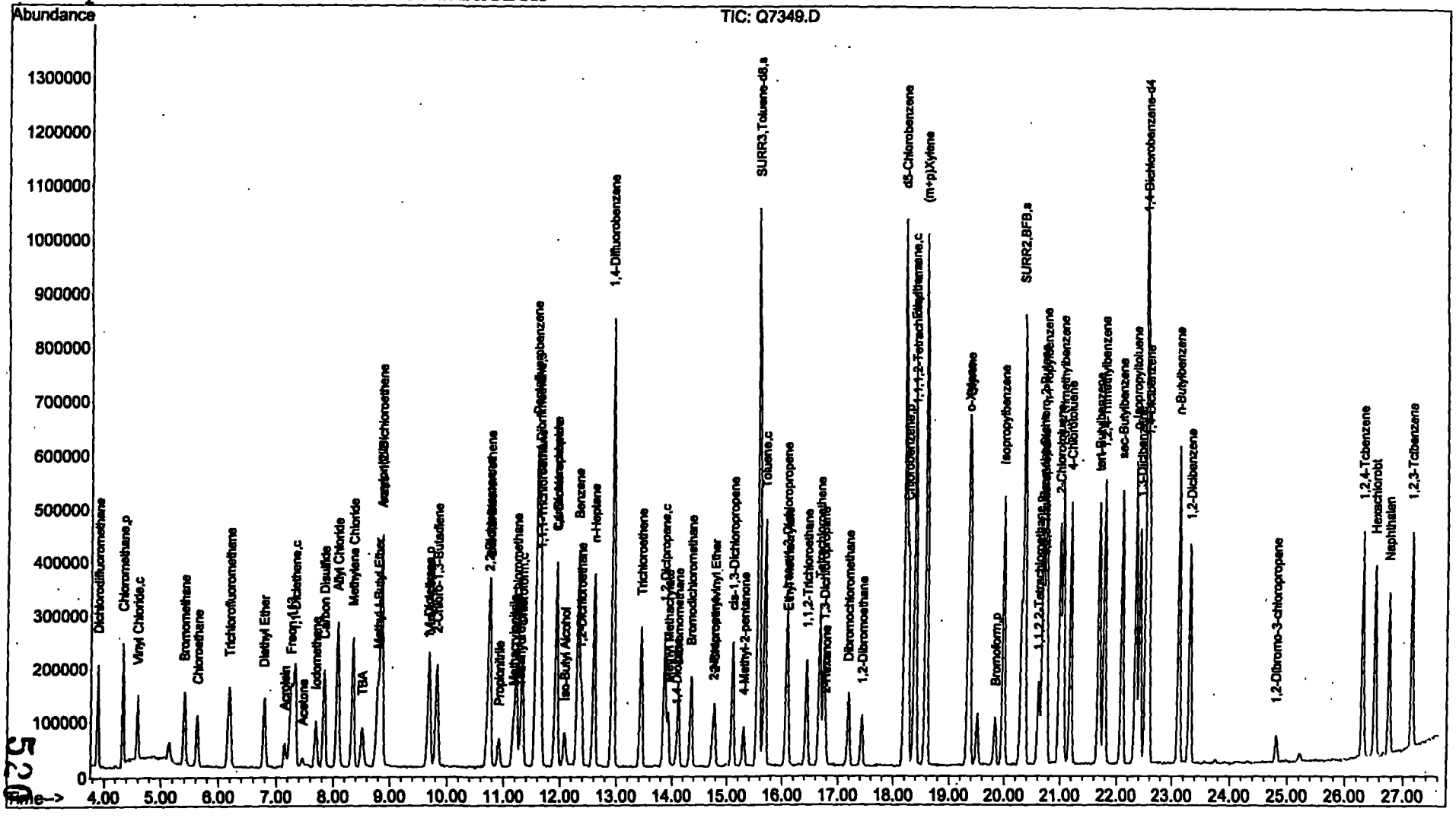
Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
78)	n-Propylbenzene	20.74	91	759506	20.95 ug/L	99
79)	2-Chlorotoluene	20.98	91	471118	20.06 ug/L	100
80)	4-Chlorotoluene	21.18	91	435232	20.23 ug/L	97
81)	1,3,5-Trimethylbenzene	21.04	105	483381	21.53 ug/L	99
82)	tert-Butylbenzene	21.68	119	383734	20.29 ug/L	99
83)	1,2,4-Trimethylbenzene	21.77	105	476206	21.03 ug/L	98
84)	sec-Butylbenzene	22.08	105	638569	20.88 ug/L	100
85)	p-Isopropyltoluene	22.33	119	512828	20.63 ug/L	100
86)	1,3-Diclbenzene	22.41	146	312432	22.87 ug/L	99
87)	1,4-Diclbenzene	22.56	146	325690	20.95 ug/L	99
88)	n-Butylbenzene	23.11	91	541426	20.62 ug/L	99
9)	1,2-Diclbenzene	23.31	146	286441	20.74 ug/L	99
90)	1,2-Dibromo-3-chloropropan	24.80	75	18771	16.04 ug/L	90
92)	1,2,4-Tcbenzene	26.30	180	200934	19.75 ug/L	98
93)	Hexachlorobt	26.52	225	113786	19.14 ug/L	96
94)	Naphthalen	26.75	128	346929	18.46 ug/L	97
95)	1,2,3-Tclbenzene	27.14	180	200695	20.21 ug/L	99

(#) = qualifier out of range (m) = manual integration

Data File : J:\ACQUDATA\MSVOA6\DATA\020302\Q7349.D Vial: 7
Acq On : 3 Feb 2002 2:11 pm Operator: TTRAVER
Sample : LCS Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 3 14:40 2002 Quant Results File: EXP0124.RES

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Project Reference:
Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : **Order #:** 529686 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/04/02			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	20 U	UG/KG
BENZENE	5.0	17	UG/KG
BROMODICHLOROMETHANE	5.0	18	UG/KG
BROMOFORM	5.0	18	UG/KG
BROMOMETHANE	5.0	8.8	UG/KG
2-BUTANONE (MEK)	10	17	UG/KG
CARBON DISULFIDE	10	15	UG/KG
CARBON TETRACHLORIDE	5.0	16	UG/KG
CHLOROBENZENE	5.0	18	UG/KG
CHLOROETHANE	5.0	15	UG/KG
CHLOROFORM	5.0	17	UG/KG
CHLOROMETHANE	5.0	14	UG/KG
BROMOCHLOROMETHANE	5.0	18	UG/KG
1,1-DICHLOROETHANE	5.0	17	UG/KG
1,2-DICHLOROETHANE	5.0	17	UG/KG
1,1-DICHLOROETHENE	5.0	15	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	17	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	16	UG/KG
1,2-DICHLOROPROPANE	5.0	16	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	18	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	18	UG/KG
ETHYLBENZENE	5.0	17	UG/KG
2-HEXANONE	10	18	UG/KG
METHYLENE CHLORIDE	5.0	16	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	18	UG/KG
STYRENE	5.0	18	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	17	UG/KG
TETRACHLOROETHENE	5.0	18	UG/KG
TOLUENE	5.0	17	UG/KG
1,1,1-TRICHLOROETHANE	5.0	15	UG/KG
1,1,2-TRICHLOROETHANE	5.0	18	UG/KG
TRICHLOROETHENE	5.0	17	UG/KG
VINYL CHLORIDE	5.0	15	UG/KG
O-XYLENE	5.0	17	UG/KG
M+P-XYLENE	5.0	35	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	103	%
TOLUENE-D8	(71 - 128 %)	102	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	99	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9608.D
cq On : 4 Feb 102 1:39 pm
Sample : LCS 529684
Misc :
Quant Time: Feb 4 14:24 19102

Vial: 1
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.38	168	766055	50.00	ug/Kg	-0.03
35) 1,4 - Difluorobenzene	8.56	114	1472851	50.00	ug/Kg	-0.03
52) d5 - Chlorobenzene	13.65	117	1140287	50.00	ug/Kg	-0.03
74) d4 - Dichlorobenzene	18.09	152	466232	50.00	ug/Kg	-0.04
System Monitoring Compounds						%Recovery
36) surr4,Dibrflmethane	7.26	113	347846	49.27	ug/Kg	98.54%
58) surr3,Toluene-d8	11.07	98	1335214	51.18	ug/Kg	102.35%
59) surr2,bfb	15.86	95	534311	51.27	ug/Kg	102.55%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.65	85	153375	15.20	ug/Kg	98
3) Chloromethane	1.87	50	231881	13.92	ug/Kg	98
4) Vinyl Chloride	1.99	62	162980	15.39	ug/Kg	97
5) Bromomethane	2.40	94	49232	8.78	ug/Kg +44%	95
6) Chloroethane	2.53	64	100445	14.86	ug/Kgm	1
7) Trichlorofluoromethane	2.89	101	180870	15.87	ug/Kg	97
8) Diethyl Ether	3.32	59	95639	17.66	ug/Kg	100
9) Acrolein	3.49	56	54653	82.61	ug/Kg	99
10) FREON 113	3.68	85	37356	18.32	ug/Kg	90
11) 1,1-Diclethene	3.64	96	91991	14.83	ug/Kg	98
12) Acetone	3.75	43	34935	18.26	ug/Kg	98
13) Iodomethane	3.84	127	21506	11.56	ug/Kg NT	88
14) Carbon Disulfide	3.94	76	383502	15.43	ug/Kg	99
15) Acetonitrile	4.16	41	57269	313.61	ug/Kg	95
16) Allyl Chloride	4.21	76	65731	17.16	ug/Kg	95
17) Methylene Chloride	4.40	84	136840	16.43	ug/Kg	98
18) TBA	4.65	59	254278	360.02	ug/Kg	100
19) Acrylonitrile	4.78	53	204238	87.20	ug/Kg	97
20) Methyl-t-Butyl Ether	4.88	73	311864	17.89	ug/Kg	98
21) trans-1,2-Dichloroethene	4.85	96	106020	16.27	ug/Kg	100
22) 1,1-Diclethane	5.52	63	208637	16.60	ug/Kg	98
23) Vinyl Acetate	5.65	43	246067	16.60	ug/Kg	97
24) 2-Chloro-1,3-butadiene	5.67	53	222389	16.85	ug/Kg	98
25) 2,2-Dichloropropane	6.45	77	151195	15.67	ug/Kg	97
26) 2-Butanone	6.50	43	66436	16.92	ug/Kg	99
28) cis-1,2-Dichloroethene	6.46	96	134360	16.69	ug/Kg	94
29) Propionitrile	6.57	54	88615	84.45	ug/Kg	99
30) Methacrylonitrile	6.83	67	47793	19.72	ug/Kg	89
31) Bromochloromethane	6.84	128	69918	17.32	ug/Kg	98
32) Chloroform	6.99	83	195946	16.61	ug/Kg	99
33) Tetrahydrofuran	6.94	42	44483	14.04	ug/Kg	100
34) 1,1,1-Trichloroethane	7.28	97	157534	15.15	ug/Kg	95
37) Carbontetrachloride	7.55	117	134801	15.99	ug/Kg	96

(#) = qualifier out of range (m) = manual integration

522

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9608.D Vial: 1
cq On : 4 Feb 102 1:39 pm Operator: DROOT
ample : LCS Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 4 14:24 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	1,1-Dichloropropene	7.56	75	192886	15.33	ug/Kg	98
39)	Iso-Butyl Alcohol	8.41	43	227175	341.46	ug/Kg	97
40)	Benzene	7.89	78	641918	17.17	ug/Kg	98
41)	1,2-Dichloroethane	7.91	62	143351	17.33	ug/Kg	96
42)	N-Heptane	8.41	43	226033	17.01	ug/Kg	97
43)	Trichloroethene	8.98	95	160263	16.60	ug/Kg	99
44)	1,2-Diclpropane	9.34	63	172870	16.39	ug/Kg	95
45)	Methyl Methacrylate	9.60	69	104481	18.16	ug/Kg	97
46)	1,4-Dioxane	9.59	88	32161	355.95	ug/Kg	98
47)	Dibromomethane	9.53	93	83395	17.37	ug/Kg	92
48)	Bromodichloromethane	9.83	83	181332	17.65	ug/Kg	96
49)	2-Nitropropane	10.20	43	78056	32.20	ug/Kg#	86
50)	2-Chloroethylvinyl Ether	10.37	63	76391	21.47	ug/Kg	99
51)	cis-1,3-Dichloropropene	10.61	75	272985	18.07	ug/Kg	97
3)	4-Methyl-2-Pentanone	10.89	43	187783	17.68	ug/Kg	98
54)	Toluene	11.19	91	586651	17.13	ug/Kg	99
55)	trans-1,3-Dichloropropene	11.58	75	240875	18.09	ug/Kg	99
56)	Ethyl Methacrylate	11.79	69	198788	19.69	ug/Kg	100
57)	1,1,2-Trichloroethane	11.90	83	126014	17.84	ug/Kg	97
60)	Tetrachloroethene	12.16	166	146719	17.87	ug/Kg	96
61)	2-Hexanone	12.38	43	140746	18.50	ug/Kg	94
62)	1,3-Dichloropropane	12.19	76	263099	17.00	ug/Kg	97
63)	Dibromochloromethane	12.59	129	160943	18.31	ug/Kg	96
64)	1,2-Dibromoethane	12.78	107	157565	17.74	ug/Kg	96
65)	Chlorobenzene	13.70	112	398962	17.60	ug/Kg	97
66)	1,1,1,2-Tetrachloroethane	13.85	131	148407	18.11	ug/Kg	96
67)	Ethylbenzene	13.92	91	634322	17.31	ug/Kg	99
68)	(m+p)Xylene	14.15	106	475169	35.32	ug/Kg	95
69)	o-Xylene	14.88	106	229230	17.11	ug/Kg	99
70)	Styrene	14.91	104	403193	17.50	ug/Kg	98
71)	Bromoform	15.22	173	99236	18.23	ug/Kg	95
72)	Isopropylbenzene	15.60	105	585141	16.82	ug/Kg	97
75)	1,1,2,2-Tetrachloroethane	16.16	83	183277	17.25	ug/Kg	100
76)	Trans-1,4-Dichloro-2-buten	16.26	53	50019	17.06	ug/Kg	100
77)	1,2,3-Trichloropropane	16.22	110	52844	17.72	ug/Kg	88
78)	n-Propylbenzene	16.38	91	683907	16.74	ug/Kg	100
79)	Bromobenzene	16.13	156	151617	17.84	ug/Kg	99
80)	1,3,5-Trimethylbenzene	16.73	105	432833	17.17	ug/Kg#	53
81)	2-Chlorotoluene	16.52	91	405320	16.63	ug/Kg	99
82)	4-Chlorotoluene	16.73	91	458765	17.03	ug/Kg	99
83)	tert-Butylbenzene	17.35	119	386087	16.83	ug/Kg	100
84)	1,2,4-Trimethylbenzene	17.45	105	430547	17.22	ug/Kg	97
85)	sec-Butylbenzene	17.78	105	595417	16.30	ug/Kg	99
86)	p-Isopropyltoluene	18.07	119	473873	16.82	ug/Kg#	61

523

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9608.D
Acq On : 4 Feb 102 1:39 pm
Sample : LCS
Misc :
Quant Time: Feb 4 14:24 19102

Vial: 1
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
87) 1,3-Dclbenz	17.96	146	249289	18.90 ug/Kg	97
88) 1,4-Dclbenz	18.14	146	250827	17.64 ug/Kg	98
89) n-Butylbenzene	18.87	91	428516	16.05 ug/Kg	99
90) 1,2-Dclbenz	18.85	146	231489	17.64 ug/Kg	98
91) 1,2-Dibromo-3-chloropropan	20.38	157	27540	17.21 ug/Kg	88
92) Nitrobenzene	20.77	77	10526	15.54 ug/Kg	85
93) 1,2,4-Tcbenzene	22.04	180	137897	17.64 ug/Kg	93
94) Hexachlorobt	22.42	225	72471	15.89 ug/Kg	93
95) Naphthalen	22.52	128	290907	16.71 ug/Kg	99
96) 1,2,3-Tclbenzene	23.00	180	126600	18.30 ug/Kg	97

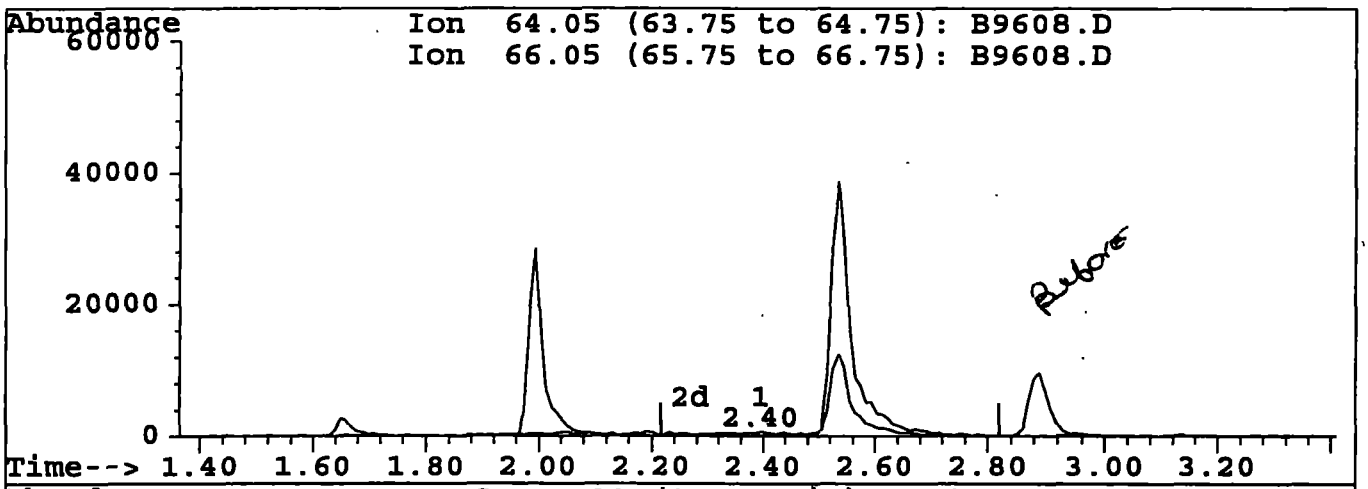
524

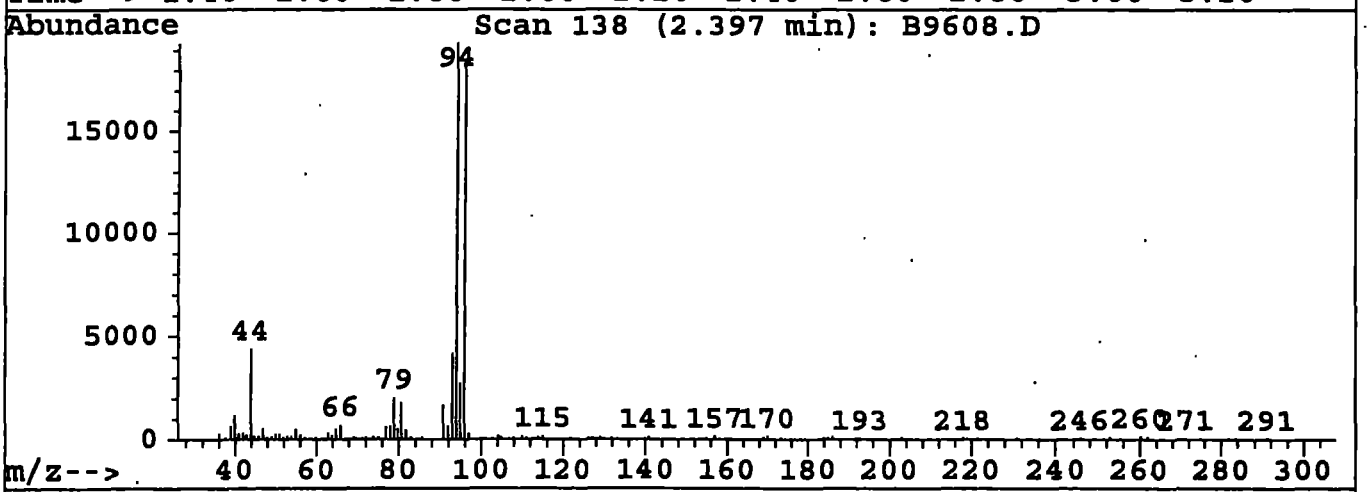
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9608.D Vial: 1
Acq On : 4 Feb 102 1:39 pm Operator: DROOT
Sample : LCS Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 4 14:07 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration





TIC: B9608.D

(6) Chloroethane
2.40min 0.02ug/Kg
response 134

Ion	Exp%	Act%
64.05	100	100
66.05	31.90	317.90#
0.00	0.00	0.00
0.00	0.00	0.00

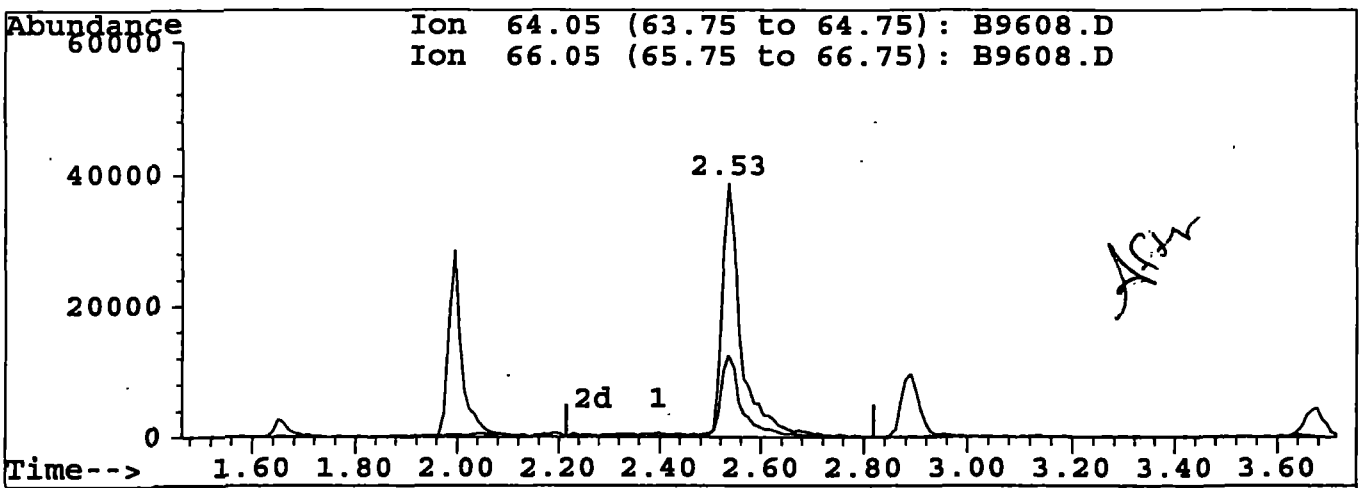
Jw 2/4

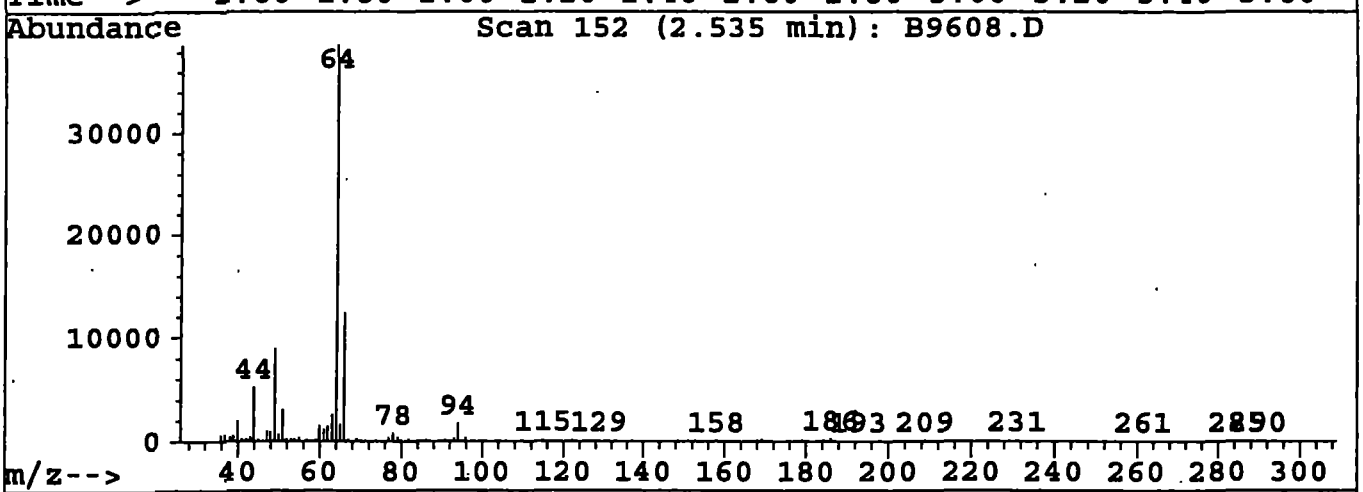
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9608.D
Acq On : 4 Feb 102 1:39 pm
Sample : LCS
Misc :
Quant Time: Feb 4 14:24 19102

Vial: 1
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration





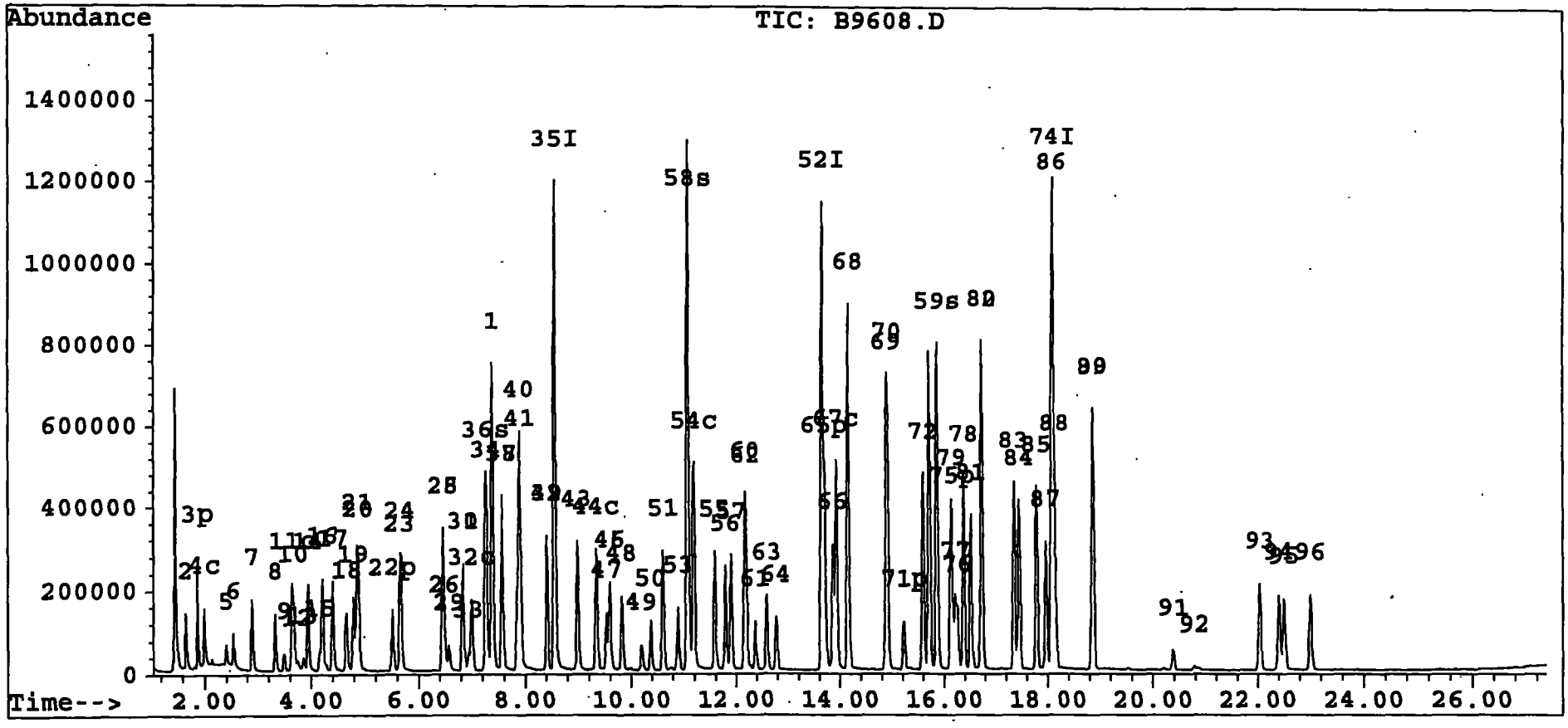
TIC: B9608.D

(6) Chloroethane
2.53min 14.86ug/Kg m
response 100445

Ion	Exp%	Act%
64.05	100	100
66.05	31.90	32.07
0.00	0.00	0.00
0.00	0.00	0.00

Data e : J:\ACQUDATA\MSVOA3\DATA\020402\B960. Vial: 1
Acq On : 4 Feb 102 1:39 pm Operator: DROOT
Sample : LCS Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 4 14:24 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration



527

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Project Reference:
Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : **Order #:** 529698 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/04/02			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	20 U	UG/KG
BENZENE	5.0	20	UG/KG
BROMODICHLOROMETHANE	5.0	20	UG/KG
BROMOFORM	5.0	19	UG/KG
BROMOMETHANE	5.0	20	UG/KG
2-BUTANONE (MEK)	10	18	UG/KG
CARBON DISULFIDE	10	20	UG/KG
CARBON TETRACHLORIDE	5.0	18	UG/KG
CHLOROBENZENE	5.0	20	UG/KG
CHLOROETHANE	5.0	18	UG/KG
CHLOROFORM	5.0	19	UG/KG
CHLOROMETHANE	5.0	18	UG/KG
DIBROMOCHLOROMETHANE	5.0	19	UG/KG
1,1-DICHLOROETHANE	5.0	21	UG/KG
1,2-DICHLOROETHANE	5.0	18	UG/KG
1,1-DICHLOROETHENE	5.0	19	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	20	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	20	UG/KG
1,2-DICHLOROPROPANE	5.0	19	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	20	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	19	UG/KG
ETHYLBENZENE	5.0	21	UG/KG
2-HEXANONE	10	16	UG/KG
METHYLENE CHLORIDE	5.0	20	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	16	UG/KG
STYRENE	5.0	20	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	19	UG/KG
TETRACHLOROETHENE	5.0	18	UG/KG
TOLUENE	5.0	20	UG/KG
1,1,1-TRICHLOROETHANE	5.0	18	UG/KG
1,1,2-TRICHLOROETHANE	5.0	20	UG/KG
TRICHLOROETHENE	5.0	19	UG/KG
VINYL CHLORIDE	5.0	16	UG/KG
O-XYLENE	5.0	21	UG/KG
M+P-XYLENE	5.0	43	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	100	%
TOLUENE-D8	(71 - 128 %)	101	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	102	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7365.D Vial: 6
Acq On : 4 Feb 2002 2:14 pm Operator: BALLGEIER
Sample : LCS Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 8 12:56 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

523698 1-c

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.56	168	807211	50.00 ug/L	0.00
34) 1,4-Difluorobenzene	12.92	114	1238081	50.00 ug/L	0.00
58) d5-Chlorobenzene	18.20	117	1019002	50.00 ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.52	152	552703	50.00 ug/L	0.00
System Monitoring Compounds					
35) surr4,Dibrflmethane	11.61	113	396801	51.17 ug/L	0.00
Spiked Amount 50.000			Recovery	= 102.34%	
52) SURR3,Toluene-d8	15.55	98	1231625	50.58 ug/L	0.00
Spiked Amount 50.000			Recovery	= 101.16%	
57) SURR2,BFB	20.34	95	509781	49.85 ug/L	0.00
Spiked Amount 50.000			Recovery	= 99.70%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.89	85	186451	17.81 ug/L	95
3) Chloromethane	4.33	50	262557	17.88 ug/L	96
4) Vinyl Chloride	4.59	62	134609	16.11 ug/L	96
5) Bromomethane	5.39	94	142460	19.50 ug/L	99
6) Chloroethane	5.62	64	122430	18.03 ug/L	99
7) Trichlorofluoromethane	6.17	101	227990	19.65 ug/L	95
8) Diethyl Ether	6.78	59	127898	20.97 ug/L	94
9) Acrolein	7.13	56	78668	72.82 ug/L	99
10) 1,1-Diclethene	7.32	96	131152	18.83 ug/L #	80
11) Freon 113	7.25	101	159300	22.22 ug/L	92
12) Acetone	7.45	43	41593	18.90 ug/L	96
13) Iodomethane	7.68	142	219967	20.49 ug/L	97
14) Carbon Disulfide	7.83	76	535033	20.51 ug/L	99
16) Allyl Chloride	8.07	76	78499	20.61 ug/L	64
17) Methylene Chloride	8.33	84	162915	20.27 ug/L	86
18) TBA	8.51	59	172522	326.08 ug/L	98
19) Acrylonitrile	8.84	53	284480	96.72 ug/L	95
20) Methyl-t-Butyl Ether	8.78	73	298382	20.00 ug/L	97
21) trans-1,2-Dichloroethene	8.84	96	157379	20.56 ug/L	98
22) 1,1-Diclethane	9.67	63	303430	20.67 ug/L	93
23) Vinyl Acetate	9.68	43	239173	17.50 ug/L	97
24) 2-Chloro-1,3-Butadiene	9.81	53	278757	21.94 ug/L	93
25) 2,2-Dichloropropane	10.72	77	180953	18.53 ug/L	99
26) cis-1,2-Dichloroethene	10.74	96	173858	20.30 ug/L	83
27) 2-Butanone	10.74	43	59903	17.55 ug/L	96
28) Propionitrile	10.91	54	96953m	87.73 ug/L	
29) Bromochloromethane	11.20	128	82224	20.26 ug/L	86

