02.08-10/01/96-01739

Contractor's Closeout Report

Underground Storage Tank Removals at Building 25 MCB Camp Lejeune Jacksonville, North Carolina

Contract No. N62470-93-D-3032
Delivery Order 0078

Volume II of IV

Submitted to

Department of the Navy
Atlantic Division
Naval Facilities Engineering Command
Norfolk, VA

Submitted by

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

5335 Triangle Parkway, Suite 450
Norcross, GA 30092

October 1996

OHM Project No. 17418

02.08-10/01/96-01739

Appendix C

Waste Manifests

SENT BY: 9- 7-96 ; 4:55PM ; 9104511809:#11/11

OFFICIAL

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Act 64 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 Act 136, P.A. 1969.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NC 6 1 1 7 0 6 1 2 1 5 8 | Manifest Document No. 0 1 2 7 4
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Camp Lejeune
U.S. Marine Corps Base
Camp Lejeune, N.C. 28542
Commanding General
Attn: Environmental Management Div.
Bldg. Tom Harris

4. Generator's Phone (910) 451-5068

A. State Manifest Document Number: MI 4219781
B. State Generator's ID:

5. Transporter 1 Company Name: Robbie D Wood, Inc
6. US EPA ID Number: A I D 0 6 1 7 1 1 3 8 2 8 9 1 1
C. State Transporter's ID:
D. Transporter's Phone: (205) 744-2

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Michigan Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111
10. US EPA ID Number: M I D 0 1 0 1 0 7 2 1 4 8 3 1 1
G. State Facility's ID:
H. Facility's Phone: (313) 699-7120

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X RQ HAZARDOUS WASTE SOLID, N.O.S. (Trichloroethylene, Tetrachloroethylene), 9, NA3077, PG III (U228, U210)	2 DM		0 1 0 0	T	D 0 4 0
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
A. Please Also Add U.S. EPA Waste Code U228
Approval # 122295 MD 173945

K. Handling Codes for Wastes Listed Above: a) 1 b) 1 c) 1 d) 1

15. Special Handling Instructions and Additional Information: If spill occurs Refer to E.R. Guide Book #171
24 Hr Emergency # (800) 424-9300

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date (Month Day Year)
T S MORRIS		0 1 1 2 9 6

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
Kenneth J. Donaldson		0 1 1 2 9 6

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space
N/A

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
James M Conas Jr		0 1 1 1 9 6

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

GENERATOR — TRANSPORTER — FACILITY

EPA Form 8700-22 (Rev. 9/88)

SENT BY: 2-7-96 4:52PM 0104511609 # 8/11

CH NA

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO ~~NOT~~ WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Act 64, P.A. 1979, as amended and Act 138, P.A. 1989.

Failure to file is punishable under section 299.548 MCL or Section 13 of Act 138, P.A. 1989.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: MC6170022580 — Manifest Document No.: 01275
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address:
Camp LeJeune, U.S. Marine Corps Base, Camp LeJeune, N.C. 28542
Commanding General, AC/S Environmental Mgmt. Dept., Attn. Tom Morris
4. Generator's Phone (910) 451-5068

A. State Manifest Document Number: MI 4219780
B. State Generator's ID

5. Transporter 1 Company Name: Robbie D. Wood, Inc.
6. US EPA ID Number: AL0006791 3 8891
C. State Transporter's ID
D. Transporter's Phone (205) 744-244

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address:
Michigan Disposal, Inc., 49350 N. I-94 Service Drive, Belleville, MI 48111
10. US EPA ID Number: MID000724831
G. State Facility's ID
H. Facility's Phone (313) 699-7120

HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. X	RQ Hazardous waste solid, N.O.S. (Trichloroethylene, Tetrachloroethylene), 9, NA3077, PG III (U210, U228)	001	DT	023483	P	U210 H
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above:
A. Please Also Add U.S. EPA waste code U228
Approval # 122295 MOI

K. Handling Codes for Wastes Listed Above
a/ b/ c/ d/

15. Special Handling Instructions and Additional Information: If spill occurs refer to ER. Guide Book # 31
24 Hr Emergency # (800) 424-9300

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: TS MORRIS — Signature: [signature] — Date (Month Day Year): 01 12 96

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Richard Hayes — Signature: [signature] — Date (Month Day Year): 01 12 96

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: James M Combs Jr — Signature: [signature] — Date (Month Day Year): 01 15 96

GENERATOR / TRANSPORTER / FACILITY

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

Offset

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of [illegible] 1979, as amended and Act 136, [illegible] 1969.

Failure to file is punishable under section 299.548 MCL or Section [illegible] Act 136, P.A. 1969

Please print or type.

Form Approved. OMB No. 2050-0039 Expire

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NC 6 1 1 7 0 1 0 2 2 5 8 — Manifest Document No. 0 1 2 7 1 6

2. Page 1 of 1

Information in the shaded a is not required by Fe law.

3. Generator's Name and Mailing Address
CAMP LEJEUNE
U.S. MARINE CORPS BASE
CAMP LEJEUNE, NC 28542

4. Generator's Phone (910) 451-3068

A. State Manifest Document Number MI 4219782

B. State Generator's ID

5. Transporter 1 Company Name
ROBERT D. WOOD, INC.

6. US EPA ID Number A L 0 0 6 7 1 3 8 8 9 V

C. State Transporter's ID

D. Transporter's Phone (3-[illegible]

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Michigan Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111

10. US EPA ID Number M I D 0 1 0 7 2 1 4 8 3 1

G. State Facility's ID

H. Facility's Phone (313) 699-7170

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X RQ HAZARDOUS WASTE SOLID, N.O.S. (Tetrachloroethylene), 9, NA 3077, PG III (U210), 6228	0 1 0 1	D T	0 2 3 1 5	T	U 2 1 0
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
A. Please Also Add U.S. EPA Waste code D228
Approval # 22295-MO

K. Handling Codes for Wastes Listed Above
a/
b/
c/
d/

15. Special Handling Instructions and Additional Information IF Spill occurs Refer to ER Guide But "a" 24 HR. Emergency (313) 421-7300

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by Highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determ to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my w generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name T S MORRIS — Signature — Date Month Day 0 1 1 2

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name GENE PARKER — Signature — Date Month Day 0 1 1 2

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date Month Day

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name JAMES A VIGNOS JR — Signature — Date Month Day 0 1 1 5

GENERATOR

TRANSPORTER

FACILITY

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

SENT BY: 2- 7-96 ; 4:30PM ; 9104511808;# 8/11

ORIG

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Act 64, 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 Act 136, P.A. 1969.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NC6170022580
Manifest Document No.: 01737
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: Camp LeJeune, U.S. Marine Corps Base, Camp LeJeune N.C. 28542 — Commanding General, AC/S Environmental Mgt Dept, Attn: Tom Morris

4. Generator's Phone (910) 451-5068

A. State Manifest Document Number: MI 4219783

B. State Generator's ID

5. Transporter 1 Company Name: Rollins Disposal Inc.

6. US EPA ID Number: NJD053288239

C. State Transporter's ID

D. Transporter's Phone (...) 794-...

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: Michigan Disposal, Inc., 49350 N. I-94 Service Drive, Belleville Michigan 48111

10. US EPA ID Number: MID000724831

G. State Facility's ID

H. Facility's Phone (313) 699-7120

	HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ Hazardous Waste solid, N.O.S (Trichloroethylene, Tetrachloroethylene), 9, NA3077, PG-III (...)	001	DT	00206	T	U210
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above

A. Please also Add U.S EPA code U228

Approval #122295 MO

174096

K. Handling Codes for Wastes Listed Above: a/ b/ c/ d/

15. Special Handling Instructions and Additional Information: IF spill occurs, Refer to ER Guidebook (a)31 24 Hour Emergency Response ...

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date Month Day Year
T S Morris	[signature]	01 16 9...

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year
Donald R McDaniel	Donald R McDaniel	01 16 9...

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year

19. Discrepancy Indication Space

Haz on

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date Month Day Year
James M Combs	[signature]	01 17 9...

GENERATOR / TRANSPORTER / FACILITY

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

0111U1

DNR
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NC6170022580 Manifest Document No. 01290
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Camp LeJeune
U.S Marine Corps Base
Camp LeJeune NC 28542
Commanding General
AC/S Environmental Mgmt. Dept.
ATTN Tom Morris
4. Generator's Phone (919) 451-5068

A. State Manifest Document Number MI 4219784
B. State Generator's ID

5. Transporter 1 Company Name: Robbie D. Wood Inc
6. US EPA ID Number: ALD0671313891
C. State Transporter's ID
D. Transporter's Phone (205) 794-8

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Michigan Disposal, Inc.
49350 N. I-94 Service Drive
Belleville MI 48111
10. US EPA ID Number: MID000724831
G. State Facility's ID
H. Facility's Phone (313) 699-712

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER) HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X RQ Hazardous waste solid, N.O.S (Tetrachloroethylene, Trichloroethylene), 9, NA3077, PGIII (U210, U228)	001	DT	00135	T	U210 H
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
A. Please Also Add U.S EPA waste Code U228
Approval #122595 MO

K. Handling Codes for Wastes Listed Above
a/ b/ c/ d/

15. Special Handling Instructions and Additional Information: If spill occurs, Refer to ER. Guidebook #(a)31
24 HR Emergency Response # (...) 454-...
174095

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: T S Morris | Signature: [signature] | Date Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: A.T Gandy | Signature: [signature] | Date Month Day Year 01 1 . 6

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date Month Day Year

19. Discrepancy Indication Space
Haz om

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible] Morris | Signature: [signature] | Date Month Day Year

GENERATOR / TRANSPORTER / FACILITY

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

OH M

DNR
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Act 64, 1979, as amended and Act 136, P.A. 1969.

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Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NC6170022580 Manifest Document No. 01282
2. Page 1 of
Information in the shaded areas is not required by law.

3. Generator's Name and Mailing Address
Camp LeJeune
U.S. Marine Corps Base
Camp LeJeune, NC 28542
Commanding General
AC/S Environmental Mgmt Dept.
ATTN: Tom Morris
4. Generator's Phone (910) 451-5068

A. State Manifest Document Number MI 4219786
B. State Generator's ID

5. Transporter 1 Company Name: Robbie D. Wood
6. US EPA ID Number: ALD067138891
C. State Transporter's ID
D. Transporter's Phone (205) 744-3...

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Michigan Disposal, Inc
49350 N. I-94 Service Drive
Belleville, MI 48111
10. US EPA ID Number: MID000724831
G. State Facility's ID
H. Facility's Phone (313) 699-7120

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous Waste Solid, N.O.S. (Techloroethylene, Tetrachloroethylene), 9, NA3077, PG III (U211, U228)	X	001	DT	23,332	T	U211 ...
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
A. Please Also U.S. EPA Waste Code U228
Approximately 235 ... 1740...

K. Handling Codes for Wastes Listed Above
a/ b/ c/ d/

15. Special Handling Instructions and Additional Information: If spill occurs, ... 24 hour Emergency ...

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name	Signature	Date Month Day Year
T. Morris	[signature]	01 16 9...

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year
Lance Myrick	[signature]	01 16 ...

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date Month Day Year
James M Combs Jr	[signature]	01 1...

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

CUSTOMER COPY

ENVOTECH
SERVICES INC.
1349 HURON
Ypsilanti, Michigan 48197

Office: (313)485-6464
I-94 Landfill (313)697-7830

SURCHARGE APPLIED
JAV

WRITTEN BY: DATE: 1/15/96

ACCT. NAME: OHM - ATLANTA - DOD

ACCOUNT NUMBER: 2449 SHORT NAME: OHMDOD

CODE: U228 - T - QUANTITY: 24

Approval # 122295-MD
EPA# NC6170022580

REMARKS: MARINE CORP
Manifest # MI4219780
Hauler R.D.WOOD-BAM
Time In 10:17 AM Time Out 11:40 AM
G- 78,480 T- 30,640 N- 47,840

I understand and acknowledge that entry is permitted only at my own risk. I, both personally and on behalf of my employer release Wayne Disposal, Inc. and/or Michigan Disposal, Inc. from any and all liability not caused by its gross negligence or willful misconduct.

Ticket # 173949

DELIVERED BY

NO SALVAGING ON PREMISES

CUSTOMER COPY

ENVOTECH
SERVICES INC.
1349 HURON
Ypsilanti, Michigan 48197

Office: (313)485-6464
I-94 Landfill (313)697-7830

SURCHARGE APPLIED
JAV

WRITTEN BY: DATE: 1/15/96

ACCT. NAME: OHM - ATLANTA - DOD

ACCOUNT NUMBER: 2449 SHORT NAME: OHMDOD

CODE: U228 - T - QUANTITY: 23

Approval # 122295-MD
EPA# NC6170022580

REMARKS: MARINE CORP
Manifest # MI4219782
Hauler R.D.WOOD-BAM
Time In 10:23 AM Time Out 12:21 PM
G- 77,640 T- 31,260 N- 46,380

I understand and acknowledge that entry is permitted only at my own risk. I, both personally and on behalf of my employer release Wayne Disposal, Inc. and/or Michigan Disposal, Inc. from any and all liability not caused by its gross negligence or willful misconduct.

Ticket # 173953

DELIVERED BY

NO SALVAGING ON PREMISES

CUSTOMER COPY

ENVOTECH
SERVICES INC.
1349 HURON
Ypsilanti, Michigan 48197

Office: (313)485-6464
I-94 Landfill (313)697-7830

SURCHARGE EXEMPT

WRITTEN BY: JMC DATE: 1/15/96

ACCT NAME: DHM - ATLANTA - DOD

ACCOUNT NUMBER: 2449 SHORT NAME: DHMDOD

CODE: U228 - T - QUANTITY: 25

Approval # 122895-MI

EPA# NC6170022580

REMARKS: MARINE CORP
Manifest # MI4219781
Hauler R.D.WOOD-BAM
Time In 7:00 AM Time Out 10:11 AM
G- 78,780 T- 28,160 N- 50,620

I understand and acknowledge that entry is permitted only at my own risk. I, both personally and on behalf of my employer release Wayne Disposal, Inc. and/or Michigan Disposal, Inc. from any and all liability not caused by its gross negligence or willful misconduct.

Ticket # 173945

DELIVERED BY

NO SALVAGING ON PREMISES

CUSTOMER COPY

ENVOTECH
SERVICES INC.
1349 HURON
Ypsilanti, Michigan 48197

Office: (313)485-6464
I-94 Landfill (313)697-7830

SURCHARGE EXEMPT

WRITTEN BY: JMC DATE: 1/17/96

ACCT NAME: DHM - ATLANTA - DOD

ACCOUNT NUMBER: 2449 SHORT NAME: DHMDOD

CODE: U228 - T - QUANTITY: 22

Approval # 122895-MI

EPA# NC6170022580

REMARKS: MARINE CORP
Manifest # MI4219783
Hauler R.D.WOOD-BAM
Time In 9:00 AM Time Out 9:46 AM
G- 76,860 T- 32,520 N- 44,340

I understand and acknowledge that entry is permitted only at my own risk. I, both personally and on behalf of my employer release Wayne Disposal, Inc. and/or Michigan Disposal, Inc. from any and all liability not caused by its gross negligence or willful misconduct.

Ticket # 174096

DELIVERED BY

NO SALVAGING ON PREMISES

CUSTOMER COPY

ENVOTECH
SERVICES INC.
1349 HURON
Ypsilanti, Michigan 48197

Office: (313)485-6464
I-94 Landfill (313)697-7830

SURCHARGE EXEMPT

WRITTEN BY: JMC DATE: 1/17/96

ACCT. NAME: OHM - ATLANTA - DOD

ACCOUNT NUMBER: 2449 SHORT NAME: OHMDOD

CODE: U220 - T - QUANTITY: 24
Approval # 122295-MI
EPA# NC6170022580

REMARKS: MARINE CORP
Manifest # MI4219784
Hauler R.D.WOOD-8AM
Time In 8:56 AM Time Out 9:40 AM
G- 76,960 T- 29,780 N- 47,180

I understand and acknowledge that entry is permitted only at my own risk. I, both personally and on behalf of my employer release Wayne Disposal, Inc. and/or Michigan Disposal, Inc. from any and all liability not caused by its gross negligence or willful misconduct.

Ticket # 174095

DELIVERED BY

NO SALVAGING ON PREMISES

CUSTOMER COPY

ENVOTECH
SERVICES INC.
1349 HURON
Ypsilanti, Michigan 48197

Office: (313)485-6464
I-94 Landfill (313)697-7830

SURCHARGE EXEMPT

WRITTEN BY: JMC DATE: 1/17/96

ACCT. NAME: OHM - ATLANTA - DOD

ACCOUNT NUMBER: 2449 SHORT NAME: OHMDOD

CODE: U220 - T - QUANTITY: 22
Approval # 122295-MI
EPA# NC6170022580

REMARKS: U.S. MARINE CORP
Manifest # MI4219784
Hauler R.D.WOOD-8AM
Time In 8:54 AM Time Out 9:37 AM
G- 76,760 T- 29,860 N- 46,900

I understand and acknowledge that entry is permitted only at my own risk. I, both personally and on behalf of my employer release Wayne Disposal, Inc. and/or Michigan Disposal, Inc. from any and all liability not caused by its gross negligence or willful misconduct.

Ticket # 174094

DELIVERED BY

NO SALVAGING ON PREMISES

2500 Broening Highway Baltimore, MD 21224

Waste Program

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form approved OMB No. 2050-0039 Expires 9/30/96

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID NO. NC6170022580
Manifest Document No. 01273
2. Page 1 of 01

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number MDC 0542223

3. Generator's Name and Mailing Address: CAMP LEJEUNE, U.S. MARINE, CAMP LEJEUNE NC 28542 — Commanding General, AC/S Environmental Dept., Attn. Tom Morris

B. State Generator's ID Number: SAME

4. Generator's Phone (910) 451-5068

C. State Transporter's ID HWH 0160

5. Transporter 1 (Company Name): Clean Harbors Env. Services, Inc.

6. US EPA ID Number: MAD039322250

Vehicle Sticker Number 96A2321 DC WM

D. Transporter's Phone 617 849-1800

7. Transporter 2 (Company Name)

8. US EPA ID Number

E. State Transporter's ID HWH

Vehicle Sticker Number A DC

F. Transporter's Phone

9. Designated Facility Name and Site Address: Clean Harbors of Baltimore, Inc., 1910 Russell St., Baltimore, MD 21230

10. US EPA ID Number: MDD980555189

G. State Facility ID: 8151

H. Facility's Phone: 410-244-8200

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ HAZARDOUS WASTE, liquid, N.O.S. (Dichlorobenzene) 9, NA3082, PG III	001	TT	003180	G	U210
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above

	HAZ CODE	Physical State	Specific Gravity	Percentage		HAZ CODE	Physical State	Specific Gravity	Percentage	K. Handling Codes for Wastes Listed Above
a.	XT	LS	01.10	100 %	c.				%	a. T11 c.
b.				%	d.				%	b. d.

15. Special Handling Instructions and Additional Information: Prof. 10 PC HD13191 [illegible]

1a. Please Add US EPA waste code D040 [illegible]

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and Maryland Statutes or Regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: T S Morris — Signature: [signature] — Date: 011796

17. Transporter 1 (Acknowledgement of Receipt of Materials)
Printed/Typed Name: J. Michael LUNSFORD — Signature: [signature] — Date: 011796

18. Transporter 2 (Acknowledgement of Receipt of Materials)
Printed/Typed Name — Signature — Date

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible] — Signature: [signature] — Date: [illegible]

EPA Form 8700-22 (10/86)
Previous editions are obsolete.

COPY 4 — FACILITY: DETACH & RETAIN THIS COPY FOR YOUR RECORDS

MDC0542223

In case of an emergency or spill, immediately call the National Response Center at (800) 424-8802 and the MDE at (410) 631-3400. Nights and Holidays at (410) 631-3551

June 20, 1996

To: Commanding General
(Attn: AC/S EMD/Tom Morris)
Marine Corps Base
PSC Box 20004
Camp, LeJeune, NC 28542-0004

This letter is to certify that BFI/Sampson County Disposal, Inc., accepted Tanks, Scrap Metal from Building #25, Camp LeJeune, N.C.

Sincerely,

Shirley A. Robinson

Shirley A. Robinson
Inside Sales Representative

Appendix D

Disposal Certification

THE ENVIRONMENTAL QUALITY COMPANY

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # MI 4219780 have been properly disposed of in accordance with all local, state and federal regulations. "Disposed of" means either: 1) Burial, or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME: (Check One) ☒ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831) ☐ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Belleville, Michigan

PHONE NUMBER: 1-800-592-5489

Should you have any questions or require additional information, please feel free to contact this office.

Very truly yours,

EQ - THE ENVIRONMENTAL QUALITY CO.

Signed: Pamela Ridder
(Authorized Signature)

Pamela Ridder

THE ENVIRONMENTAL QUALITY COMPANY

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # MI 4219781 have been properly disposed of in accordance with all local, state and federal regulations. "Disposed of" means either: 1) Burial, or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME: (Check One) ☒ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724331) ☐ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Belleville, Michigan

PHONE NUMBER: 1-800-592-5489

Should you have any questions or require additional information, please feel free to contact this office.

Very truly yours,

EQ - THE ENVIRONMENTAL QUALITY CO.

Signed: Pamela Ridder
(Authorized Signature)

Pamela Ridder

THE ENVIRONMENTAL QUALITY COMPANY

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # M14219782 have been properly disposed of in accordance with all local, state and federal regulations. "Disposed of" means either: 1) Burial, or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME: *(Check One)* ☒ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831) ☐ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Belleville, Michigan

PHONE NUMBER: 1-800-592-5489

Should you have any questions or require additional information, please feel free to contact this office.

Very truly yours,

EQ - THE ENVIRONMENTAL QUALITY CO.

Signed: Pamela Ridder
(Authorized Signature)

Pamela Ridder

THE ENVIRONMENTAL QUALITY COMPANY

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # MI 4219783 have been properly disposed of in accordance with all local, state and federal regulations. "Disposed of" means either: 1) Burial, or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME: *(Check One)* ☐ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831) ☐ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Belleville, Michigan

PHONE NUMBER: 1-800-592-5489

Should you have any questions or require additional information, please feel free to contact this office.

Very truly yours,

EQ - THE ENVIRONMENTAL QUALITY CO.

Signed: Pamela Ridder
(Authorized Signature)
Pamela Ridder

THE ENVIRONMENTAL QUALITY COMPANY

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # MI4219784 have been properly disposed of in accordance with all local, state and federal regulations. "Disposed of" means either: 1) Burial, or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME: *(Check One)* ☒ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831) ☐ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Belleville, Michigan

PHONE NUMBER: 1-800-592-5489

Should you have any questions or require additional information, please feel free to contact this office.

Very truly yours,

EQ - THE ENVIRONMENTAL QUALITY CO.

Signed: Pamela Ridder
(Authorized Signature)

Pamela Ridder

THE ENVIRONMENTAL QUALITY COMPANY

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # MI 4219786 have been properly disposed of in accordance with all local, state and federal regulations. "Disposed of" means either: 1) Burial, or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME: *(Check One)* [X] Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831) [ ] Wayne Disposal, Inc. (EPA I.D. # MIC048090633)

ADDRESS: 49350 N. I-94 Service Drive
Belleville, Michigan

PHONE NUMBER: 1-800-592-5489

Should you have any questions or require additional information, please feel free to contact this office.

Very truly yours,

EQ - THE ENVIRONMENTAL QUALITY CO.

Signed: Pamela Ridder
(Authorized Signature)

Pamela Ridder

CLEAN HARBORS OF BALTIMORE
1915 RUSSELL ST
BALTIMORE, MD 21230-3144

EPA/State ID No: MDD980555169

Certificate of Treatment/Disposal - Storage and Transfer

MDD042227

The above described waste, received by CLEAN HARBORS OF BALTIMORE (Clean Harbors) pursuant to the manifest(s) identified above, has been treated and/or disposed of by Clean Harbors, or another licensed facility approved by Clean Harbors, in accordance with applicable federal and state laws and regulations.

Any waste received by Clean Harbors and subsequently shipped to another licensed facility for treatment and/or disposal has been or shall be identified as being generated by CLEAN HARBORS OF BALTIMORE in accordance with 40 CFR 264.71(c).

CLEAN HARBORS OF BALTIMORE

By: Robin Vernon

Its: WITS Supervisor

Date: 5-3-96

MAY-03-1996 10:23

P.03

BUILDING 906
CAMP LEJEUNE NC 28542-580
NC6170022580
For Manifest Dates 01/15/96 To 01/15/96 as of 05/03/96

Manifest # & Date: MDC0542223 01/15/96

Line Item: 11A Profile #: CH013891 Manifested Quantity: 1 TT 3180 G

Drum#	CHI Code	Date processed	TSDF	Manifest#	Disposal method	Container Size	BPA ayo Type code
763237	A24	01/15/96	CHI BA CBS	CLHAN EXT	CO2 EXTRACTION	3180 G	M085

Total Records Printed : 1

Robbie D. Wood, Inc.

P.O. BOX 125 DOLOMITE, ALABAMA 35061

PHONE (205) 744-8440
FAX (205) 744-5151

June 19. 1996

To: Steve Grant OHM

Fm: Doug Carothers RDW

Confirming our telephone conversation this morning, as a matter of policy, all waste materials transported in our roll-off boxes and end dump trailers are transported with liners in place. This is to prevent the unknowing and unintentional contamination of our equipment.

The loads of waste material taken from Camp LeJune on manifest numbers MI 4219780, 4219781, 4219782, 4219783, 4219784, and 4219786 were transported to Belleville, MI in polyethylene lined trailers.

Please let me know if I can provide you with additional information or otherwise be of service in this matter.

Sincerely,

Douglas R. Carothers

CLEAN HARBORS OF BALTIMORE
1313 RUSSELL ST
BALTIMORE, MD 21230-3144

EPA/State ID No: MDC980555183

Certificate of Treatment/Disposal - Storage and Transfer

MDC0542227

The above described waste, received by CLEAN HARBORS OF BALTIMORE (Clean Harbors) pursuant to the manifest(s) identified above, has been treated and/or disposed of by Clean Harbors, or another licensed facility approved by Clean Harbors, in accordance with applicable federal and state laws and regulations.

Any waste received by Clean Harbors and subsequently shipped to another licensed facility for treatment and/or disposal has been or shall be identified as being generated by CLEAN HARBORS OF BALTIMORE in accordance with 40 CFR 264.71(c).

CLEAN HARBORS OF BALTIMORE

By: Robin Vernon

Its: WITS Supervisor Date: 5-3-96

Clean Harbors®
ENVIRONMENTAL SERVICES, INC.
1910 RUSSELL STREET • BALTIMORE, MD 21230
(410) 244-8200 • FAX (410) 685-3081

July 9, 1996

OHM Remediation Services Corporation
5335 Triangle Parkway Suite 450
Norcross, GA 30092

RE: Camp Lejuene

ATTN.: Kieth G. Robinson

Dear Kieth,

On January 1, 1996 Clean Harbors transported from United States Marine Corp's Camp Lajeune Jacksonville, NC 3180 gallons of chlorinated contaminated water on a 5,000 gallon vacuum tractor trailer. The material was manifested to Clean Harbors of Baltimore for disposal.

At Clean Harbors standard procedure require all trucks be rinsed out in between each load. This procedure was performed for manifest number MDC0542223 generated at Camp Lejeune.

Also, it should be noted that all work was performed in strict compliance with all Clean Harbors safety standards. Furthermore, all disposal was conducted in accordance with all applicable state and federal laws and regulations.

If you have any questions, please do not hesitate to call me at 1-800-366-8838.

Sincerely,

Pierre Cassagnol
Regional Account Manager
Industrial Service Companies

Appendix E

QC Documentation

PRECONSTRUCTION MEETING
CAMP LEJEUNE MCB
DELIVERY ORDER 78
SEPTEMBER 18, 1995

Attendees: Jim Dunn, OHM
Alan Whitt, OHM
Vann Marshburn, ROICC
Lt. Hansen, ROICC
Neal Paul, EMD
Fire Department

A Preconstruction Meeting was held on September 18, 1996 for D.O. 078 at 1300 hours at the ROICC offices. The ensuing notes are the topical items discussed during the meeting.

- Utilities are scheduled to be located today.
- ROICC will E-Mail letter to the facilities to schedule a meeting on Friday with Building 25 employees and the Chaplin.
- OHM will have to block the parking lot, but will return it as soon as possible.
- OHM will continuously monitor the excavation and the perimeter with a FID for airborne emissions.
- OHM will possibly pump the tank contents at night or on the weekend.

Respectfully Submitted,
OHM Remediation Services Inc.

Alan Whitt
Project Supervisor

12.1
All 1013 ✓

QC MEETING MINUTES
NAVY LANTDIV CONTRACT N62470-93-D-3032
MCB CAMP LEJEUNE

August 1, 1995

Attendees:	Vann Marshburn	ROICC
	John Cotton	ROICC
	Neal Paul	IRD/EMD
	Jim Dunn	OHM Project Manager
	Randy Smith	OHM Superintendent
	Mike Haugen	OHM Project Accountant
	Dave Mueller	OHM Project Accountant
	Ed Baker	SWEC QC

A QC Meeting was conducted at 1300 hours in conjuction with a review of Camp Lejeune Delivery Order production activities. The following are the minutes from this meeting for each delivery order.

CC: LANTDIV (Jerry Haste, Code 0524)
LANTDIV (Katherine Landman, Code 18232)
LANTDIV (Lance Laughmiller)
QC Manager (Mike Gilman)

D.O. 78

1. Jim stated that Work Plans were submitted to LANTDIV for review last week. Correct schedule is for the Phase I investigation to commence late August.

PRECONSTRUCTION MEETING
CAMP LEJEUNE MCB
DELIVERY ORDER 78
SEPTEMBER 18, 1995

Attendees: Jim Dunn, OHM
Alan Whitt, OHM
Vann Marshburn, ROICC
Lt. Hansen, ROICC
Neal Paul, EMD
Fire Department

A Preconstruction Meeting was held on September 18, 1996 for D.O. 078 at 1300 hours at the ROICC offices. The ensuing notes are the topical items discussed during the meeting.

- Utilities are scheduled to be located today.
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- OHM will have to block the parking lot, but will return it as soon as possible.
- OHM will continuously monitor the excavation and the perimeter with a FID for airborne emissions.
- OHM will possibly pump the tank contents at night or on the weekend.

Respectfully Submitted,
OHM Remediation Services Inc.

Alan Whitt
Project Supervisor

QC MEETING MINUTES
NAVY LANTDIV CONTRACT N62470-93-D-3032
MCB CAMP LEJEUNE

October 3, 1995

Attendees:	Vann Marshburn	ROICC
	John Cotton	ROICC
	Lt Cheryl Hansen	ROICC
	Neal Paul	IRD/EMD
	Alan Whitt	OHM Superintendent

A QC Meeting was conducted at 1300 hours in conjunction with a review of Camp Lejeune Delivery Order production activities. The following are the minutes from this meeting for each delivery order.

CC: LANTDIV (Jerry Haste, Code 0524)
LANTDIV (Katherine Landman, Code 18232)
LANTDIV (Lance Laughmiller)
QC Manager (Mike Gilman)

D.O. 78

1. Vann asked if analytical results were in yet. Alan said OHM has received preliminary results from PACE LABS which are currently being reviewed by the Norcross office.