A 1/8

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7365.D Vial: 6
Acq On : 4 Feb 2002 2:14 pm Operator: BALLGEIER
Sample : LCS Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 8 12:56 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) Methacrylonitrile	11.16	67	44375	19.62 ug/L #	66
31) Tetrahydrofuran	11.27	42	39557	18.37 ug/L #	75
32) Chloroform	11.31	83	253841	19.15 ug/L	97
33) 1,1,1-Trichloroethane	11.63	97	188395	18.19 ug/L #	89
36) Carbontetrachloride	11.93	117	166486	18.50 ug/L	97
37) 1,1-Dichloropropene	11.91	110	72427	19.54 ug/L	90
38) Benzene	12.30	78	583259	19.51 ug/L	96
39) 1,2-Dichloroethane	12.36	62	187992	18.44 ug/L	97
40) Iso-Butyl Alcohol	12.08	43	77989m	273.00 ug/L	
41) n-Heptane	12.59	43	279071	20.27 ug/L	99
42) Trichloroethene	13.42	130	149659	19.29 ug/L	99
43) 1,2-Diclpropane	13.85	63	173965	18.91 ug/L #	67
44) Dibromomethane	14.10	93	90536	18.80 ug/L	98
45) 1,4-Dioxane	14.08	88	21774	331.08 ug/L	88
46) Methyl Methacrylate	13.91	69	63883	20.27 ug/L	89
47) Bromodichloromethane	14.34	83	186971	19.54 ug/L	99
48) 2-Nitropropane	14.75	43	117342	31.64 ug/L #	82
49) 2-Chloroethylvinyl Ether	14.77	63	78186	17.63 ug/L	99
50) cis-1,3-Dichloropropene	15.08	75	219716	20.28 ug/L	99
51) 4-Methyl-2-pentanone	15.29	43	106906	16.58 ug/L	97
53) Toluene	15.66	91	591080	19.55 ug/L	100
54) trans-1,3-Dichloropropene	16.07	75	178216	19.33 ug/L	96
55) Ethyl Methacrylate	16.09	69	119695	19.15 ug/L	90
56) 1,1,2-Trichloroethane	16.42	97	124930	19.63 ug/L	97
59) Tetrachloroethene	16.66	164	123084	18.41 ug/L	98
60) 2-Hexanone	16.78	43	71753	16.34 ug/L	96
61) 1,3-Dichloropropane	16.73	76	199774	19.98 ug/L	97
62) Dibromochloromethane	17.18	129	130075	18.62 ug/L	98
63) 1,2-Dibromoethane	17.43	107	117444	18.73 ug/L	97
64) Chlorobenzene	18.26	112	406327	20.04 ug/L	98
65) 1,1,1,2-Tetrachloroethane	18.37	131	136183	20.49 ug/L	95
66) Ethylbenzene	18.37	106	209835	20.64 ug/L	100
67) (m+p)Xylene	18.58	106	522490	43.17 ug/L	96
68) o-Xylene	19.33	106	248498	20.70 ug/L	98
69) Styrene	19.36	104	400919	20.05 ug/L	99
70) Bromoform	19.83	173	88524	18.71 ug/L	99
71) Isopropylbenzene	19.97	105	583136	19.96 ug/L	99
73) trans-1,4-Dichloro-2-Buten	20.68	53	51428	17.69 ug/L	98
75) 1,1,2,2-Tetrachloroethane	20.60	83	147411	18.62 ug/L	97
76) Bromobenzene	20.67	156	173747	21.73 ug/L	96
77) 1,2,3-Trichloropropane	20.71	110	35057	18.91 ug/L	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7365.D Vial: 6
Acq On : 4 Feb 2002 2:14 pm Operator: BALLGEIER
Sample : LCS Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 8 12:56 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

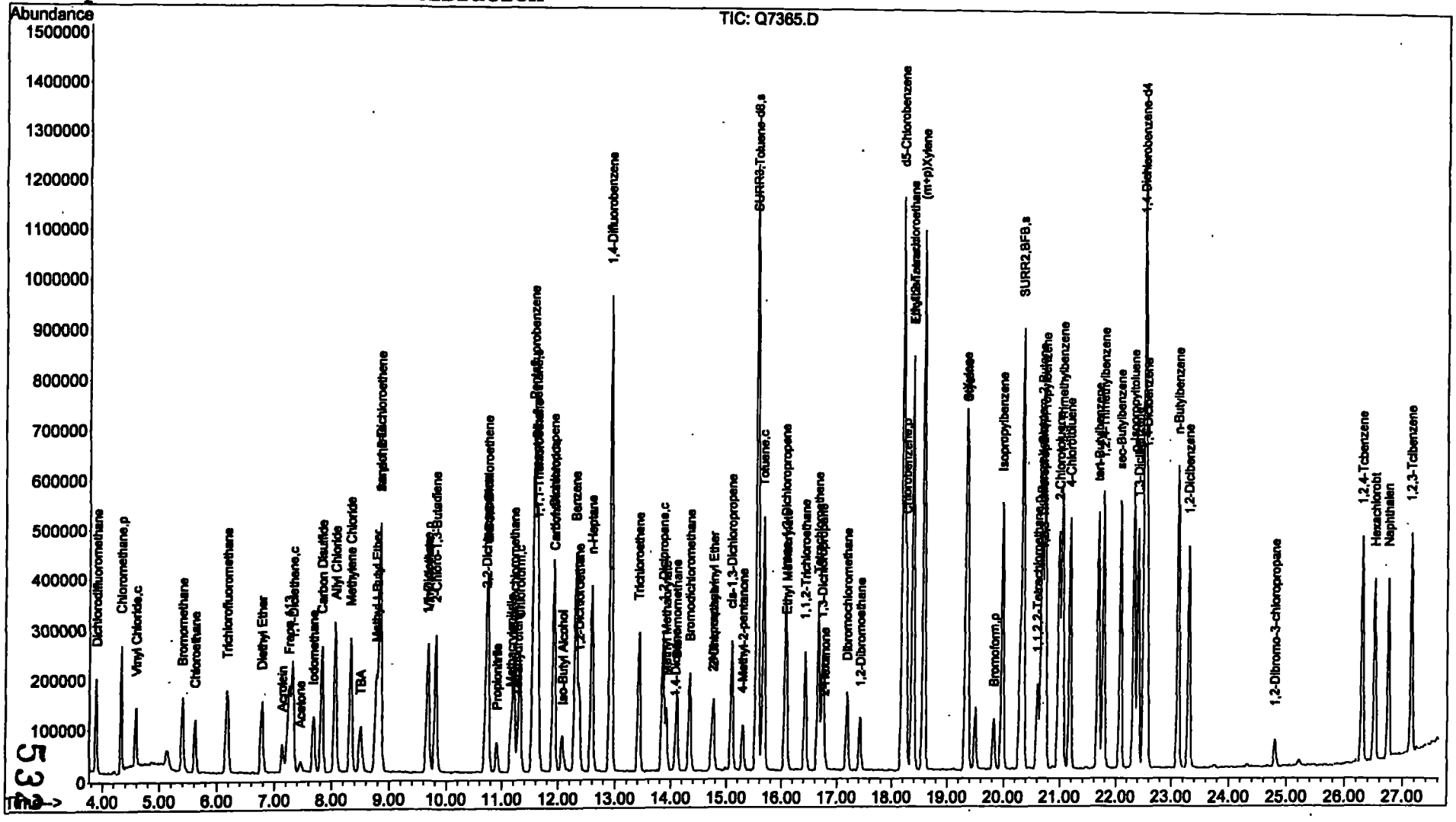
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
78) n-Propylbenzene	20.74	91	815284	20.73 ug/L	99
79) 2-Chlorotoluene	20.99	91	514638	20.19 ug/L	99
80) 4-Chlorotoluene	21.18	91	471134	20.18 ug/L	99
81) 1,3,5-Trimethylbenzene	21.04	105	516553	21.20 ug/L	100
82) tert-Butylbenzene	21.68	119	410538	20.00 ug/L	100
83) 1,2,4-Trimethylbenzene	21.77	105	519633	21.14 ug/L	98
84) sec-Butylbenzene	22.08	105	668016	20.13 ug/L	99
85) p-Isopropyltoluene	22.33	119	542021	20.10 ug/L	99
86) 1,3-Diclbenzene	22.41	146	338416	22.83 ug/L	99
87) 1,4-Diclbenzene	22.56	146	340776	20.20 ug/L	98
88) n-Butylbenzene	23.11	91	570784	20.03 ug/L	100
89) 1,2-Diclbenzene	23.30	146	307633	20.53 ug/L	99
90) 1,2-Dibromo-3-chloropropan	24.80	75	20432	16.09 ug/L	98
92) 1,2,4-Tcbenzene	26.30	180	225666	20.44 ug/L	99
93) Hexachlorobt	26.52	225	122699	19.02 ug/L	95
94) Naphthalen	26.75	128	411510	20.18 ug/L	99
95) 1,2,3-Tclbenzene	27.14	180	209714	19.46 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q736_.D Vial: 6
Acq On : 4 Feb 2002 2:14 pm Operator: BALLGEIER
Sample : LCS Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 8 12:56 2002 Quant Results File: EXP0124.RES

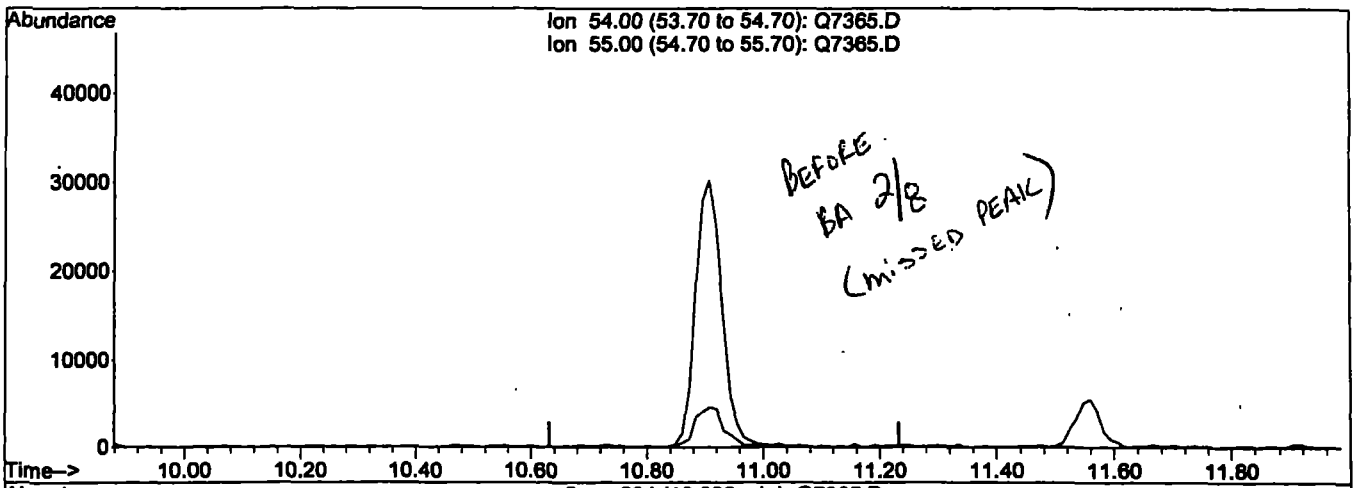
Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration

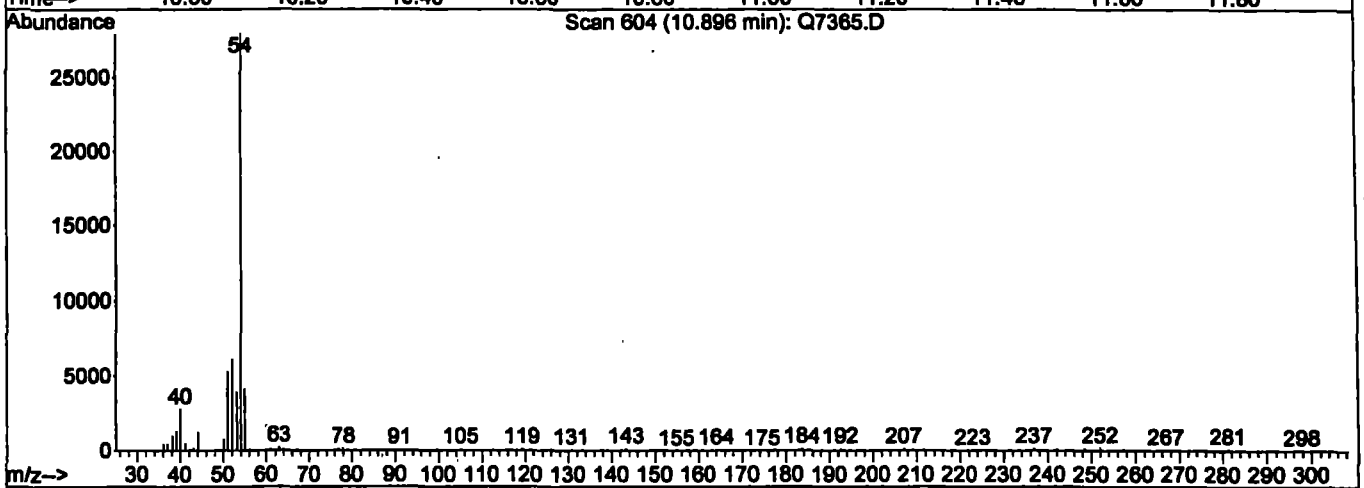


Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7365.D Vial: 6
Acq On : 4 Feb 2002 2:14 pm Operator: BALLGEIER
Sample : LCS Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 4 14:42 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration





(28) Propionitrile

10.90min 0.00ug/L

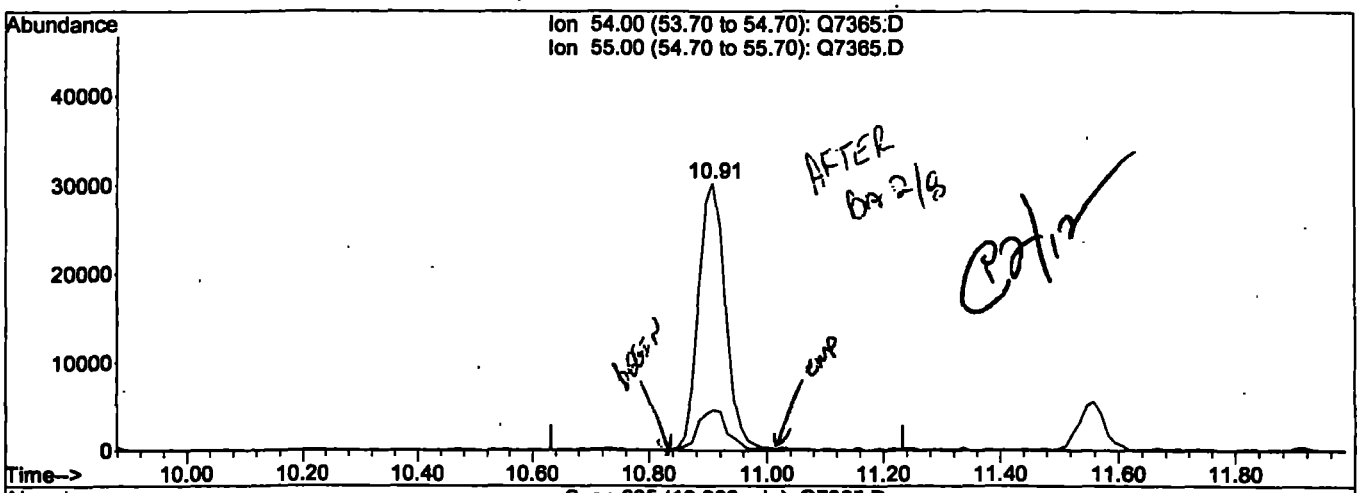
response 0

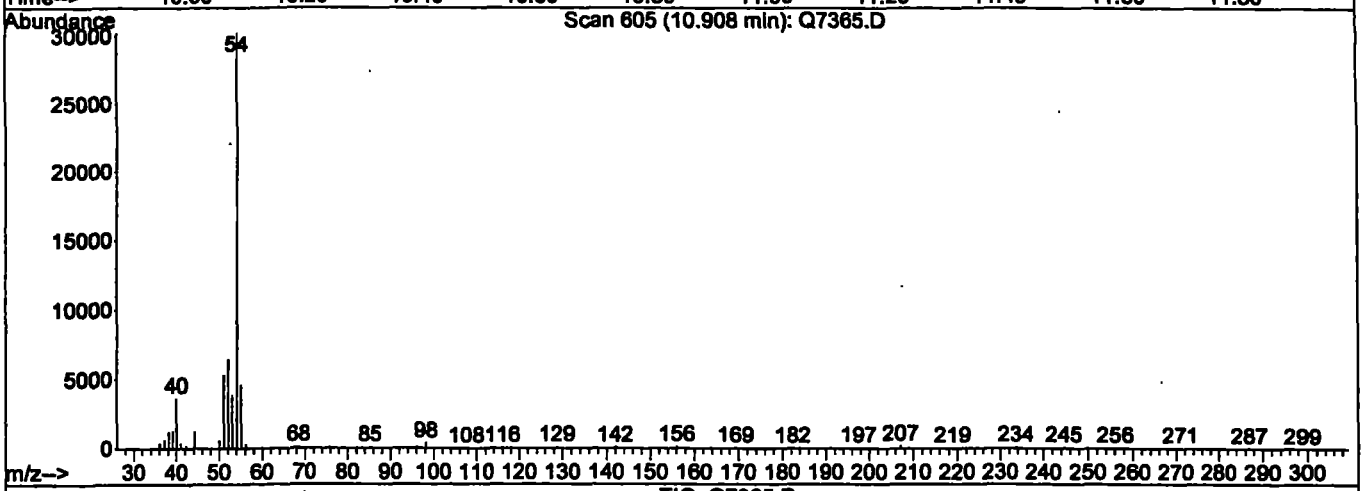
Ion	Exp%	Act%
54.00	100	0.00
55.00	15.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7365.D Vial: 6
Acq On : 4 Feb 2002 2:14 pm Operator: BALLGEIER
Sample : LCS Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 8 12:56 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration





TIC: Q7365.D

(28) Propionitrile

10.91min 87.73ug/L m

response 96953

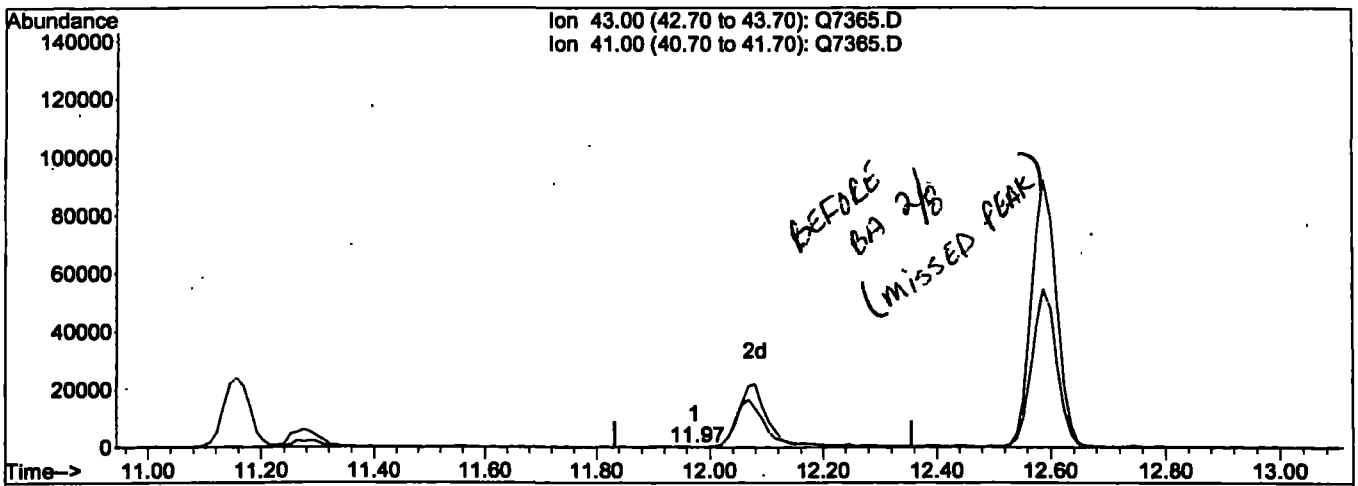
Ion	Exp%	Act%
54.00	100	100
55.00	15.80	15.19
0.00	0.00	0.00
0.00	0.00	0.00

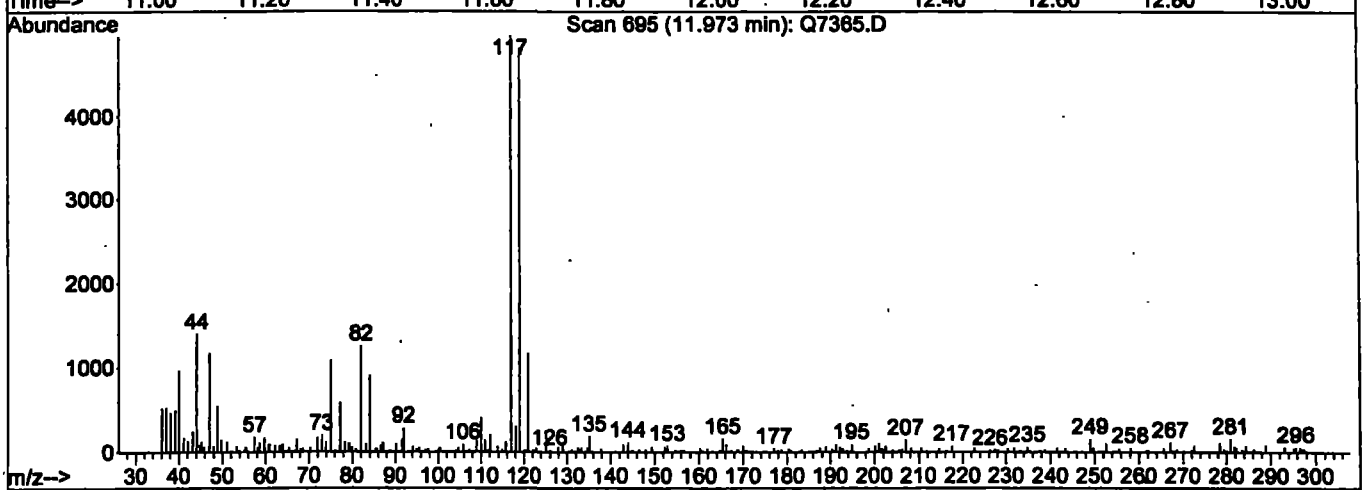
Q7365.D EXP0124.M Fri Feb 08 12:56:35 2002

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7365.D Vial: 6
Acq On : 4 Feb 2002 2:14 pm Operator: BALLGEIER
Sample : LCS Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 4 14:42 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration





TIC: Q7365.D

(40) Iso-Butyl Alcohol

11.97min 0.77ug/L

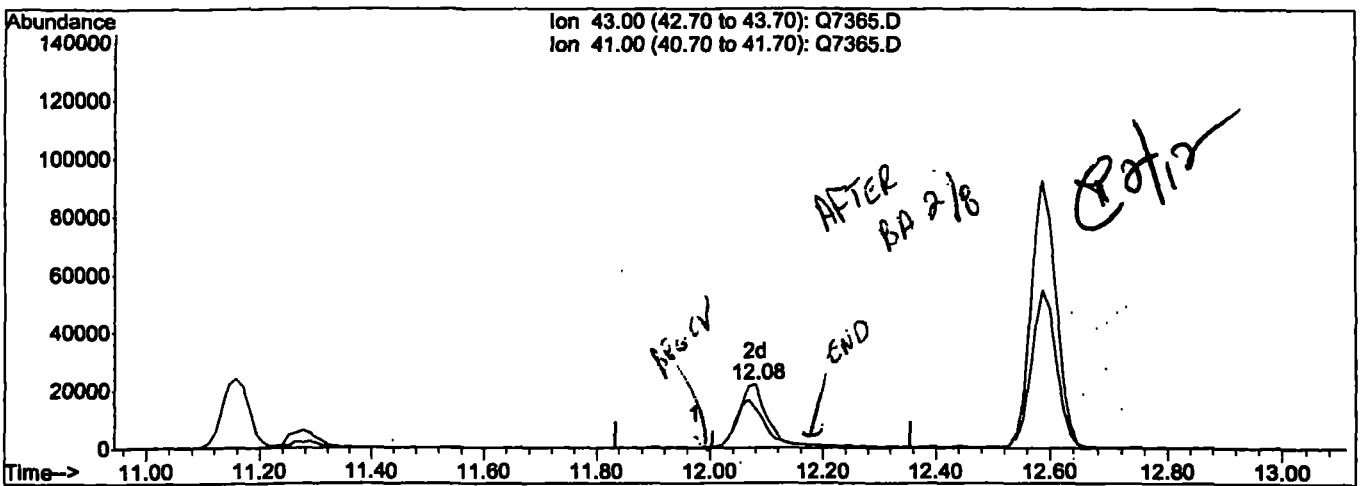
response 219

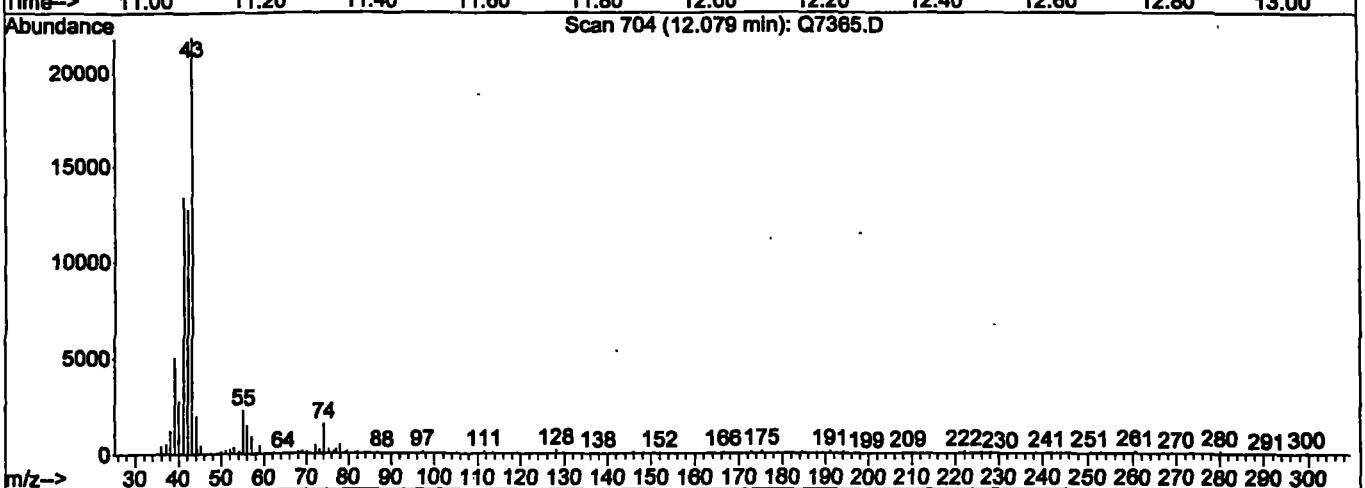
Ion	Exp%	Act%
43.00	100	100
41.00	76.70	69.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA6\DATA\020402\Q7365.D Vial: 6
Acq On : 4 Feb 2002 2:14 pm Operator: BALLGEIER
Sample : LCS Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 8 12:56 2002 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Multiple Level Calibration





TIC: Q7365.D

(40) Iso-Butyl Alcohol

12.08min 273.00ug/L m

response 77989

Ion	Exp%	Act%
43.00	100	100
41.00	76.70	61.21#
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Project Reference:
Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : **Order #:** 529692 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/05/02			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	33	UG/KG
BENZENE	5.0	20	UG/KG
BROMODICHLOROMETHANE	5.0	21	UG/KG
BROMOFORM	5.0	21	UG/KG
BROMOMETHANE	5.0	11	UG/KG
2-BUTANONE (MEK)	10	27	UG/KG
CARBON DISULFIDE	10	18	UG/KG
CARBON TETRACHLORIDE	5.0	20	UG/KG
CHLOROBENZENE	5.0	19	UG/KG
CHLOROETHANE	5.0	17	UG/KG
CHLOROFORM	5.0	20	UG/KG
CHLOROMETHANE	5.0	17	UG/KG
IBROMOCHLOROMETHANE	5.0	20	UG/KG
,1-DICHLOROETHANE	5.0	20	UG/KG
1,2-DICHLOROETHANE	5.0	21	UG/KG
1,1-DICHLOROETHENE	5.0	19	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	21	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	20	UG/KG
1,2-DICHLOROPROPANE	5.0	19	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	20	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	20	UG/KG
ETHYLBENZENE	5.0	19	UG/KG
2-HEXANONE	10	19	UG/KG
METHYLENE CHLORIDE	5.0	19	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	22	UG/KG
STYRENE	5.0	20	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	21	UG/KG
TETRACHLOROETHENE	5.0	21	UG/KG
TOLUENE	5.0	19	UG/KG
1,1,1-TRICHLOROETHANE	5.0	19	UG/KG
1,1,2-TRICHLOROETHANE	5.0	20	UG/KG
TRICHLOROETHENE	5.0	20	UG/KG
VINYL CHLORIDE	5.0	18	UG/KG
O-XYLENE	5.0	19	UG/KG
M+P-XYLENE	5.0	40	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
-BROMOFLUOROBENZENE	(42 - 149 %)	101	%
TOLUENE-D8	(71 - 128 %)	102	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	110	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9626.D
Acq On : 5 Feb 102 1:16 pm
Sample : LCS
Misc :
Quant Time: Feb 5 13:44 19102