QC MEETING MINUTES
NAVY LANTDIV CONTRACT N62470-93-D-3032
MCB CAMP LEJEUNE

October 17, 1995

Attendees:		
	Vann Marshburn	ROICC
	John Cotton	ROICC
	Lt. Cheryl Hansen	ROICC
	Jim Dunn	OHM
	Alan Whitt	OHM

A QC Meeting was conducted at 1300 hours in conjunction with a review of Camp Lejeune Delivery Order production activities. The following are the minutes from this meeting for each delivery order.

CC: LANTDIV (Jerry Haste, Code 0524)
LANTDIV (Katherine Landman, Code 18232)
LANTDIV (Lance Laughmiller)
QC Manager (Mike Gilman)

D.O. 78

1. J. Dunn said that OHM is requesting quotes from disposal firms.

2. V. Marshburn said that he wants to meet tomorrow with OHM and N. Paul concerning whether OHM should chase contaminated soil when excavation begins.

Jim Dunn

12.1

QC MEETING MINUTES
NAVY LANTDIV CONTRACT N62470-93-D03032
MCB CAMP LEJEUNE

October 24, 1995

Attendees:		
	Vann Marshburn	ROICC
	Lt. Cheryl Hanson	ROICC
	John Cotton	ROICC
	Alan Whitt	OHM Site Superintendent
	Randy Smith	OHM Supervisor
	Chuck Lawrence	SWEC QC

A QC Meeting was conducted at 1300 hours in conjunction with a review of Camp Lejeune Delivery Order production activities. The following are the minutes from this meeting for each delivery order.

Chuck Lawrence

CC: LANTDIV (Jerry Haste, Code 0524)
LANTDIV (Katherine Landman, Code 18232)
LANTDIV (Lance Laughmiller)
Jim Dunn (OHM Proj Mngr)
Chuck Lawrence (SWEC QC)
Mike Gilman (SWEC QC Manager)

D.O. 78 - Job 17418 - Remove 5-9 UST's Containing TCE

1) Alan stated that OHM expected quotes back from the disposal facilities by 10/25/95.

2) Vann stated that this job was originally negotiated for the removal of 11 tanks and minimum soil. Additional testing may be required. It was agreed that OHM and the ROICC would review the issue of "chasing" contamination at another time.

3) OHM expects to begin removal of the tanks in about 3 - 4 weeks, if possible.

QC MEETING MINUTES
NAVY LANTDIV CONTRACT N62470-93-D-3032
MCB CAMP LEJEUNE

November 1, 1995

Attendees:	Vann Marshburn	ROICC
	John Cotton	ROICC
	Neal Paul	ROICC
	Jim Dunn	OHM
	Alan Whitt	OHM
	Randy Smith	OHM

A QC Meeting was conducted at 1300 hours in conjunction with a review of Camp Lejeune Delivery Order production activities. The following are the minutes from this meeting for each delivery order.

CC: LANTDIV (Jeryy Haste, Code 0524)
LANTDIV (Katherine Landman, Code 18232)
LANTDIV (Lance Laughmiller)
QC Manager (Mike Gilman)

D. O. 78

- J. Dunn said that T&D quotes for the tank contents and soils are being reviewed by OHM.
- A. Whitt said that he spoke with the maintenance person for Building 25 who said that the air compressor can be relocated north of the backup unit.

QC MEETING MINUTES
NAVY LANTDIV CONTRACT N62470-93-D-3032
MCB CAMP LEJEUNE

November 14, 1995

Attendees:	Vann Marshburn	ROICC
	John Cotton	ROICC
	Neal Paul	ROICC
	Lt. Cheryl Hansen	ROICC
	Alan Whitt	OHM

A QC Meeting was conducted at 1300 hours in conjunction with a review of Camp Lejeune Delivery Order production activities. The following are the minutes from this meeting for each delivery order.

CC: LANTDIV (Jeryy Haste, Code 0524)
LANTDIV (Katherine Landman, Code 18232)
LANTDIV (Lance Laughmiller)
QC Manager (Mike Gilman)

D. O. 78

- V. Marshburn asked if OHM had addressed the issue of proximity of building occupants during tank removal activities. A. Whitt said that he would check with J. Dunn on status.
- N. Paul asked that the wells installed over the weekend be flagged off.
- V. Marshburn asked about status of T&D. A. Whitt said that OHM is working with J. Riggs for approval.

PROJECT MGMT
12/8/95

16032-4.5

Page 25

MOB TEAM GROUP TO POLL BLDG 25 TEAMS

HAVE TEAM SUB DO FOUNDATION

BLDGRS FOR PARKING LOT

SOUTHLANDS IDENTIFY PERFORMANCE DATE / SCHEDULE SLIPPAGE

SUE NICOLE - 10/31/95 - FIELD SLY MOSTLY CLEAR →

→ FREE PHASE H2O - WHEN - ?

15 - SETTING EQUIPMENT -
PAINTER TOMORROW
SHIP 23RD ON STRIPPER

32 WAITING ON PERMIT -
STATUS PE

44 WAITING ON DIG/DODIG EPA LETTER PERMIT
WORKSUM PERMIT
MOD - KATE HAS # WILL CALL TODAY

62 LETTER FROM SE RECORD OF LOWER
BFI CERCLA STATUS

77 - FINAL REPORT THIS WEEK

78 T&D QUOTES BEING SOLICITED DUE
10/25/95 WATER

87 WORK PLAN - SUBMITED - CORRECTIONS

PROTECTIVE HEALTH LEVELS - INFORMATION

HEATER HANGERS - WHERE ARE HEATERS
PALMER

LUNCH OUT

Appendix F

QC Analytical Report

QC ANALYTICAL REPORT

All confirmation samples were sent to the OHM-Analytical Division for analysis. Confirmation samples for the UST Pit were analyzed for Volatiles, SemiVolatiles, Pesticides/PCB's, TAL Metals, and TPH. Confirmation samples for Building 25 were analyzed for Volatiles only. NEESA Level C data deliverables were requested from the laboratory for this project. Although an independent (or third party) validation was not required by the delivery orger, the data were evaluated by qualified OHM personnel for technical validity and project usability. The following sections summarize the findings of that evaluation.

Overall the data were acceptable and meet the project data quality objectives. All holding times were met and there were no major deficiencies found. Minor quality control deficiencies are listed according to each analytical parameter, along with any qualifiers and impact on the usability of the data.

SDG #CLJ78-CS001 (Includes samples CLJ78-CS001 through CLJ78-CS005, CLJ78-DS005, RB and TB)

VOLATILES

- One of 63 surrogate recoveries was outside QC limits. The sample that is associated with the high surrogate is CLJ78-CS005. That surrogate was BFB at 116%--QC limits were 59-113%. However, because no compounds which were associated with this surrogate were detected in the sample, none of the data for CLJ78-CS005 was impacted.

- Two of 30 matrix spike recoveries and two of 15 RPD's were outside QC limits. Data cannot be qualified based on matrix spike data alone.

- Zero of 15 method spike (blank spike or lab control sample) recoveries were outside QC limits.

- Sample CLJ78-RB001 had high levels of isopropyl alcohol present. This was possibly due to the sampling equipment not being air-dried prior to the final rinse. A possible impact is the finding of trace levels of acetone in the samples. It is therefore advisable to consider any trace amounts of acetone found in this SDG as "estimated". CLJ78-CS002 and CLJ78-CS003 results are qualified as 43J and 33J respectively.

- A sample from another Sample Delivery Group (SDG) was utilized for the water matrix spike / matrix spike duplicate for this SDG. This will not impact the data since the water samples are field QC samples only for the SDGs.

- All internal standard criteria were met for this SDG.

- There was good comparison between the CLJ78-CS005 and its field duplicate CLJ78-DS005. The biggest difference was between the results of the Tetrachloroethylene at

2600 and 6600 ug/kg respectively. This is probably due to the non-homogeneity of the samples.

SEMIVOLATILES

- Zero of 84 surrogates were outside QC limits, six surrogates were diluted below detectable levels. However, the sample which had the surrogates diluted out was a waste sample which was not part of this SDG.

- Zero of 22 soil matrix spike recoveries and zero of 11 soil matrix RPD's were outside QC limits.

- Matrix spike data is not available for the water Sample #CLJ78RB001 (Field blank) due to insufficient sample volume supplied. QA/QC acceptance was based on method spike recoveries which were within QC limits. This is acceptable because the water used for the field blank would have been comparable to the water the lab used for the method spike.

- Zero of 23 blank spike (method spike) recoveries were outside QC limits.

- All method blank criteria were met for this SDG.

- All internal standaed area counts and retention times were within QC limit

- The rinseate blank for this SDG contained bis(2-ethylhexyl)phthalate at 690 ug/L. It is possible that some plastic was used during the sampling in the field or extraction at the lab, which would introduce this common contaminant. It is therefore advisable to consider any positive hits of bis(2-ethylhexyl)phthalate as highly suspect at levels below 6900 ug/L. This means that all positive results for this bis(2-ethylhexyl)phthalate for this SDG should be considered as not detected at the concentration indicated. Please see the following table for clarification:

Bis (2-ethylhexyl) Phthalate Results for SDG CLJ78-CS001 Collected on 1/16/96					
CLJ78-CS001	CLJ78-CS002	CLJ78-CS003	CLJ78-CS004	CLJ78-CS005	CLJ78-DS005
1800 UJ	390 UJ	5100 UJ	4500 UJ	390 UJ	3400 UJ

Note: U = Undetected
J = Estimated

- The precision between the CLJ78-CS005 and its field duplicate CLJ78-DS005 was not very good. This could be due to the non-homogeneity of the sample. The samples may not have been thorougly mixed during sampling or at the lab prior to extraction.

PESTICIDES/PCB's

- Zero of 26 surrogates were outside QC limits

- Zero of 42 method spike recoveries were outside QC limits.

- One of 42 soil matrix spike recoveries and three of 21 soil matrix RPD's were outside QC limits. Data cannot be qualified based on matrix spike results alone.

- Matrix spike data is not available for the water Sample #CLJ78RB001 (Field blank) due to insufficient sample volume supplied. QA/QC acceptance was based on method spike recoveries which were within QC limits. This is acceptable because the water used for the field blank would have been comparable to the water the lab used for the method spike.

- All method blank criteria were met for this SDG.

- There was good comparison between the CLJ78-CS005 and its field duplicate CLJ78-DS005. The most significant difference was that Chlordane was found at trace levels in CLJ78-DS005 but not in CLJ78-CS005. This is probably due to the non-homogeneity of the samples.

TOTAL PETROLEUM HYDROCARBONS

- All method blank criteria were met for this SDG.

- Matrix spike data is not available for the water Sample #CLJ78RB001 (Field blank) due to insufficient sample volume supplied. QA/QC acceptance was based on method spike recoveries which were within QC limits. This is acceptable because the water used for the field blank would have been comparable to the water the lab used for the method spike.

- Two of 2 soil matrix spike recoveries and one of 1 soil matrix RPD's were outside QC limits due to the high levels of target analyte present in the unspiked sample. Batch acceptance was based on method spike recoveries which were within QC limits. Data cannot be qualified based on matrix spike results alone.

- Zero of 2 method spike recoveries were outside QC limits.

- There was good comparison between the CLJ78-CS005 and its field duplicate CLJ78-DS005 at 19% RPD.

- The rinseate blank CLJ78-RB001 showed a TPH value of 390 ug/L. An improved decontamination procedure should be implemented by the field and the lab. However, because the TPH values for the samples are orders of magnitudes above this level, the data for this SDG is not impacted.

TAL METALS

- The Contract Required Detection Limits (CRDL) standard met all QC criteria.

- Cadmium and Potassium did not pass all continuing calibration criteria but should not significantly impact the data validity. However, all positive and negative sample results for Cadmium should be considered as "estimated" because there is no run log included to show which samples are impacted by the low recovery (63.7%) of one of the continuing calibration verification runs. All positive sample results for Potassium should be considered as "estimated" because of the high recovery (113%) of two of the continuing calibration verification runs.

- All initial calibration blank criteria were within QC limits.

- Trace levels of Cobalt were detected in the continuing calibration blank but should not impact the validity of the data generated.

- Trace levels of Iron were detected in the method blank but should not impact the validity of the data generated.

- Low matrix spike recoveries were noted for Antimony and Mercury. Data cannot be qualified based on matrix spike results alone. All post spike recoveries were within acceptable QC limits.

- Matrix spike recoveries for Copper and Iron were outside QC limits due to the high levels of these elements present in the unspiked sample. This should not significantly impact the data.

- Duplicate results were outside control limits for Mercury. However, the data should not be significantly impacted because results were barely outside control limits.

- There was good comparison between the CLJ78-CS005 and its field duplicate CLJ78-DS005.

- All Laboratory Control Samples (LCS) were within acceptable QC limits.

- There were trace levels of the common salts, Barium, Calcium, Copper, Iron, Lead, Manganese, Potassium, and Zinc in the rinseate blank. The decontamination and source of the water for the rinseate blank should be investigated to minimize the presence of these metals.

SDG #CLJ78-SS001 (Includes samples CLJ78-SS001 through 006D, RB, FB, and TB)

VOLATILES

- Samples were analyzed twice: once at low level analysis and again at medium level analysis. The Tetrachloroethene is reported from the medium level analysis. The medium

level analysis exhibited difficulties with the recovery of 1,1-Dichloroethene in the spikes. Since the 1,1-Dichloroethene is reported from the low level analysis the data is considered acceptable.

- Three of 87 surrogate recoeries were outside QC limits. These were in the lab's blanks and blank spikes and does not directly impact the sample results. However, the lab should investigate these issues and provide implement corrective actions.

- Two of 30 matrix spike recoveries and zero of 15 matrix RPD's were outside QC limits. No qualifications on the data can be made based on matrix spike results alone.

- One of 15 method spike recoveries was outside QC limits. The compound affected is 1,1-Dichloroethene which had a low recovery (29%). Since the 1,1-Dichloroethene is reported from the low level analysis the data is considered acceptable.

- All target compounds were spiked for this analytical batch. Only the required CLP spiking compounds were reported on Form III.

- All water method blank criteria were met for this SDG.

- Low levels of Methylene Chloride and Methyl-iso-butyl-ketone (MIBK) were detected in the soil method blanks. CLJ78-SS004 is the only sample affected by the blank results. The Methylene Chloride result for this sample should be considered as not detected at 14 ug/kg (14 UJ). None of the MIBK results were affected.

- All internal standard criterial were met for this SDG.

- No compounds of interest were detected in the rinseate and trip blanks.

- There was good comparison between CLJ78-SS006 and its field duplicate, CLJ78-SS006D. The most significant difference was that no Trichloroethylene was detected in CLJ78-SS006D whereas it was found at 10 ug/kg in CLJ78-SS006. This could be because the Trichloroethylene was found at a trace level and could have been easily lost in the sampling or sample prep process.

Appendix G

Chain-of-Custody

OM Remediation Services Corp.

CHAIN-OF-CUSTODY RECORD

LAB COPY

Form 0019
Field Technical Services
Rev. 08/89

166685

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
Camp Lejeune D.O. 78	Camp Lejeune NC

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
17418	Rakesh Mishra	910-451-2599

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
	Jim Dunn

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) VOA, SVOA, Pest/PCB, Rec CN, Rec S, Ign Lab, pH, % water, BTU, Total Halogen, TAL Metals	REMARKS
1	CLJ78-WS-001	9/20	900		X	Soil Sample ~~from~~ near piping coming from building	3	X X X X X	45418
2	CLJ78-WS-002	9/20	915		X	Soil near tank 1	3	X X X X X	
3	CLJ78-WS-003	9/20	930		X	Soil near tank 2	3	X X X X X	
4	CLJ78-WS-004	9/20	945		X	Soil sample near tank 3	3	X X X X X	
5	CLJ78-WS-005	9/20	1000		X	Soil Sample near tank 4	3	X X X X X	
6	CLJ78-WS-006	9/20	1015		X	Soil Sample near tank 5	3	X X X X X	
7									
8									
9									
10									

Relinquished

ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-6		9/20	1500
2		Kit Lawson/FedEx	9/21/93	1000
3				
4				

REMARKS
Send Sample to Paco Lab.
TAT 7 day

SAMPLER'S SIGNATURE

0000121

TRANSFER 2

OHM Remediation Services Corp.