Vial: 17
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

591612

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.37	168	755787	50.00	ug/Kg	-0.04
35) 1,4 - Difluorobenzene	8.55	114	1411499	50.00	ug/Kg	-0.04
52) d5 - Chlorobenzene	13.63	117	1125263	50.00	ug/Kg	-0.05
74) d4 - Dichlorobenzene	18.08	152	448232	50.00	ug/Kg	-0.05
System Monitoring Compounds						%Recovery
36) surr4,Dibrflmethane	7.24	113	371466	54.90	ug/Kg	109.81%
58) surr3,Toluene-d8	11.05	98	1316796	51.14	ug/Kg	102.29%
59) surr2,bfb	15.85	95	519418	50.51	ug/Kg	101.02%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.65	85	172177	17.29	ug/Kg	99
3) Chloromethane	1.86	50	279410	17.00	ug/Kg	100
4) Vinyl Chloride	1.99	62	185350	17.74	ug/Kg	96
5) Bromomethane	2.39	94	61859	11.18	ug/Kg	94
6) Chloroethane	2.53	64	111717	16.76	ug/Kg	99
7) Trichlorofluoromethane	2.88	101	207568	18.46	ug/Kg	100
8) Diethyl Ether	3.32	59	118758	22.23	ug/Kg	98
9) Acrolein	3.47	56	66181	101.40	ug/Kg	100
10) FREON 113	3.66	85	49781	24.74	ug/Kg	95
11) 1,1-Diclethene	3.63	96	115136	18.82	ug/Kg	95
12) Acetone	3.73	43	61945	32.81	ug/Kg	164% 97
13) Iodomethane	3.84	127	26894	13.39	ug/Kg	NT 85
14) Carbon Disulfide	3.94	76	442337	18.04	ug/Kg	100
15) Acetonitrile	4.14	41	94710	525.68	ug/Kg	95
16) Allyl Chloride	4.20	76	78115	20.67	ug/Kg	91
17) Methylene Chloride	4.39	84	159417	19.41	ug/Kg	90
18) TBA	4.64	59	413893	593.98	ug/Kg	100
19) Acrylonitrile	4.77	53	285775	123.67	ug/Kg	100
20) Methyl-t-Butyl Ether	4.86	73	392674	22.84	ug/Kg	100
21) trans-1,2-Dichloroethene	4.83	96	130225	20.26	ug/Kg	94
22) 1,1-Diclethane	5.50	63	249518	20.12	ug/Kg	100
23) Vinyl Acetate	5.63	43	290582	19.87	ug/Kg	98
24) 2-Chloro-1,3-butadiene	5.66	53	261889	20.11	ug/Kg	98
25) 2,2-Dichloropropane	6.45	77	185702	19.51	ug/Kg	97
26) 2-Butanone	6.49	43	104089	26.87	ug/Kg	100
28) cis-1,2-Dichloroethene	6.46	96	164704	20.74	ug/Kg	98
29) Propionitrile	6.55	54	131013	126.55	ug/Kg	98
30) Methacrylonitrile	6.81	67	64834	27.11	ug/Kg	NT 99
31) Bromochloromethane	6.83	128	80924	20.32	ug/Kg	92
32) Chloroform	6.99	83	229286	19.70	ug/Kg	98
33) Tetrahydrofuran	6.92	42	67449	24.62	ug/Kg	98
34) 1,1,1-Trichloroethane	7.26	97	194921	18.99	ug/Kg	97
37) Carbontetrachloride	7.55	117	164204	20.33	ug/Kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9626.D Vial: 17
Acq On : 5 Feb 102 1:16 pm Operator: DROOT
Sample : LCS Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Feb 5 13:44 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
38)	1,1-Dichloropropene	7.55	75	228798	18.98 ug/Kg	99
39)	Iso-Butyl Alcohol	8.40	43	268702	421.43 ug/Kg	98
40)	Benzene	7.87	78	707938	19.76 ug/Kg	97
41)	1,2-Dichloroethane	7.90	62	170238	21.47 ug/Kg	98
42)	N-Heptane	8.40	43	268702	21.10 ug/Kg	98
43)	Trichloroethene	8.97	95	183338	19.82 ug/Kg	98
44)	1,2-Diclpropane	9.32	63	196650	19.45 ug/Kg	98
45)	Methyl Methacrylate	9.59	69	135200	24.52 ug/Kg	98
46)	1,4-Dioxane	9.59	88	40510	467.85 ug/Kg	93
47)	Dibromomethane	9.52	93	98650	21.45 ug/Kg	95
48)	Bromodichloromethane	9.81	83	211143	21.45 ug/Kg	98
49)	2-Nitropropane	10.19	43	93162	40.10 ug/Kg	99
50)	2-Chloroethylvinyl Ether	10.36	63	83635	24.52 ug/Kg	95
51)	cis-1,3-Dichloropropene	10.59	75	295438	20.41 ug/Kg	99
53)	4-Methyl-2-Pentanone	10.88	43	230142	21.96 ug/Kg	100
54)	Toluene	11.17	91	647007	19.14 ug/Kg	96
55)	trans-1,3-Dichloropropene	11.56	75	261222	19.89 ug/Kg	100
56)	Ethyl Methacrylate	11.78	69	233412	23.43 ug/Kg	99
57)	1,1,2-Trichloroethane	11.88	83	137523	19.73 ug/Kg	99
60)	Tetrachloroethene	12.15	166	167680	20.69 ug/Kg	96
61)	2-Hexanone	12.36	43	140563	18.72 ug/Kg	96
62)	1,3-Dichloropropane	12.18	76	292464	19.15 ug/Kg	90
63)	Dibromochloromethane	12.58	129	174842	20.15 ug/Kg	96
64)	1,2-Dibromoethane	12.77	107	179891	20.53 ug/Kg	100
65)	Chlorobenzene	13.69	112	433351	19.37 ug/Kg	94
66)	1,1,1,2-Tetrachloroethane	13.84	131	158769	19.63 ug/Kg	97
67)	Ethylbenzene	13.92	91	700950	19.38 ug/Kg	98
68)	(m+p)Xylene	14.13	106	527497	39.73 ug/Kg	99
69)	o-Xylene	14.87	106	256087	19.37 ug/Kg	99
70)	Styrene	14.89	104	450107	19.79 ug/Kg	99
71)	Bromoform	15.22	173	114532	21.32 ug/Kg	98
72)	Isopropylbenzene	15.58	105	643231	18.74 ug/Kg	100
75)	1,1,2,2-Tetrachloroethane	16.14	83	211173	20.67 ug/Kg	96
76)	Trans-1,4-Dichloro-2-buten	16.25	53	54280	19.26 ug/Kg	92
77)	1,2,3-Trichloropropane	16.20	110	63692	22.21 ug/Kg	99
78)	n-Propylbenzene	16.37	91	764552	19.47 ug/Kg	98
79)	Bromobenzene	16.11	156	166341	20.36 ug/Kg	98
80)	1,3,5-Trimethylbenzene	16.71	105	482703	19.92 ug/Kg#	50
81)	2-Chlorotoluene	16.51	91	449763	19.19 ug/Kg	97
82)	4-Chlorotoluene	16.71	91	494618	19.09 ug/Kg	99
83)	tert-Butylbenzene	17.33	119	426306	19.33 ug/Kg	97
4)	1,2,4-Trimethylbenzene	17.43	105	463572	19.29 ug/Kg	95
85)	sec-Butylbenzene	17.77	105	667368	19.01 ug/Kg	99
86)	p-Isopropyltoluene	18.06	119	525018	19.38 ug/Kg#	60

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020502\B9626.D
Acq On : 5 Feb 102 1:16 pm
Sample : LCS
Misc :
Quant Time: Feb 5 13:44 19102

Vial: 17
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
87)	1,3-Dclbenz	17.95	146	276961	21.84 ug/Kg	100
88)	1,4-Dclbenz	18.12	146	277486	20.29 ug/Kg	97
89)	n-Butylbenzene	18.86	91	481967	18.78 ug/Kg	99
90)	1,2-Dclbenz	18.84	146	260735	20.66 ug/Kg	98
91)	1,2-Dibromo-3-chloropropan	20.36	157	33961	22.08 ug/Kg	91
92)	Nitrobenzene	20.76	77	10520	16.15 ug/Kg	98
93)	1,2,4-Tcbenzene	22.03	180	159678	21.24 ug/Kg	98
94)	Hexachlorobt	22.40	225	84211	19.20 ug/Kg	97
95)	Naphthalen	22.49	128	323010	19.71 ug/Kg	96
96)	1,2,3-Tclbenzene	22.98	180	142286	21.39 ug/Kg	96

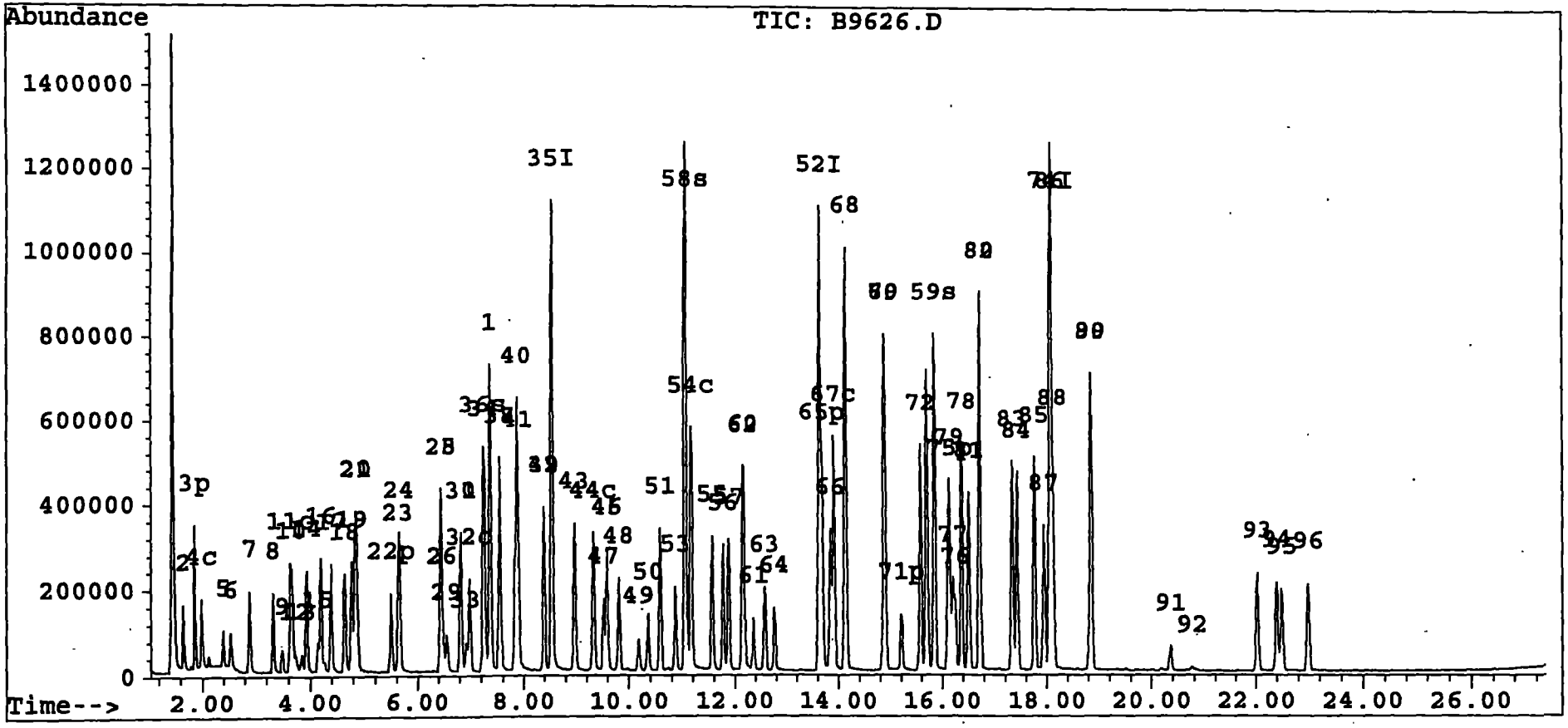
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data .e : J:\ACQUDATA\MSVOA3\DATA\020502\B962. ,
Acq On : 5 Feb 102 1:16 pm
Sample : LCS
Misc :
Quant Time: Feb 5 13:44 19102

Vial: 17
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Project Reference:
Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : **Order #:** 529688 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/05/02			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	20 U	UG/KG
BENZENE	5.0	20	UG/KG
BROMODICHLOROMETHANE	5.0	21	UG/KG
BROMOFORM	5.0	16	UG/KG
BROMOMETHANE	5.0	18	UG/KG
2-BUTANONE (MEK)	10	17	UG/KG
CARBON DISULFIDE	10	20	UG/KG
CARBON TETRACHLORIDE	5.0	20	UG/KG
CHLOROBENZENE	5.0	19	UG/KG
CHLOROETHANE	5.0	18	UG/KG
CHLOROFORM	5.0	21	UG/KG
CHLOROMETHANE	5.0	17	UG/KG
IBROMOCHLOROMETHANE	5.0	19	UG/KG
,1-DICHLOROETHANE	5.0	22	UG/KG
1,2-DICHLOROETHANE	5.0	22	UG/KG
1,1-DICHLOROETHENE	5.0	18	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	21	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	21	UG/KG
1,2-DICHLOROPROPANE	5.0	19	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	22	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	22	UG/KG
ETHYLBENZENE	5.0	20	UG/KG
2-HEXANONE	10	15	UG/KG
METHYLENE CHLORIDE	5.0	20	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	16	UG/KG
STYRENE	5.0	20	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	18	UG/KG
TETRACHLOROETHENE	5.0	16	UG/KG
TOLUENE	5.0	20	UG/KG
1,1,1-TRICHLOROETHANE	5.0	22	UG/KG
1,1,2-TRICHLOROETHANE	5.0	19	UG/KG
TRICHLOROETHENE	5.0	18	UG/KG
VINYL CHLORIDE	5.0	17	UG/KG
O-XYLENE	5.0	21	UG/KG
M+P-XYLENE	5.0	43	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(42 - 149 %)	113	%
TOLUENE-D8	(71 - 128 %)	106	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	102	%

Quantitation Report (Not Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020502\Q7390.D Vial: 31
Acq On : 5 Feb 2002 2:49 pm Operator: BALLGEIER
Sample : LCS Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 5 15:18 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

529688 1.0

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.57	168	950994	50.00 ug/L	0.01
34) 1,4-Difluorobenzene	12.93	114	1521887	50.00 ug/L	0.01
58) d5-Chlorobenzene	18.20	117	1319162	50.00 ug/L	0.00
74) 1,4-Dichlorobenzene-d4	22.52	152	680043	50.00 ug/L	0.00
System Monitoring Compounds					
35) surr4,Dibrflmethane	11.62	113	485485	50.91 ug/L	0.01
Spiked Amount 50.000			Recovery	= 101.82%	
52) SURR3,Toluene-d8	15.55	98	1580794	52.78 ug/L	0.00
Spiked Amount 50.000			Recovery	= 105.56%	
57) SURR2,BFB	20.34	95	709189	56.41 ug/L	0.00
Spiked Amount 50.000			Recovery	= 112.82%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.89	85	232875	18.88 ug/L	99
3) Chloromethane	4.33	50	299709	17.32 ug/L	98
4) Vinyl Chloride	4.59	62	165791	16.84 ug/L	97
5) Bromomethane	5.40	94	153381	17.82 ug/L	95
6) Chloroethane	5.62	64	145260	18.16 ug/L	99
7) Trichlorofluoromethane	6.19	101	307959	22.52 ug/L	99
8) Diethyl Ether	6.79	59	155907	21.69 ug/L	92
9) Acrolein	7.15	56	79707	62.63 ug/L	96
10) 1,1-Diclethene	7.32	96	145187	17.69 ug/L	97
11) Freon 113	7.27	101	178745	21.16 ug/L	91
12) Acetone	7.47	43	49933	19.26 ug/L	91
13) Iodomethane	7.69	142	251383	19.95 ug/L	93
14) Carbon Disulfide	7.83	76	614807	20.01 ug/L	98
16) Allyl Chloride	8.07	76	100365	22.36 ug/L	74
17) Methylene Chloride	8.34	84	193492	20.44 ug/L	83
18) TBA	8.51	59	220868	354.34 ug/L	95
19) Acrylonitrile	8.84	53	319800	92.29 ug/L	99
20) Methyl-t-Butyl Ether	8.78	73	417027	23.73 ug/L	99
21) trans-1,2-Dichloroethene	8.85	96	186873	20.72 ug/L	94
22) 1,1-Diclethane	9.68	63	377058	21.81 ug/L	95
23) Vinyl Acetate	9.69	43	280907	17.44 ug/L #	92
24) 2-Chloro-1,3-Butadiene	9.82	53	359916	24.05 ug/L	93
25) 2,2-Dichloropropane	10.72	77	267308	23.24 ug/L	97
26) cis-1,2-Dichloroethene	10.76	96	213667	21.18 ug/L	92
27) 2-Butanone	10.74	43	68147	16.95 ug/L	97
28) Propionitrile	10.92	54	112012	86.03 ug/L	100
29) Bromochloromethane	11.22	128	89706	18.76 ug/L	88

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020502\Q7390.D Vial: 31
Acq On : 5 Feb 2002 2:49 pm Operator: BALLGEIER
Sample : LCS Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 5 15:18 2002 Quant Results File: EXP0124.RES

Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
30)	Methacrylonitrile	11.17	67	59970	22.50 ug/L		74
31)	Tetrahydrofuran	11.28	42	46129	18.18 ug/L	#	85
32)	Chloroform	11.32	83	335517	21.49 ug/L		97
33)	1,1,1-Trichloroethane	11.64	97	272423	22.33 ug/L	#	98
36)	Carbontetrachloride	11.94	117	226144	20.45 ug/L		97
37)	1,1-Dichloropropene	11.92	110	90893	19.95 ug/L		93
38)	Benzene	12.32	78	730138	19.87 ug/L		96
39)	1,2-Dichloroethane	12.38	62	275315	21.97 ug/L		92
40)	Iso-Butyl Alcohol	12.08	43	96758	275.54 ug/L		99
41)	n-Heptane	12.60	43	340478	20.12 ug/L		100
42)	Trichloroethene	13.43	130	174953	18.34 ug/L		94
43)	1,2-Diclpropane	13.86	63	213976	18.93 ug/L	#	67
44)	Dibromomethane	14.12	93	112598	19.02 ug/L		91
45)	1,4-Dioxane	13.99	88	153	1.89 ug/L		96
46)	Methyl Methacrylate	13.93	69	78965	20.37 ug/L		86
47)	Bromodichloromethane	14.34	83	249843	21.24 ug/L		98
48)	2-Nitropropane	14.76	43	157292	34.51 ug/L	#	81
49)	2-Chloroethylvinyl Ether	14.77	63	98189	18.02 ug/L		92
50)	cis-1,3-Dichloropropene	15.10	75	295989	22.22 ug/L		97
51)	4-Methyl-2-pentanone	15.30	43	123128	15.53 ug/L		93
53)	Toluene	15.68	91	757228	20.38 ug/L		99
54)	trans-1,3-Dichloropropene	16.07	75	253396	22.36 ug/L		98
55)	Ethyl Methacrylate	16.09	69	166621	21.69 ug/L	#	77
56)	1,1,2-Trichloroethane	16.44	97	152075	19.44 ug/L		100
59)	Tetrachloroethene	16.66	164	142960	16.52 ug/L		94
60)	2-Hexanone	16.77	43	86964	15.30 ug/L	#	97
61)	1,3-Dichloropropane	16.73	76	254502	19.66 ug/L	#	96
62)	Dibromochloromethane	17.18	129	169280	18.72 ug/L		99
63)	1,2-Dibromoethane	17.42	107	150835	18.58 ug/L		98
64)	Chlorobenzene	18.25	112	507401	19.33 ug/L		94
65)	1,1,1,2-Tetrachloroethane	18.38	131	167542	19.48 ug/L		94
66)	Ethylbenzene	18.38	106	265870	20.20 ug/L		90
67)	(m+p)Xylene	18.58	106	676686	43.19 ug/L		91
68)	o-Xylene	19.33	106	332371	21.39 ug/L		97
69)	Styrene	19.36	104	527818	20.39 ug/L		99
70)	Bromoform	19.83	173	101338	16.55 ug/L		97
71)	Isopropylbenzene	19.97	105	799519	21.13 ug/L		98
73)	trans-1,4-Dichloro-2-Buten	20.68	53	66260	17.61 ug/L		97
75)	1,1,2,2-Tetrachloroethane	20.60	83	178404	18.32 ug/L		100
76)	Bromobenzene	20.67	156	207077	21.05 ug/L		92
77)	1,2,3-Trichloropropane	20.71	110	49477	21.69 ug/L		79

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : J:\ACQUDATA\MSVOA6\DATA\020502\Q7390.D Vial: 31
Acq On : 5 Feb 2002 2:49 pm Operator: BALLGEIER
Sample : LCS Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 5 15:18 2002 Quant Results File: EXP0124.RES

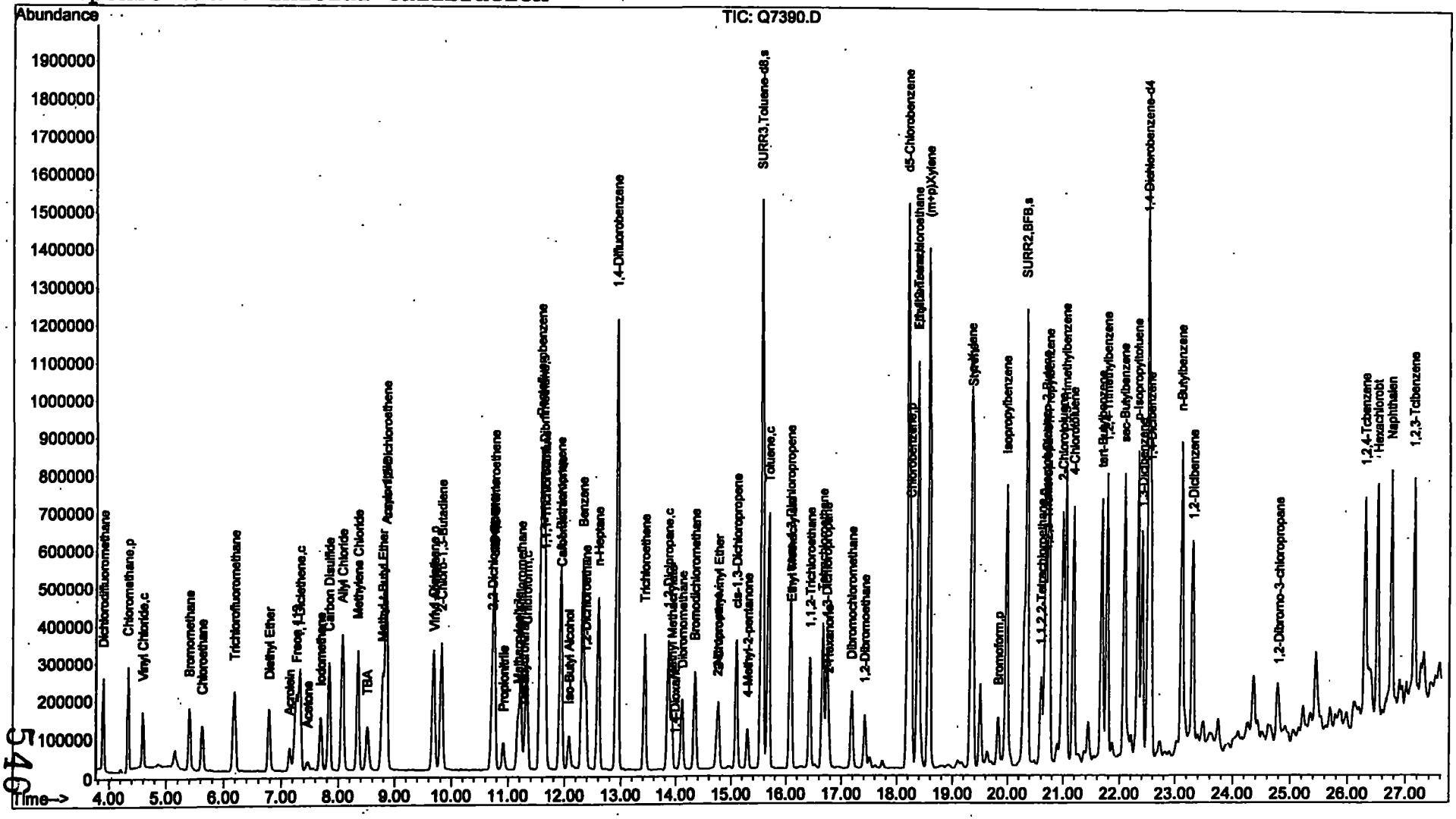
Quant Method : J:\ACQUDATA\M...\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration
DataAcq Meth : EXP0124

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
78)	n-Propylbenzene	20.74	91	1065352	22.01 ug/L	98
79)	2-Chlorotoluene	20.98	91	714398	22.78 ug/L	96
80)	4-Chlorotoluene	21.18	91	657554	22.89 ug/L	94
81)	1,3,5-Trimethylbenzene	21.04	105	695439	23.20 ug/L	96
82)	tert-Butylbenzene	21.68	119	561234	22.23 ug/L	98
83)	1,2,4-Trimethylbenzene	21.77	105	702629	23.24 ug/L	98
84)	sec-Butylbenzene	22.08	105	892454	21.85 ug/L	100
85)	p-Isopropyltoluene	22.33	119	719099	21.67 ug/L	100
86)	1,3-Diclbenzene	22.41	146	396357	21.73 ug/L	97
87)	1,4-Diclbenzene	22.56	146	410840	19.79 ug/L	95
88)	n-Butylbenzene	23.11	91	774259	22.08 ug/L	99
89)	1,2-Diclbenzene	23.31	146	377288	20.46 ug/L	98
90)	1,2-Dibromo-3-chloropropan	24.80	75	31868	20.40 ug/L	82
)2)	1,2,4-Tcbenzene	26.30	180	281665	20.73 ug/L	96
93)	Hexachlorobt	26.52	225	149599	18.85 ug/L	100
94)	Naphthalen	26.75	128	734324	29.27 ug/L	99
95)	1,2,3-Tclbenzene	27.14	180	262180	19.77 ug/L #	95

(#) = qualifier out of range (m) = manual integration

Data .e : J:\ACQUDATA\MSVOA6\DATA\020502\Q73) Vial: 31
Acq On : 5 Feb 2002 2:49 pm Operator: BALLGEIER
Sample : LCS Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Feb 5 15:18 2002 Quant Results File: EXP0124.RES

Method : J:\ACQUDATA\MSVOA6\METHODS\EXP0124.M (RTE Integrator)
Title : 8260B WATERS
Last Update : Mon Jan 28 09:26:27 2002
Response via : Initial Calibration



540

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Project Reference:
Client Sample ID : MATRIX SPIKE

Date Sampled : **Order #:** 529693 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 48.3

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/04/02			
ANALYTICAL DILUTION: 0.73			Dry Weight
ACETONE	20	660	UG/KG
BENZENE	5.0	31	UG/KG
BROMODICHLOROMETHANE	5.0	27	UG/KG
BROMOFORM	5.0	27	UG/KG
BROMOMETHANE	5.0	18	UG/KG
2-BUTANONE (MEK)	10	310	UG/KG
CARBON DISULFIDE	10	87	UG/KG
CARBON TETRACHLORIDE	5.0	31	UG/KG
CHLOROBENZENE	5.0	29	UG/KG
CHLOROETHANE	5.0	39	UG/KG
CHLOROFORM	5.0	52	UG/KG
CHLOROMETHANE	5.0	77	UG/KG
DIBROMOCHLOROMETHANE	5.0	29	UG/KG
1,1-DICHLOROETHANE	5.0	66	UG/KG
1,2-DICHLOROETHANE	5.0	52	UG/KG
1,1-DICHLOROETHENE	5.0	66	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	50	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	37	UG/KG
1,2-DICHLOROPROPANE	5.0	35	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	19	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	23	UG/KG
ETHYLBENZENE	5.0	910	UG/KG
2-HEXANONE	10	190	UG/KG
METHYLENE CHLORIDE	5.0	66	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	230	UG/KG
STYRENE	5.0	62	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	87	UG/KG
TETRACHLOROETHENE	5.0	25	UG/KG
TOLUENE	5.0	46	UG/KG
1,1,1-TRICHLOROETHANE	5.0	41	UG/KG
1,1,2-TRICHLOROETHANE	5.0	52	UG/KG
TRICHLOROETHENE	5.0	23	UG/KG
VINYL CHLORIDE	5.0	85	UG/KG
O-XYLENE	5.0	1400	UG/KG
M+P-XYLENE	5.0	3700	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
-BROMOFLUOROBENZENE	(42 - 149 %)	82	%
TOLUENE-D8	(71 - 128 %)	113	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	127	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9613.D Vial: 6
Acq On : 4 Feb 102 4:40 pm Operator: DROOT
Sample : 526209 0.73 MS Inst : 5971 - In
Misc : TTEM-KS R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 5 7:55 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M 529693
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.37	168	476730	50.00	ug/Kg	-0.05
35) 1,4 - Difluorobenzene	8.54	114	961461	50.00	ug/Kg	-0.06
52) d5 - Chlorobenzene	13.63	117	629434	50.00	ug/Kg	-0.06
74) d4 - Dichlorobenzene	18.07	152	144490	50.00	ug/Kg	-0.06
System Monitoring Compounds						%Recovery
36) surr4,Dibrflmethane	7.24	113	293466	63.68	ug/Kg	127.36%
58) surr3,Toluene-d8	11.05	98	816256	56.68	ug/Kg	113.35%
59) surr2,bfb	15.84	95	236393	41.10	ug/Kg	82.19%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.65	85	437539	69.68	ug/Kg	98
3) Chloromethane	1.85	50	527927	50.94	ug/Kg	99
4) Vinyl Chloride	1.98	62	370599	56.25	ug/Kg	97
5) Bromomethane	2.36	94	41122	11.78	ug/Kg	94
6) Chloroethane	2.50	64	111742	26.57	ug/Kg	99
7) Trichlorofluoromethane	2.87	101	385533	54.34	ug/Kgm	88
8) Diethyl Ether	3.31	59	176559	52.39	ug/Kg	99
9) Acrolein	3.49	56	3504	8.51	ug/Kgm	0
10) FREON 113	3.65	85	73139	57.63	ug/Kg	100
11) 1,1-Diclethene	3.61	96	167223	43.33	ug/Kg	98
12) Acetone	3.72	43	518177	435.18	ug/Kg	94
13) Iodomethane	3.83	127	45013	27.72	ug/Kg	87
14) Carbon Disulfide	3.92	76	883421	57.12	ug/Kg	99
15) Acetonitrile	4.14	41	142896	1257.40	ug/Kg	95
16) Allyl Chloride	4.20	76	45908	19.26	ug/Kg	87
17) Methylene Chloride	4.38	84	227359	43.88	ug/Kg	99
18) TBA	4.65	59	827639	1883.01	ug/Kg	99
19) Acrylonitrile	4.77	53	486605	333.85	ug/Kg	99
20) Methyl-t-Butyl Ether	4.86	73	592010	54.58	ug/Kg	98
21) trans-1,2-Dichloroethene	4.83	96	100163	24.70	ug/Kg	99
22) 1,1-Diclethane	5.49	63	340766	43.56	ug/Kg	97
25) 2,2-Dichloropropane	6.43	77	158187	26.35	ug/Kg	95
26) 2-Butanone	6.48	43	491761	201.22	ug/Kg	99
28) cis-1,2-Dichloroethene	6.45	96	162190	32.38	ug/Kg	100
29) Propionitrile	6.55	54	236872	362.72	ug/Kg	98
30) Methacrylonitrile	6.81	67	97203	64.45	ug/Kg	99
31) Bromochloromethane	6.82	128	98434	39.18	ug/Kg	95
32) Chloroform	6.98	83	252564	34.41	ug/Kg	98
33) Tetrahydrofuran	6.91	42	123263	82.12	ug/Kg	98
34) 1,1,1-Trichloroethane	7.26	97	174553	26.97	ug/Kg	96
37) Carbontetrachloride	7.54	117	111306	20.23	ug/Kg	97
38) 1,1-Dichloropropene	7.54	75	128259	15.62	ug/Kg	99
39) Iso-Butyl Alcohol	8.39	43	111997	257.87	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9613.D Vial: 6
Acq On : 4 Feb 102 4:40 pm Operator: DROOT
Sample : 526209 0.73 MS Inst : 5971 - In
Misc : TTEM-KS R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 5 7:55 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
40)	Benzene	7.87	78	517024	21.18	ug/Kg		100
41)	1,2-Dichloroethane	7.90	62	183218	33.92	ug/Kg		99
42)	N-Heptane	8.39	43	109387	12.61	ug/Kg		94
43)	Trichloroethene	8.97	95	95470	15.15	ug/Kg	30	97
44)	1,2-Diclpropane	9.31	63	161642	23.47	ug/Kg		99
45)	Methyl Methacrylate	9.58	69	177134	47.16	ug/Kg		99
46)	1,4-Dioxane	9.58	88	92970	1576.28	ug/Kg		90
47)	Dibromomethane	9.51	93	105708	33.74	ug/Kg		94
48)	Bromodichloromethane	9.81	83	120618	17.99	ug/Kg		98
49)	2-Nitropropane	10.18	43	159327	100.68	ug/Kg		95
50)	2-Chloroethylvinyl Ether	10.36	63	28576	12.30	ug/Kg		95
51)	cis-1,3-Dichloropropene	10.58	75	122499	12.42	ug/Kg		98
53)	4-Methyl-2-Pentanone	10.87	43	858371	146.43	ug/Kg		98
54)	Toluene	11.16	91	579030	30.62	ug/Kg		98
55)	trans-1,3-Dichloropropene	11.56	75	112175	15.27	ug/Kg		100
56)	Ethyl Methacrylate	11.77	69	218111	39.14	ug/Kg		98
57)	1,1,2-Trichloroethane	11.87	83	134906	34.60	ug/Kg		98
60)	Tetrachloroethene	12.14	166	76610	16.90	ug/Kg		98
61)	2-Hexanone	12.36	43	516412	122.95	ug/Kg		100
62)	1,3-Dichloropropane	12.17	76	248655	29.10	ug/Kg		99
63)	Dibromochloromethane	12.57	129	90219	18.59	ug/Kg		99
64)	1,2-Dibromoethane	12.76	107	150891	30.78	ug/Kg		99
65)	Chlorobenzene	13.68	112	243545	19.46	ug/Kg		97
66)	1,1,1,2-Tetrachloroethane	13.84	131	93909	20.76	ug/Kg		98
67)	Ethylbenzene	13.91	91	12245045	605.20	ug/Kg		94
68)	(m+p)Xylene	14.15	106	18025509	2427.06	ug/Kg#		47
69)	o-Xylene	14.87	106	7069595	956.06	ug/Kg		91
70)	Styrene	14.88	104	526914	41.43	ug/Kg#		1
71)	Bromoform	15.20	173	53860	17.92	ug/Kg		98
72)	Isopropylbenzene	15.57	105	577242	30.07	ug/Kg		100
75)	1,1,2,2-Tetrachloroethane	16.14	83	189475	57.53	ug/Kg		98
76)	Trans-1,4-Dichloro-2-buten	16.25	53	10062	11.07	ug/Kg		97
77)	1,2,3-Trichloropropane	16.20	110	63288	68.46	ug/Kg		99
78)	n-Propylbenzene	16.36	91	453021	35.78	ug/Kg		98
79)	Bromobenzene	16.11	156	83847	31.83	ug/Kg		95
80)	1,3,5-Trimethylbenzene	16.54	105	427342	54.70	ug/Kg		90
81)	2-Chlorotoluene	16.50	91	246035	32.56	ug/Kg		98
82)	4-Chlorotoluene	16.72	91	221995	26.58	ug/Kg		93
83)	tert-Butylbenzene	17.34	119	132218	18.60	ug/Kg		92
84)	1,2,4-Trimethylbenzene	17.42	105	323865	41.81	ug/Kg		100
85)	sec-Butylbenzene	17.76	105	184958	16.34	ug/Kg		100
86)	p-Isopropyltoluene	18.05	119	231596	26.52	ug/Kg#		64
87)	1,3-Dclbenz	17.94	146	103407	25.30	ug/Kg		98
88)	1,4-Dclbenz	18.11	146	107199	24.32	ug/Kg		99