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89

166686

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Camp Lejeune D.O. 78

PROJECT LOCATION: Camp Lejeune NC

PROJ. NO.: 17418

PROJECT CONTACT: Rakesh Mishra

PROJECT TELEPHONE NO.: 910-451-2599

CLIENT'S REPRESENTATIVE:

PROJECT MANAGER/SUPERVISOR: Jim Dunn

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): VOA, SVOA, Pest/PCB; TAL Metals, Cyan. CN; Dave S. Ignitability; Oil & Water, BTU; Total Halogen, Total TCLP

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	VOA, SVOA, Pest/PCB	TAL Metals, Cyan. CN	Dave S. Ignitability	Oil & Water, BTU	Total Halogen, Total TCLP				REMARKS 45417
1	CLJ78-WT-001	9/20			X	Liquid From Tank 1	12	X	X	X	X	X				45417-21 60 477858
2	CLJ78-WT-002	9/20			X	Liquid From Tank 2	12	X	X	X	X	X				45417-22 60 477866
3	CLJ78-WT-003	9/20			X	Liquid From Tank 3	12	X	X	X	X	X				45417-23 60 477874
4	CLJ78-WT-004	9/20			X	Liquid From Tank 4	12	X	X	X	X	X				45417-24 60 477882
5	CLJ78-WT-005	9/20			X	Liquid From Tank 5	12	X	X	X	X	X				45417-25 60 477890
6																
7																
8																
9																
10																

Final Page

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-5	[signature]		9/20	1500
2			[signature]	[illegible]	[illegible]
3	1-5, O&W Water only	Gretchen Frankheim	FedEx	9/21/95	1600
4		FedEx	[signature]	9/22/95	9:00

REMARKS: Send Samples to Pace Lab
TAT 7 day

SAMPLER'S SIGNATURE: [signature]

0000063

OHM Remediation Services Corp.

CHAIN-OF-CUSTODY RECORD

LAB COPY

Form 0019
Field Technical Services
Rev. 08/89

165620

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
Camp LeJuene Bldg 25	Camp LeJuene, NC.

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
17418	Allen Whitt / Jim Dunn	910-451-2599

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
Vann Marshburn	Jim Dunn / Allen Whitt

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) 40 ml. VOA	1 Liter Amber Glass	1 Liter Plastic	REMARKS
1	CLI78IW001	1-16-96	1430	✓		Decon Liquids From Tank Cleaning @ Bldg 25	6	2	4		VOA (8240), SVOA (8270), Acid/Base (8040), Reac. Cyanide (7.3.3), Reac. Sulfide (7.3.4), pH (9040), Ignitability (1010 or 1020), Total Halogen (9250)
2											
3	CLI78TB001	1-16-96	—			Trip Blank	2	2			VOA (8240)
4	CLI78EB001	1-16-96	1340		✓	Field Blank For Equipment Rinsate #: CLI78RB001	5	2	2	1	VOA (8240), SVOA (8270), Pest/PCB (8080), TAL Metals (6010/7000), TPH (418.1)
5											
6											
7											
8											
9											
10											

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1,3,4	Scott Dunbar	Fed-EX	1-16-96	1700
2	1,3,4	Fedex 692146090	Donita Jones	1-19-96	1048
3					
4					

REMARKS

T.A.T - 5 day

0236

SAMPLER'S SIGNATURE

Scott Dunbar

OHM mediation Services Corp.

LAB COPY

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89

165618

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
Camp LeJeune Bldg 25	Camp LeJeune, NC.

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
17418	A. Whitt / S. Dunbar	910-451-2599

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
Vann Marshburn	L. Dunn / A. Whitt

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	40ml VOA, SVOA, PEST/PCB	1 LT amber glass	1 LT plastic	4oz. VOA	16 oz Glass	TAL metals	REMARKS
1	CLJ78RB001	11/16/96	1230			Equipment Rinsate	5@4	2	1	1				VOA (8240), SVOA (8270), PEST/PCB (8080) TAL METALS (6010/7000), TPH 418.1
2	CLJ78CS001		1330	✓		Confirmation Sample Back Wall					1	2		VOA (8240), SVOA 3550/8270, PEST/PCB 3552/8082, TAL Metals 3050/6010/7000
3	CLJ78CS002		1340	✓		Confirmation Sample Right Wall					1	2		TPH 418.1 1-4oz, 1-16oz, 1-Lambert acid. pg
4	CLJ78CS003		1350	✓		Confirmation Sample Front Wall					1	2		Same As Above
5	CLJ78CS004		1400	✓		Confirmation Sample Left Wall					1	2		Same As Above
6	CLJ78CS005		1510	✓		Confirmation Sample Bottom					1	2		Same As Above
7	CLJ78DS005		1510	✓		Duplicate Confirmation Sample Bottom					1	2		Same As Above
8														
9	TRIP BLANK	pg				Water pg.	2-40ml pg.							
10														

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-7	Scott Dunbar	Fed-Ex	1-16-96	1700
2	1-7,9	Fedex 821491172	Donita Jensen	1-18-96	1046
3					
4					

REMARKS

3 day TAT.

SAMPLER'S SIGNATURE

Scott Dunbar

1291 06621

OHM Remediation Services Corp.

CHAIN-OF-CUSTODY RECORD

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Field Technical Services
Rev. 08/89

166490

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Camp Lejeune	PROJECT LOCATION: Camp Lejeune, N.C.
PROJ. NO.: 17418	PROJECT CONTACT: Alan Whitt
PROJECT TELEPHONE NO.: (910) 451-2599	
CLIENT'S REPRESENTATIVE: VANN Marshburn	PROJECT MANAGER/SUPERVISOR: Jim Dunn / Alan Whitt

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) (8240) Volatiles	REMARKS
1	CLJ78-SS-001	2/1/96	1545		X	Sample at 3' Depth	1-4oz	X	
2	CLJ78-SS-002	2/1/96	1551		X	Sample at 6' Depth	1-4oz	X	
3	CLJ78-SS-003	2/1/96	1556		X	Sample at 3' Depth	1-4oz	X	
4	CLJ78-SS-004	2/1/96	1601		X	Sample at 6' Depth	1-4oz	X	
5	CLJ78-SS-005	2/1/96	1607		X	Sample at 3' Depth	1-4oz	X	
6	CLJ78-SS-006	2/1/96	1613		X	Sample at 6' Depth	1-4oz	X	
7	CLJ78-SS-006D	2/1/96	1613		X	Duplicat of soil Sample at 6'	1-4oz	X	
8	CLJ-FB	2/1/96	1617		X	Field Blank	3-40mL	X	
9	CLJ-RB	2/1/96	1623		X	Rinsate Blank	3-40mL	X	
10	CLJ-TB	-	-			Trip Blank	2-40mL	X	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-10	Aaron R. Gean	FED-EX 6921491194	2/1/96	1700
2	1-10	Fedex	Anita Jones	2-2-96	10:17
3					
4					

REMARKS

48 hour T.A.T.
Please Fax Results as soon as possible (910) 451-1809.
Samples sent T. A.S.C. Thanks.

SAMPLER'S SIGNATURE: Aaron R. Gean

0182

OHM Remediation Services Corp.

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CHAIN-OF-CUSTODY RECORD

1 of 2

166462

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
Camp Lejeune	Camp Lejeune, N.C.

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
17418	Alan Whitt	(910) 451-2599

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
VANN Marshburn	Jim Dunn / Alan Whitt

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): METALS (6010/7470)	Volatiles (8240)	Semi-Volatiles (8270)	PST/PCB (8080)	TPH (418.1)	Particle Size Analysis	REMARKS
1	CLJ78-TW-001	11/12	1215		X	Soil Sample from 4'-8'	1-4oz 2-8oz	X	X	X	X	X	X	ASTM (D-422) - Particle Size Analysis
2	CLJ78-TW-001D	11/12	1215		X	Soil Sample from 4'-8' Duplicate	1-4oz 2-8oz	X	X	X	X	X		
3	CLJ78-TW-002	11/12	1109		X	Soil sample from 4'-7.5'	1-4oz 2-8oz	X	X	X	X	X		
4	CLJ78-TW-003	11/12	1358		X	Soil Sample from 3.2'-7.2'	1-4oz 2-8oz	X	X	X	X	X		
5	CLJ78-TW-004	11/12	1503		X	Soil Sample from 3.85'-7.85'	1-4oz 2-8oz	X	X	X	X	X		
6	CLJ78-TW-001	11/12	1430		X	Ground water	7-1L 2-40mL	X	X	X	X	X		
7	CLJ78-TW-002	11/12	1315		X	Ground water	7-1L 2-40mL	X	X	X	X	X		
8	CLJ78-TW-002D	11/12	1315		X	Ground water Duplicate	7-1L 2-40mL	X	X	X	X	X		
9	CLJ78-TW-003	11/12	1540		X	Ground water	7-1L 2-40mL	X	X	X	X	X		
10	CLJ78-TW-004	11/12	1730		X	Ground water	7-1L 2-40mL	X	X	X	X	X		

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-10	Aaron R. Gran	FED-EX 6921490962	11/13	1700
2	1-10	Fedex	Angela D. Schimp	11-14-95	1111
3					
4					

REMARKS

Samples sent To A.S.C. Lab
7 day T.A.T. Please Fax
Results To 910.451.1809 ATTN.
Alan whitt or AARON GRAN
Thank you

0270

SAMPLER'S SIGNATURE

Aaron R. Gran

OHM Remediation Services Corp.

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CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89

2 of 2

166463

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
Camp Lejeune	Camp Lejeune, N.C.

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
17418	Alan Whitt	(910) 451-2599

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
VANN Marshburn	Jim Dunn / Alan Whitt

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CLJ78-FB	11/12	1345		X	Field Blank	7-1L 2-40mL	METALS (6010/7470), Volatiles (8240), semi-Volatiles (8270), PST/PCB (8080), TPH (418.1)	
2	CLJ78-RB	11/12	1445		X	Rinsate Blank	7-1L 2-40mL		
3									
4									
5									
6									
7									
8									
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-2	Aaron R. Gran	FED-EX 6921490962	11/13	1700
2	1-2	Fedex	Angela D. Schimmel	11-14-95	1111
3					
4					

REMARKS

Samples sent to ASC. LAB. 7 day T.A.T. Please FAX Results to 910 451-1809 ATTN. Alan Whitt or AARON GRAN Thanks

6270

SAMPLER'S SIGNATURE Aaron R. Gran

Appendix H

Analytical Data

Analytical Data

Waste Characterization Data

Laboratory	*Sample Date*	*Report Date*	*Description*	*No. of Pages*
Pace Inc.	9/20/95	10/11/95	Soil samples	120
Pace Inc.	9/20/95	10/11/95	Liquid samples	61
OHM Analy. Div Div.	1/18/96	2/29/96	Liquid samples	236

Soil Confirmation Data

OHM Analy. Div.	1/16/96	3/4/96	Soil samples	621
OHM Analy. Div.	2/1/96	2/22/96	Soil samples	187

Temporary Monitoring Well Groundwater and Soil Data

OHM Analy. Div.	11/12/95	12/21/95	Soil & Liquid Samples	778

Waste Characterization Data

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

October 11, 1995

OHM Remediation Services Corporation
5335 Triangle Parkway
Suite 450
Norcross, GA 30092

SAMPLE DELIVERY GROUP NARRATIVE

OHM Project No.: 17418 (Bldg. 25)
Laboratory: PACE New England - New Hampshire of Hampton, NH
Lab Numbers: 45418
Protocol: SW846 Methods. EPA Level III deliverables. No diskette.

Sample Receipt: These samples were received at PACE, Inc. on September 21, 1995. Laboratory sample numbers were assigned for test parameters as listed on the Sample Table which follows this narrative. The sample shipment was checked for custody seal integrity and cooler temperature. Samples were checked for appropriate preservation and accuracy against the Chains-of-Custody provided. Other than the exceptions noted below, samples were received between 2-6° C and in good condition. PACE Sample Receipt Condition Reports can be found with the Chains-of-Custody.

Shipment received 9/21/95 (45418): Solid samples were received in a single cooler and assigned PACE Lab# 45418. Aqueous samples were received in five coolers and were assigned PACE# 45417. The temperature blank associated with the solid samples was 2.8 degrees Celcius. The samples had been packed on ice. These samples were logged in for a 7-day turnaround per the request on the COC. The request for TCLP analysis listed on the COC for the water samples was cancelled per the request of Rakesh Mishra (OHM). Instead, the TCLP analysis request was made for the soil samples received with these water samples logged in under PACE Lab# 45418.

Volatiles Analysis: The method 8240 blank "BV1124A" contained low levels of methylene chloride. The sample results for this analyte should be used with due consideration.

Laboratory number 45418-2 for method 8240 analysis had low recovery for the surrogate bromofluorobenzene. This is a probable matrix effect.

Laboratory number 45418-5 for method 8240 analysis had high recovery for the surrogate bromofluorobenzene. This is a probable matrix effect.

Semivolatiles Analysis: The TCLP blank "90001-279" for method 8270 TCLPs was lost in the laboratory. The blank was not re-extracted. No targets were detected in any of the associated samples. The associated method blank (B-A2457) had acceptable surrogate recoveries and no target compounds above the detection limit.

Pesticide/PCB Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

Metals Analysis: The matrix spike of laboratory number 45418-12 showed 14.5% recovery for antimony (advisory limit 75-125%). This is a probable matrix effect.

The replicate analysis of aluminum, calcium, chromium, magnesium and manganese for laboratory number 45418-12 showed RPD of 34, 21.8, 25.4, 39.7 and 28.1, respectively (advisory limit 20%).