(#) = qualifier out of range (m) = manual integration

549

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9613.D Vial: 6
Acq On : 4 Feb 102 4:40 pm Operator: DROOT
Sample : 526209 0.73 MS Inst : 5971 - In
Misc : TTEM-KS R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 5 7:55 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
89)	n-Butylbenzene	18.84	91	122907	14.85	ug/Kg	94
90)	1,2-Dclbenz	18.83	146	99680	24.50	ug/Kg	95
91)	1,2-Dibromo-3-chloropropan	20.35	157	25702	51.84	ug/Kg	93
92)	Nitrobenzene	20.95	77	3355	15.98	ug/Kg	88
93)	1,2,4-Tcbenzene	22.02	180	28185	11.63	ug/Kg	91
94)	Hexachlorobt	22.40	225	10870	7.69	ug/Kg#	87
95)	Naphthalen	22.49	128	94016	17.54	ug/Kg	100
96)	1,2,3-Tclbenzene	22.98	180	25472	11.88	ug/Kg	87

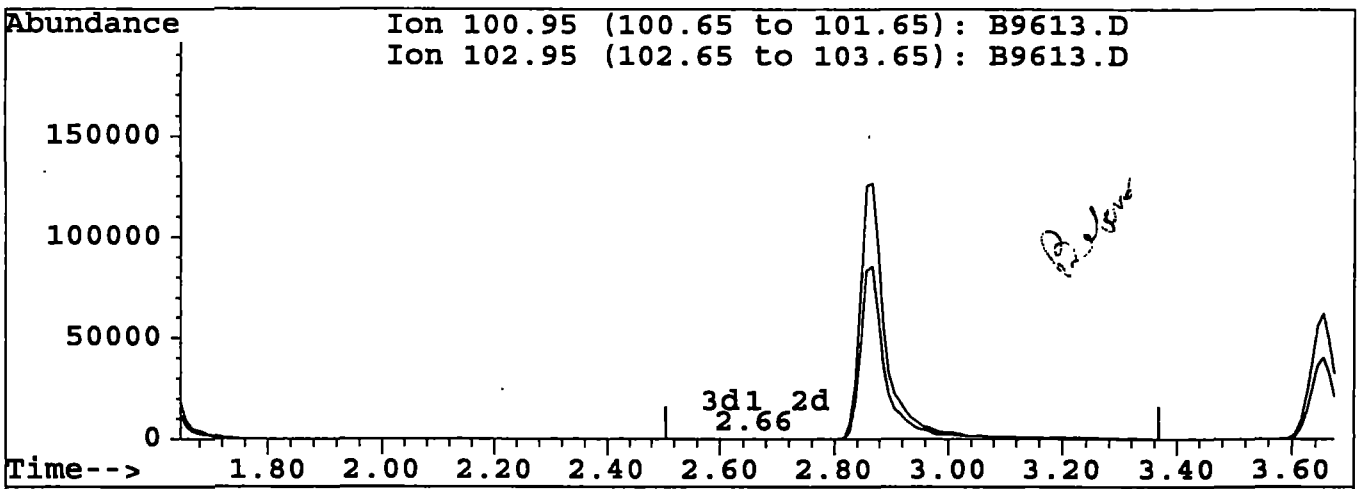
(#) = qualifier out of range (m) = manual integration

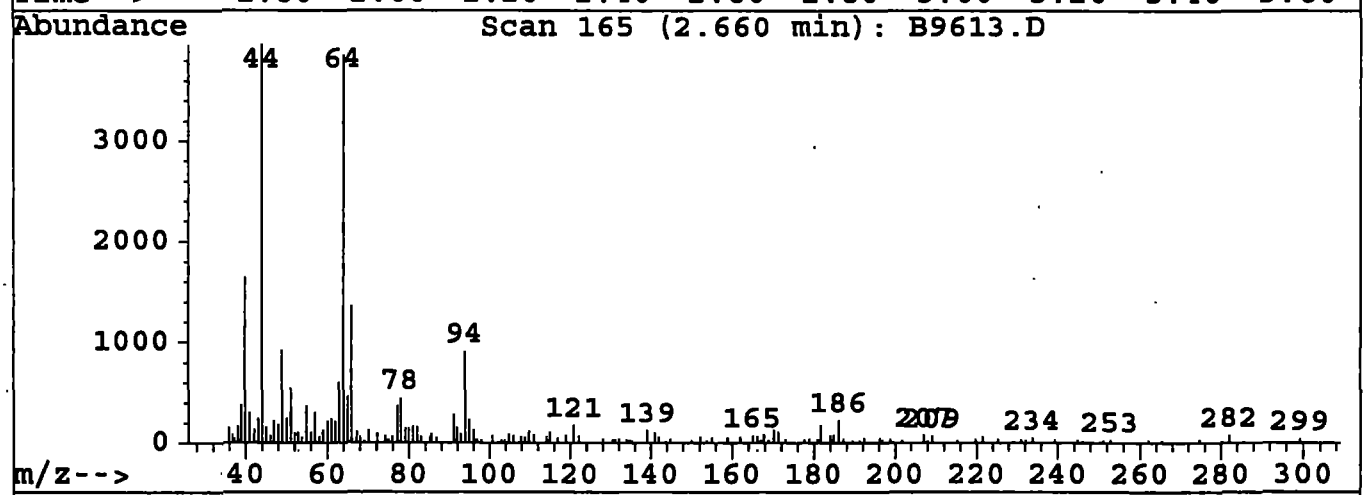
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9613.D
Acq On : 4 Feb 102 4:40 pm
Sample : 526209 0.73 MS
Misc : TTEM-KS R22-10416 8260B.TC5
Quant Time: Feb 4 17:08 19102

Vial: 6
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration





TIC: B9613.D

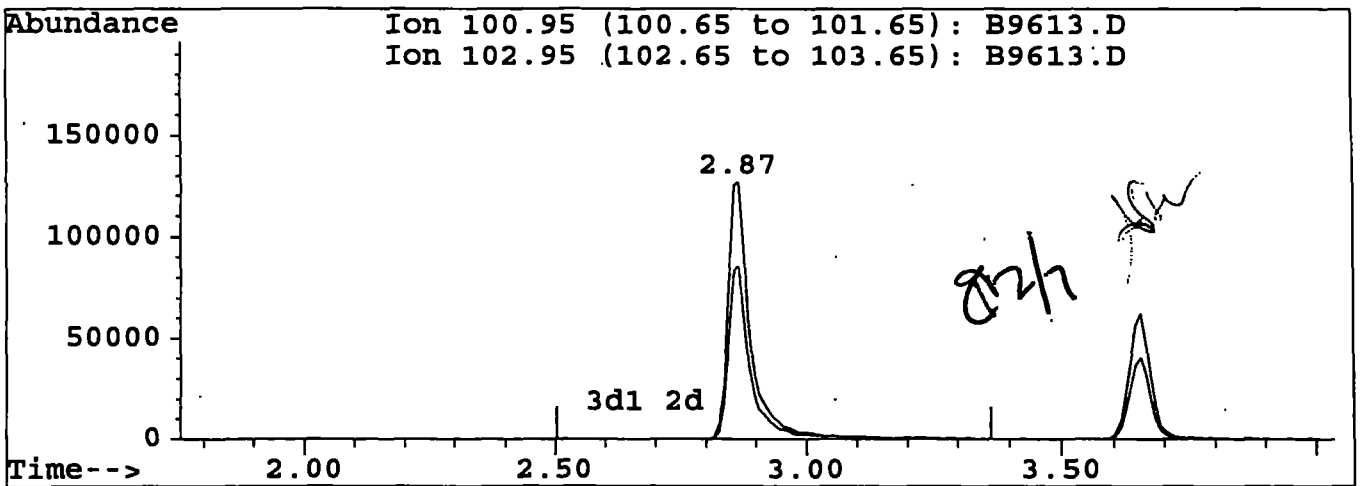
(7) Trichlorofluoromethane
2.66min 0.01ug/Kg
response 43

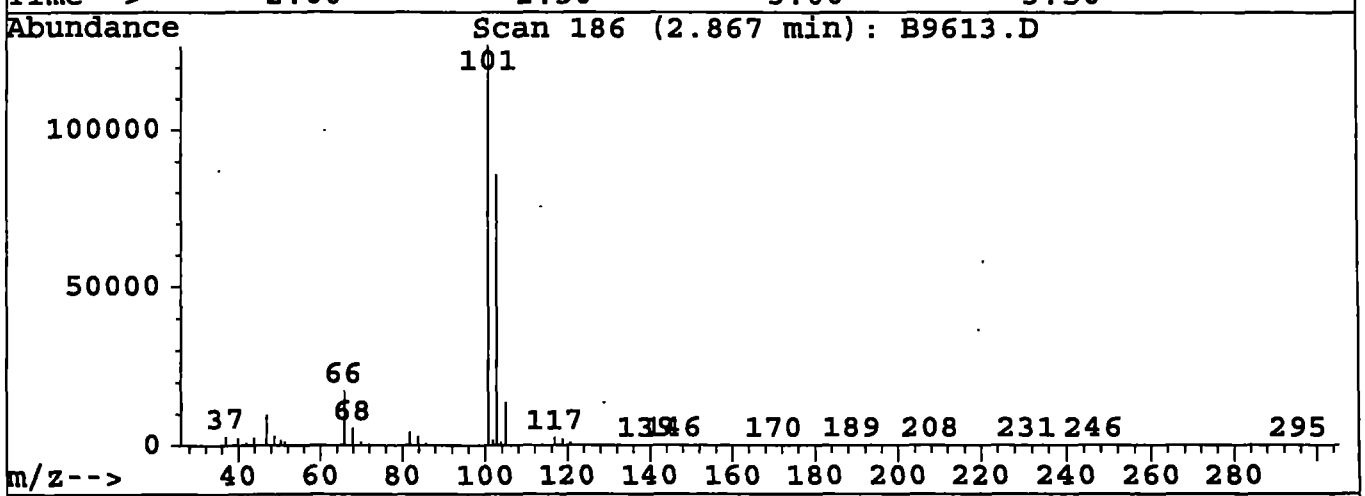
Ion	Exp%	Act%
100.95	100	100
102.95	65.90	75.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9613.D Vial: 6
Acq On : 4 Feb 102 4:40 pm Operator: DROOT
Sample : 526209 0.73 MS Inst : 5971 - In
Misc : TTEM-KS R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 5 7:54 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration





TIC: B9613.D

(7) Trichlorofluoromethane
2.87min 54.34ug/Kg m
response 385533

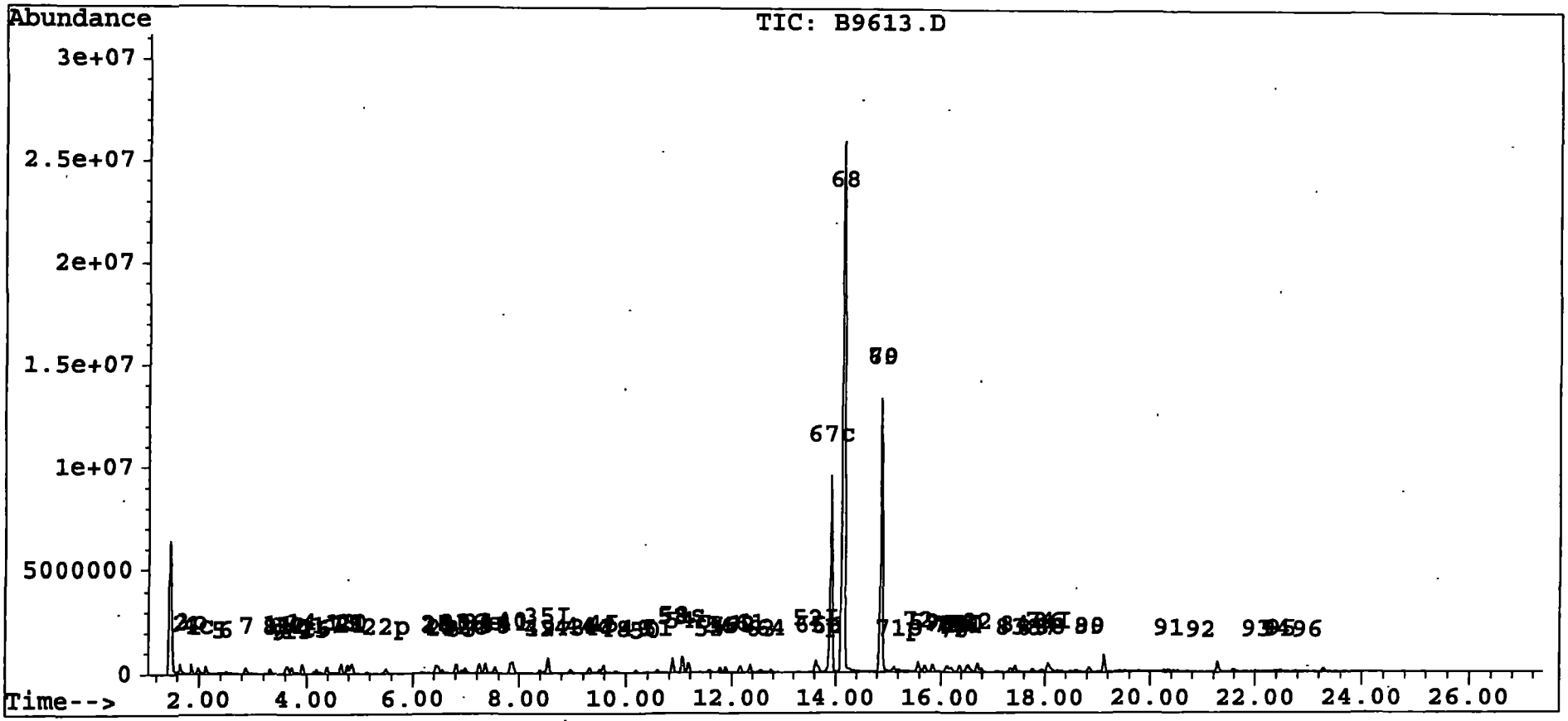
Ion	Exp%	Act%
100.95	100	100
102.95	65.90	67.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B961..D
Acq On : 4 Feb 102 4:40 pm
Sample : 526209 0.73 MS
Misc : TTEM-KS R22-10416 8260B.TC5
Quant Time: Feb 5 7:55 19102

Vial: 6
Operator: DROOT
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration



553

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Project Reference:
Client Sample ID : MATRIX SPIKE DUPLICATE

Date Sampled : **Order #:** 529694 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 48.3

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/04/02			
ANALYTICAL DILUTION: 0.67			Dry Weight
ACETONE	20	750	UG/KG
BENZENE	5.0	18	UG/KG
BROMODICHLOROMETHANE	5.0	13	UG/KG
BROMOFORM	5.0	19	UG/KG
BROMOMETHANE	5.0	8.1	UG/KG
2-BUTANONE (MEK)	10	430	UG/KG
CARBON DISULFIDE	10	25	UG/KG
CARBON TETRACHLORIDE	5.0	14	UG/KG
CHLOROBENZENE	5.0	23	UG/KG
CHLOROETHANE	5.0	23	UG/KG
CHLOROFORM	5.0	27	UG/KG
CHLOROMETHANE	5.0	50	UG/KG
DIBROMOCHLOROMETHANE	5.0	17	UG/KG
1,1-DICHLOROETHANE	5.0	31	UG/KG
1,2-DICHLOROETHANE	5.0	25	UG/KG
1,1-DICHLOROETHENE	5.0	29	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	25	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	17	UG/KG
1,2-DICHLOROPROPANE	5.0	20	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	11	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	13	UG/KG
ETHYLBENZENE	5.0	580	UG/KG
2-HEXANONE	10	200	UG/KG
METHYLENE CHLORIDE	5.0	39	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	230	UG/KG
STYRENE	5.0	48	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	62	UG/KG
TETRACHLOROETHENE	5.0	17	UG/KG
TOLUENE	5.0	35	UG/KG
1,1,1-TRICHLOROETHANE	5.0	21	UG/KG
1,1,2-TRICHLOROETHANE	5.0	29	UG/KG
TRICHLOROETHENE	5.0	16	UG/KG
VINYL CHLORIDE	5.0	50	UG/KG
O-XYLENE	5.0	970	UG/KG
M+P-XYLENE	5.0	2500	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	85	%
TOLUENE-D8	(71 - 128 %)	106	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	128 *	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9614.D Vial: 7
Acq On : 4 Feb 102 5:16 pm Operator: DROOT
Sample : 526209 0.67 MSD Inst : 5971 - In
Misc : TTEM-KS R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 5 7:56 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

529644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.36	168	405964	50.00	ug/Kg	-0.05
35) 1,4 - Difluorobenzene	8.54	114	876754	50.00	ug/Kg	-0.05
52) d5 - Chlorobenzene	13.63	117	616534	50.00	ug/Kg	-0.05
74) d4 - Dichlorobenzene	18.07	152	151723	50.00	ug/Kg	-0.06 *
System Monitoring Compounds						**%Recovery**
36) surr4,Dibrflmethane	7.24	113	269338	64.09	ug/Kg	128.18% *
58) surr3,Toluene-d8	11.05	98	750900	53.23	ug/Kg	106.46%
59) surr2,bfb	15.84	95	238921	42.40	ug/Kg	84.81%
Target Compounds						**Qvalue**
2) Dichlorodifluoromethane	1.64	85	329175	61.56	ug/Kgm	1
3) Chloromethane	1.86	50	322520	36.54	ug/Kg	99
4) Vinyl Chloride	1.98	62	198059	35.30	ug/Kg	99
5) Bromomethane	2.37	94	17352	5.84	ug/Kg	88
6) Chloroethane	2.50	64	58154	16.24	ug/Kg	95
7) Trichlorofluoromethane	2.86	101	186914	30.94	ug/Kgm	84
8) Diethyl Ether	3.31	59	122187	42.58	ug/Kg	99
10) FREON 113	3.65	85	27950	25.86	ug/Kg	99
11) 1,1-Diclethene	3.62	96	67012	20.39	ug/Kg	88
12) Acetone	3.72	43	543269	535.78	ug/Kg	98
13) Iodomethane	3.82	127	9815	10.62	ug/Kg	87
14) Carbon Disulfide	3.91	76	244426	18.56	ug/Kg	99
15) Acetonitrile	4.14	41	352779	3645.37	ug/Kg	94
16) Allyl Chloride	4.18	76	12612	6.21	ug/Kg#	1
17) Methylene Chloride	4.39	84	127030	28.79	ug/Kg	93
18) TBA	4.65	59	1489141	3978.61	ug/Kg	99
19) Acrylonitrile	4.77	53	619650	499.24	ug/Kg	97
20) Methyl-t-Butyl Ether	4.86	73	446785	48.37	ug/Kg	98
21) trans-1,2-Dichloroethene	4.82	96	41325	11.97	ug/Kg	97
22) 1,1-Diclethane	5.49	63	146636	22.01	ug/Kg	98
25) 2,2-Dichloropropane	6.43	77	69001	13.50	ug/Kg	90
26) 2-Butanone	6.48	43	645654	310.25	ug/Kg	98
28) cis-1,2-Dichloroethene	6.44	96	74975	17.58	ug/Kg	98
29) Propionitrile	6.55	54	359954	647.28	ug/Kg	98
30) Methacrylonitrile	6.81	67	111745	87.01	ug/Kg	95
31) Bromochloromethane	6.82	128	47354	22.13	ug/Kg	94
32) Chloroform	6.98	83	118970	19.03	ug/Kg	98
33) Tetrahydrofuran	6.92	42	156139	124.92	ug/Kg	98
34) 1,1,1-Trichloroethane	7.26	97	87187	15.82	ug/Kg	95
37) Carbontetrachloride	7.54	117	51689	10.30	ug/Kg	95
38) 1,1-Dichloropropene	7.54	75	76726	10.25	ug/Kg	94
39) Iso-Butyl Alcohol	8.39	43	44269	111.78	ug/Kg	91
40) Benzene	7.87	78	282430	12.69	ug/Kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9614.D Vial: 7
Acq On : 4 Feb 102 5:16 pm Operator: DROOT
Sample : 526209 0.67 MSD Inst : 5971 - In
Misc : TTEM-KS R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 5 7:56 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
41)	1,2-Dichloroethane	7.89	62	89442	18.16	ug/Kg	98
42)	N-Heptane	8.39	43	46697	5.90	ug/Kg#	81
43)	Trichloroethene	8.96	95	66514	11.58	ug/Kg	97
44)	1,2-Diclpropane	9.32	63	90022	14.34	ug/Kg	95
45)	Methyl Methacrylate	9.58	69	156007	45.54	ug/Kg	97
46)	1,4-Dioxane	9.58	88	141109	2623.60	ug/Kg	97
47)	Dibromomethane	9.51	93	52798	18.48	ug/Kg	95
48)	Bromodichloromethane	9.81	83	57963	9.48	ug/Kg	95
49)	2-Nitropropane	10.18	43	184140	127.60	ug/Kg	94
50)	2-Chloroethylvinyl Ether	10.35	63	8313	3.92	ug/Kg	95
51)	cis-1,3-Dichloropropene	10.59	75	68563	7.63	ug/Kg	95
53)	4-Methyl-2-Pentanone	10.87	43	942757	164.19	ug/Kg	99
54)	Toluene	11.16	91	460465	24.86	ug/Kg	99
55)	trans-1,3-Dichloropropene	11.56	75	69731	9.69	ug/Kg	94
56)	Ethyl Methacrylate	11.77	69	177617	32.54	ug/Kg	99
57)	1,1,2-Trichloroethane	11.88	83	81811	21.42	ug/Kg	98
60)	Tetrachloroethene	12.14	166	52981	11.93	ug/Kg	96
61)	2-Hexanone	12.35	43	607791	147.73	ug/Kg	98
62)	1,3-Dichloropropane	12.17	76	156099	18.65	ug/Kg	96
63)	Dibromochloromethane	12.58	129	56513	11.89	ug/Kg	99
64)	1,2-Dibromoethane	12.76	107	96728	20.15	ug/Kg	98
65)	Chlorobenzene	13.68	112	206540	16.85	ug/Kg	93
66)	1,1,1,2-Tetrachloroethane	13.84	131	72823	16.44	ug/Kg	95
67)	Ethylbenzene	13.90	91	8355597	421.61	ug/Kg	95
68)	(m+p)Xylene	14.13	106	12705531	1746.54	ug/Kg#	69
69)	o-Xylene	14.87	106	5082494	701.71	ug/Kg	94
70)	Styrene	14.88	104	425581	34.16	ug/Kg#	1
71)	Bromoform	15.20	173	41238	14.01	ug/Kg	97
72)	Isopropylbenzene	15.57	105	364582	19.39	ug/Kg	99
75)	1,1,2,2-Tetrachloroethane	16.13	83	153793	44.47	ug/Kg	100
76)	Trans-1,4-Dichloro-2-buten	16.24	53	8880	9.31	ug/Kg#	1
77)	1,2,3-Trichloropropane	16.20	110	51699	53.26	ug/Kg	96
78)	n-Propylbenzene	16.36	91	293536	22.08	ug/Kg	99
79)	Bromobenzene	16.11	156	73417	26.54	ug/Kg	97
80)	1,3,5-Trimethylbenzene	16.70	105	166944	20.35	ug/Kg#	59
81)	2-Chlorotoluene	16.50	91	179789	22.66	ug/Kg	94
82)	4-Chlorotoluene	16.71	91	178693	20.38	ug/Kg	96
83)	tert-Butylbenzene	17.33	119	84664	11.34	ug/Kg	85
84)	1,2,4-Trimethylbenzene	17.42	105	224602	27.61	ug/Kg	100
85)	sec-Butylbenzene	17.75	105	112000	9.42	ug/Kg	99
86)	p-Isopropyltoluene	18.05	119	140354	15.31	ug/Kg#	63
87)	1,3-Dclbenz	17.94	146	81122	18.90	ug/Kg#	88
88)	1,4-Dclbenz	18.12	146	87526	18.91	ug/Kg	99
89)	n-Butylbenzene	18.85	91	71078	8.18	ug/Kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9614.D Vial: 7
Acq On : 4 Feb 102 5:16 pm Operator: DROOT
Sample : 526209 0.67 MSD Inst : 5971 - In
Misc : TTEM-KS R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 5 7:56 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration

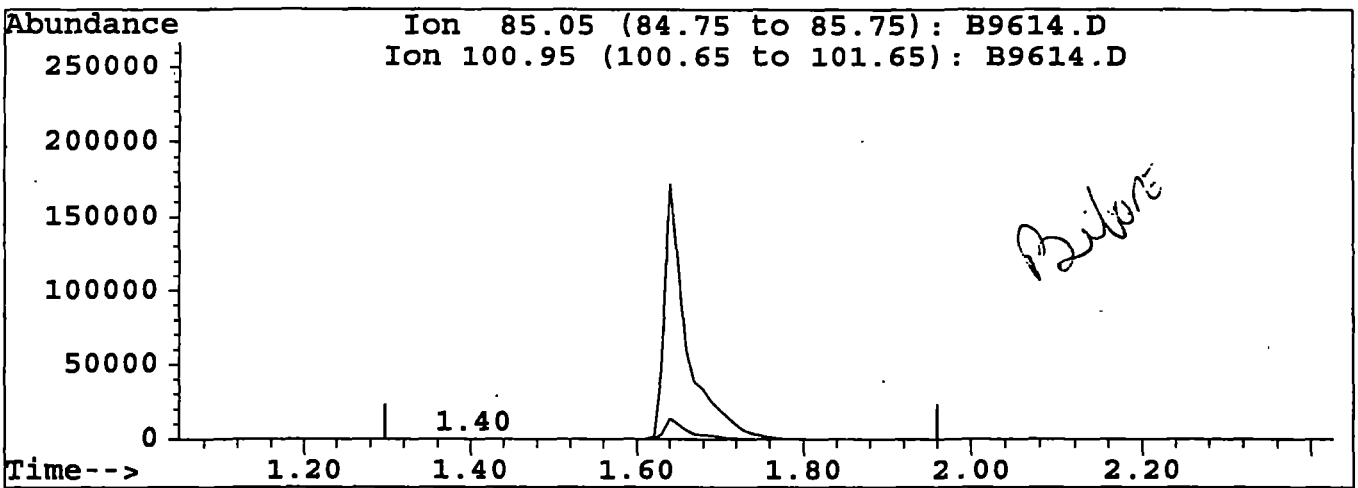
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
90) 1,2-Dclbenz	18.83	146	81128	18.99 ug/Kg	100
91) 1,2-Dibromo-3-chloropropan	20.35	157	24863	47.76 ug/Kg	95
92) Nitrobenzene	20.76	77	12875	58.41 ug/Kg	98
93) 1,2,4-Tcbenzene	22.02	180	22054	8.67 ug/Kg	89
94) Hexachlorobt	22.39	225	7589	5.11 ug/Kg#	84
95) Naphthalen	22.49	128	99608	17.72 ug/Kg	99
96) 1,2,3-Tclbenzene	22.98	180	20049	8.91 ug/Kg	97

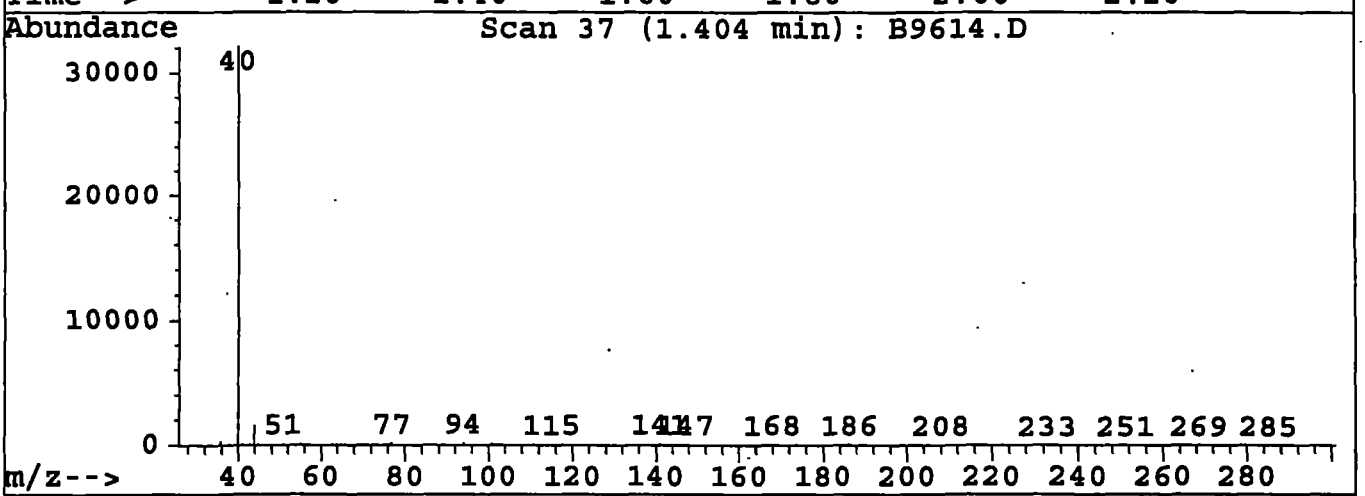
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9614.D Vial: 7
Acq On : 4 Feb 102 5:16 pm Operator: DROOT
Sample : 526209 0.67 MSD Inst : 5971 - In
Misc : TTEM-KS R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 4 17:44 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration





TIC: B9614.D

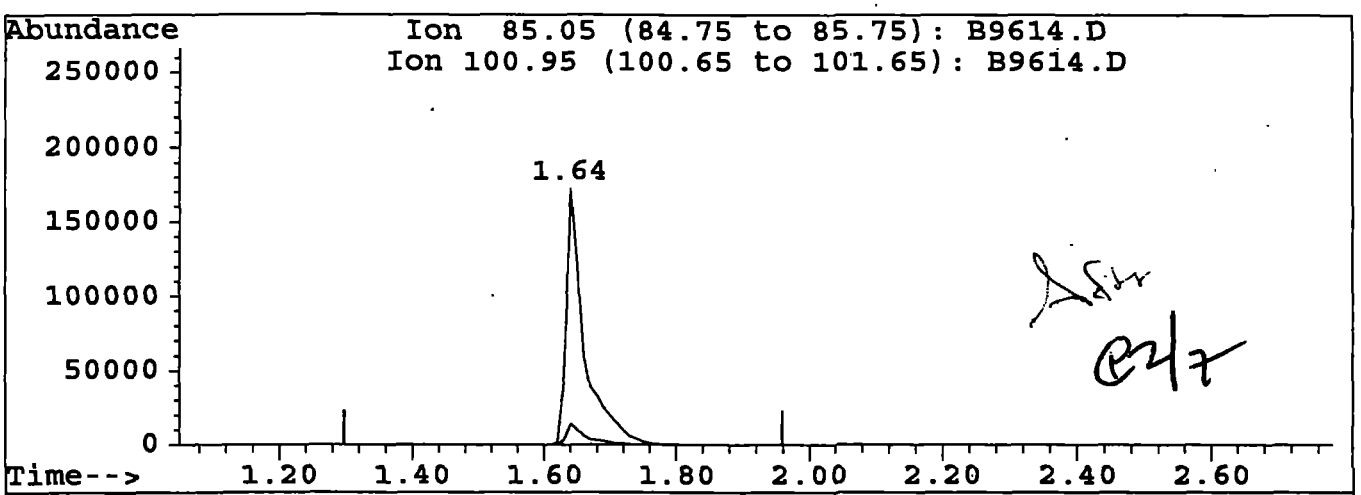
(2) Dichlorodifluoromethane
1.40min 0.05ug/Kg
response 283

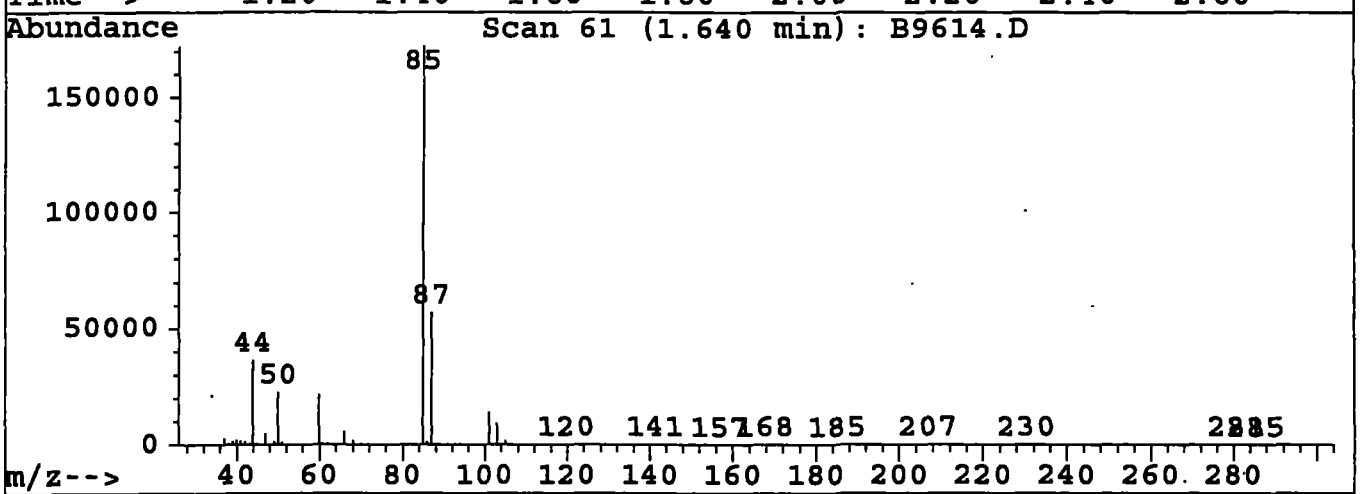
Ion	Exp%	Act%
85.05	100	100
100.95	8.10	89.47#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9614.D Vial: 7
Acq On : 4 Feb 102 5:16 pm Operator: DROOT
Sample : 526209 0.67 MSD Inst : 5971 - In
Misc : TTEM-KS R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 5 7:56 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration





TIC: B9614.D

(2) Dichlorodifluoromethane
1.64min 61.56ug/Kg m
response 329175

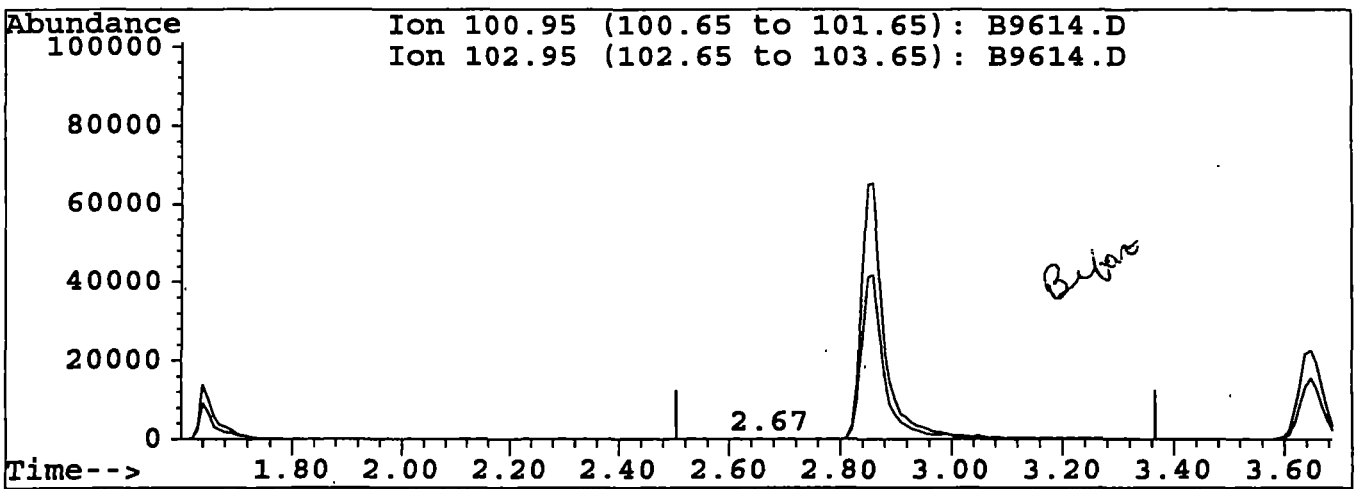
Ion	Exp%	Act%
85.05	100	100
100.95	8.10	8.11
0.00	0.00	0.00
0.00	0.00	0.00

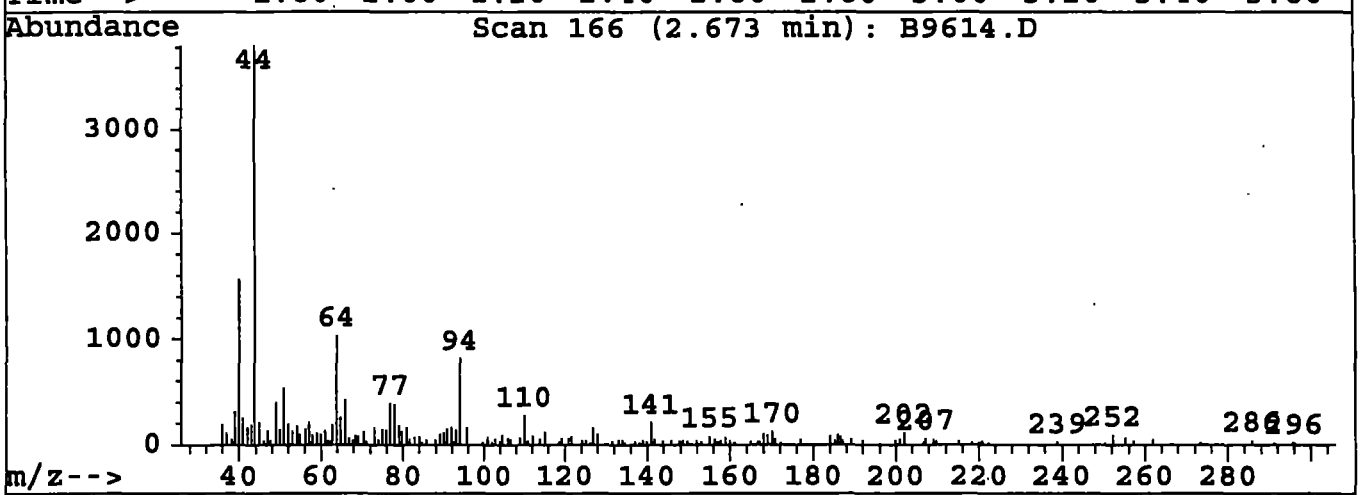
B9614.D SOL0201.M Tue Feb 05 07:56:43 2002

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9614.D Vial: 7
Acq On : 4 Feb 102 5:16 pm Operator: DROOT
Sample : 526209 0.67 MSD Inst : 5971 - In
Misc : TTEM-KS R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 5 7:56 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration





TIC: B9614.D

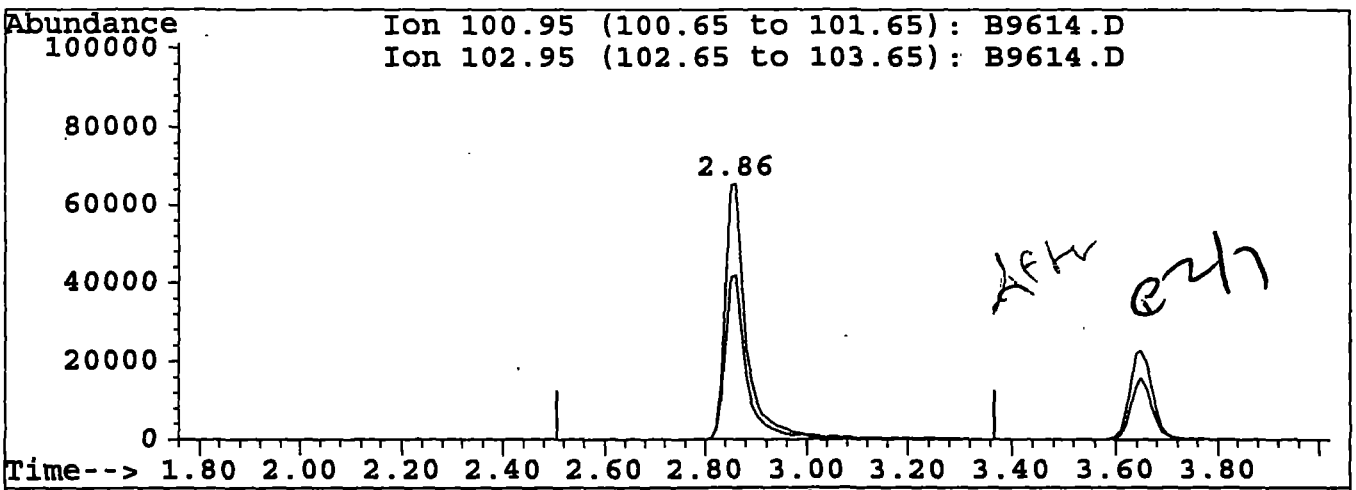
(7) Trichlorofluoromethane
2.67min 0.02ug/Kg
response 135

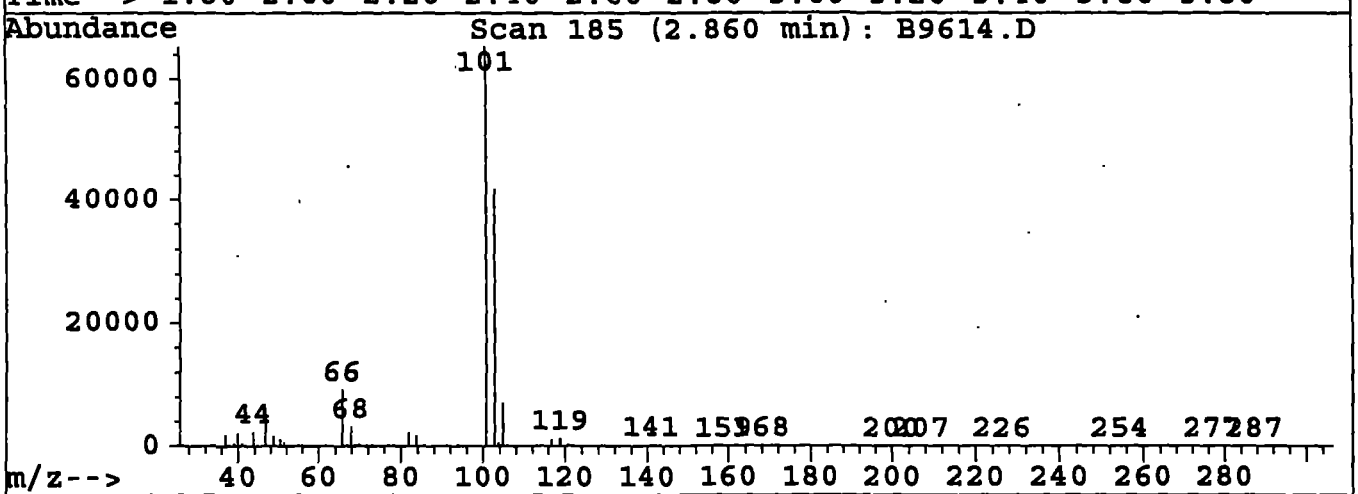
Ion	Exp%	Act%
100.95	100	100
102.95	65.90	78.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9614.D Vial: 7
Acq On : 4 Feb 102 5:16 pm Operator: DROOT
Sample : 526209 0.67 MSD Inst : 5971 - In
Misc : TTEM-KS R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 5 7:56 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration





TIC: B9614.D

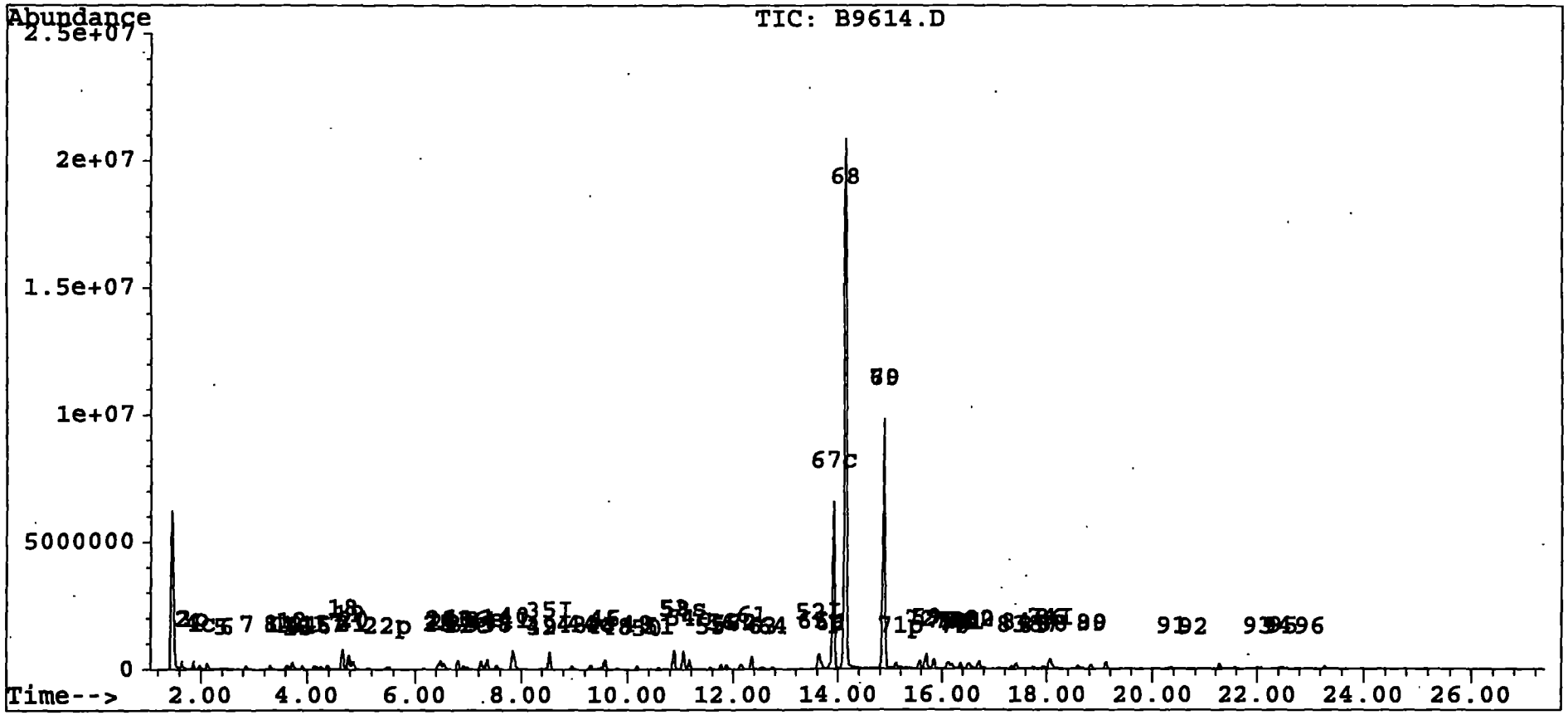
(7) Trichlorofluoromethane
2.86min 30.94ug/Kg m
response 186914

Ion	Exp%	Act%
100.95	100	100
102.95	65.90	63.97
0.00	0.00	0.00
0.00	0.00	0.00

B9614.D SOL0201.M Tue Feb 05 07:57:04 2002

Data File : J:\ACQUDATA\MSVOA3\DATA\020402\B9614. Vial: 7
Acq On : 4 Feb 102 5:16 pm Operator: DROOT
Sample : 526209 0.67 MSD Inst : 5971 - In
Misc : TTEM-KS R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 5 7:56 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Mon Feb 04 09:19:39 2002
Response via : Multiple Level Calibration



562

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Project Reference:
Client Sample ID : MATRIX SPIKE

Date Sampled : **Order #:** 529634 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 77.0

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/01/02			
ANALYTICAL DILUTION: 0.95			Dry Weight
ACETONE	20	14 J	UG/KG
BENZENE	5.0	52	UG/KG
BROMODICHLOROMETHANE	5.0	52	UG/KG
BROMOFORM	5.0	56	UG/KG
BROMOMETHANE	5.0	31	UG/KG
2-BUTANONE (MEK)	10	12 U	UG/KG
CARBON DISULFIDE	10	12 U	UG/KG
CARBON TETRACHLORIDE	5.0	57	UG/KG
CHLOROBENZENE	5.0	51	UG/KG
CHLOROETHANE	5.0	45	UG/KG
CHLOROFORM	5.0	56	UG/KG
[illegible]OROMETHANE	5.0	49	UG/KG
[illegible]BROMOCHLOROMETHANE	5.0	52	UG/KG
1,1-DICHLOROETHANE	5.0	62	UG/KG
1,2-DICHLOROETHANE	5.0	53	UG/KG
1,1-DICHLOROETHENE	5.0	58	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	58	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	60	UG/KG
1,2-DICHLOROPROPANE	5.0	48	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	49	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	52	UG/KG
ETHYLBENZENE	5.0	53	UG/KG
2-HEXANONE	10	12 U	UG/KG
METHYLENE CHLORIDE	5.0	55	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	12 U	UG/KG
STYRENE	5.0	51	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	53	UG/KG
TETRACHLOROETHENE	5.0	57	UG/KG
TOLUENE	5.0	55	UG/KG
1,1,1-TRICHLOROETHANE	5.0	52	UG/KG
1,1,2-TRICHLOROETHANE	5.0	51	UG/KG
TRICHLOROETHENE	5.0	51	UG/KG
VINYL CHLORIDE	5.0	55	UG/KG
O-XYLENE	5.0	51	UG/KG
M+P-XYLENE	5.0	110	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	103	%
TOLUENE-D8	(71 - 128 %)	106	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	109	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9567.D Vial: 21
Acq On : 1 Feb 102 9:17 pm Operator: TTRAVER
Sample : 526213 0.95MS 529634 Inst : 5971 - In
Misc : TTEM R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 2 9:44 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.35	168	791427	50.00	ug/Kg	-0.06
35) 1,4 - Difluorobenzene	8.53	114	1549954	50.00	ug/Kg	-0.06
52) d5 - Chlorobenzene	13.61	117	1169907	50.00	ug/Kg	-0.07
74) d4 - Dichlorobenzene	18.05	152	475099	50.00	ug/Kg	-0.08
System Monitoring Compounds						**%Recovery**
36) surr4,Dibrflmethane	7.22	113	406308	54.69	ug/Kg	109.38%
58) surr3,Toluene-d8	11.03	98	1422625	53.15	ug/Kg	106.29%
59) surr2,bfb	15.83	95	550838	51.52	ug/Kg	103.04%
Target Compounds						**Qvalue**
2) Dichlorodifluoromethane	1.64	85	469286	45.02	ug/Kgm F	1
3) Chloromethane	1.86	50	693341	40.30	ug/Kg	99
4) Vinyl Chloride	1.99	62	480039	43.89	ug/Kg	99
5) Bromomethane	2.37	94	143743	24.81	ug/Kg	98
6) Chloroethane	2.51	64	259481	37.17	ug/Kgm F	1
7) Trichlorofluoromethane	2.86	101	549553	46.66	ug/Kg	97
8) Diethyl Ether	3.31	59	248555	44.43	ug/Kg	98
10) FREON 113	3.65	85	120355	57.13	ug/Kg	90
11) 1,1-Diclethene	3.62	96	305941	47.75	ug/Kg	96
12) Acetone	3.73	43	22556	11.41	ug/Kg	91
13) Iodomethane	3.83	127	10022	7.86	ug/Kg	68
15) Acetonitrile	4.12	41	165521	877.34	ug/Kg	99
16) Allyl Chloride	4.18	76	188341	47.59	ug/Kg	93
17) Methylene Chloride	4.38	84	381317	44.33	ug/Kg	96
18) TBA	4.64	59	757486	1038.12	ug/Kg	99
19) Acrylonitrile	4.76	53	561218	231.94	ug/Kg	99
20) Methyl-t-Butyl Ether	4.85	73	814976	45.26	ug/Kg	99
21) trans-1,2-Dichloroethene	4.82	96	326061	48.44	ug/Kg	98
22) 1,1-Diclethane	5.49	63	663452	51.09	ug/Kg	99
25) 2,2-Dichloropropane	6.43	77	440572	44.21	ug/Kg	95
28) cis-1,2-Dichloroethene	6.44	96	397472	47.80	ug/Kg	97
29) Propionitrile	6.53	54	247884	228.65	ug/Kg	100
30) Methacrylonitrile	6.80	67	123211	49.21	ug/Kg	97
31) Bromochloromethane	6.81	128	179661	43.07	ug/Kg	98
32) Chloroform	6.97	83	557106	45.72	ug/Kg	99
33) Tetrahydrofuran	6.91	42	124698	47.82	ug/Kg	97
34) 1,1,1-Trichloroethane	7.25	97	453843	42.23	ug/Kg	98
37) Carbontetrachloride	7.53	117	406502	45.83	ug/Kg	99
38) 1,1-Dichloropropene	7.53	75	521769	39.42	ug/Kg	96
39) Iso-Butyl Alcohol	8.39	43	739467	1056.17	ug/Kg	99
40) Benzene	7.85	78	1655142	42.07	ug/Kg	98
41) 1,2-Dichloroethane	7.88	62	379088	43.54	ug/Kg	97
42) N-Heptane	8.39	43	748321	53.52	ug/Kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9567.D
Acq On : 1 Feb 102 9:17 pm
ample : 526213 0.95MS
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 9:44 19102

Vial: 21
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	Trichloroethene	8.96	95	422143	41.56	ug/Kg	99
44)	1,2-Diclpropane	9.31	63	434276	39.12	ug/Kg	97
45)	Methyl Methacrylate	9.57	69	304488	50.28	ug/Kg	97
46)	1,4-Dioxane	9.57	88	90419	950.96	ug/Kg	97
47)	Dibromomethane	9.50	93	224368	44.42	ug/Kg	98
48)	Bromodichloromethane	9.79	83	460523	42.61	ug/Kg	99
49)	2-Nitropropane	10.17	43	214391	84.04	ug/Kg	97
51)	cis-1,3-Dichloropropene	10.57	75	631234	39.71	ug/Kg	98
54)	Toluene	11.15	91	1565223	44.54	ug/Kg	100
55)	trans-1,3-Dichloropropene	11.54	75	570025	41.74	ug/Kg	100
56)	Ethyl Methacrylate	11.76	69	512926	49.52	ug/Kg	100
57)	1,1,2-Trichloroethane	11.86	83	299543	41.34	ug/Kg	97
60)	Tetrachloroethene	12.13	166	387009	45.93	ug/Kg	99
62)	1,3-Dichloropropane	12.16	76	631898	39.79	ug/Kg	98
3)	Dibromochloromethane	12.56	129	378816	42.00	ug/Kg	100
64)	1,2-Dibromoethane	12.75	107	400108	43.91	ug/Kg	99
65)	Chlorobenzene	13.66	112	965447	41.51	ug/Kg	97
66)	1,1,1,2-Tetrachloroethane	13.83	131	370648	44.08	ug/Kg	99
67)	Ethylbenzene	13.89	91	1620516	43.09	ug/Kg	98
68)	(m+p)Xylene	14.11	106	1189598	86.18	ug/Kg	99
69)	o-Xylene	14.85	106	567658	41.30	ug/Kg	98
70)	Styrene	14.87	104	974722	41.23	ug/Kg	99
71)	Bromoform	15.19	173	253976	45.46	ug/Kg	99
72)	Isopropylbenzene	15.56	105	1509372	42.30	ug/Kg	100
75)	1,1,2,2-Tetrachloroethane	16.12	83	470310	43.43	ug/Kg	99
76)	Trans-1,4-Dichloro-2-buten	16.23	53	134477	45.01	ug/Kg	92
77)	1,2,3-Trichloropropane	16.18	110	136257	44.83	ug/Kg	100
78)	n-Propylbenzene	16.35	91	1711613	41.12	ug/Kg	97
79)	Bromobenzene	16.09	156	361112	41.69	ug/Kg	96
80)	1,3,5-Trimethylbenzene	16.69	105	1089638	42.41	ug/Kg#	51
81)	2-Chlorotoluene	16.49	91	987320	39.74	ug/Kg	97
82)	4-Chlorotoluene	16.69	91	1073494	39.10	ug/Kg	99
83)	tert-Butylbenzene	17.31	119	996089	42.61	ug/Kg	100
84)	1,2,4-Trimethylbenzene	17.41	105	1019326	40.02	ug/Kg	97
85)	sec-Butylbenzene	17.75	105	1534318	41.23	ug/Kg	99
86)	p-Isopropyltoluene	17.31	119	996089	42.61	ug/Kg	100
87)	1,3-Dclbenz	17.92	146	577622	42.98	ug/Kg	99
88)	1,4-Dclbenz	18.10	146	560190	38.65	ug/Kg	98
89)	n-Butylbenzene	18.84	91	1086134	39.92	ug/Kg	98
90)	1,2-Dclbenz	18.82	146	539663	40.35	ug/Kg	98
91)	1,2-Dibromo-3-chloropropan	20.34	157	76177	46.73	ug/Kg	97
92)	Nitrobenzene	20.75	77	29161	42.25	ug/Kg	84
93)	1,2,4-Tcbenzene	22.00	180	318960	40.03	ug/Kg	100
94)	Hexachlorobt	22.37	225	191692	41.24	ug/Kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9567.D Vial: 21
Acq On : 1 Feb 102 9:17 pm Operator: TTRAVER
Sample : 526213 0.95MS Inst : 5971 - In
Misc : TTEM R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 2 9:44 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

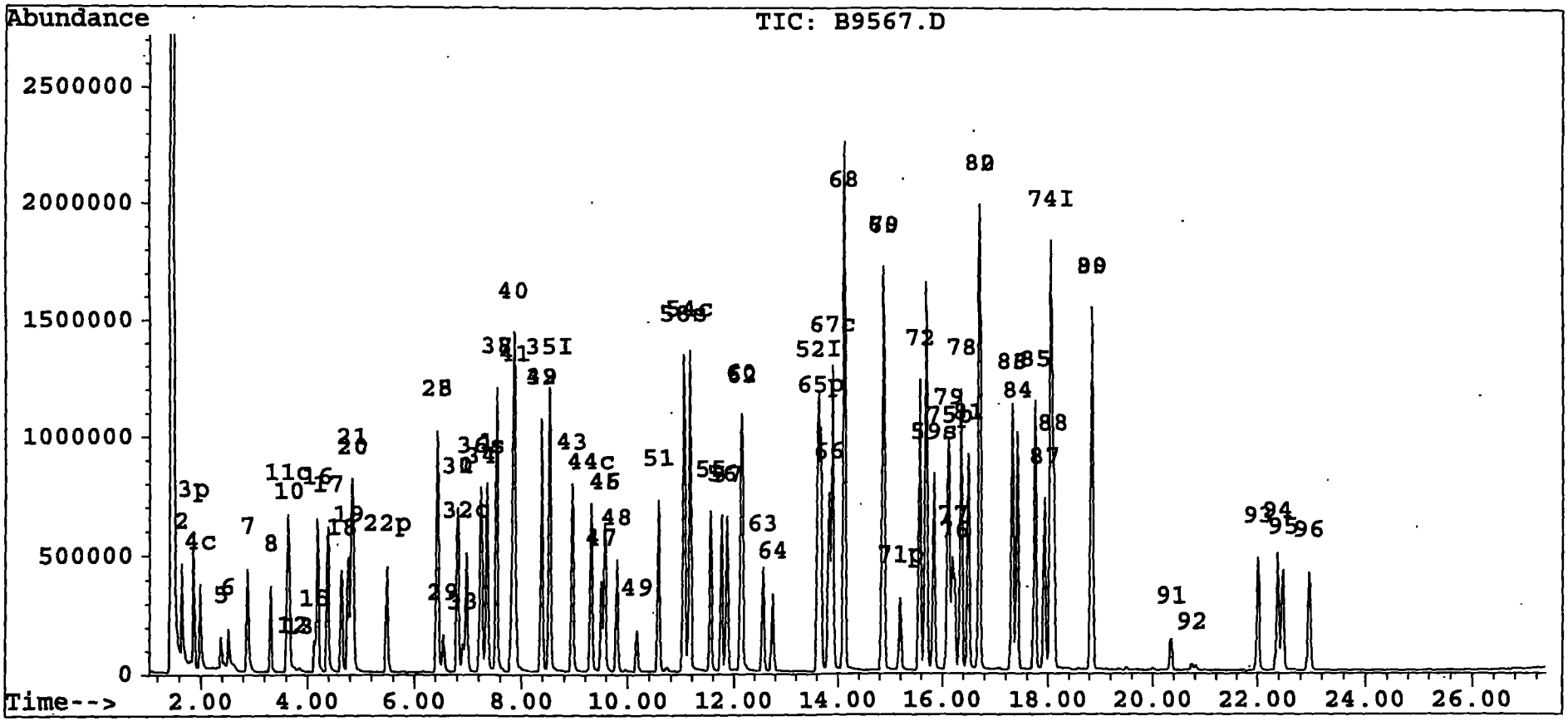
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95)	Naphthalen	22.47	128	710055	43.73 ug/Kg	98
96)	1,2,3-Tclbenzene	22.96	180	286571	40.65 ug/Kg	100

(#) = qualifier out of range (m) = manual integration

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9567.D
Acq On : 1 Feb 102 9:17 pm
Sample : 526213 0.95MS
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 9:44 19102