P.O. Box 2130
1 Lafayette Road
Hampton, NH 03842
TEL: 603-926-7777
800-992-0724
FAX: 603-926-7939

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

SDG Narrative

Conventional Parameters: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

Statement of Compliancy and Data Authorization

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Richard K Wellman — 10/11/95

PACE Incorporated, New England-New Hampshire — October 11, 1995

P.O. Box 2130
1 Lafayette Road
Hampton, NH 03842
TEL: 603-926-7777
800-992-0724
FAX: 603-926-7939

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

NEW ENGLAND - NEW HAMPSHIRE LABORATORY
SAMPLE RECEIPT CONDITION REPORT
Tel. (603) 926-7777
FAX (603) 926-7939

LAB# 45418

PAGE 1 of 1
COOLER ____ of ____
COC# ____
SDG# ____
CASE# ____

CLIENT OHM
DATE/TIME RECEIVED 9/21/95 1000
DELIVERED BY Fed-Ex
RECEIVED BY KAZ
LIMS ENTRY BY GMF
TRANSCRIPTION REVIEW BY BM
LIMS REVIEW BY/PM GMF

	NA	YES	EXCEPTION	COMMENT	RESOLUTION
1. CUSTODY SEALS PRESENT/INTACT	☑	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER	☐	☑	☐		
3. CHAIN OF CUSTODY SIGNED	☐	☑	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES	☐	☑	☐		
5. SAMPLES RECEIVED AT 2° - 6° C (Ice/Ice Packs Present? (Y) or N)	☐	☑	☐	Temp = 2.8°C	
6. VOLATILES FREE OF HEAD SPACE	☐	☑	☐		
7. TRIP BLANK PRESENT IN THIS COOLER	☑	☐	☐		
8. PROPER SAMPLE CONTAINERS AND VOLUME	☐	☑	☐		
9. SAMPLES WITHIN HOLD TIME	☐	☑	☐		
10. SAMPLES PROPERLY PRESERVED	☑	☐	☐		

ANALYTICAL PROGRAMS (circle one) COMMERCIAL CLP EPA-CLP NYASP NJ ISRA NEESA AFCEE Other ____

12. NUMBER OF PACE FILTRATIONS: ____
13. CORRECTIVE ACTIONS REPORT # ____

Log-in Notes:

VOA's = 8240 = 45418-1→6

ALL other Totals ANALYSIS = 7→12

TCLP 12 GMF 9/21/95 → 18
13

CLIENT AUTHORIZATION SIGNATURE ____ DATE ____

0000003

SAMPLE TABLE

CLIENT ID.	MATRIX	PACE #	PARAMETERS
CLJ78-WS-001	SOLID	45418-001	GC/MS VOA
		45418-007	ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
			PCBS
			ORGANOCHLORINE PESTICIDES
			pH
			MOISTURE
			HEAT OF COMBUSTION/BTU
			PERCENT TOTAL HALOGENS
			FLASH POINT
			RELEASABLE CYANIDE
			RELEASABLE SULFIDE
			CLP METALS
		45418-013	GC/MS VOA
			ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
			ORGANOCHLORINE PESTICIDES
			CHLORINATED PHENOXY HERBICIDES
			TCLP VOA EXTRACT
			TCLP ORGANICS EXTRACT
			TCLP METALS EXTRACTION
			Ba, Cd, Cr, Pb, Hg, Ag, As, Se
CLJ78-WS-002	SOLID	45418-002	GC/MS VOA
		45418-008	ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
			PCBS
			ORGANOCHLORINE PESTICIDES
			pH
			MOISTURE
			HEAT OF COMBUSTION/BTU
			PERCENT TOTAL HALOGENS
			FLASH POINT
			RELEASABLE CYANIDE
			RELEASABLE SULFIDE
			CLP METALS
		45418-014	GC/MS VOA
			ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
			ORGANOCHLORINE PESTICIDES
			CHLORINATED PHENOXY HERBICIDES
			TCLP VOA EXTRACT
			TCLP ORGANICS EXTRACT
			TCLP METALS EXTRACTION
			Ba, Cd, Cr, Pb, Hg, Ag, As, Se
CLJ78-WS-003	SOLID	45418-003	GC/MS VOA

pace INCORPORATED
THE ASSURANCE OF QUALITY

SAMPLE TABLE
(CONTINUED)

CLIENT ID.	MATRIX	PACE #	PARAMETERS
CLJ78-WS-003	SOLID	45418-009	ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
			PCBS
			ORGANOCHLORINE PESTICIDES
			pH
			MOISTURE
			HEAT OF COMBUSTION/BTU
			PERCENT TOTAL HALOGENS
			FLASH POINT
			RELEASABLE CYANIDE
			RELEASABLE SULFIDE
			CLP METALS
		45418-015	GC/MS VOA
			ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
			ORGANOCHLORINE PESTICIDES
			CHLORINATED PHENOXY HERBICIDES
			TCLP VOA EXTRACT
			TCLP ORGANICS EXTRACT
			TCLP METALS EXTRACTION
			Ba, Cd, Cr, Pb, Hg, Ag, As, Se
CLJ78-WS-004	SOLID	45418-004	GC/MS VOA
		45418-010	ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
			PCBS
			ORGANOCHLORINE PESTICIDES
			pH
			MOISTURE
			HEAT OF COMBUSTION/BTU
			PERCENT TOTAL HALOGENS
			FLASH POINT
			RELEASABLE CYANIDE
			RELEASABLE SULFIDE
			CLP METALS
		45418-016	GC/MS VOA
			ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
			ORGANOCHLORINE PESTICIDES
			CHLORINATED PHENOXY HERBICIDES
			TCLP VOA EXTRACT
			TCLP ORGANICS EXTRACT
			TCLP METALS EXTRACTION
			Ba, Cd, Cr, Pb, Hg, Ag, As, Se
CLJ78-WS-005	SOLID	45418-005	GC/MS VOA

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SAMPLE TABLE
(CONTINUED)

CLIENT ID.	MATRIX	PACE #	PARAMETERS
CLJ78-WS-005	SOLID	45418-011	ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
			PCBS
			ORGANOCHLORINE PESTICIDES
			pH
			MOISTURE
			HEAT OF COMBUSTION/BTU
			PERCENT TOTAL HALOGENS
			FLASH POINT
			RELEASABLE CYANIDE
			RELEASABLE SULFIDE
			CLP METALS
		45418-017	GC/MS VOA
			ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
			ORGANOCHLORINE PESTICIDES
			CHLORINATED PHENOXY HERBICIDES
			TCLP VOA EXTRACT
			TCLP ORGANICS EXTRACT
			TCLP METALS EXTRACTION
			Ba, Cd, Cr, Pb, Hg, Ag, As, Se
CLJ78-WS-006	SOLID	45418-006	GC/MS VOA
		45418-012	ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
			PCBS
			ORGANOCHLORINE PESTICIDES
			pH
			MOISTURE
			HEAT OF COMBUSTION/BTU
			PERCENT TOTAL HALOGENS
			FLASH POINT
			RELEASABLE CYANIDE
			RELEASABLE SULFIDE
			CLP METALS
		45418-018	GC/MS VOA
			ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
			ORGANOCHLORINE PESTICIDES
			CHLORINATED PHENOXY HERBICIDES
			TCLP VOA EXTRACT
			TCLP ORGANICS EXTRACT
			TCLP METALS EXTRACTION
			Ba, Cd, Cr, Pb, Hg, Ag, As, Se

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45418-001
Sample Designation: CLJ78-WS-001
Date Analyzed: 09/29/95
Matrix: SOLID

Instrument File Name: >G4752

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 25 % , elevating the reporting limits by a factor of 1.33 .

VOLATILE ORGANICS	CONCENTRATION (ug/g)		REPORTING LIMIT (ug/g)
Chloromethane	BDL		1600
Bromomethane	BDL		1600
Vinyl chloride	BDL		1600
Chloroethane	BDL		790
Methylene chloride	1200	J	1600
Acetone	BDL		3900
Carbon disulfide	BDL		790
1,1-Dichloroethene	BDL		790
Tetrahydrofuran	BDL		3900
1,1-Dichloroethane	BDL		790
1,2-Dichloroethene (total)	BDL		790
Chloroform	BDL		790
Methyl ethyl ketone	BDL		3900
1,2-Dichloroethane	BDL		790
1,1,1-Trichloroethane	BDL		790
Carbon Tetrachloride	BDL		790
Vinyl acetate	BDL		1600
Bromodichloromethane	BDL		790
cis-1,3-Dichloropropene	BDL		790
trans-1,3-Dichloropropene	BDL		790
Trichloroethene	BDL		790
Benzene	BDL		790
Dibromochloromethane	BDL		790
1,1,2-Trichloroethane	BDL		790
1,2-Dichloropropane	BDL		790
2-Chloroethyl vinyl ether	BDL		790
Bromoform	BDL		790
Methyl isobutyl ketone	BDL		3900
2-Hexanone	BDL		3900
1,1,2,2-Tetrachloroethane	BDL		790
Tetrachloroethene	18000		790
Toluene	BDL		790
Chlorobenzene	BDL		790
Ethylbenzene	BDL		790
Xylene (total)	BDL		790
Styrene	BDL		790

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8240

BDL = Below reporting limit
J = Probable presence below listed detection limit
This sample required dilution to bring a high target analyte concentration into the calibration range.
Detection limits were elevated accordingly.

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45418-002
Sample Designation: CLJ78-WS-002
Date Analyzed: 09/29/95
Matrix: SOLID

Instrument File Name: >G4753

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 21 % , elevating the reporting limits
by a factor of 1.27 .

VOLATILE ORGANICS	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
Chloromethane	BDL	7
Bromomethane	BDL	7
Vinyl chloride	BDL	7
Chloroethane	BDL	3.7
Methylene chloride	8 B	7
Acetone	BDL	18
Carbon disulfide	BDL	3.7
1,1-Dichloroethene	BDL	3.7
Tetrahydrofuran	BDL	18
1,1-Dichloroethane	BDL	3.7
1,2-Dichloroethene (total)	33	3.7
Chloroform	BDL	3.7
Methyl ethyl ketone	BDL	18
1,2-Dichloroethane	BDL	3.7
1,1,1-Trichloroethane	BDL	3.7
Carbon Tetrachloride	BDL	3.7
Vinyl acetate	BDL	7
Bromodichloromethane	BDL	3.7
cis-1,3-Dichloropropene	BDL	3.7
trans-1,3-Dichloropropene	BDL	3.7
Trichloroethene	BDL	3.7
Benzene	BDL	3.7
Dibromochloromethane	BDL	3.7
1,1,2-Trichloroethane	BDL	3.7
1,2-Dichloropropane	BDL	3.7
2-Chloroethyl vinyl ether	BDL	3.7
Bromoform	BDL	3.7
Methyl isobutyl ketone	BDL	18
2-Hexanone	BDL	18
1,1,2,2-Tetrachloroethane	BDL	3.7
Tetrachloroethene	38	3.7
Toluene	BDL	3.7
Chlorobenzene	BDL	3.7
Ethylbenzene	BDL	3.7
Xylene (total)	11	3.7
Styrene	BDL	3.7

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8240

BDL = Below reporting limit

Detection limit raised by the presence of non-listed compounds.

pace INCORPORATED THE ASSURANCE OF QUALITY

Laboratory number: 45418-003
Sample Designation: CLJ78-WS-003
Date Analyzed: 09/29/95
Matrix: SOLID

Instrument File Name: >G4767

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 17 % , elevating the reporting limits
by a factor of 1.21 .

VOLATILE ORGANICS	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
Chloromethane	BDL	58
Bromomethane	BDL	58
Vinyl chloride	BDL	58
Chloroethane	BDL	29
Methylene chloride	BDL	58
Acetone	BDL	140
Carbon disulfide	BDL	29
1,1-Dichloroethene	BDL	29
Tetrahydrofuran	BDL	140
1,1-Dichloroethane	BDL	29
1,2-Dichloroethene (total)	39	29
Chloroform	BDL	29
Methyl ethyl ketone	BDL	140
1,2-Dichloroethane	BDL	29
1,1,1-Trichloroethane	BDL	29
Carbon Tetrachloride	BDL	29
Vinyl acetate	BDL	58
Bromodichloromethane	BDL	29
cis-1,3-Dichloropropene	BDL	29
trans-1,3-Dichloropropene	BDL	29
Trichloroethene	BDL	29
Benzene	BDL	29
Dibromochloromethane	BDL	29
1,1,2-Trichloroethane	BDL	29
1,2-Dichloropropane	BDL	29
2-Chloroethyl vinyl ether	BDL	29
Bromoform	BDL	29
Methyl isobutyl ketone	BDL	140
2-Hexanone	BDL	140
1,1,2,2-Tetrachloroethane	BDL	29
Tetrachloroethene	1000	29
Toluene	BDL	29
Chlorobenzene	BDL	29
Ethylbenzene	BDL	29
Xylene (total)	BDL	29
Styrene	BDL	29

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8240

BDL = Below reporting limit
J = Probable presence below listed detection limit

This sample required dilution to bring a high target analyte concentration into the calibration range.
Detection limits were elevated accordingly.

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45418-004
Sample Designation: CLJ78-WS-004
Date Analyzed: 09/29/95
Matrix: SOLID

Instrument File Name: >G4755

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 20 % , elevating the reporting limits
by a factor of 1.26 .

VOLATILE ORGANICS	CONCENTRATION (ug/g)		REPORTING LIMIT (ug/g)
Chloromethane	BDL		240
Bromomethane	BDL		240
Vinyl chloride	BDL		240
Chloroethane	BDL		120
Methylene chloride	240		240
Acetone	BDL		600
Carbon disulfide	BDL		120
1,1-Dichloroethene	BDL		120
Tetrahydrofuran	BDL		600
1,1-Dichloroethane	BDL		120
1,2-Dichloroethene (total)	81	J	120
Chloroform	BDL		120
Methyl ethyl ketone	BDL		600
1,2-Dichloroethane	BDL		120
1,1,1-Trichloroethane	BDL		120
Carbon Tetrachloride	BDL		120
Vinyl acetate	BDL		240
Bromodichloromethane	BDL		120
cis-1,3-Dichloropropene	BDL		120
trans-1,3-Dichloropropene	BDL		120
Trichloroethene	BDL		120
Benzene	BDL		120
Dibromochloromethane	BDL		120
1,1,2-Trichloroethane	BDL		120
1,2-Dichloropropane	BDL		120
2-Chloroethyl vinyl ether	BDL		120
Bromoform	BDL		120
Methyl isobutyl ketone	BDL		600
2-Hexanone	BDL		600
1,1,2,2-Tetrachloroethane	BDL		120
Tetrachloroethene	3300		120
Toluene	BDL		120
Chlorobenzene	BDL		120
Ethylbenzene	BDL		120
Xylene (total)	BDL		120
Styrene	BDL		120

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8240

BDL = Below reporting limit
J = Probable presence below listed detection limit
This sample required dilution to bring a high target analyte concentration into the calibration range.
Detection limits were elevated accordingly.

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45418-005
Sample Designation: CLJ78-WS-005
Date Analyzed: 09/28/95
Matrix: SOLID

Instrument File Name: >G4727

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 17 % , elevating the reporting limits
by a factor of 1.21 .

VOLATILE ORGANICS	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
Chloromethane	BDL	1.4
Bromomethane	BDL	1.4
Vinyl chloride	BDL	1.4
Chloroethane	BDL	0.7
Methylene chloride	0.8 J	1.4
Acetone	BDL	3.6
Carbon disulfide	BDL	0.7
1,1-Dichloroethene	BDL	0.7
Tetrahydrofuran	BDL	3.6
1,1-Dichloroethane	BDL	0.7
1,2-Dichloroethene (total)	3.7	0.7
Chloroform	BDL	0.7
Methyl ethyl ketone	BDL	3.6
1,2-Dichloroethane	BDL	0.7
1,1,1-Trichloroethane	BDL	0.7
Carbon Tetrachloride	BDL	0.7
Vinyl acetate	BDL	1.4
Bromodichloromethane	BDL	0.7
cis-1,3-Dichloropropene	BDL	0.7
trans-1,3-Dichloropropene	BDL	0.7
Trichloroethene	BDL	0.7
Benzene	BDL	0.7
Dibromochloromethane	BDL	0.7
1,1,2-Trichloroethane	BDL	0.7
1,2-Dichloropropane	BDL	0.7
2-Chloroethyl vinyl ether	BDL	0.7
Bromoform	BDL	0.7
Methyl isobutyl ketone	BDL	3.6
2-Hexanone	BDL	3.6
1,1,2,2-Tetrachloroethane	BDL	0.7
Tetrachloroethene	5	0.7
Toluene	BDL	0.7
Chlorobenzene	BDL	0.7
Ethylbenzene	BDL	0.7
Xylene (total)	1.5	0.7
Styrene	BDL	0.7

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8240

BDL = Below reporting limit
J = Probable presence below listed detection limit

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45418-006
Sample Designation: CLJ78-WS-006
Date Analyzed: 09/29/95
Matrix: SOLID

Instrument File Name: >G4756

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 19 % , elevating the reporting limits by a factor of 1.23 .