Vial: 21
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



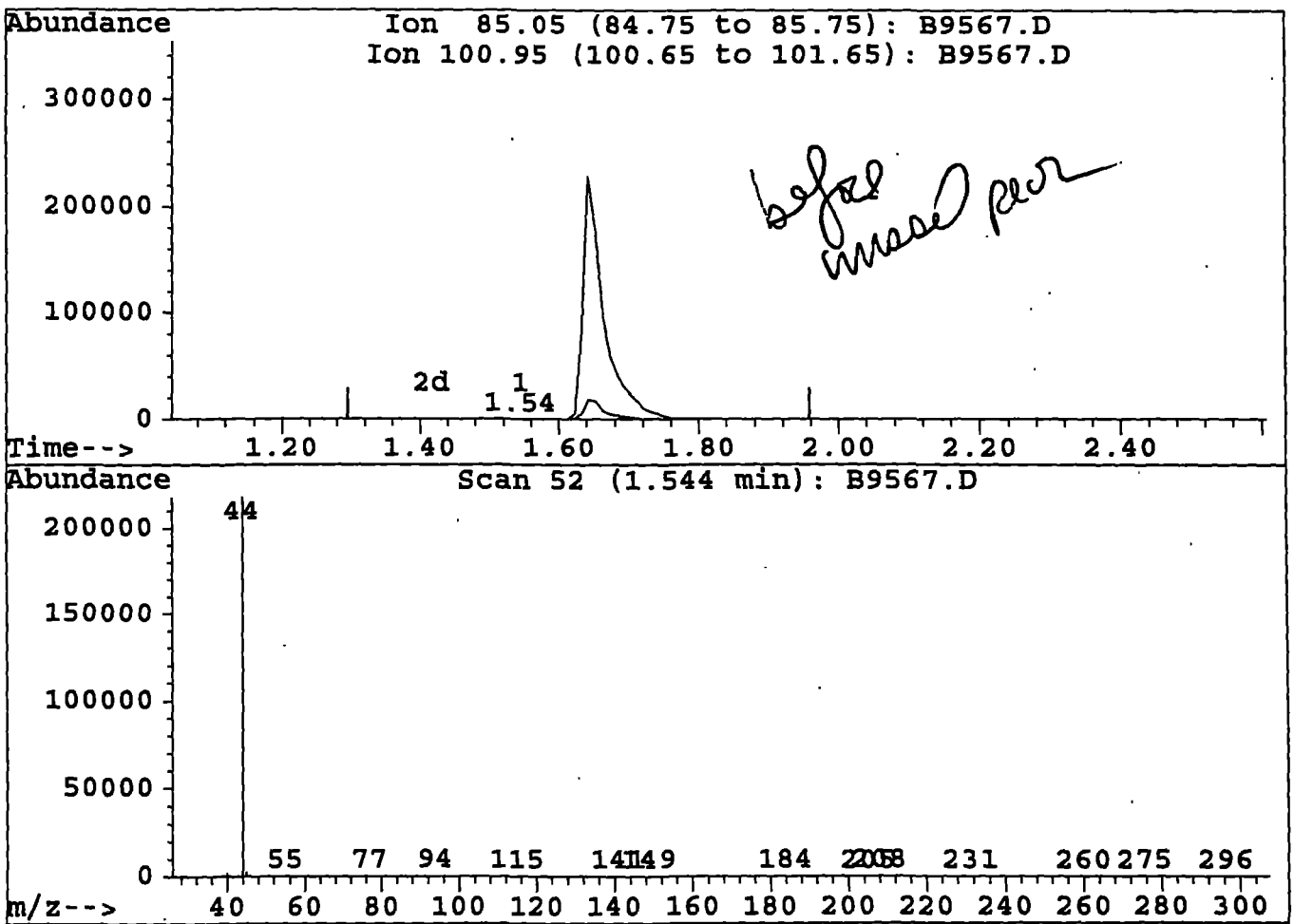
567

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9567.D
Acq On : 1 Feb 102 9:17 pm
Sample : 526213 0.95MS
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 1 21:45 19102

Vial: 21
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



before mass per

(2) Dichlorodifluoromethane
1.54min 0.02ug/Kg
response 165

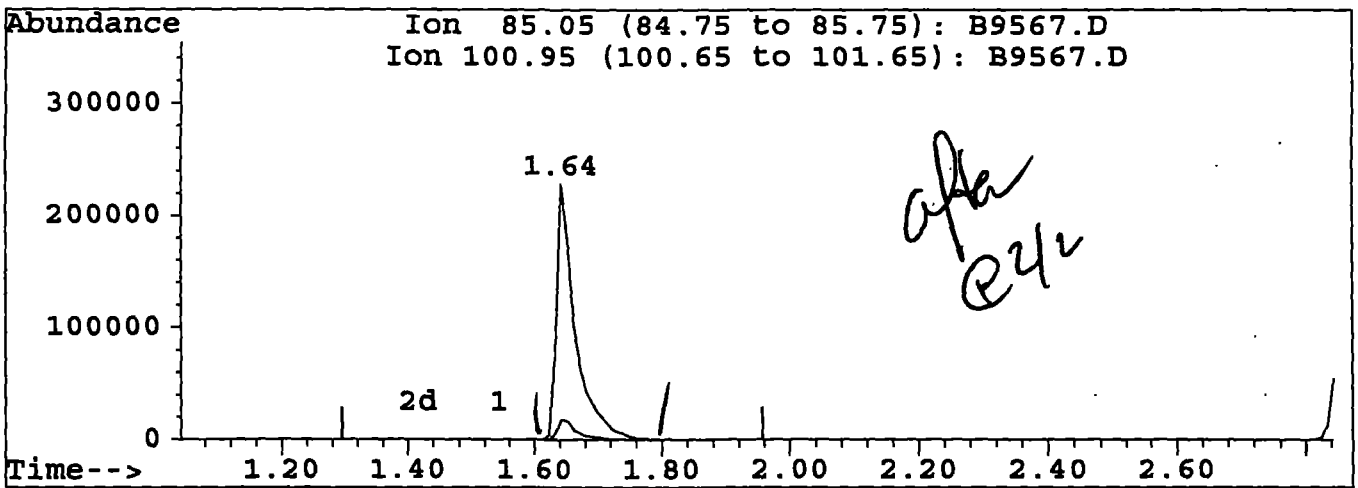
Ion	Exp%	Act%
85.05	100	100
100.95	8.10	62.86#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

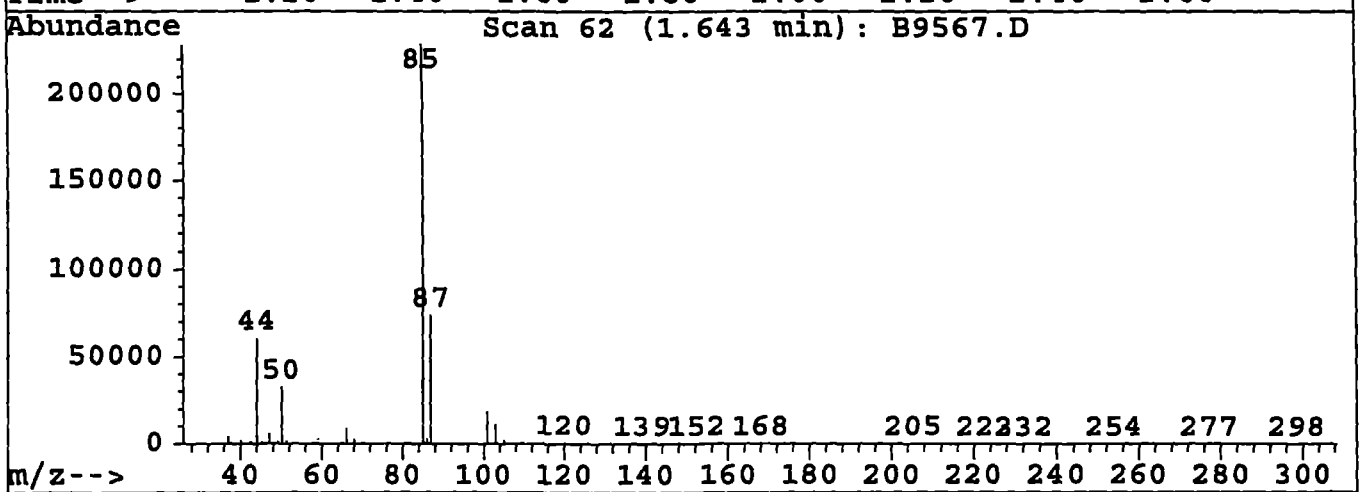
Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9567.D
Acq On : 1 Feb 102 9:17 pm
Sample : 526213 0.95MS
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 9:41 19102

Vial: 21
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



after R24



TIC: B9567.D

(2) Dichlorodifluoromethane
1.64min 45.02ug/Kg m
response 469286

Ion	Exp%	Act%
85.05	100	100
100.95	8.10	8.10
0.00	0.00	0.00
0.00	0.00	0.00

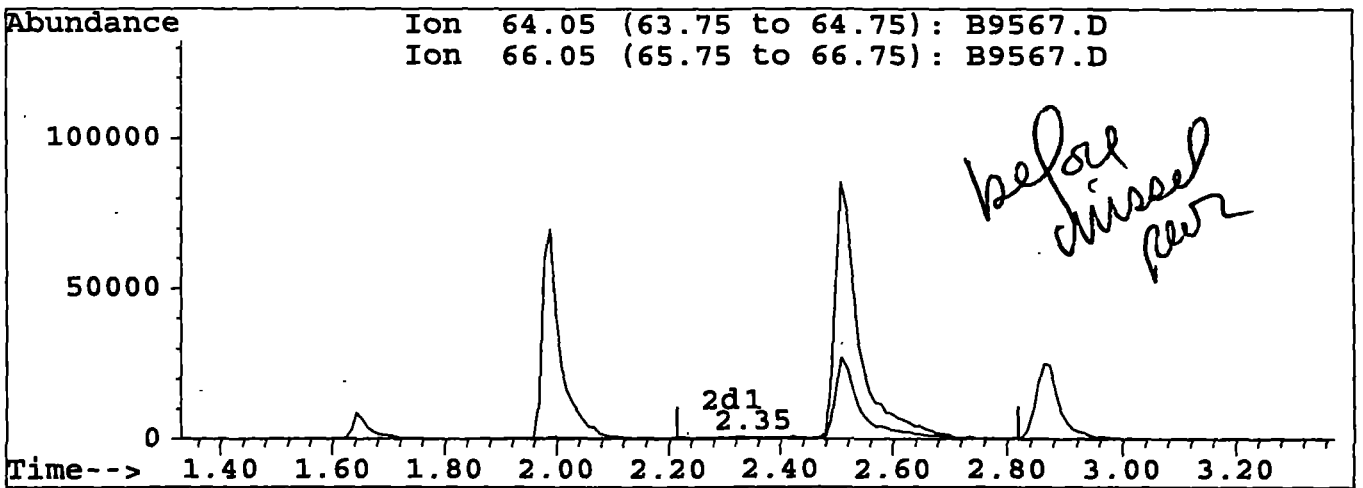
B9567.D SOL0201.M Sat Feb 02 09:41:17 2002

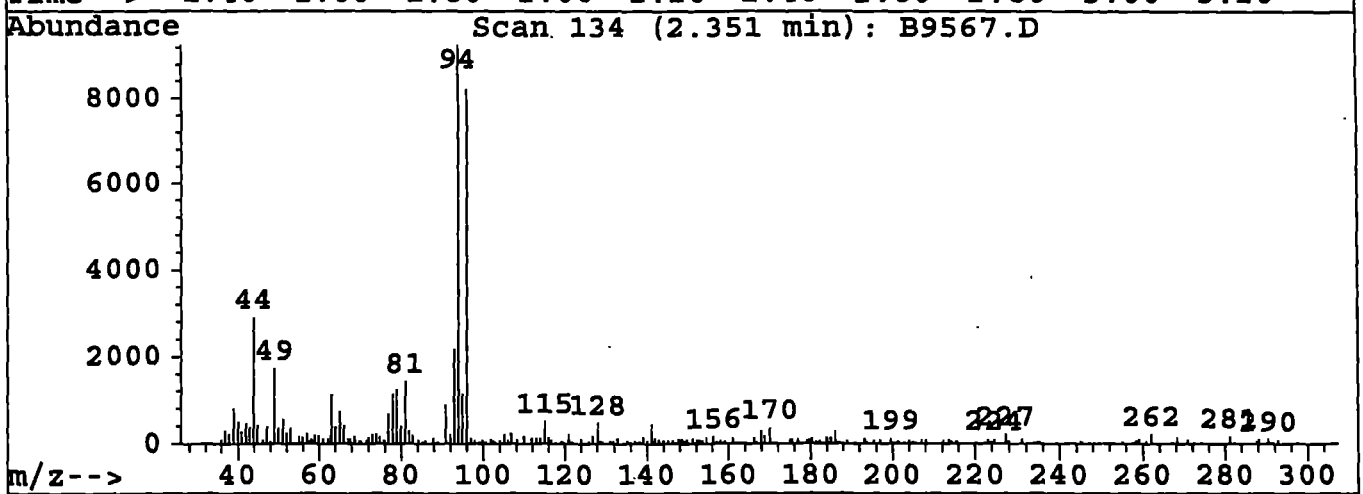
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9567.D
Acq On : 1 Feb 102 9:17 pm
Sample : 526213 0.95MS
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 9:41 19102

Vial: 21
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration





TIC: B9567.D

(6) Chloroethane
2.35min 0.02ug/Kg
response 122

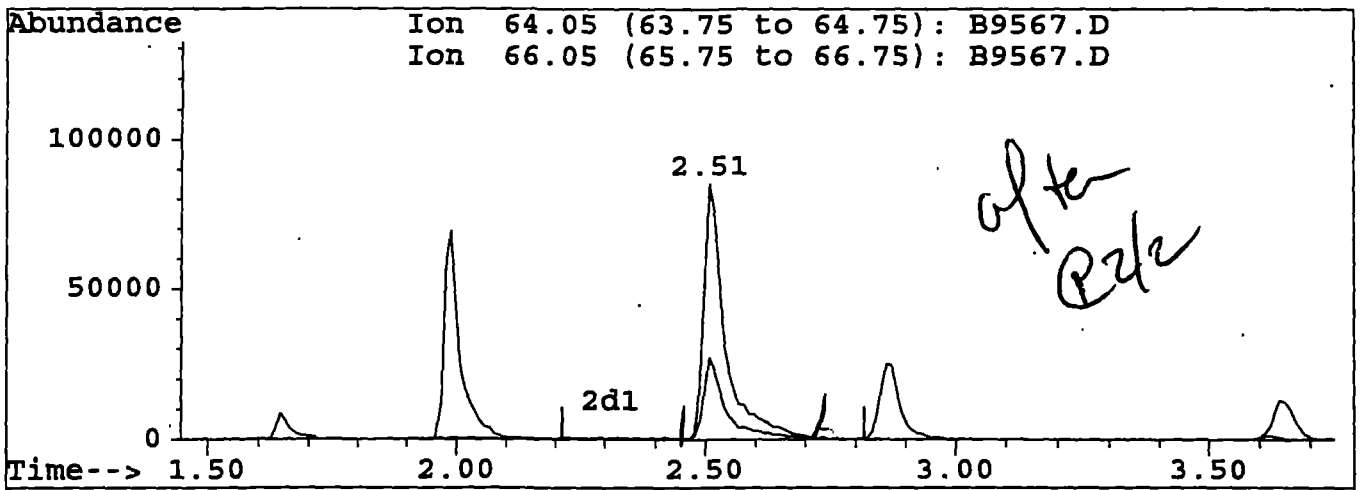
Ion	Exp%	Act%
64.05	100	100
66.05	31.90	105.06#
0.00	0.00	0.00
0.00	0.00	0.00

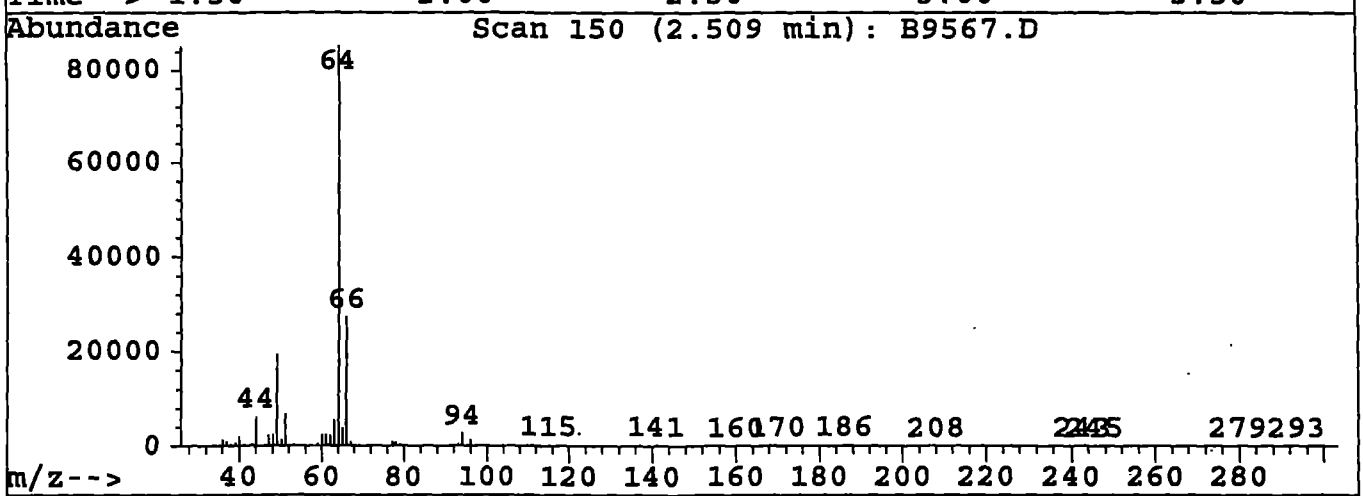
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9567.D
Acq On : 1 Feb 102 9:17 pm
Sample : 526213 0.95MS
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 9:41 19102

Vial: 21
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration





(6) Chloroethane
2.51min 37.17ug/Kg m
response 259481

Ion	Exp%	Act%
64.05	100	100
66.05	31.90	31.99
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/26/02

Project Reference:
Client Sample ID : MATRIX SPIKE DUPLICATE

Date Sampled : **Order #:** 529635 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 77.0

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/01/02			
ANALYTICAL DILUTION: 0.95			Dry Weight
ACETONE	20	17 J	UG/KG
BENZENE	5.0	53	UG/KG
BROMODICHLOROMETHANE	5.0	53	UG/KG
BROMOFORM	5.0	57	UG/KG
BROMOMETHANE	5.0	27	UG/KG
2-BUTANONE (MEK)	10	12 U	UG/KG
CARBON DISULFIDE	10	12 U	UG/KG
CARBON TETRACHLORIDE	5.0	57	UG/KG
CHLOROBENZENE	5.0	52	UG/KG
CHLOROETHANE	5.0	47	UG/KG
CHLOROFORM	5.0	58	UG/KG
LOROMETHANE	5.0	51	UG/KG
DIBROMOCHLOROMETHANE	5.0	53	UG/KG
1,1-DICHLOROETHANE	5.0	65	UG/KG
1,2-DICHLOROETHANE	5.0	55	UG/KG
1,1-DICHLOROETHENE	5.0	62	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	61	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	62	UG/KG
1,2-DICHLOROPROPANE	5.0	49	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	49	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	52	UG/KG
ETHYLBENZENE	5.0	55	UG/KG
2-HEXANONE	10	12 U	UG/KG
METHYLENE CHLORIDE	5.0	56	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	12 U	UG/KG
STYRENE	5.0	52	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	55	UG/KG
TETRACHLOROETHENE	5.0	60	UG/KG
TOLUENE	5.0	57	UG/KG
1,1,1-TRICHLOROETHANE	5.0	53	UG/KG
1,1,2-TRICHLOROETHANE	5.0	52	UG/KG
TRICHLOROETHENE	5.0	52	UG/KG
VINYL CHLORIDE	5.0	57	UG/KG
O-XYLENE	5.0	52	UG/KG
M+P-XYLENE	5.0	110	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(42 - 149 %)	102	%
TOLUENE-D8	(71 - 128 %)	107	%
DIBROMOFLUOROMETHANE	(70 - 127 %)	109	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9568.D Vial: 22
Acq On : 1 Feb 102 9:54 pm Operator: TTRAVER
ample : 526213 0.95MSD 529635 Inst : 5971 - In
Misc : TTEM R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 2 9:46 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.34	168	827346	50.00	ug/Kg	-0.07
35) 1,4 - Difluorobenzene	8.52	114	1603769	50.00	ug/Kg	-0.07
52) d5 - Chlorobenzene	13.61	117	1209681	50.00	ug/Kg	-0.07
74) d4 - Dichlorobenzene	18.05	152	485731	50.00	ug/Kg	-0.08
System Monitoring Compounds						**%Recovery**
36) surr4,Dibrflmethane	7.22	113	419670	54.59	ug/Kg	109.18%
58) surr3,Toluene-d8	11.03	98	1486069	53.69	ug/Kg	107.38%
59) surr2,bfb	15.83	95	565623	51.16	ug/Kg	102.33%
Target Compounds						**Qvalue**
2) Dichlorodifluoromethane	1.64	85	508498	46.66	ug/Kg	100
3) Chloromethane	1.85	50	736728	40.96	ug/Kg	100
4) Vinyl Chloride	1.99	62	527439	46.13	ug/Kg	98
5) Bromomethane	2.36	94	133240	21.99	ug/Kg	99
6) Chloroethane	2.51	64	276981	37.95	ug/Kgm	1
7) Trichlorofluoromethane	2.86	101	580031	47.11	ug/Kg	98
8) Diethyl Ether	3.30	59	274607	46.95	ug/Kg	97
10) FREON 113	3.64	85	127907	58.08	ug/Kg	92
11) 1,1-Diclethene	3.61	96	336481	50.24	ug/Kg	99
12) Acetone	3.72	43	27669	13.39	ug/Kg	95
13) Iodomethane	3.83	127	10318	7.82	ug/Kg	93
15) Acetonitrile	4.12	41	199113	1009.58	ug/Kg	98
16) Allyl Chloride	4.18	76	206537	49.93	ug/Kg	86
17) Methylene Chloride	4.37	84	410428	45.64	ug/Kg	98
18) TBA	4.64	59	863639	1132.21	ug/Kg	99
19) Acrylonitrile	4.75	53	615615	243.37	ug/Kg	99
20) Methyl-t-Butyl Ether	4.85	73	865313	45.97	ug/Kg	100
21) trans-1,2-Dichloroethene	4.81	96	355614	50.53	ug/Kg	99
22) 1,1-Diclethane	5.48	63	707809	52.14	ug/Kg	99
25) 2,2-Dichloropropane	6.42	77	472801	45.39	ug/Kg	98
28) cis-1,2-Dichloroethene	6.43	96	430365	49.51	ug/Kg	98
29) Propionitrile	6.53	54	272951	240.84	ug/Kg	100
30) Methacrylonitrile	6.79	67	136915	52.31	ug/Kg	98
31) Bromochloromethane	6.81	128	198975	45.63	ug/Kg	98
32) Chloroform	6.97	83	601027	47.18	ug/Kg	100
33) Tetrahydrofuran	6.90	42	135043	49.75	ug/Kg	99
34) 1,1,1-Trichloroethane	7.24	97	486823	43.34	ug/Kg	98
37) Carbontetrachloride	7.52	117	420445	45.81	ug/Kg	99
38) 1,1-Dichloropropene	7.53	75	540497	39.46	ug/Kg	97
39) Iso-Butyl Alcohol	8.38	43	799447	1103.52	ug/Kg	100
40) Benzene	7.85	78	1741723	42.78	ug/Kg	99
41) 1,2-Dichloroethane	7.88	62	402643	44.69	ug/Kg	99
42) N-Heptane	8.38	43	802480	55.47	ug/Kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9568.D Vial: 22
Acq On : 1 Feb 102 9:54 pm Operator: TTRAVER
Sample : 526213 0.95MSD Inst : 5971 - In
Misc : TTEM R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 2 9:46 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	Trichloroethene	8.95	95	443922	42.24	ug/Kg	100
44)	1,2-Diclpropane	9.30	63	457649	39.84	ug/Kg	98
45)	Methyl Methacrylate	9.57	69	316571	50.52	ug/Kg	99
46)	1,4-Dioxane	9.56	88	96632	982.20	ug/Kg	85
47)	Dibromomethane	9.50	93	244372	46.76	ug/Kg	98
48)	Bromodichloromethane	9.79	83	485279	43.39	ug/Kg	99
49)	2-Nitropropane	10.17	43	227301	86.11	ug/Kg	95
51)	cis-1,3-Dichloropropene	10.56	75	660012	40.13	ug/Kg	98
54)	Toluene	11.15	91	1668544	45.92	ug/Kg	98
55)	trans-1,3-Dichloropropene	11.55	75	600697	42.54	ug/Kg	98
56)	Ethyl Methacrylate	11.75	69	549638	51.32	ug/Kg	100
57)	1,1,2-Trichloroethane	11.86	83	315926	42.17	ug/Kg	98
60)	Tetrachloroethene	12.13	166	423019	48.55	ug/Kg	97
62)	1,3-Dichloropropane	12.16	76	669563	40.77	ug/Kg	98
63)	Dibromochloromethane	12.55	129	406803	43.62	ug/Kg	96
64)	1,2-Dibromoethane	12.74	107	422289	44.82	ug/Kg	100
65)	Chlorobenzene	13.66	112	1013997	42.17	ug/Kg	97
66)	1,1,1,2-Tetrachloroethane	13.82	131	399325	45.93	ug/Kg	99
67)	Ethylbenzene	13.89	91	1739609	44.74	ug/Kg	98
68)	(m+p)Xylene	14.11	106	1253700	87.83	ug/Kg	100
69)	o-Xylene	14.84	106	604570	42.54	ug/Kg	99
70)	Styrene	14.87	104	1038766	42.49	ug/Kg	97
71)	Bromoform	15.19	173	267324	46.28	ug/Kg	98
72)	Isopropylbenzene	15.55	105	1585157	42.96	ug/Kg	99
75)	1,1,2,2-Tetrachloroethane	16.11	83	495007	44.71	ug/Kg	100
76)	Trans-1,4-Dichloro-2-buten	16.22	53	140869	46.12	ug/Kg	91
77)	1,2,3-Trichloropropane	16.18	110	142406	45.82	ug/Kg	96
78)	n-Propylbenzene	16.34	91	1796191	42.20	ug/Kg	98
79)	Bromobenzene	16.09	156	384143	43.38	ug/Kg	93
80)	1,3,5-Trimethylbenzene	16.69	105	1112098	42.34	ug/Kg#	49
81)	2-Chlorotoluene	16.48	91	1023180	40.28	ug/Kg	99
82)	4-Chlorotoluene	16.69	91	1113523	39.67	ug/Kg	99
83)	tert-Butylbenzene	17.31	119	1028725	43.04	ug/Kg	99
84)	1,2,4-Trimethylbenzene	17.40	105	1056742	40.58	ug/Kg	98
85)	sec-Butylbenzene	17.74	105	1601853	42.10	ug/Kg	99
86)	p-Isopropyltoluene	17.31	119	1028725	43.04	ug/Kg	99
87)	1,3-Dclbenz	17.92	146	597182	43.46	ug/Kg	99
88)	1,4-Dclbenz	18.10	146	594463	40.12	ug/Kgm	0
89)	n-Butylbenzene	18.83	91	1092545	39.28	ug/Kg	97
90)	1,2-Dclbenz	18.81	146	561407	41.05	ug/Kg	98
91)	1,2-Dibromo-3-chloropropan	20.34	157	80781	48.47	ug/Kg	93
92)	Nitrobenzene	20.74	77	30550	43.29	ug/Kg	97
93)	1,2,4-Tcbenzene	22.00	180	327810	40.24	ug/Kg	98
94)	Hexachlorobt	22.37	225	191308	40.25	ug/Kgm	44

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9568.D Vial: 22
Acq On : 1 Feb 102 9:54 pm Operator: TTRAVER
Sample : 526213 0.95MSD Inst : 5971 - In
Misc : TTEM R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 2 9:46 19102

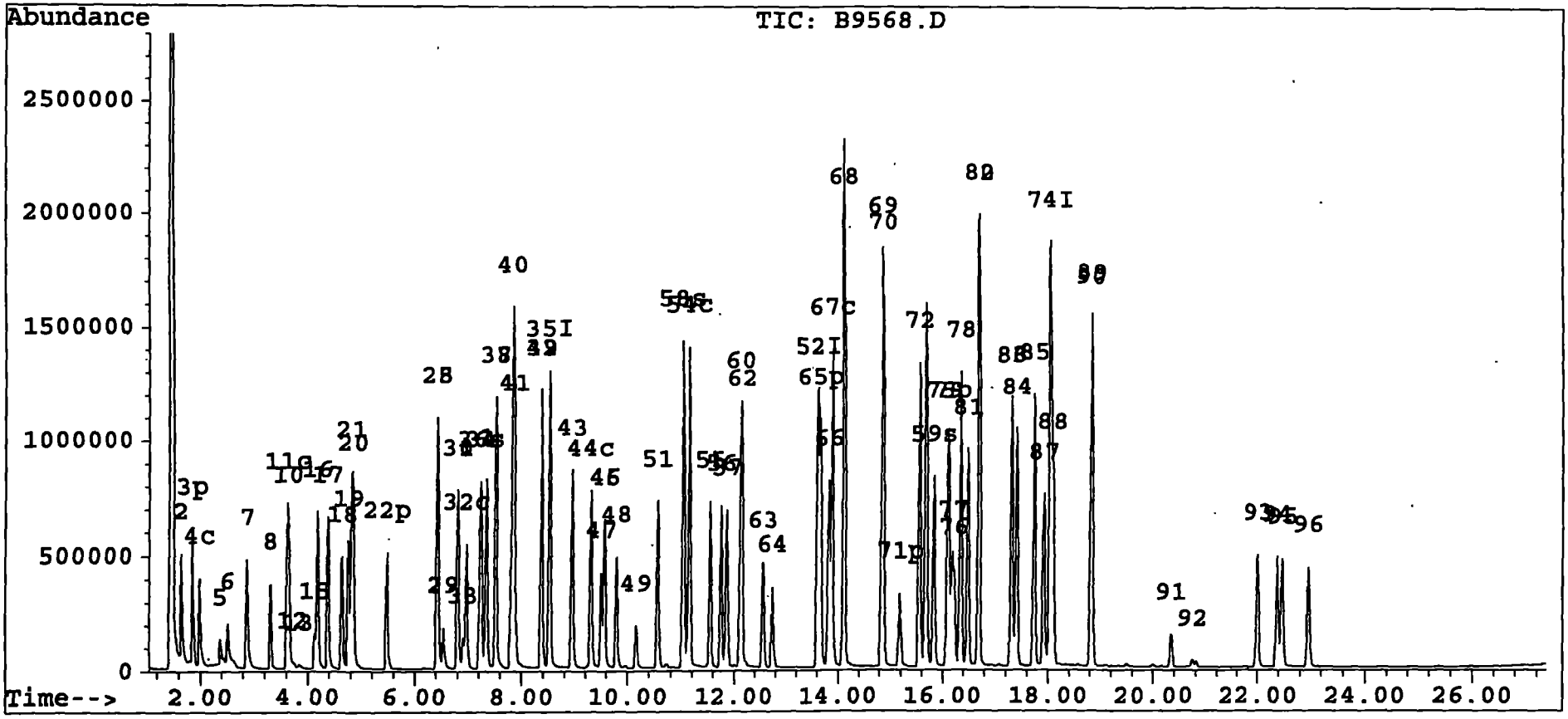
Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95)	Naphthalen	22.46	128	772018	46.68 ug/Kg	99
96)	1,2,3-Tclbenzene	22.95	180	297847	41.32 ug/Kg	100

(#) = qualifier out of range (m) = manual integration

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9568. Vial: 22
Acq On : 1 Feb 102 9:54 pm Operator: TTRAVER
Sample : 526213 0.95MSD Inst : 5971 - In
Misc : TTEM R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 2 9:46 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