VOLATILE ORGANICS	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
Chloromethane	BDL	1.4
Bromomethane	BDL	1.4
Vinyl chloride	BDL	1.4
Chloroethane	BDL	0.7
Methylene chloride	1.5	1.4
Acetone	BDL	3.6
Carbon disulfide	BDL	0.7
1,1-Dichloroethene	BDL	0.7
Tetrahydrofuran	BDL	3.6
1,1-Dichloroethane	BDL	0.7
1,2-Dichloroethene (total)	7	0.7
Chloroform	BDL	0.7
Methyl ethyl ketone	BDL	3.6
1,2-Dichloroethane	BDL	0.7
1,1,1-Trichloroethane	BDL	0.7
Carbon Tetrachloride	BDL	0.7
Vinyl acetate	BDL	1.4
Bromodichloromethane	BDL	0.7
cis-1,3-Dichloropropene	BDL	0.7
trans-1,3-Dichloropropene	BDL	0.7
Trichloroethene	BDL	0.7
Benzene	BDL	0.7
Dibromochloromethane	BDL	0.7
1,1,2-Trichloroethane	BDL	0.7
1,2-Dichloropropane	BDL	0.7
2-Chloroethyl vinyl ether	BDL	0.7
Bromoform	BDL	0.7
Methyl isobutyl ketone	BDL	3.6
2-Hexanone	BDL	3.6
1,1,2,2-Tetrachloroethane	BDL	0.7
Tetrachloroethene	1.0	0.7
Toluene	BDL	0.7
Chlorobenzene	BDL	0.7
Ethylbenzene	BDL	0.7
Xylene (total)	BDL	0.7
Styrene	BDL	0.7

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8240

BDL = Below reporting limit

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45418-007
Sample Designation: CLJ78-WS-001
Date Extracted: 09/22/95
Date Analyzed: 09/25/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 25 % , elevating the reporting limits by a factor of 1.33 .

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
N-Nitrosodimethylamine	BDL	4.4
Phenol	BDL	4.4
Aniline	BDL	4.4
Bis(2-chloroethyl)ether	BDL	4.4
2-Chlorophenol	BDL	4.4
1,3-Dichlorobenzene	BDL	4.4
1,4-Dichlorobenzene	BDL	4.4
Benzylalcohol	BDL	4.4
1,2-Dichlorobenzene	BDL	4.4
2-Methylphenol	BDL	4.4
Bis(2-chloroisopropyl)ether	BDL	4.4
4-Methylphenol	BDL	4.4
N-Nitroso-di-N-propylamine	BDL	4.4
Hexachloroethane	BDL	4.4
Nitrobenzene	BDL	4.4
Isophorone	BDL	4.4
2-Nitrophenol	BDL	4.4
2,4-Dimethylphenol	BDL	4.4
Benzoic acid	BDL	22
Bis(2-chloroethoxy)methane	BDL	4.4
2,4-Dichlorophenol	BDL	4.4
1,2,4-Trichlorobenzene	BDL	4.4
Naphthalene	1.4 J	4.4
4-Chloroaniline	BDL	4.4
Hexachlorobutadiene	BDL	4.4
4-Chloro-3-methylphenol	BDL	4.4
2-Methylnaphthalene	BDL	4.4
Hexachlorocyclopentadiene	BDL	4.4
2,4,6-Trichlorophenol	BDL	4.4
2,4,5-Trichlorophenol	BDL	22
2-Chloronaphthalene	BDL	4.4
2-Nitroaniline	BDL	22
Dimethylphthalate	BDL	4.4
Acenaphthylene	BDL	4.4
2,6-Dinitrotoluene	BDL	4.4
3-Nitroaniline	BDL	22
Acenaphthene	BDL	4.4
2,4-Dinitrophenol	BDL	22
4-Nitrophenol	BDL	22
Dibenzofuran	BDL	4.4
2,4-Dinitrotoluene	BDL	4.4
Diethylphthalate	BDL	4.4
4-Chlorophenyl-phenylether	BDL	4.4
Fluorene	BDL	4.4
4-Nitroaniline	BDL	22
4,6-Dinitro-2-methylphenol	BDL	22
N-Nitrosodiphenylamine	BDL	4.4
Azobenzene	BDL	4.4
4-Bromophenyl-phenylether	BDL	4.4
Hexachlorobenzene	BDL	4.4
Pentachlorophenol	BDL	4.4
Phenanthrene	BDL	4.4
Anthracene	BDL	4.4
Di-N-butylphthalate	BDL	4.4
Fluoranthene	BDL	4.4
Benzidine	BDL	22
Pyrene	BDL	4.4
Butylbenzylphthalate	BDL	4.4
3,3'-Dichlorobenzidine	BDL	8.8
Benzo(A)anthracene	BDL	4.4
Chrysene	BDL	4.4
Bis(2-ethylhexyl)phthalate	46	4.4
Di-N-octylphthalate	BDL	4.4
Benzo(B)fluoranthene	BDL	4.4
Benzo(K)fluoranthene	BDL	4.4
Benzo(A)pyrene	BDL	4.4
Indeno(1,2,3,-CD)pyrene	BDL	4.4
Dibenz(A,H)anthracene	BDL	4.4
Benzo(G,H,I)perylene	BDL	4.4

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8270

BDL = Below reporting limit
J = Probable presence below listed detection limit

This sample required dilution to bring a high target analyte concentration into the calibration range.
Detection limits were elevated accordingly.

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45418-007
Sample Designation: CLJ78-WS-001
Date Extracted: 09/22/95
Date Analyzed: 09/27/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 25 % , elevating the reporting limits
by a factor of 1.33 .

PCB'S	CONCENTRATION (ug/Kg)	REPORTING LIMIT (ug/Kg)
PCB-1242 (Arochlor 1242)	BDL	40
PCB-1254 (Arochlor 1254)	BDL	40
PCB-1221 (Arochlor 1221)	BDL	40
PCB-1232 (Arochlor 1232)	BDL	40
PCB-1248 (Arochlor 1248)	BDL	40
PCB-1260 (Arochlor 1260)	270	40
PCB-1016 (Arochlor 1016)	BDL	40

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHODS 3550 AND 8080

BDL = Below reporting limit

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45418-007DL
Sample Designation: CLJ78-WS-001DL
Date Extracted: 09/22/95
Date Analyzed: 09/28/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 25 % , elevating the reporting limits
by a factor of 1.33 .

PESTICIDES/PCB'S	CONCENTRATION (ug/Kg)	REPORTING LIMIT (ug/Kg)
Aldrin	BDL	400
alpha-BHC	BDL	400
beta-BHC	BDL	400
gamma-BHC (Lindane)	BDL	400
delta-BHC	BDL	400
alpha-Chlordane	BDL	400
gamma-Chlordane	BDL	400
4,4'-DDT	BDL	900
4,4'-DDE	BDL	400
4,4'-DDD	4700	900
Dieldrin	BDL	400
Endosulfan I	BDL	400
Endosulfan II	BDL	900
Endosulfan sulfate	BDL	900
Endrin	BDL	400
Endrin aldehyde	BDL	900
Heptachlor	BDL	400
Heptachlor Epoxide	BDL	400
Toxaphene	BDL	20000
Endrin Ketone	BDL	900
Methoxychlor	BDL	4000

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHODS 3550 AND 8080

BDL = Below reporting limit

pace INCORPORATED
THE ASSURANCE OF QUALITY

INORGANIC ANALYSIS DATA SHEET

Lab Name: PACE NE-NH, INC.

Matrix (soil/water): SOIL — Lab Sample ID: 45418-007

% Solids: 75.4 — Field ID: CLJ78-WS-001

Concentration Units (ug/L or mg/kg dry weight): mg/kg

Analyte	Concentration	C	Instr D.L.	M	QC Batch	Prep. Date	Analysis Date	Analysis Time
Aluminum	14100.00		18.70	P	21827	09/22/95	09/26/95	20:25
Antimony	1.40	U	1.40	P	21827	09/22/95	09/25/95	22:27
Arsenic	2.60		0.32	P	21827	09/22/95	09/25/95	18:13
Barium	12.80		0.10	P	21827	09/22/95	09/25/95	22:27
Beryllium	0.12	B	0.02	P	21827	09/22/95	09/25/95	22:27
Cadmium	0.17	U	0.17	P	21827	09/22/95	09/25/95	22:27
Calcium	1200.00		0.89	P	21827	09/22/95	09/25/95	22:27
Chromium	16.20		0.24	P	21827	09/22/95	09/25/95	22:27
Cobalt	0.66	B	0.29	P	21827	09/22/95	09/25/95	22:27
Copper	1.70	B	0.68	P	21827	09/22/95	09/25/95	22:27
Iron	6560.00		1.30	P	21827	09/22/95	09/25/95	22:27
Lead	6.50		1.90	P	21827	09/22/95	09/25/95	22:27
Magnesium	486.00		2.80	P	21827	09/22/95	09/25/95	22:27
Manganese	9.60		0.06	P	21827	09/22/95	09/25/95	22:27
Mercury	0.07	B	0.05	CV	70598	09/22/95	09/28/95	15:23
Nickel	1.60	B	0.67	P	21827	09/22/95	09/25/95	22:27
Potassium	496.00		60.90	P	21827	09/22/95	09/25/95	22:27
Selenium	1.20		0.43	P	21827	09/22/95	09/25/95	18:13
Silver	0.23	U	0.23	P	21827	09/22/95	09/25/95	22:27
Sodium	22.10	B	1.80	P	21827	09/22/95	09/25/95	22:27
Thallium	0.45	U	0.45	P	21827	09/22/95	09/25/95	18:13
Vanadium	19.60		0.30	P	21827	09/22/95	09/25/95	22:27
Zinc	7.20		0.71	P	21827	09/22/95	09/25/95	22:27

pace INCORPORATED THE ASSURANCE OF QUALITY

Laboratory number: 45418-008
Sample Designation: CLJ78-WS-002
Date Extracted: 09/22/95
Date Analyzed: 09/25/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 21 % , elevating the reporting limits by a factor of 1.27 .

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/g)		REPORTING LIMIT (ug/g)
N-Nitrosodimethylamine	BDL		2.1
Phenol	BDL		2.1
Aniline	BDL		2.1
Bis(2-chloroethyl)ether	BDL		2.1
2-Chlorophenol	BDL		2.1
1,3-Dichlorobenzene	BDL		2.1
1,4-Dichlorobenzene	BDL		2.1
Benzylalcohol	BDL		2.1
1,2-Dichlorobenzene	BDL		2.1
2-Methylphenol	BDL		2.1
Bis(2-chloroisopropyl)ether	BDL		2.1
4-Methylphenol	BDL		2.1
N-Nitroso-di-N-propylamine	BDL		2.1
Hexachloroethane	BDL		2.1
Nitrobenzene	BDL		2.1
Isophorone	BDL		2.1
2-Nitrophenol	BDL		2.1
2,4-Dimethylphenol	BDL		2.1
Benzoic acid	BDL		10
Bis(2-chloroethoxy)methane	BDL		2.1
2,4-Dichlorophenol	BDL		2.1
1,2,4-Trichlorobenzene	BDL		2.1
Naphthalene	0.6	J	2.1
4-Chloroaniline	BDL		2.1
Hexachlorobutadiene	BDL		2.1
4-Chloro-3-methylphenol	BDL		2.1
2-Methylnaphthalene	BDL		2.1
Hexachlorocyclopentadiene	BDL		2.1
2,4,6-Trichlorophenol	BDL		2.1
2,4,5-Trichlorophenol	BDL		10
2-Chloronaphthalene	BDL		2.1
2-Nitroaniline	BDL		10
Dimethylphthalate	BDL		2.1
Acenaphthylene	BDL		2.1
2,6-Dinitrotoluene	BDL		2.1
3-Nitroaniline	BDL		10
Acenaphthene	BDL		2.1
2,4-Dinitrophenol	BDL		10
4-Nitrophenol	BDL		10
Dibenzofuran	BDL		2.1
2,4-Dinitrotoluene	BDL		2.1
Diethylphthalate	BDL		2.1
4-Chlorophenyl-phenylether	BDL		2.1
Fluorene	BDL		2.1
4-Nitroaniline	BDL		10
4,6-Dinitro-2-methylphenol	BDL		10
N-Nitrosodiphenylamine	BDL		2.1
Azobenzene	BDL		2.1
4-Bromophenyl-phenylether	BDL		2.1
Hexachlorobenzene	BDL		2.1
Pentachlorophenol	BDL		2.1
Phenanthrene	BDL		2.1
Anthracene	BDL		2.1
Di-N-butylphthalate	BDL		2.1
Fluoranthene	BDL		2.1
Benzidine	BDL		10
Pyrene	BDL		2.1
Butylbenzylphthalate	BDL		2.1
3,3'-Dichlorobenzidine	BDL		4.1
Benzo(A)anthracene	BDL		2.1
Chrysene	BDL		2.1
Bis(2-ethylhexyl)phthalate	14		2.1
Di-N-octylphthalate	BDL		2.1
Benzo(B)fluoranthene	BDL		2.1
Benzo(K)fluoranthene	BDL		2.1
Benzo(A)pyrene	BDL		2.1
Indeno(1,2,3,-CD)pyrene	BDL		2.1
Dibenz(A,H)anthracene	BDL		2.1
Benzo(G,H,I)perylene	BDL		2.1

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8270

BDL = Below reporting limit
J = Probable presence below listed detection limit

This sample required dilution to bring a high target analyte concentration into the calibration range.
Detection limits were elevated accordingly.

pace INCORPORATED THE ASSURANCE OF QUALITY

Laboratory number: 45418-008
Sample Designation: CLJ78-WS-002
Date Extracted: 09/22/95
Date Analyzed: 09/27/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 21 % , elevating the reporting limits
by a factor of 1.27 .

PESTICIDES/PCB'S	CONCENTRATION (ug/Kg)	REPORTING LIMIT (ug/Kg)
Aldrin	BDL	80
alpha-BHC	BDL	80
beta-BHC	BDL	80
gamma-BHC (Lindane)	BDL	80
delta-BHC	BDL	80
alpha-Chlordane	BDL	80
gamma-Chlordane	BDL	80
4,4'-DDT	BDL	200
4,4'-DDE	87	80
4,4'-DDD	1500	200
Dieldrin	BDL	80
Endosulfan I	BDL	80
Endosulfan II	BDL	200
Endosulfan sulfate	BDL	200
Endrin	BDL	80
Endrin aldehyde	BDL	200
Heptachlor	BDL	80
Heptachlor Epoxide	BDL	80
PCB-1242 (Arochlor 1242)	BDL	800
PCB-1254 (Arochlor 1254)	BDL	800
PCB-1221 (Arochlor 1221)	BDL	800
PCB-1232 (Arochlor 1232)	BDL	800
PCB-1248 (Arochlor 1248)	BDL	800
PCB-1260 (Arochlor 1260)	BDL	800
PCB-1016 (Arochlor 1016)	BDL	800
Toxaphene	BDL	3000
Endrin Ketone	BDL	200
Methoxychlor	BDL	800

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHODS 3550 AND 8080

BDL = Below reporting limit

This sample required dilution to bring a high target analyte concentration into the calibration range.
Detection limits were elevated accordingly.

pace INCORPORATED
THE ASSURANCE OF QUALITY

INORGANIC ANALYSIS DATA SHEET

Lab Name: PACE NE-NH, INC.