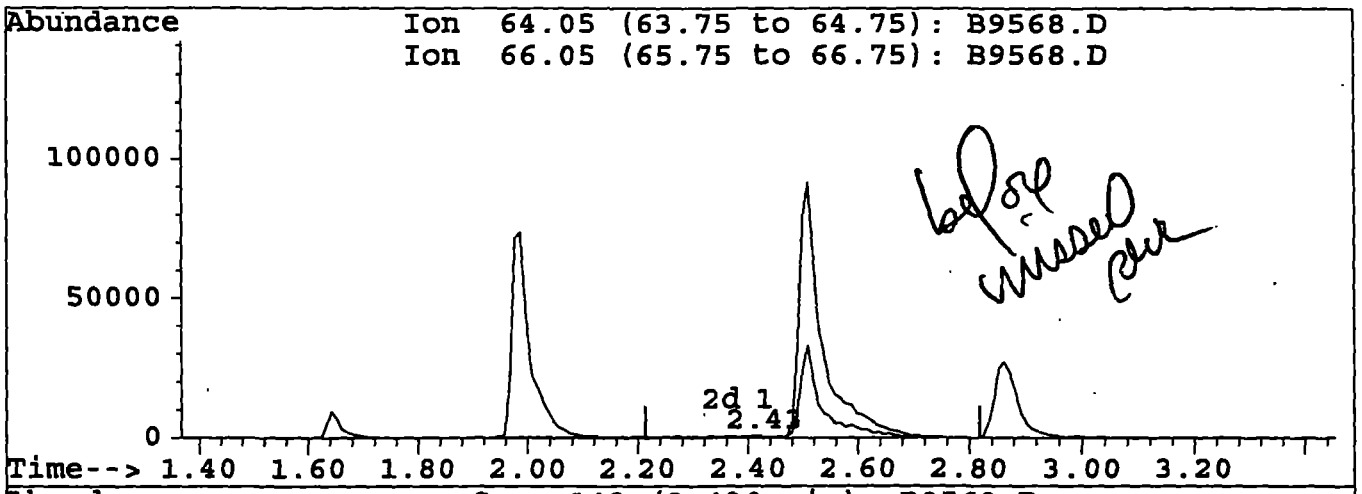
576

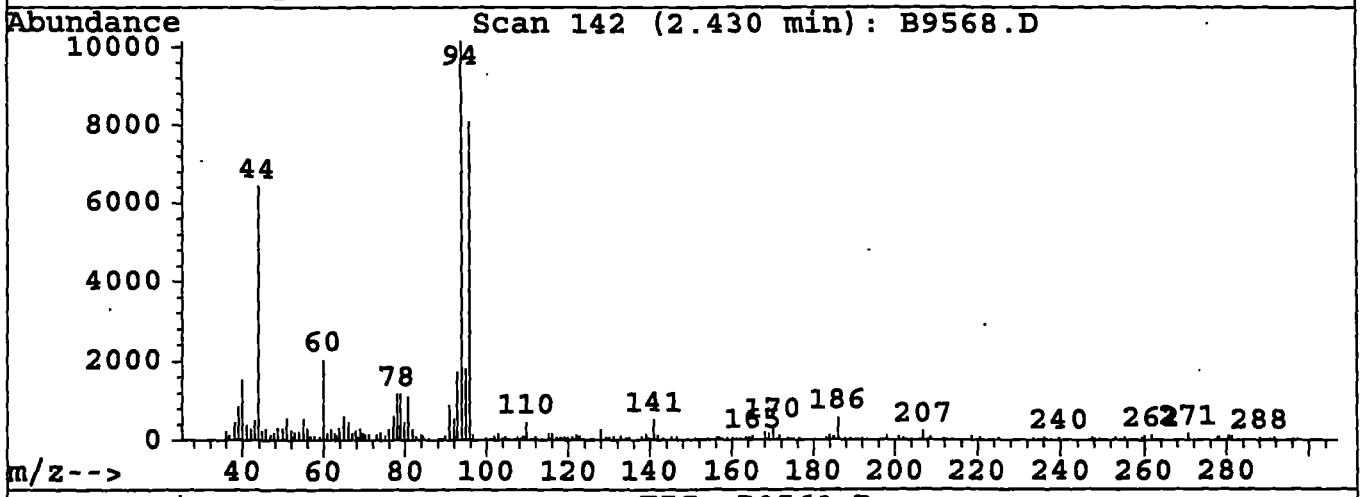
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9568.D
Acq On : 1 Feb 102 9:54 pm
Sample : 526213 0.95MSD
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 1 22:21 19102

Vial: 22
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration





TIC: B9568.D

(6) Chloroethane
2.43min 0.07ug/Kg
response 531

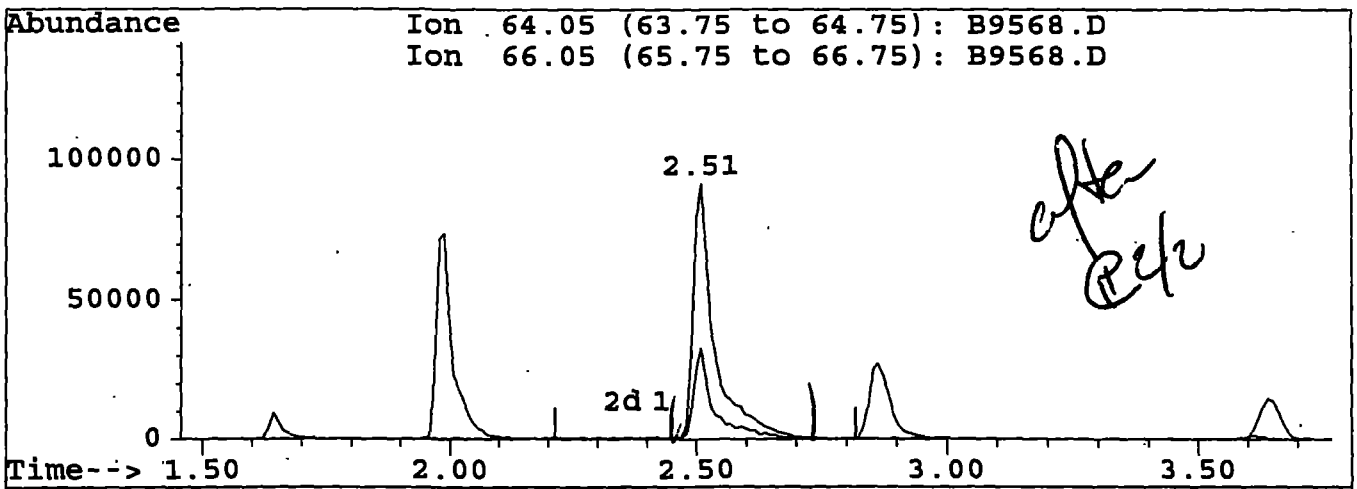
Ion	Exp%	Act%
64.05	100	100
66.05	31.90	148.54#
0.00	0.00	0.00
0.00	0.00	0.00

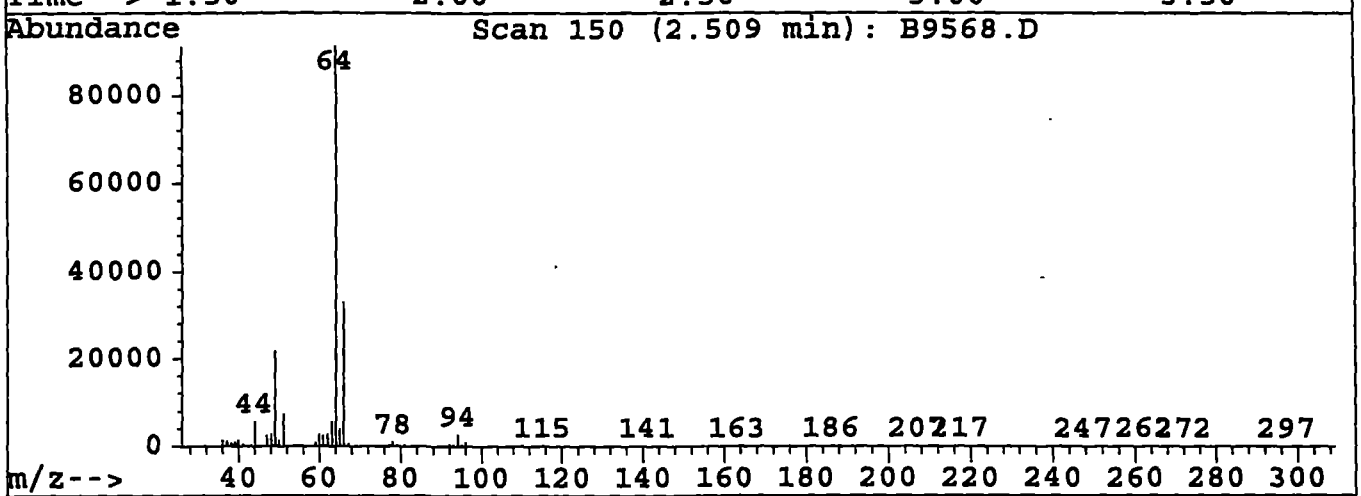
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9568.D
Acq On : 1 Feb 102 9:54 pm
Sample : 526213 0.95MSD
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 9:45 19102

Vial: 22
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration





TIC: B9568.D

(6) Chloroethane
2.51min 37.95ug/Kg m
response 276981

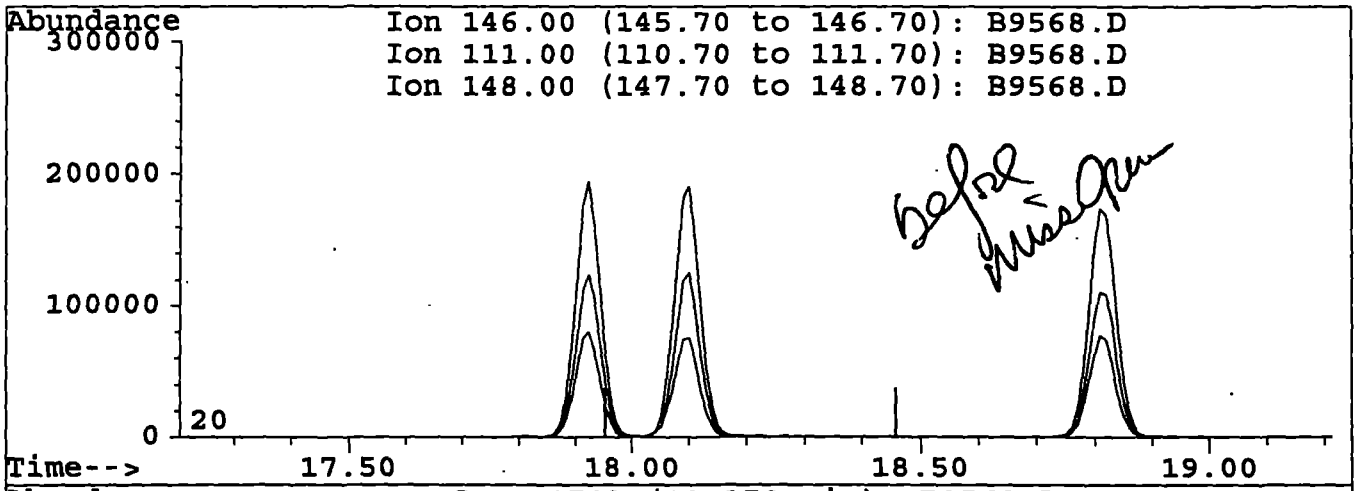
Ion	Exp%	Act%
64.05	100	100
66.05	31.90	36.14
0.00	0.00	0.00
0.00	0.00	0.00

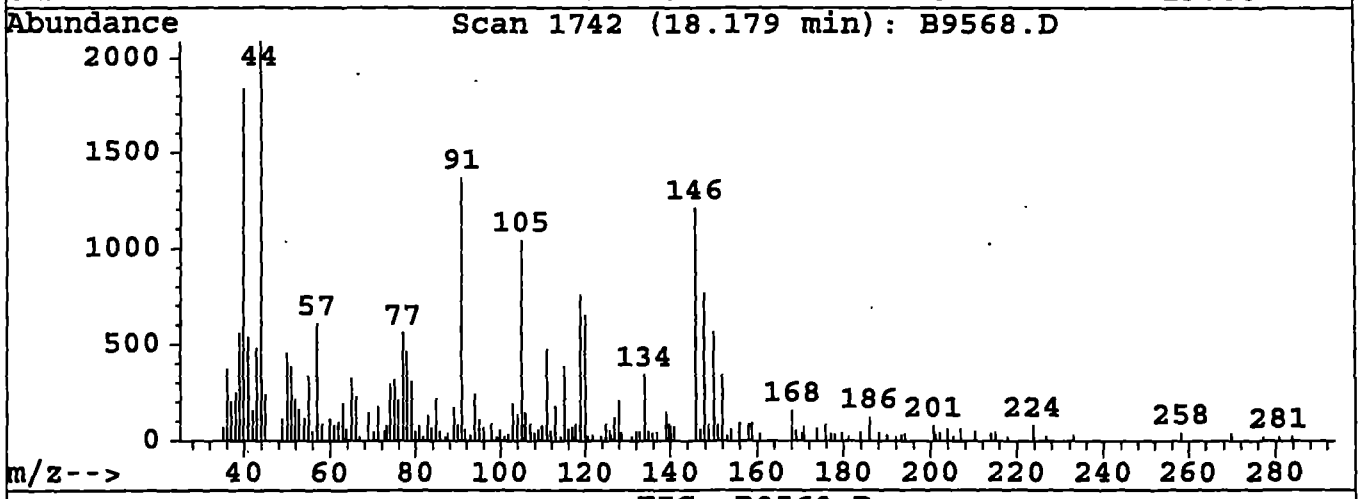
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9568.D
Acq On : 1 Feb 102 9:54 pm
Sample : 526213 0.95MSD
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 9:45 19102

Vial: 22
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration





TIC: B9568.D

(88) 1,4-Dclbenz
18.18min 0.00ug/Kg d
response 0

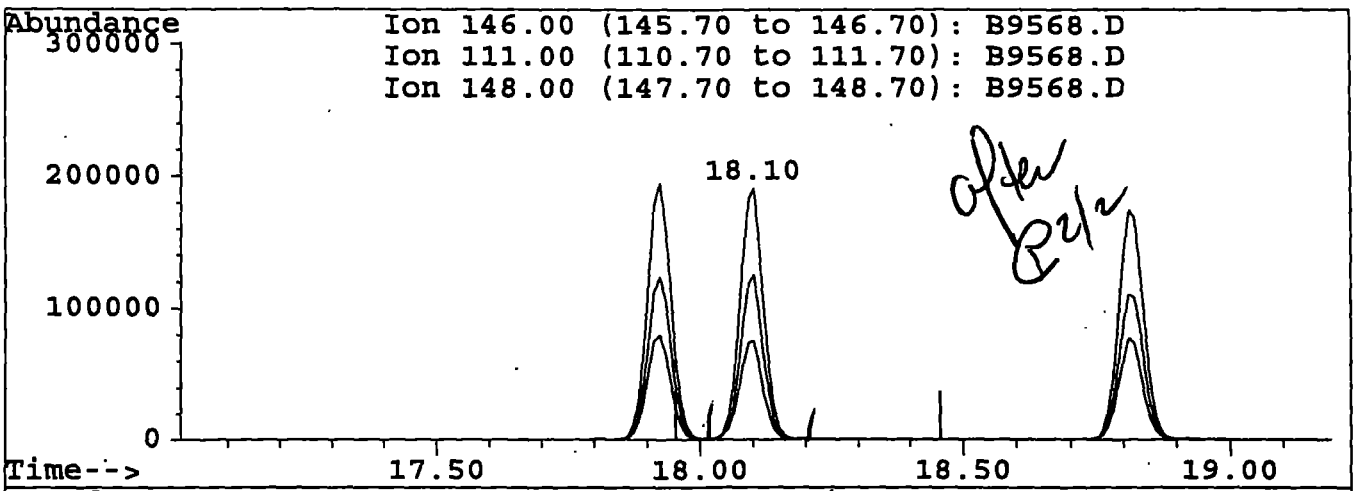
Ion	Exp%	Act%
146.00	100	0.00
111.00	40.30	0.00#
148.00	62.20	0.00#
0.00	0.00	0.00

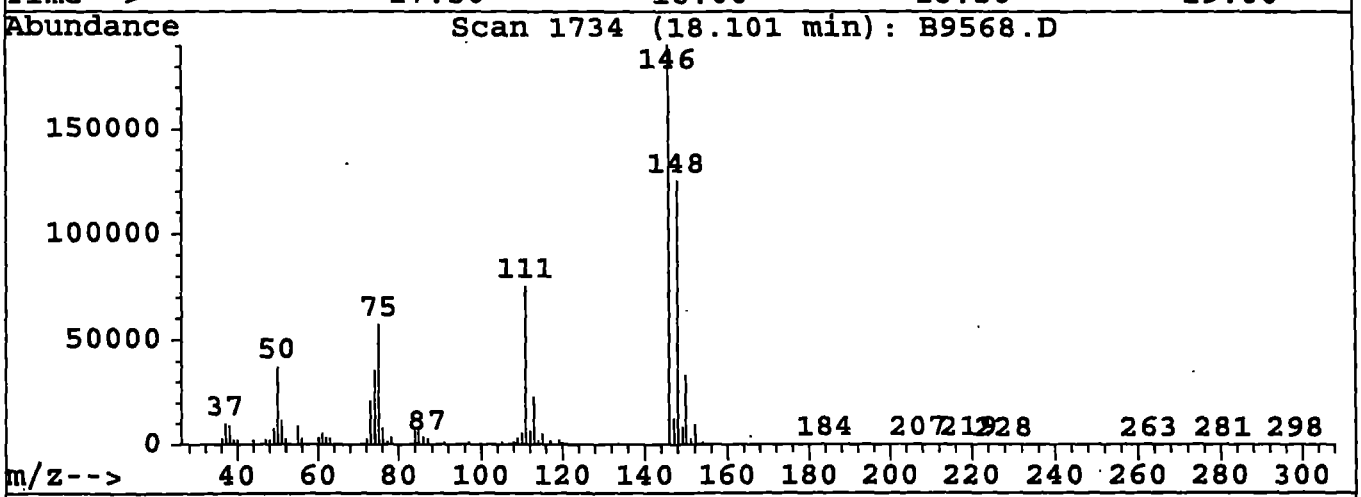
Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9568.D
Acq On : 1 Feb 102 9:54 pm
Sample : 526213 0.95MSD
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 9:45 19102

Vial: 22
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration





TIC: B9568.D

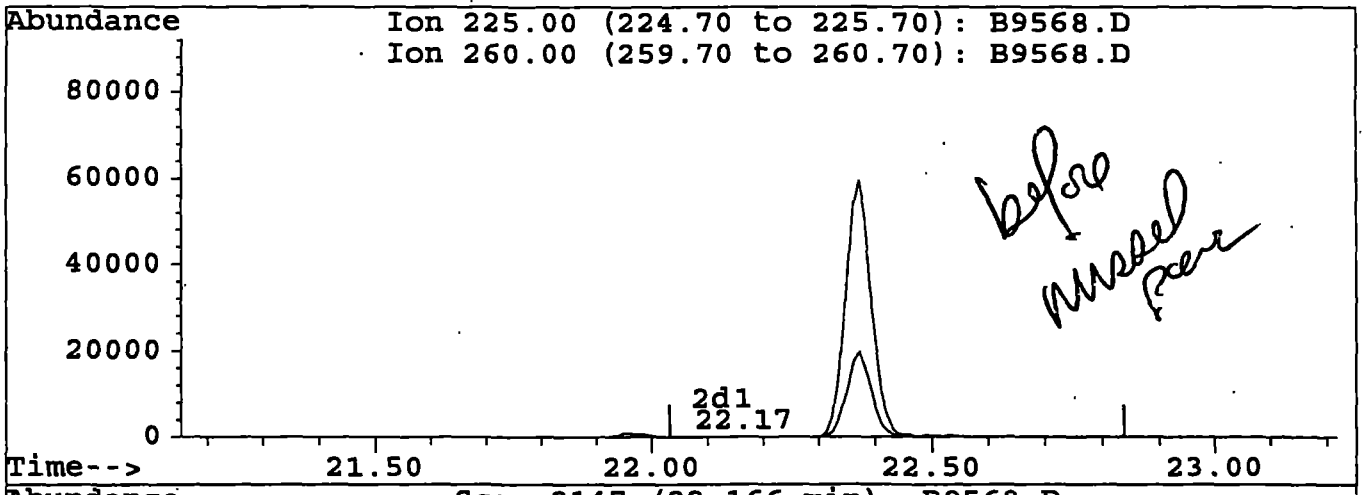
(88) 1,4-Dclbenz
18.10min 40.12ug/Kg m
response 594463

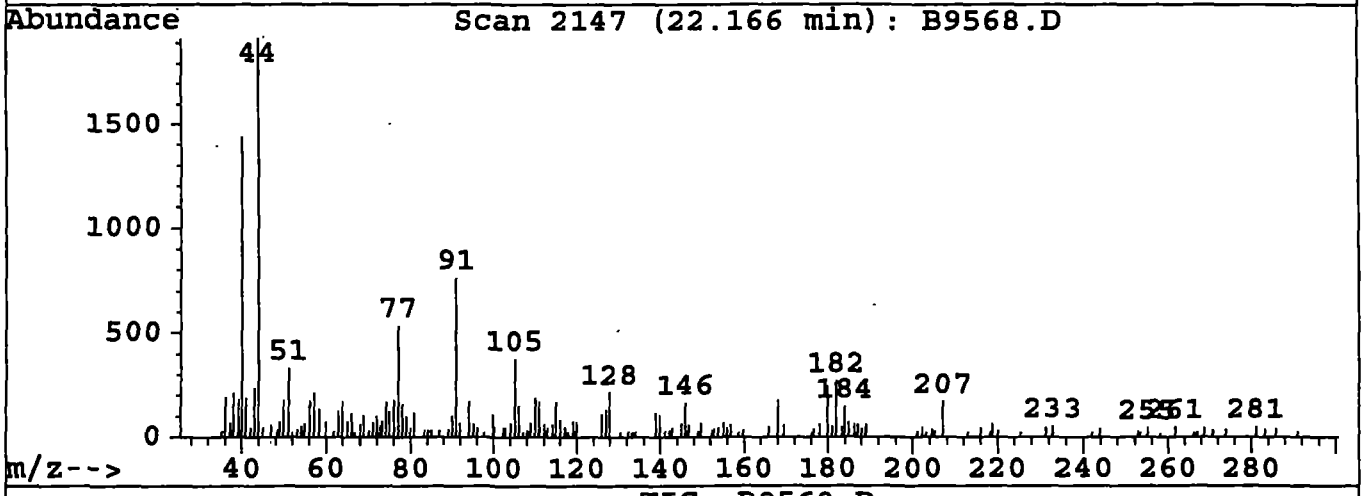
Ion	Exp%	Act%
146.00	100	100
111.00	40.30	39.52
148.00	62.20	65.55
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9568.D Vial: 22
Acq On : 1 Feb 102 9:54 pm Operator: TTRAVER
Sample : 526213 0.95MSD Inst : 5971 - In
Misc : TTEM R22-10416 8260B.TC5 Multiplr: 1.00
Quant Time: Feb 2 9:45 19102

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration





TIC: B9568.D

(94) Hexachlorobt
22.17min 0.01ug/Kg
response 30

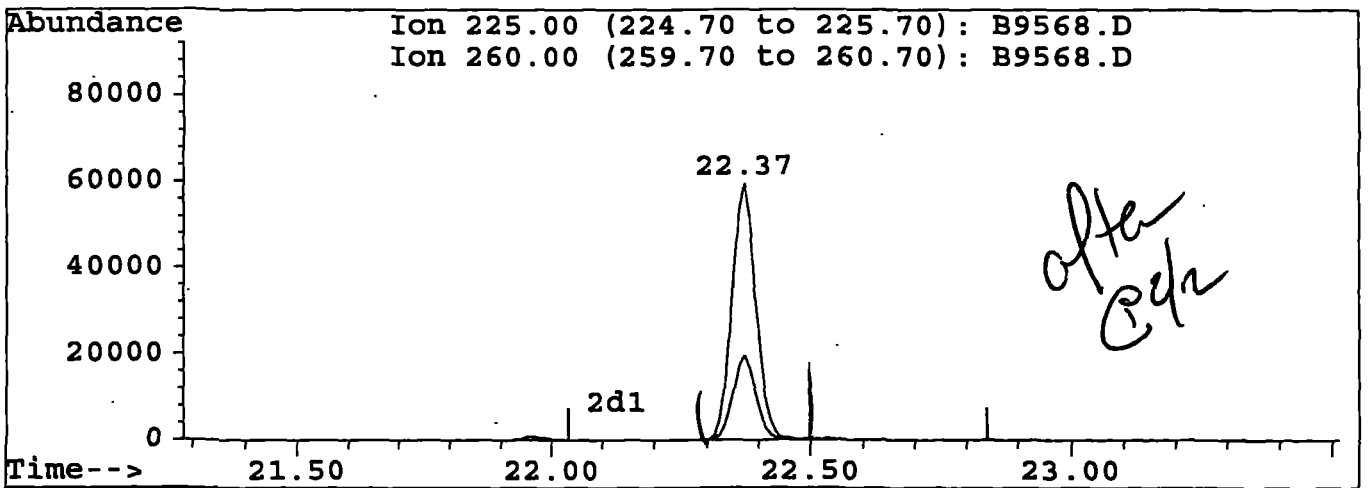
Ion	Exp%	Act%
225.00	100	100
260.00	30.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

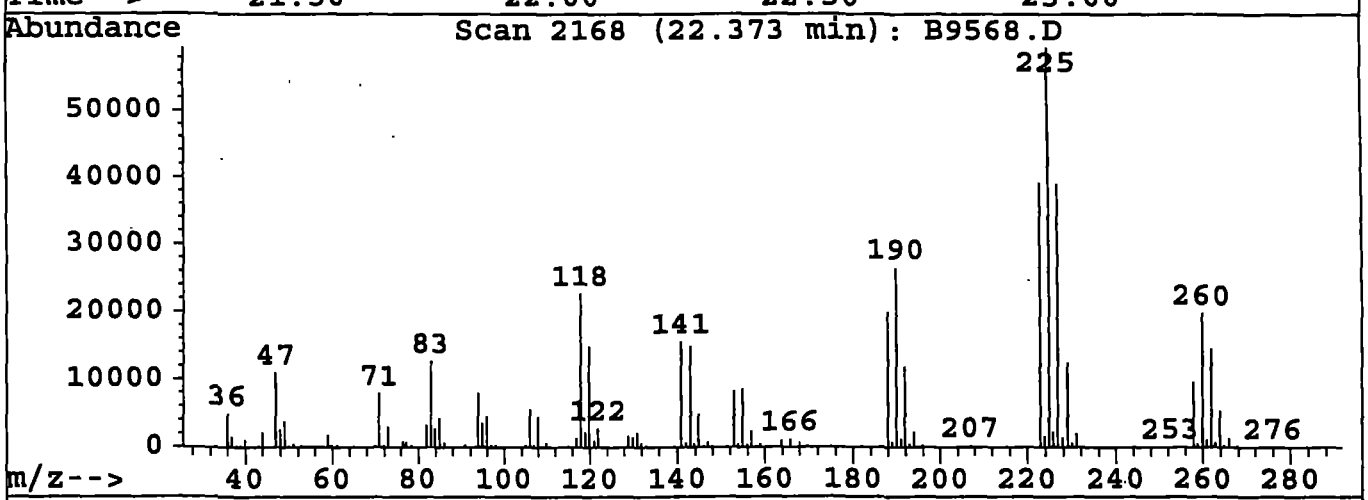
Data File : J:\ACQUDATA\MSVOA3\DATA\020102\B9568.D
Acq On : 1 Feb 102 9:54 pm
Sample : 526213 0.95MSD
Misc : TTEM R22-10416 8260B.TC5
Quant Time: Feb 2 9:46 19102

Vial: 22
Operator: TTRAVER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\SOL0201.M
Title : 8260voa
Last Update : Fri Feb 01 18:41:55 2002
Response via : Multiple Level Calibration



after ccl2



TIC: B9568.D

(94) Hexachlorobt
22.37min 40.25ug/Kg m
response 191308

Ion	Exp%	Act%
225.00	100	100
260.00	30.60	33.25
0.00	0.00	0.00
0.00	0.00	0.00

1/29/02 1012902 1C2 - - -

Q7240	–	
Q7241	YT	
Q7242	YC	
Q7243	–	
Q7244	YMB	
Q7245	YQ	
Q7246	Y	
Q7247	N	
Q7248	Y	
Q7249	Y	
Q7250	Y	
Q7251	N	
Q7252		DO NOT ADD TO SEQUENCE
Q7253		
Q7254		
Q7255		
Q7267		

Pour off 5ml (CCV)

Pour off 5ml (LCS)

Pour off 5ml (SPK)

	1	TUNE (6:15 AM)	Q7251	YT	
	2	CCV	Q7252	YC	
	3	BLK	Q7253	–	
	4	MED BLK	Q7254	N	MECLA @ 10FPB
	5	LCS MED BLK	Q7255	YMB	
	6	LCS	Q7256	YQ	
1/6	6 ~~7~~	525314 500.0 [BLA R22-10339 8260B.B7EX]	Q7257	Y	
	~~8~~ 8	C-BLK	Q7258	–	
	9	525313 125.0	Q7259	Y	
	~~9~~ 10	C-BLK	Q72601	–	BA1/9
	10	525318 125.0	Q72612	Y	
	11	319 125.0	Q72623	Y	
	11	C-BLK	Q7264	–	
	12	526090 125.0 [SRM R22-10413 8260B.TCL4]	Q7265	Y	
	13	091 125.0	Q7266	Y	
1/6	14	092 500.0	Q7267	N	RFI 1/250
	16	526219 12 [TTEM-KS R22-10416 8260B.TS]	Q7268	Y	
	1	526090 125.0(MS) [SRM R22-10413 8260B.TCL4]	Q7269	YQ	OUT OF TUNE TIME
	2	090 125 (MSD)	Q7270	YQ	

William C Allgier

50RR MSU 6094F 2ul into 5ml (TUNE)

TARG 500 MSU 6087A
HSL 500 MSU 6087B } 5ul into 50ml GRADUATED CYLINDER, Pour off 5ml (CCV)

TARG 500 MSU 6088A
HSL 500 MSU 6088B } 2ul into 50ml GRADUATED CYLINDER, Pour off 5ml (LCS)
5ul into 50ml GRADUATED CYLINDER, Pour off 5ml (SPK)

COMB 50 MSU 6099A 5u into every 5ml except tune

54 2/1/02 8260B SOILS Tune1K11 S010201.m

①	AMBLK SOIL SIDE	B9547	O2
②	AMBLK	B9548	
①	Tune Chek	B9549	NT
①	Tune Chek 10:22	B9550	YT
①	Pre curve BLK	B9551	YM
2	5PPB	B9552	
3	20PPB	B9553	YS
4	50PPB 52/1172/904/373	B9554	YS YCQ
5	100	B9555	YS
6	150	B9556	YS
7	200	B9557	YS
8	BLK	B9558	Y
9	5PPB recb	B9559	YS
9	ICV	B9560	YQ
10	MetBLK	B9561	—
1	metBLK	B9562	YM
2	LCS	B9563	YQ
3	526216 0.75 R22-10416	B9564	Y
4	526214 0.85	B9565	Y
5	526213 0.84	B9566	Y
6	526213 0.95 MS	B9567	YQ
7	526213 0.95 MSD	B9568	YQ
8	BLK	B9569	O2

0

Tune Curve MSV60954 2ml/5ml tune (ICV)

		5	2.0	5.0	100	150	200
8260 Stock Curve	MSV6098D	—	2.5	—	5	7.5	10
Prim T/6	MSV6087A	.5	2.0	5	10	15	20
Prim HSL	MSV6087B	.5	2.0	5	10	15	20

584

	AMBLK				895710		
	AMBLK				895711	—	
	Pure Chlor		11:08		895712	y	
	CCV				895713	y	
	MeOBLK				895714	y	Small TICs
	MeOBLK				895715	y	m
	LCS				895716	y	Q
3	526215	0.82	R22-10416		77	y	
4	223	4.90	Conf – run med ext for Ketones		78		IS3,4,1,5 surr 1,24 E
5	217	0.66			79	y	Conf run for poss carry
6	218	0.70			80	y	
~~7~~	~~219~~	~~1.28~~			—		
8	220	0.68	Conf run med ext. for Ket		81		All IS, 2 surr 4 E
9	221	3.82			82	y	conf for poss carry
10	222	0.73			83	y	
11	~~025~~	~~0.66~~ 027	0.70		84	y	
11	026	0.80			85	y	
12	208	1.73	Conf low		86		IS#4b surr 4
13	210	0.86	Conf low		87		surr 4b
14	211	1.77	Conf low		88		IS#4b surr 4
15	212	0.69	Conf low		89		IS#4b
16	504	0.66			90	y	
17	219	1.28		already MeOH run 10:57	91		IS#3,4b all surr 4
18	BLK		Clean		92		LAST SAMPLE

move to end of run

Thomas D

SNER MSV6095 A 2ml 15mL time
PhenT/G MSV6087 A
Phen H&L MSV 6067 B > 5ml each to 50mL = CCV

SS T/G MSV6088 A
SS H&L MSV6088 B > 2ml each to 50mL = LCS

2/3/02

TUNE0124
EXP0124

		Tune Chem	Q7343	NT
		Tune Chem 1111	Q7344	YT
		CCV	Q7345	N
	9	CCV 771136/1167213/961087/561701	Q7346	YC
	10	BLK	Q7347	—
	11	MED BLK	Q7348	YMB
	12	LCS	Q7349	YQ
100ul/5ml	13	526220 46.0 [TTEM R22-10416 8260B.TCLH]	Q7350	Y
↓	14	223 540.0 ↓	Q7351	Y
10ul/5ml	16	526042 1250.0 [SRM R22-10413 8260B.TCLH]	Q7352	Y
100ul/5ml	1	527740 125.0 [GE R2-10587 8260B.TCLH]	Q7353	Y
	2	220 46.0 (ms) [TTEM R22-10416 8260B.TCLH]	Q7354	YQ
↓	3	220 46.0 (MSD)	Q7355	YQ
	4	C-BLK	Q7356	—
	5	ZHE-BLK	Q7357	Y PH>2
5ml/50ml	6	527739 10.0 [R22-10507 8260B.TCLP]	Q7358	Y
5ml/50ml	7	853 10.0 R22-10516 8260B.TCLP]	Q7359	BFB ↑

William C Allgin

SURR 25 MSV 7003L 2ul into 5ml, PURGE (TUNE)
TARG 500 MSV 6087A
HSL 500 MSV 6087B } 5ul into 50ml GRADUATED CYLINDER, POUR off 5ml (CCV
TARG 500 MSV 6088A
HSL 500 MSV 6088B } 2ul into 50ml GRADUATED CYLINDER, Pour off 5ml
5ul into 50ml GRADUATED CYLINDER, Pour off 5ml

5035

Tune 1217.m
5010301.m

2/4/02 | 020402 | B....