Matrix (soil/water): SOIL — Lab Sample ID: 45418-008

% Solids: 78.6 — Field ID: CLJ78-WS-002

Concentration Units (ug/L or mg/kg dry weight): mg/kg

Analyte	Concentration	C	Instr D.L.	M	QC Batch	Prep. Date	Analysis Date	Analysis Time
Aluminum	6560.00		1.40	P	21827	09/22/95	09/25/95	22:32
Antimony	1.10	U	1.10	P	21827	09/22/95	09/25/95	22:32
Arsenic	2.00		0.24	P	21827	09/22/95	09/25/95	18:18
Barium	12.20		0.07	P	21827	09/22/95	09/25/95	22:32
Beryllium	0.11	B	0.02	P	21827	09/22/95	09/25/95	22:32
Cadmium	0.13	U	0.13	P	21827	09/22/95	09/25/95	22:32
Calcium	296.00		0.68	P	21827	09/22/95	09/25/95	22:32
Chromium	7.70		0.19	P	21827	09/22/95	09/25/95	22:32
Cobalt	0.22	B	0.22	P	21827	09/22/95	09/25/95	22:32
Copper	1.60	B	0.52	P	21827	09/22/95	09/25/95	22:32
Iron	2740.00		1.00	P	21827	09/22/95	09/25/95	22:32
Lead	5.60		1.40	P	21827	09/22/95	09/25/95	22:32
Magnesium	156.00		2.10	P	21827	09/22/95	09/25/95	22:32
Manganese	5.90		0.05	P	21827	09/22/95	09/25/95	22:32
Mercury	0.05	U	0.05	CV	70598	09/22/95	09/28/95	15:26
Nickel	1.30	B	0.51	P	21827	09/22/95	09/25/95	22:32
Potassium	131.00	B	46.50	P	21827	09/22/95	09/25/95	22:32
Selenium	0.33	B	0.33	P	21827	09/22/95	09/25/95	18:18
Silver	0.18	U	0.18	P	21827	09/22/95	09/25/95	22:32
Sodium	12.90	B	1.40	P	21827	09/22/95	09/25/95	22:32
Thallium	0.34	U	0.34	P	21827	09/22/95	09/25/95	18:18
Vanadium	8.00		0.23	P	21827	09/22/95	09/25/95	22:32
Zinc	4.50		0.54	P	21827	09/22/95	09/25/95	22:32

pace INCORPORATED THE ASSURANCE OF QUALITY

Laboratory number: 45418-009
Sample Designation: CLJ78-WS-003
Date Extracted: 09/22/95
Date Analyzed: 09/25/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 17 % , elevating the reporting limits by a factor of 1.21 .

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
N-Nitrosodimethylamine	BDL	0.8
Phenol	BDL	0.8
Aniline	BDL	0.8
Bis(2-chloroethyl)ether	BDL	0.8
2-Chlorophenol	BDL	0.8
1,3-Dichlorobenzene	BDL	0.8
1,4-Dichlorobenzene	BDL	0.8
Benzylalcohol	BDL	0.8
1,2-Dichlorobenzene	BDL	0.8
2-Methylphenol	BDL	0.8
Bis(2-chloroisopropyl)ether	BDL	0.8
4-Methylphenol	BDL	0.8
N-Nitroso-di-N-propylamine	BDL	0.8
Hexachloroethane	BDL	0.8
Nitrobenzene	BDL	0.8
Isophorone	BDL	0.8
2-Nitrophenol	BDL	0.8
2,4-Dimethylphenol	BDL	0.8
Benzoic acid	BDL	3.9
Bis(2-chloroethoxy)methane	BDL	0.8
2,4-Dichlorophenol	BDL	0.8
1,2,4-Trichlorobenzene	BDL	0.8
Naphthalene	BDL	0.8
4-Chloroaniline	BDL	0.8
Hexachlorobutadiene	BDL	0.8
4-Chloro-3-methylphenol	BDL	0.8
2-Methylnaphthalene	BDL	0.8
Hexachlorocyclopentadiene	BDL	0.8
2,4,6-Trichlorophenol	BDL	0.8
2,4,5-Trichlorophenol	BDL	3.9
2-Chloronaphthalene	BDL	0.8
2-Nitroaniline	BDL	3.9
Dimethylphthalate	BDL	0.8
Acenaphthylene	BDL	0.8
2,6-Dinitrotoluene	BDL	0.8
3-Nitroaniline	BDL	3.9
Acenaphthene	BDL	0.8
2,4-Dinitrophenol	BDL	3.9
4-Nitrophenol	BDL	3.9
Dibenzofuran	BDL	0.8
2,4-Dinitrotoluene	BDL	0.8
Diethylphthalate	BDL	0.8
4-Chlorophenyl-phenylether	BDL	0.8
Fluorene	BDL	0.8
4-Nitroaniline	BDL	3.9
4,6-Dinitro-2-methylphenol	BDL	3.9
N-Nitrosodiphenylamine	BDL	0.8
Azobenzene	BDL	0.8
4-Bromophenyl-phenylether	BDL	0.8
Hexachlorobenzene	BDL	0.8
Pentachlorophenol	BDL	0.8
Phenanthrene	BDL	0
Anthracene	BDL	0.8
Di-N-butylphthalate	BDL	0.8
Fluoranthene	BDL	0.8
Benzidine	BDL	3.9
Pyrene	BDL	0.8
Butylbenzylphthalate	BDL	0.8
3,3'-Dichlorobenzidine	BDL	1.6
Benzo(A)anthracene	BDL	0.8
Chrysene	BDL	0.8
Bis(2-ethylhexyl)phthalate	2.6	0.8
Di-N-octylphthalate	BDL	0.8
Benzo(B)fluoranthene	BDL	0.8
Benzo(K)fluoranthene	BDL	0.8
Benzo(A)pyrene	BDL	0.8
Indeno(1,2,3,-CD)pyrene	BDL	0.8
Dibenz(A,H)anthracene	BDL	0.8
Benzo(G,H,I)perylene	BDL	0.8

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

Detection limit raised by the presence of non-listed compounds.

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45418-009
Sample Designation: CLJ78-WS-003
Date Extracted: 09/22/95
Date Analyzed: 09/28/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 17 % , elevating the reporting limits
by a factor of 1.21 .

PESTICIDES/PCB'S	CONCENTRATION (ug/Kg)	REPORTING LIMIT (ug/Kg)
Aldrin	BDL	80
alpha-BHC	BDL	80
beta-BHC	BDL	80
gamma-BHC (Lindane)	BDL	80
delta-BHC	BDL	80
alpha-Chlordane	BDL	80
gamma-Chlordane	BDL	80
4,4'-DDT	BDL	200
4,4'-DDE	96	80
4,4'-DDD	920	200
Dieldrin	BDL	80
Endosulfan I	BDL	80
Endosulfan II	BDL	200
Endosulfan sulfate	BDL	200
Endrin	BDL	80
Endrin aldehyde	BDL	200
Heptachlor	BDL	80
Heptachlor Epoxide	BDL	80
PCB-1242 (Arochlor 1242)	BDL	800
PCB-1254 (Arochlor 1254)	BDL	800
PCB-1221 (Arochlor 1221)	BDL	800
PCB-1232 (Arochlor 1232)	BDL	800
PCB-1248 (Arochlor 1248)	BDL	800
PCB-1260 (Arochlor 1260)	BDL	800
PCB-1016 (Arochlor 1016)	BDL	800
Toxaphene	BDL	3000
Endrin Ketone	BDL	200
Methoxychlor	BDL	800

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHODS 3550 AND 8080

BDL = Below reporting limit

This sample required dilution to bring a high target analyte concentration into the calibration range.
Detection limits were elevated accordingly.

pace INCORPORATED
THE ASSURANCE OF QUALITY

INORGANIC ANALYSIS DATA SHEET

Lab Name: PACE NE-NH, INC.

Matrix (soil/water): SOIL Lab Sample ID: 45418-009

% Solids: 82.7 Field ID: CLJ78-WS-003

Concentration Units (ug/L or mg/kg dry weight): mg/kg

Analyte	Concentration	C	Instr D.L.	M	QC Batch	Prep. Date	Analysis Date	Analysis Time
Aluminum	8800.00		15.80	P	21827	09/22/95	09/26/95	20:30
Antimony	1.20	U	1.20	P	21827	09/22/95	09/25/95	22:37
Arsenic	1.40		0.27	P	21827	09/22/95	09/25/95	18:22
Barium	12.10		0.08	P	21827	09/22/95	09/25/95	22:37
Beryllium	0.08	B	0.02	P	21827	09/22/95	09/25/95	22:37
Cadmium	0.14	U	0.14	P	21827	09/22/95	09/25/95	22:37
Calcium	482.00		0.75	P	21827	09/22/95	09/25/95	22:37
Chromium	10.40		0.20	P	21827	09/22/95	09/25/95	22:37
Cobalt	0.38	B	0.25	P	21827	09/22/95	09/25/95	22:37
Copper	1.60	B	0.57	P	21827	09/22/95	09/25/95	22:37
Iron	3110.00		1.10	P	21827	09/22/95	09/25/95	22:37
Lead	10.40		1.60	P	21827	09/22/95	09/25/95	22:37
Magnesium	260.00		2.30	P	21827	09/22/95	09/25/95	22:37
Manganese	8.60		0.05	P	21827	09/22/95	09/25/95	22:37
Mercury	0.05	U	0.05	CV	70598	09/22/95	09/28/95	15:29
Nickel	1.90	B	0.56	P	21827	09/22/95	09/25/95	22:37
Potassium	206.00	B	51.30	P	21827	09/22/95	09/25/95	22:37
Selenium	0.36	U	0.36	P	21827	09/22/95	09/25/95	18:22
Silver	0.23	B	0.19	P	21827	09/22/95	09/25/95	22:37
Sodium	15.00	B	1.50	P	21827	09/22/95	09/25/95	22:37
Thallium	0.38	U	0.38	P	21827	09/22/95	09/25/95	18:22
Vanadium	11.10		0.26	P	21827	09/22/95	09/25/95	22:37
Zinc	17.20		0.59	P	21827	09/22/95	09/25/95	22:37

pace INCORPORATED THE ASSURANCE OF QUALITY

Laboratory number: 45418-010
Sample Designation: CLJ78-WS-004
Date Extracted: 09/22/95
Date Analyzed: 09/25/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 20 % , elevating the reporting limits by a factor of 1.26 .

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/g)		REPORTING LIMIT (ug/g)
N-Nitrosodimethylamine	BDL		0.4
Phenol	BDL		0.4
Aniline	BDL		0.4
Bis(2-chloroethyl)ether	BDL		0.4
2-Chlorophenol	BDL		0.4
1,3-Dichlorobenzene	BDL		0.4
1,4-Dichlorobenzene	BDL		0.4
Benzylalcohol	BDL		0.4
1,2-Dichlorobenzene	BDL		0.4
2-Methylphenol	BDL		0.4
Bis(2-chloroisopropyl)ether	BDL		0.4
4-Methylphenol	BDL		0.4
N-Nitroso-di-N-propylamine	BDL		0.4
Hexachloroethane	BDL		0.4
Nitrobenzene	BDL		0.4
Isophorone	BDL		0.4
2-Nitrophenol	BDL		0.4
2,4-Dimethylphenol	BDL		0.4
Benzoic acid	BDL		2.1
Bis(2-chloroethoxy)methane	BDL		0.4
2,4-Dichlorophenol	BDL		0.4
1,2,4-Trichlorobenzene	BDL		0.4
Naphthalene	0.1	J	0.4
4-Chloroaniline	BDL		0.4
Hexachlorobutadiene	BDL		0.4
4-Chloro-3-methylphenol	BDL		0.4
2-Methylnaphthalene	BDL		0.4
Hexachlorocyclopentadiene	BDL		0.4
2,4,6-Trichlorophenol	BDL		0.4
2,4,5-Trichlorophenol	BDL		2.1
2-Chloronaphthalene	BDL		0.4
2-Nitroaniline	BDL		2.1
Dimethylphthalate	BDL		0.4
Acenaphthylene	BDL		0.4
2,6-Dinitrotoluene	BDL		0.4

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/g)		REPORTING LIMIT (ug/g)
3-Nitroaniline	BDL		2.1
Acenaphthene	BDL		0.4
2,4-Dinitrophenol	BDL		2.1
4-Nitrophenol	BDL		2.1
Dibenzofuran	BDL		0.4
2,4-Dinitrotoluene	BDL		0.4
Diethylphthalate	BDL		0.4
4-Chlorophenyl-phenylether	BDL		0.4
Fluorene	BDL		0.4
4-Nitroaniline	BDL		2.1
4,6-Dinitro-2-methylphenol	BDL		2.1
N-Nitrosodiphenylamine	BDL		0.4
Azobenzene	BDL		0.4
4-Bromophenyl-phenylether	BDL		0.4
Hexachlorobenzene	BDL		0.4
Pentachlorophenol	BDL		0.4
Phenanthrene	BDL		0.4
Anthracene	BDL		0.4
Di-N-butylphthalate	BDL		0.4
Fluoranthene	BDL		0.4
Benzidine	BDL		2.1
Pyrene	BDL		0.4
Butylbenzylphthalate	0.2	J	0.4
3,3'-Dichlorobenzidine	BDL		0.8
Benzo(A)anthracene	BDL		0.4
Chrysene	BDL		0.4
Bis(2-ethylhexyl)phthalate	3.4		0.4
Di-N-octylphthalate	BDL		0.4
Benzo(B)fluoranthene	BDL		0.4
Benzo(K)fluoranthene	BDL		0.4
Benzo(A)pyrene	BDL		0.4
Indeno(1,2,3,-CD)pyrene	BDL		0.4
Dibenz(A,H)anthracene	BDL		0.4
Benzo(G,H,I)perylene	BDL		0.4

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8270

BDL = Below reporting limit
J = Probable presence below listed detection limit

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45418-010
Sample Designation: CLJ78-WS-004
Date Extracted: 09/22/95
Date Analyzed: 09/27/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 20 % , elevating the reporting limits
by a factor of 1.26 .

PCB'S	CONCENTRATION (ug/Kg)	REPORTING LIMIT (ug/Kg)
PCB-1242 (Arochlor 1242)	BDL	40
PCB-1254 (Arochlor 1254)	BDL	40
PCB-1221 (Arochlor 1221)	BDL	40
PCB-1232 (Arochlor 1232)	BDL	40
PCB-1248 (Arochlor 1248)	BDL	40
PCB-1260 (Arochlor 1260)	78	40
PCB-1016 (Arochlor 1016)	BDL	40

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHODS 3550 AND 8080

BDL = Below reporting limit

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45418-010DL
Sample Designation: CLJ78-WS-004DL
Date Extracted: 09/22/95
Date Analyzed: 09/28/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 20 % , elevating the reporting limits
by a factor of 1.26 .

PESTICIDES/PCB'S	CONCENTRATION (ug/Kg)	REPORTING LIMIT (ug/Kg)
Aldrin	BDL	40
alpha-BHC	BDL	40
beta-BHC	BDL	40
gamma-BHC (Lindane)	BDL	40
delta-BHC	BDL	40
alpha-Chlordane	BDL	40
gamma-Chlordane	BDL	40
4,4'-DDT	BDL	80
4,4'-DDE	58	40
4,4'-DDD	410	80
Dieldrin	BDL	40
Endosulfan I	BDL	40
Endosulfan II	BDL	80
Endosulfan sulfate	BDL	80
Endrin	BDL	40
Endrin aldehyde	BDL	80
Heptachlor	BDL	40
Heptachlor Epoxide	BDL	40
Toxaphene	BDL	2000
Endrin Ketone	BDL	80
Methoxychlor	BDL	400

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHODS 3550 AND 8080

BDL = Below reporting limit

pace INCORPORATED
THE ASSURANCE OF QUALITY

INORGANIC ANALYSIS DATA SHEET

Lab Name: PACE NE-NH, INC.