1	Am Blk		B9599	—
2	Am Blk		B9600	—
3	Am Blk		B9601	—
1	Tune 9:43		B9602	yT
1	CCV		B9603	~~NC~~
1	CCV		B9604	N ~~VET~~ → ~~locked Tune file~~
1	Blk		B9605	—
2	Mt Blk		B9606	ym
1	LCS		B9607	N bromomethane 1:1:1 trich carbon tet carbon bull
1	LCS		B9608	YQ bromomethane ↓ run as per T.T
2	526025 0.68	TTEM-KS822-10416 826021 TCS	B9609	y
3	026 0.76		B9610	no surr rerun mod
4	~~209 0.64~~	Blk	B9611	—
5	~~209ms 0.73~~	526209 0.64	B9612	rerun mod 1 ↓ ↓
6	~~209msD 0.67~~	209ms 0.73	B9613	↓
7	~~Blk~~	209msD 0.67	B9614	↓
8	~~526217 0.72~~	Blk	B9615	—
9	~~221 2.47~~	526217 0.72	B9616	y
10	~~208 1.8~~	221 2.47	B9617	Purged dilut run ms EPA
11	~~210 0.85~~	208 1.8	B9618	
12	~~211 1.44~~	210 0.85	B9619	
13	~~212 0.47~~	211 1.44	B9620	
14		212 0.47	B9621	

Surr MSV6095A 2ul → 5ml Tune
1° Targ MSV6087A } 5ul → 50ml then 5ml → 43ml vial CCV
1° ISL MSV6087B
SS Targ MSV6085A } 2ul → 50ml then 5ml → 43ml vial LCS
SS ISL

587

FORED124
EXP0024

Q7343	NT
Q7344	YT
Q7345	N
Q7346	YC
Q7347	—
Q7348	YMB
Q7349	YQ
Q7350	Y
Q7351	Y
Q7352	Y
Q7353	Y
Q7354	YQ
Q7355	YQ
Q7356	—
Q7357	Y
Q7358	Y
Q7359	

PIN 2

BFB ↑

(TUNE)

Pour off 5mL (CCV)

Pour off 5mL (LCS)

Pour off 5mL (SPK)

2/4/02 1020402/0 . . .

1	TUNE	Q7360	—	CONTAMINATION IS POISON
1	TUNE (10:42AM)	Q7361	YT	
2	CCV 925792/1399441/1174792/620118	Q7362	YC	
3	BLK 1851584/2798882/2349584/1240236	Q7363	—	
4	MED BLK	Q7364	YMB	
5	LCS	Q7365	YQ	
6	526532 ~~125.0~~ 250.0 [BLACHICAGO R22-10435 8260B.BTEX]	Q7366	(Y)	RPT 6250
7	C-BLK	Q7367	—	
8	526539 125.0	Q7368	N	DID NOT ADD INTERNAL
9	526626 125.0 [ITEM R22-10416 8260B.TCLH]	Q7369		ALL INTERNALS ↑
10	029 125.0 [BLACHICAGO R22-10434 8260B.BTEX]	Q7370	Y	
11	~~526532 125.0~~ 250.0 [TK	Q7371	Y	
12	~~526626 125.0~~ 526709 125.0 [ITEM R22-10416 8260B.BTEX]	Q7372	Y	
13	527028 125.0	Q7373	Y	
14	526538 125.0 [R22-10435]	Q7374	Y	
15	527030 125.0 R22-10434	Q7375	Y	
1	527769 125.0 [ERM R22-10511 8260B.TCLH]	Q7376	(Y)	RPT 1/1250
2	769 125.0 (MS)	Q7377	YQ	
3	769 125.0 (MSD)	Q7378	YQ	
4	C-BLK	Q7379	—	
5	526539 125.0 [BLACHICAGO R22-10435 8260B.BTEX]	Q7380	N	OUT OF TUNE TIME

William C. Allgier

SURR 85 MSV 7003L 2uL into 5mL, purge (TUNE)

TARG 500 MSV 6087A
HSL 500 MSV 6087B
> 5uL into 50mL GRADUATED CYLINDER, Pour off 5mL (CCV)

TARG 500 MSV 6088A
HSL 500 MSV 6088B
> 5uL into 50mL GRADUATED CYLINDER, Pour off 5mL (LCS)
> 5uL into 50mL GRADUATED CYLINDER, Pour off 5mL (SPK)

5035 Soils

Tune.1217

2/5/02

|020502|B...

1	AmBlk			B9617	—	
1	Am Blk			B9618	—	
1	Tune	9:04am		B9619	YT	
1	CCO			B9620	YC	
1	Blk			B9621	—	
2	Met Blk			B9622	—	Ketones
1	Met Blk			B9623	—	[illegible] peak Changed tank
1	Met Blk			B9624	YM	[illegible]
1	LCS			B9625	N	[illegible]
1	LCS			B9626	YQ	[illegible]
2	526725	0.79	TTemks R22-10457 82608.TC6	B9627	Y	
3	726	0.68		B9628	Y	
4	729	0.86		B9629	Y	
5	730	0.90		B9630	Y	
6	527768	1.0	CRM R22-10511 82608.TCLK	B9631	Y	
7	526208	1.80	TTemks. 10416 82608.TC5	B9632	Y	last 75 ↓
8	210	0.85		B9633	Y	1st Surr ↓
9	211	1.44		B9634	Y	last 2nd 1st Surr
10	212	0.47		B9635	Y	last 23 ↓
11	527768ms	1.0	CRM R22-10511 82608.TCLK	B9636	YQ	13 surr ↑
12	768msd	1.0		B9637	YQ	13 surr ↑

Surr MSV6095A 2nd → 5ml Tune

1° T. [illegible]

TUNE0131.M
SXP0124.M

2/5/02 1020502/Q - - - -

	1	BLK	Q7383	—	
	1	TUNE	Q7384	N	
	1	TUNE	Q7385	YT	
	2	CCV	Q7386	YC	
	3	BLK	Q7387	—	
	4	MED BLK	Q7388	—	
	5	MED BLK	Q7389	YMB	
	6	LCS	Q7390	YQ	
	7	526026 [TTEM R22-10416 8260B.TCLH]	Q7391	Y	
10ul/5ml	8	527769 1250.[SRM R22-10511 8260B.TCLH]	Q7392	Y	RPT 2500
100ul/5ml	9	526855 125.0[BLACHIDACO R22-10434 8260B.BTEX]	Q7393	Y	
↓	10	539 125.0 (BA2/5)	Q7394	Y	
5ul/5ml	11	527769. ~~1250~~ 2500 ~~1250~~ 2500 .0(MS) [SRM R22-10511 8260B.TCLH]	Q7395	YQ	
↓	12	769 ~~1250~~ 2500 .0(MSD) ↓	Q7396	YQ	
	13	C-BLK	Q7397	—	
5ul/5ml	14	~~C-BLK 527769~~ 2500 [SRM R22-10511 8260B.TCLH]	Q7398	Y	
	16	C-BLK	Q7399	—	
	1	C-BLK	Q7400	—	

William C Allgeier

SURR 25 MSV 6094E 2ul into 5ml (TUNE)
TARG 500 MSV 6087A } 5ul into 50ml GRADUATED CYLINDER, Pour off 5ml (CCV)
HSL 500 MSV 6087B }
TARG 500 MSV 6088A } 2ul into 50ml GRADUATED CYLINDER, Pour off 5ml (LCS)
HSL 500 MSV 6088B } 5ul into 50ml GRADUATED CYLINDER, Pour off 5ml (SPIK

METHOD 5035
TARE SHEET

SERIAL#	ORDER#	FINAL WT.(g)	TARE WT. (g)	SMPL.WT.(g)	DILUTION
1/11/02	LOW LEVEL 5035 SOIL				
867594			31.37		
590	526222	38.56	31.67	6.89	.73
465			31.26		
494			31.24		
551			31.90		
516	526220	38.94	31.63	7.31	.68
521			31.50		
493			31.55		
541			31.61		
552	526027	38.54	31.40	7.14	.70
446	526028	37.70	31.47	6.23	.80
496			31.73		
502			31.62		
609			31.36		
455	526025	38.60	31.67	6.93	.72
481			31.41		
532			31.60		
611			31.40		
513			31.42		
485			31.38		
592	526025	38.56	31.24	7.32	.68
476			31.47		
622			31.62		
525			31.27		
492			32.18		
471			31.41		
457	526217	38.65	31.33	7.32	.68
539	526217	38.48	31.58	6.9	.72
498			31.68		
486			31.38		
489			31.74		
531			31.40		
491	526730	~~38.65~~ 37.05	31.49	5.56	0.90
506	526730	~~38.65~~ 37.13	31.22	5.91	0.85
528			31.80		
480			31.48		
549			31.35		
470			31.47		
633			31.43		
601			31.74		

METHOD 5035
TARE SHEET

SERIAL#	ORDER#	FINAL WT.(g)	TARE WT. (g)	SMPL.WT.(g)	DILUTION
867610			31.30		
487	526215	37.63	31.57	6.06	.82
619			31.48		
591			31.63		
517	526026	38.26	31.33	6.93	.72
483	526504	39.26	31.73	7.53	.66
484			31.47		
569			31.26		
557	526214	37.16	31.28	5.88	.85
535			31.62		
501	526211	34.92	31.45	3.47	1.44
630			31.40		
447	5		31.36		
631	526218	38.45	31.39	7.06	.70
490			31.44		
497			31.65		
530	526221	32.91	31.60	1.31	3.82
608	526026	37.98	31.38	6.60	.76
593	526219	35.26	31.36	3.90	1.28
629			31.27		
662827	526208	34.40	31.51	2.89	1.73
830	526208	34.21	31.44	2.77	1.80
[illegible]	526725	~~[illegible]~~ 37.73	31.39	5.74	0.87
881	526725	~~29.26~~ 37.59	31.29	6.30	0.79
818	526212	38.39	31.16	7.23	.69
820	526212	41.99	31.30	10.69	.47
829	526209	39.18	31.38	7.80	.64
824	526209	38.17	31.41	6.76	.73
823	526211	33.33	31.31	2.02	2.47
825			31.27		
821	526209	38.70	31.19	7.51	.67
833	526211	34.24	31.42	2.82	1.77
826			31.28		
819			31.47		
822			31.49		
832	526213	37.40	31.44	5.96	.84
817			31.36		
834			31.50		
867469	526213	36.58	31.31	5.27	.95
620	526729	~~29.73~~ 37.88	31.49	6.39	0.78
475	526729	~~29.33~~ 37.19	31.30	5.80	0.86
634	526726	~~29.96~~ 38.60	31.24	7.36	0.68
662446			31.70		
337			31.70		

METHOD 5035
TARE SHEET

SERIAL#	ORDER#	FINAL WT.(g)	TARE WT. (g)	SMPL.WT.(g)	DILUTION
867333	526210	37.14	31.39	5.75	.86
419			31.46		
510	526223	32.55	31.53	1.02	4.90
504	526210	37.27	31.36	5.86	0.85
527	526726	~~38.92~~ 38.74	31.40	7.34	0.68
488	526213	36.57	31.28	5.29	.95
571			31.37		
564	526216	38.30	31.59	6.71	.75
1/11/02	MED	LEVEL	5035	SOIL	
816765			33.40		
816742			33.22		
886			33.21		
803			33.15		
757			33.35		
801			33.30		
802			33.24		
805			33.23		
774			33.42		
804			33.25		
809			33.11		
713			33.06		
811892			33.30		
814855			33.24		
816807			33.19		
721			33.19		
808			33.32		
800			33.26		
811884			33.20		
860			33.20		
854			33.27		
816716			33.23		
814			33.31		
763			33.21		
811915			33.41		
866			33.12		
851			33.14		
816 813	526026	39.76	33.19	6.57	~~0.76~~ 76.1 R
817	526219	36.91	33.30	3.61	138
812			33.18		
814821			33.12		

METHOD 5035
TARE SHEET

SERIAL#	ORDER#	FINAL WT.(g)	TARE WT. (g)	SMPL.WT.(g)	DILUTION
815896			33.25		
347	526720	44.15	33.37	10.78	46.25
816810			33.32		
811			33.35		
818			33.28		
814701			33.22		
811922			33.18		
814949			33.26		
815363			33.47		
814946			33.15		
620	526209	3860	33.20	5.40	0.93
815543			33.16		
361	526223	34.26	33.33	.93	540
348			33.22		
811865			33.39		
814788			33.17		
811835			33.26		
815506			33.31		
811844			33.36		
898379			103.66		
898377			103.86		
898344			103.81		
435155			101.47		
898330			103.93		
435311			106.45		
435353			105.85		
434935			105.66		
898336			104.07		
434999			106.40		
434365			106.38		
898345			103.39		
434660			106.34		
898380			104.00		
898338			103.48		
898385			103.97		
898384			103.83		
435315			106.42		

~~95~~ 93 CT 2/6

Thurs 2/21
2 oz Septa Cap Jars w/Silver + 25mL MeOH
CT

2 aqua: 10337
10416

A

un #: 73817
.nalyte: PERCENT SOL. 160.0 PERCENT SOLIDS
'ri 4: 01/29/02 10:01

'YPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT	DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
ILK6		527273	SOIL/SEDIM	1.00	1.0	1.0			01/25/2002		
:SMP	9912010345	525417	SOIL/SEDIM	85.3	1.0	1.0			01/25/2002		2
:SMP	9912010345	525418	SOIL/SEDIM	88.4	1.0	1.0			01/25/2002		2
3SK1		527274	SOIL/SEDIM	87.4	1.0	1.0		1.08	01/25/2002		
:SMP	9912010337	525807	SOIL/SEDIM	89.2	1.0	1.0			01/25/2002		4+
:SMP	9912010337	525814	SOIL/SEDIM	74.6	1.0	1.0			01/25/2002		4+
:SMP	9912010337	525816	SOIL/SEDIM	85.6	1.0	1.0			01/25/2002		4+
ESMP	9912010337	525817	SOIL/SEDIM	79.8	1.0	1.0			01/25/2002		4+
ESMP	9912010337	525819	SOIL/SEDIM	84.0	1.0	1.0			01/25/2002		4+
ESMP	9912010337	525820	SOIL/SEDIM	87.9	1.0	1.0			01/25/2002		4+
LDUP		527275	SOIL/SEDIM	88.4	1.0	1.0		0.52	01/25/2002		
ESMP	9912010337	525821	SOIL/SEDIM	79.6	1.0	1.0			01/25/2002		4+
ESMP	9912010337	525822	SOIL/SEDIM	82.3	1.0	1.0			01/25/2002		4+
ESMP	9912010337	525823	SOIL/SEDIM	86.9	1.0	1.0			01/25/2002		4+
ESMP	9912010337	525828	SOIL/SEDIM	52.5	1.0	1.0			01/25/2002		4+
ESMP	9912010337	525829	SOIL/SEDIM	67.1	1.0	1.0			01/25/2002		4+
ESMP	9912010416	526025	SOIL/SEDIM	81.6	1.0	1.0			01/25/2002		5
ESMP	9912010416	526026	SOIL/SEDIM	81.2	1.0	1.0			01/25/2002		5
ESMP	9912010416	526027	SOIL/SEDIM	81.0	1.0	1.0			01/25/2002		5
ESMP	9912010416	526028	SOIL/SEDIM	85.1	1.0	1.0			01/25/2002		5
ESMP	9912010416	526208	SOIL/SEDIM	78.5	1.0	1.0			01/25/2002		5
E	9912010416	526209	SOIL/SEDIM	48.2	1.0	1.0			01/25/2002	QC	5
LD.		527276	SOIL/SEDIM	48.4	1.0	1.0		0.35	01/25/2002		
ESMP	9912010416	526210	SOIL/SEDIM	94.3	1.0	1.0			01/25/2002		5
ESMP	9912010416	526211	SOIL/SEDIM	81.9	1.0	1.0			01/25/2002		5
ESMP	9912010416	526212	SOIL/SEDIM	58.9	1.0	1.0			01/25/2002		5
ESMP	9912010416	526213	SOIL/SEDIM	77.0	1.0	1.0			01/25/2002	QC	5
LDUP		527277	SOIL/SEDIM	78.6	1.0	1.0		2.01	01/25/2002		
ESMP	9912010416	526214	SOIL/SEDIM	85.5	1.0	1.0			01/25/2002		5
ESMP	9912010416	526215	SOIL/SEDIM	78.9	1.0	1.0			01/25/2002		5
ESMP	9912010416	526216	SOIL/SEDIM	79.6	1.0	1.0			01/25/2002		5
ESMP	9912010416	526217	SOIL/SEDIM	83.3	1.0	1.0			01/25/2002		5
ESMP	9912010416	526218	SOIL/SEDIM	84.0	1.0	1.0			01/25/2002		5
ESMP	9912010416	526219	SOIL/SEDIM	10.5	1.0	1.0			01/25/2002		5
ESMP	9912010416	526220	SOIL/SEDIM	53.7	1.0	1.0			01/25/2002		5
ESMP	9912010416	526221	SOIL/SEDIM	74.8	1.0	1.0			01/25/2002		5
ESMP	9912010416	526222	SOIL/SEDIM	84.8	1.0	1.0			01/25/2002		5
ESMP	9912010416	526223	SOIL/SEDIM	31.8	1.0	1.0			01/25/2002		5
ESMP	9912010416	526504	SOIL/SEDIM	81.3	1.0	1.0			01/25/2002		5

Records printed: 39

Review Date 1/30/02 Name B Bowe
Data Entry Date _____ Name _____
Final Review Date _____ Name _____
QC Date _____ Name _____
Comments:

ANALYTE:G:\STARLIMS\ASBAR.RP1
Page 1

DATE PRINTED: 01/29/02

SOLIDS REPORT

RUN #: 73817 ANALYSIS DATE: 01/25/2002 ASSIGNED TO :
TEMPLATE: DWPS
TEST :

CUP#	ORDER #	SUBMISSION	CONTROL TYPE	GROSS(g) TARE(g) DIFF(g)		% SOLID	DISH ID	LS JOB#	LS LOC#
1	527273	R22 0	ICBW	(1.2600-1.2500)=0.0100	DRY*100 =	1.00	1		
				(1.2500-1.2500)=0.0000	WET				
2	525417	R2210345	ESMP	(9.8600-1.2600)=8.6000	DRY*100 =	85.30	7		
				(11.3400-1.2600)=10.0800	WET				
3	525418	R2210345	ESMP	(11.1700-1.3000)=9.8700	DRY*100 =	88.40	8		
				(12.4600-1.3000)=11.1600	WET				
4	527274	R22 0	DUPE	(10.8100-1.2600)=9.5500	DRY*100 =	87.40	10		
				(12.1800-1.2600)=10.9200	WET				
5	525807	R2210337	ESMP	(10.3100-1.2700)=9.0400	DRY*100 =	89.20	11		
				(11.4100-1.2700)=10.1400	WET				
6	525814	R2210337	ESMP	(8.6300-1.2600)=7.3700	DRY*100 =	74.60	13		
				(11.1400-1.2600)=9.8800	WET				
7	525816	R2210337	ESMP	(10.3400-1.2700)=9.0700	DRY*100 =	85.60	12		
				(11.8600-1.2700)=10.5900	WET				
8	525817	R2210337	ESMP	(9.0500-1.2500)=7.8000	DRY*100 =	79.80	14		
				(11.0300-1.2500)=9.7800	WET				
9	525819	R2210337	ESMP	(9.6600-1.2900)=8.3700	DRY*100 =	84.00	15		
				(11.2600-1.2900)=9.9700	WET				
	525820	R2210337	ESMP	(10.1700-1.2600)=8.9100	DRY*100 =	87.90	18		
				(11.4000-1.2600)=10.1400	WET				
11	527275	R22 0	DUPE	(10.2800-1.2500)=9.0300	DRY*100 =	88.40	19		
				(11.4700-1.2500)=10.2200	WET				
12	525821	R2210337	ESMP	(9.6200-1.2500)=8.3700	DRY*100 =	79.60	23		
				(11.7700-1.2500)=10.5200	WET				
13	525822	R2210337	ESMP	(10.0700-1.3000)=8.7700	DRY*100 =	82.30	25		
				(11.9500-1.3000)=10.6500	WET				
14	525823	R2210337	ESMP	(10.0000-1.2700)=8.7300	DRY*100 =	86.90	26		
				(11.3200-1.2700)=10.0500	WET				
15	525828	R2210337	ESMP	(6.4100-1.3100)=5.1000	DRY*100 =	52.50	27		
				(11.0200-1.3100)=9.7100	WET				
16	525829	R2210337	ESMP	(8.2600-1.2700)=6.9900	DRY*100 =	67.10	29		
				(11.6800-1.2700)=10.4100	WET				
17	526025	R2210416	ESMP	(11.0400-1.2600)=9.7800	DRY*100 =	81.60	30		
				(13.2500-1.2600)=11.9900	WET				
18	526026	R2210416	ESMP	(9.4700-1.2700)=8.2000	DRY*100 =	81.20	32		
				(11.3700-1.2700)=10.1000	WET				
19	526027	R2210416	ESMP	(10.5500-1.2700)=9.2800	DRY*100 =	81.00	34		
				(12.7200-1.2700)=11.4500	WET				
20	526028	R2210416	ESMP	(9.8700-1.3100)=8.5600	DRY*100 =	85.10	44		
				(11.3700-1.3100)=10.0600	WET				
21	526208	R2210416	ESMP	(8.9200-1.2600)=7.6600	DRY*100 =	78.50	28		
				(11.0200-1.2600)=9.7600	WET				
22	526209	R2210416	ESMP	(6.0900-1.2600)=4.8300	DRY*100 =	48.20	35		
				(11.2700-1.2600)=10.0100	WET				
	527276	R22 0	DUPE	(6.3100-1.2700)=5.0400	DRY*100 =	48.40	45		
				(11.6900-1.2700)=10.4200	WET				
24	526210	R2210416	ESMP	(11.0800-1.2500)=9.8300	DRY*100 =	94.30	49		
				(11.6700-1.2500)=10.4200	WET				
25	526211	R2210416	ESMP	(9.2200-1.2500)=7.9700	DRY*100 =	81.90	50		
				(10.9800-1.2500)=9.7300	WET				

DATE PRINTED: 01/29/02

SOLIDS REPORT

RUN #: 73817 ANALYSIS DATE: 01/25/2002 ASSIGNED TO :
TEMPLATE: DWPS
TEST :

CUP#	ORDER #	SUBMISSION	CONTROL TYPE	GROSS(g) TARE(g) DIFF(g)		% SOLID	DISH ID	LS JOB#	LS LOC#
26	526212	R2210416	ESMP	(7.7000-1.2600)=6.4400	DRY*100 =	58.90	51		
				(12.2000-1.2600)=10.9400	WET				
27	526213	R2210416	ESMP	(9.0700-1.2600)=7.8100	DRY*100 =	77.00	52		
				(11.4000-1.2600)=10.1400	WET				
28	527277	R22 0	DUPE	(8.7100-1.2700)=7.4400	DRY*100 =	78.60	53		
				(10.7400-1.2700)=9.4700	WET				
29	526214	R2210416	ESMP	(9.8500-1.2600)=8.5900	DRY*100 =	85.50	56		
				(11.3100-1.2600)=10.0500	WET				
30	526215	R2210416	ESMP	(9.7000-1.2600)=8.4400	DRY*100 =	78.90	57		
				(11.9600-1.2600)=10.7000	WET				
31	526216	R2210416	ESMP	(10.2200-1.2900)=8.9300	DRY*100 =	79.60	59		
				(12.5100-1.2900)=11.2200	WET				
32	526217	R2210416	ESMP	(11.1500-1.3000)=9.8500	DRY*100 =	83.30	66		
				(13.1300-1.3000)=11.8300	WET				
33	526218	R2210416	ESMP	(10.0500-1.2600)=8.7900	DRY*100 =	84.00	64		
				(11.7200-1.2600)=10.4600	WET				
34	526219	R2210416	ESMP	(2.4000-1.3500)=1.0500	DRY*100 =	10.50	65		
				(11.3500-1.3500)=10.0000	WET				
	526220	R2210416	ESMP	(6.5500-1.2800)=5.2700	DRY*100 =	53.70	67		
				(11.0900-1.2800)=9.8100	WET				
36	526221	R2210416	ESMP	(8.4800-1.2400)=7.2400	DRY*100 =	74.80	68		
				(10.9200-1.2400)=9.6800	WET				
37	526222	R2210416	ESMP	(10.1600-1.2600)=8.9000	DRY*100 =	84.80	78		
				(11.7500-1.2600)=10.4900	WET				
38	526223	R2210416	ESMP	(4.4400-1.2600)=3.1800	DRY*100 =	31.80	84		
				(11.2700-1.2600)=10.0100	WET				
39	526504	R2210416	ESMP	(10.2500-1.2700)=8.9800	DRY*100 =	81.30	106		
				(12.3200-1.2700)=11.0500	WET				

Weight Percent Solids

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Analyst: GNITA

Date: 1/25/02 Time: 11:40 "S" weight initial: 2.01 final: 2.01

Order Number	Submission Client	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
ICB		1		Gross	1.26	
			1.25	Tare		
				Diff.		
525417	R-10345	7	11.34	Gross	9.86	
			1.26	Tare		
				Diff.		
418		8	12.46	Gross	11.17	
			1.30	Tare		
				Diff.		
418 DUP		10	12.18	Gross	10.81	
			1.26	Tare		
				Diff.		
525807	R-10337	11	11.41	Gross	10.31	
			1.27	Tare		
				Diff.		
816		12	11.86	Gross	10.34	used all mostly rocks
			1.27	Tare		
				Diff.		
814		13	11.14	Gross	~~9.05~~ 8.63	
			1.26	Tare		
				Diff.		
817		14	11.03	Gross	9.05	
			1.25	Tare		
				Diff.		

c:\1\1\g\forms\dwps.wk1

:y Weight Percent Solids

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Analyst: GNITA

Date: 1/25/02 Time: 11:40 "S" weight initial: 2.01 final: 2.01

Order Number	Submission Client	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
525 819		15	11.26	Gross	9.66	
			1.29	Tare		
				Diff.		
820		18	11.40	Gross	10.17	
			1.26	Tare		
				Diff.		
820 DUP		19	11.47	Gross	10.28	
			1.25	Tare		
				Diff.		
CCB		20	~~11.47~~ GN	Gross	1.25	
			1.26 Tare	Tare		
				Diff.		
525 821		23	11.77	Gross	9.62	
			1.25	Tare		
				Diff.		
822		25	11.95	Gross	10.07	
			1.30	Tare		
				Diff.		
823		26	11.32	Gross	10.00	
			1.27	Tare		
				Diff.		
828		27	11.02	Gross	6.41	
			1.31	Tare		
				Diff.		

c:\1\1\g\forms\dwps.wk1

Dry Weight Percent Solids

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Analyst: GN

Date: 01/25/02 Time: 11:40 "S" weight initial: 2.01 final: 2.01

Order Number	Submission Client	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
525829		29	11.68	Gross	8.26	
			1.27	Tare		
				Diff.		
526 090	GN 01/25/02			Gross		
				Tare		
				Diff.		
091				Gross		
				Tare		
				Diff.		
092				Gross		
				Tare		
				Diff.		
526 025	R-10416.	30	13.25	Gross	11.04	
			1.26	Tare		
				Diff.		
026		32	11.37	Gross	9.47	
			1.27	Tare		
				Diff.		
CCB		33		Gross	1.25	
			1.25	Tare		
				Diff.		
526 027		34	12.72	Gross	10.55	
			1.27	Tare		
				Diff.		

c:\1\1\g\forms\dwps.wk1

Dry Weight Percent Solids

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Analyst: GN

Date: 01/21/02 Time: 11.40 "S" weight initial: 2.01 final: 2.01

Order Number	Submission Client	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
526 028		44	11.37	Gross	9.87	
			1.31	Tare		
				Diff.		
526 208		28	11.02	Gross	8.92	
			1.26	Tare		
				Diff.		
209		35	11.27	Gross	6.09	
			1.26	Tare		
				Diff.		
209 DUP		45	11.69 GN 11/20	Gross	6.31	
			1.27	Tare		
				Diff.		
210		49	11.67	Gross	11.08	
			1.25	Tare		
				Diff.		
211		50	10.98	Gross	9.22	
			1.25	Tare		
				Diff.		
212		51	12.20	Gross	7.70	
			1.26	Tare		
				Diff.		
213		52	11.40	Gross	9.07	
			1.26	Tare		
				Diff.		

c:\1\1\g\forms\dwps.wk1

ry Weight Percent Solids

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Analyst: GN

Date: 1/28/02 Time: 11:40 "S" weight initial: 2.01 final: 2.01

Order Number	Submission Client	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
213 DUP		53	10.74	Gross	8.71	
			1.27	Tare		
				Diff.		
CCB		55		Gross	1.30	
			1.30	Tare	1.30	
				Diff.		
526 214		56	11.31	Gross	9.85	
			1.26	Tare		
				Diff.		
215		57	11.96	Gross	9.70	
			1.26	Tare		
				Diff.		
216		59	12.51	Gross	10.22	
			1.29	Tare		
				Diff.		
217		66	13.13	Gross	11.15	
			1.30	Tare		
				Diff.		
218		64	11.72	Gross	10.05	
			1.26	Tare		
				Diff.		
219		65	11.35	Gross	2.40	
			1.35	Tare		
				Diff.		

c:\l\l\g\forms\dwps.wkl

ry Weight Percent Solids

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Analyst: GN

Date: 01/25/02 Time: 11:40 "S" weight initial: 2.01 final: 2.01

Order Number	Submission Client	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
526220		67	11.09	Gross	6.55	
			1.28	Tare		
				Diff.		
221		68	10.92	Gross	8.48	
			1.24	Tare		
				Diff.		
222		78	11.785	Gross	10.16	
			1.26	Tare		
				Diff.		
223		84	11.27	Gross	4.44	
			1.26	Tare		
				Diff.		
CCB		98		Gross	1.27	
			1.27	Tare		
				Diff.		
504		106	12.32	Gross	10.25	
			1.27	Tare		
				Diff.		
CCB		143		Gross	1.21	
			1.26	Tare		
				Diff.		
	GN 1/25/02			Gross		
				Tare		
				Diff.		

c:\1\1\g\forms\dwps.wk1

Columbia Analytical Services
1 Mustard St., Rochester, NY 14608-0859

General Chemistry Analytical Run Cover Sheet

Analyst: GNITM Date: 1/25/02.

Analysis: DRY WEIGHT PERCENT SOLIDS. Instrument: AMERICAN SCIENTIFIC PRODUCTS.

Quality Control:

	Log Book #	Log Book Date	Stock Sol (m/Ls)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:						
b) I/CCV Preparation:						
c) LCS Preparation:						
d) Matrix Spike Prep.:						

Instrument log filled in? (Y) (N)

Comments:

Packages:

a) Chains Signed? (Y) (N)

b) Copy and attach Standards Preparation.

Production:

	Start Time	End Time	Total (minutes)
Preparation Time :			
Analytical Time:			
Finish Time:			

# of Samples (including Mtx QC): _____
Repeats due to Sample: _____
Repeats due to Error: _____

Comments:

c:\greg\forms\cover2.tmp