Matrix (soil/water): SOIL — Lab Sample ID: 45418-010

% Solids: 79.5 — Field ID: CLJ78-WS-004

Concentration Units (ug/L or mg/kg dry weight): mg/kg

Analyte	Concentration	C	Instr D.L.	M	QC Batch	Prep. Date	Analysis Date	Analysis Time
Aluminum	5740.00		1.40	P	21827	09/22/95	09/25/95	22:42
Antimony	1.10	U	1.10	P	21827	09/22/95	09/25/95	22:42
Arsenic	1.10		0.24	P	21827	09/22/95	09/25/95	18:27
Barium	15.50		0.07	P	21827	09/22/95	09/25/95	22:42
Beryllium	0.09	B	0.02	P	21827	09/22/95	09/25/95	22:42
Cadmium	0.14	B	0.13	P	21827	09/22/95	09/25/95	22:42
Calcium	952.00		0.67	P	21827	09/22/95	09/25/95	22:42
Chromium	10.30		0.18	P	21827	09/22/95	09/25/95	22:42
Cobalt	0.40	B	0.22	P	21827	09/22/95	09/25/95	22:42
Copper	12.40		0.51	P	21827	09/22/95	09/25/95	22:42
Iron	2120.00		1.00	P	21827	09/22/95	09/25/95	22:42
Lead	11.10		1.40	P	21827	09/22/95	09/25/95	22:42
Magnesium	157.00		2.10	P	21827	09/22/95	09/25/95	22:42
Manganese	8.30		0.05	P	21827	09/22/95	09/25/95	22:42
Mercury	0.12	B	0.06	CV	70598	09/22/95	09/28/95	15:32
Nickel	1.50	B	0.50	P	21827	09/22/95	09/25/95	22:42
Potassium	116.00	B	45.90	P	21827	09/22/95	09/25/95	22:42
Selenium	0.32	U	0.32	P	21827	09/22/95	09/25/95	18:27
Silver	0.58	B	0.17	P	21827	09/22/95	09/25/95	22:42
Sodium	16.30	B	1.40	P	21827	09/22/95	09/25/95	22:42
Thallium	0.34	U	0.34	P	21827	09/22/95	09/25/95	18:27
Vanadium	7.10		0.23	P	21827	09/22/95	09/25/95	22:42
Zinc	16.70		0.53	P	21827	09/22/95	09/25/95	22:42

pace INCORPORATED THE ASSURANCE OF QUALITY

Laboratory number: 45418-011
Sample Designation: CLJ78-WS-005
Date Extracted: 09/22/95
Date Analyzed: 09/25/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 18 % , elevating the reporting limits by a factor of 1.21 .

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
N-Nitrosodimethylamine	BDL	0.4
Phenol	BDL	0.4
Aniline	BDL	0.4
Bis(2-chloroethyl)ether	BDL	0.4
2-Chlorophenol	BDL	0.4
1,3-Dichlorobenzene	BDL	0.4
1,4-Dichlorobenzene	BDL	0.4
Benzylalcohol	BDL	0.4
1,2-Dichlorobenzene	BDL	0.4
2-Methylphenol	BDL	0.4
Bis(2-chloroisopropyl)ether	BDL	0.4
4-Methylphenol	BDL	0.4
N-Nitroso-di-N-propylamine	BDL	0.4
Hexachloroethane	BDL	0.4
Nitrobenzene	BDL	0.4
Isophorone	BDL	0.4
2-Nitrophenol	BDL	0.4
2,4-Dimethylphenol	BDL	0.4
Benzoic acid	BDL	2.0
Bis(2-chloroethoxy)methane	BDL	0.4
2,4-Dichlorophenol	BDL	0.4
1,2,4-Trichlorobenzene	BDL	0.4
Naphthalene	0.6	0.4
4-Chloroaniline	BDL	0.4
Hexachlorobutadiene	BDL	0.4
4-Chloro-3-methylphenol	BDL	0.4
2-Methylnaphthalene	0.1 J	0.4
Hexachlorocyclopentadiene	BDL	0.4
2,4,6-Trichlorophenol	BDL	0.4
2,4,5-Trichlorophenol	BDL	2.0
2-Chloronaphthalene	BDL	0.4
2-Nitroaniline	BDL	2.0
Dimethylphthalate	BDL	0.4
Acenaphthylene	BDL	0.4
2,6-Dinitrotoluene	BDL	0.4
3-Nitroaniline	BDL	2.0
Acenaphthene	BDL	0.4
2,4-Dinitrophenol	BDL	2.0
4-Nitrophenol	BDL	2.0
Dibenzofuran	BDL	0.4
2,4-Dinitrotoluene	BDL	0.4
Diethylphthalate	BDL	0.4
4-Chlorophenyl-phenylether	BDL	0.4
Fluorene	BDL	0.4
4-Nitroaniline	BDL	2.0
4,6-Dinitro-2-methylphenol	BDL	2.0
N-Nitrosodiphenylamine	BDL	0.4
Azobenzene	BDL	0.4
4-Bromophenyl-phenylether	BDL	0.4
Hexachlorobenzene	BDL	0.4
Pentachlorophenol	BDL	0.4
Phenanthrene	BDL	0.4
Anthracene	BDL	0.4
Di-N-butylphthalate	BDL	0.4
Fluoranthene	BDL	0.4
Benzidine	BDL	2.0
Pyrene	BDL	0.4
Butylbenzylphthalate	BDL	0.4
3,3'-Dichlorobenzidine	BDL	0.8
Benzo(A)anthracene	BDL	0.4
Chrysene	BDL	0.4
Bis(2-ethylhexyl)phthalate	1.1	0.4
Di-N-octylphthalate	BDL	0.4
Benzo(B)fluoranthene	BDL	0.4
Benzo(K)fluoranthene	BDL	0.4
Benzo(A)pyrene	BDL	0.4
Indeno(1,2,3,-CD)pyrene	BDL	0.4
Dibenz(A,H)anthracene	BDL	0.4
Benzo(G,H,I)perylene	BDL	0.4

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8270

BDL = Below reporting limit
J = Probable presence below listed detection limit

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45418-011
Sample Designation: CLJ78-WS-005
Date Extracted: 09/22/95
Date Analyzed: 09/28/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 18 % , elevating the reporting limits
by a factor of 1.21 .

PESTICIDES/PCB'S	CONCENTRATION (ug/Kg)		REPORTING LIMIT (ug/Kg)
Aldrin	BDL		8
alpha-BHC	BDL		8
beta-BHC	BDL		8
gamma-BHC (Lindane)	BDL		8
delta-BHC	BDL		8
alpha-Chlordane	BDL		8
gamma-Chlordane	BDL		8
4,4'-DDT	14	J	20
4,4'-DDE	47		8
4,4'-DDD	110		20
Dieldrin	BDL		8
Endosulfan I	BDL		8
Endosulfan II	BDL		20
Endosulfan sulfate	BDL		20
Endrin	BDL		8
Endrin aldehyde	BDL		20
Heptachlor	BDL		8
Heptachlor Epoxide	BDL		8
PCB-1242 (Arochlor 1242)	BDL		80
PCB-1254 (Arochlor 1254)	BDL		80
PCB-1221 (Arochlor 1221)	BDL		80
PCB-1232 (Arochlor 1232)	BDL		80
PCB-1248 (Arochlor 1248)	BDL		80
PCB-1260 (Arochlor 1260)	BDL		80
PCB-1016 (Arochlor 1016)	BDL		80
Toxaphene	BDL		300
Endrin Ketone	BDL		20
Methoxychlor	BDL		80

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHODS 3550 AND 8080

BDL = Below reporting limit
J = Probable presence below listed detection limit

pace INCORPORATED
THE ASSURANCE OF QUALITY

INORGANIC ANALYSIS DATA SHEET

Lab Name: PACE NE-NH, INC.

Matrix (soil/water): SOIL Lab Sample ID: 45418-011

% Solids: 82.5 Field ID: CLJ78-WS-005

Concentration Units (ug/L or mg/kg dry weight): mg/kg

Analyte	Concentration	C	Instr D.L.	M	QC Batch	Prep. Date	Analysis Date	Analysis Time
Aluminum	9700.00		15.60	P	21827	09/22/95	09/26/95	20:35
Antimony	1.20	U	1.20	P	21827	09/22/95	09/25/95	22:47
Arsenic	1.60		0.26	P	21827	09/22/95	09/25/95	18:32
Barium	13.20		0.08	P	21827	09/22/95	09/25/95	22:47
Beryllium	0.12	B	0.02	P	21827	09/22/95	09/25/95	22:47
Cadmium	0.14	U	0.14	P	21827	09/22/95	09/25/95	22:47
Calcium	516.00		0.74	P	21827	09/22/95	09/25/95	22:47
Chromium	11.20		0.20	P	21827	09/22/95	09/25/95	22:47
Cobalt	0.42	B	0.24	P	21827	09/22/95	09/25/95	22:47
Copper	1.20	B	0.57	P	21827	09/22/95	09/25/95	22:47
Iron	3790.00		1.10	P	21827	09/22/95	09/25/95	22:47
Lead	6.50		1.60	P	21827	09/22/95	09/25/95	22:47
Magnesium	362.00		2.30	P	21827	09/22/95	09/25/95	22:47
Manganese	8.20		0.05	P	21827	09/22/95	09/25/95	22:47
Mercury	0.05	U	0.05	CV	70598	09/22/95	09/28/95	15:35
Nickel	1.80	B	0.56	P	21827	09/22/95	09/25/95	22:47
Potassium	303.00		50.50	P	21827	09/22/95	09/25/95	22:47
Selenium	0.35	U	0.35	P	21827	09/22/95	09/25/95	18:32
Silver	0.19	U	0.19	P	21827	09/22/95	09/25/95	22:47
Sodium	18.30	B	1.50	P	21827	09/22/95	09/25/95	22:47
Thallium	0.37	U	0.37	P	21827	09/22/95	09/25/95	18:32
Vanadium	12.50		0.25	P	21827	09/22/95	09/25/95	22:47
Zinc	6.20		0.59	P	21827	09/22/95	09/25/95	22:47

pace INCORPORATED THE ASSURANCE OF QUALITY

Laboratory number: 45418-012
Sample Designation: CLJ78-WS-006
Date Extracted: 09/22/95
Date Analyzed: 09/25/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 19 % , elevating the reporting limits by a factor of 1.23 .

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/g)		REPORTING LIMIT (ug/g)
N-Nitrosodimethylamine	BDL		0.4
Phenol	BDL		0.4
Aniline	BDL		0.4
Bis(2-chloroethyl)ether	BDL		0.4
2-Chlorophenol	BDL		0.4
1,3-Dichlorobenzene	BDL		0.4
1,4-Dichlorobenzene	BDL		0.4
Benzylalcohol	BDL		0.4
1,2-Dichlorobenzene	BDL		0.4
2-Methylphenol	BDL		0.4
Bis(2-chloroisopropyl)ether	BDL		0.4
4-Methylphenol	BDL		0.4
N-Nitroso-di-N-propylamine	BDL		0.4
Hexachloroethane	BDL		0.4
Nitrobenzene	BDL		0.4
Isophorone	BDL		0.4
2-Nitrophenol	BDL		0.4
2,4-Dimethylphenol	BDL		0.4
Benzoic acid	BDL		2.0
Bis(2-chloroethoxy)methane	BDL		0.4
2,4-Dichlorophenol	BDL		0.4
1,2,4-Trichlorobenzene	BDL		0.4
Naphthalene	0.3	J	0.4
4-Chloroaniline	BDL		0.4
Hexachlorobutadiene	BDL		0.4
4-Chloro-3-methylphenol	BDL		0.4
2-Methylnaphthalene	BDL		0.4
Hexachlorocyclopentadiene	BDL		0.4
2,4,6-Trichlorophenol	BDL		0.4
2,4,5-Trichlorophenol	BDL		2.0
2-Chloronaphthalene	BDL		0.4
2-Nitroaniline	BDL		2.0
Dimethylphthalate	BDL		0.4
Acenaphthylene	BDL		0.4
2,6-Dinitrotoluene	BDL		0.4
3-Nitroaniline	BDL		2.0
Acenaphthene	BDL		0.4
2,4-Dinitrophenol	BDL		2.0
4-Nitrophenol	BDL		2.0
Dibenzofuran	BDL		0.4
2,4-Dinitrotoluene	BDL		0.4
Diethylphthalate	BDL		0.4
4-Chlorophenyl-phenylether	BDL		0.4
Fluorene	BDL		0.4
4-Nitroaniline	BDL		2.0
4,6-Dinitro-2-methylphenol	BDL		2.0
N-Nitrosodiphenylamine	BDL		0.4
Azobenzene	BDL		0.4
4-Bromophenyl-phenylether	BDL		0.4
Hexachlorobenzene	BDL		0.4
Pentachlorophenol	BDL		0.4
Phenanthrene	BDL		0
Anthracene	BDL		0.4
Di-N-butylphthalate	BDL		0.4
Fluoranthene	BDL		0.4
Benzidine	BDL		2.0
Pyrene	BDL		0.4
Butylbenzylphthalate	BDL		0.4
3,3'-Dichlorobenzidine	BDL		0.8
Benzo(A)anthracene	BDL		0.4
Chrysene	BDL		0.4
Bis(2-ethylhexyl)phthalate	0.9		0.4
Di-N-octylphthalate	BDL		0.4
Benzo(B)fluoranthene	BDL		0.4
Benzo(K)fluoranthene	BDL		0.4
Benzo(A)pyrene	BDL		0.4
Indeno(1,2,3,-CD)pyrene	BDL		0.4
Dibenz(A,H)anthracene	BDL		0.4
Benzo(G,H,I)perylene	BDL		0.4

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8270

BDL = Below reporting limit
J = Probable presence below listed detection limit

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45418-012
Sample Designation: CLJ78-WS-006
Date Extracted: 09/22/95
Date Analyzed: 09/28/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 19 % , elevating the reporting limits
by a factor of 1.23 .

PESTICIDES/PCB'S	CONCENTRATION (ug/Kg)	REPORTING LIMIT (ug/Kg)
Aldrin	BDL	8
alpha-BHC	BDL	8
beta-BHC	BDL	8
gamma-BHC (Lindane)	BDL	8
delta-BHC	BDL	8
alpha-Chlordane	BDL	8
gamma-Chlordane	BDL	8
4,4'-DDT	BDL	20
4,4'-DDE	12	8
4,4'-DDD	100	20
Dieldrin	BDL	8
Endosulfan I	BDL	8
Endosulfan II	BDL	20
Endosulfan sulfate	BDL	20
Endrin	BDL	8
Endrin aldehyde	BDL	20
Heptachlor	BDL	8
Heptachlor Epoxide	BDL	8
PCB-1242 (Arochlor 1242)	BDL	80
PCB-1254 (Arochlor 1254)	BDL	80
PCB-1221 (Arochlor 1221)	BDL	80
PCB-1232 (Arochlor 1232)	BDL	80
PCB-1248 (Arochlor 1248)	BDL	80
PCB-1260 (Arochlor 1260)	BDL	80
PCB-1016 (Arochlor 1016)	BDL	80
Toxaphene	BDL	300
Endrin Ketone	BDL	20
Methoxychlor	BDL	80

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHODS 3550 AND 8080

BDL = Below reporting limit

pace INCORPORATED
THE ASSURANCE OF QUALITY

INORGANIC ANALYSIS DATA SHEET

Lab Name: PACE NE-NH, INC.

Matrix (soil/water): SOIL — Lab Sample ID: 45418-012

% Solids: 81.2 — Field ID: CLJ78-WS-006

Concentration Units (ug/L or mg/kg dry weight): mg/kg

Analyte	Concentration	C	Instr D.L.	M	QC Batch	Prep. Date	Analysis Date	Analysis Time
Aluminum	6200.00		1.90	P	21827	09/22/95	09/25/95	22:52
Antimony	1.40	U	1.40	P	21827	09/22/95	09/25/95	22:52
Arsenic	1.00	B	0.31	P	21827	09/22/95	09/25/95	18:36
Barium	9.60	B	0.10	P	21827	09/22/95	09/25/95	22:52
Beryllium	0.08	B	0.02	P	21827	09/22/95	09/25/95	22:52
Cadmium	0.17	B	0.17	P	21827	09/22/95	09/25/95	22:52
Calcium	597.00		0.88	P	21827	09/22/95	09/25/95	22:52
Chromium	7.90		0.24	P	21827	09/22/95	09/25/95	22:52
Cobalt	0.29	U	0.29	P	21827	09/22/95	09/25/95	22:52
Copper	0.68	B	0.68	P	21827	09/22/95	09/25/95	22:52
Iron	2240.00		1.30	P	21827	09/22/95	09/25/95	22:52
Lead	7.20		1.90	P	21827	09/22/95	09/25/95	22:52
Magnesium	188.00		2.80	P	21827	09/22/95	09/25/95	22:52
Manganese	5.20		0.06	P	21827	09/22/95	09/25/95	22:52
Mercury	0.07	U	0.07	CV	70598	09/22/95	09/28/95	15:38
Nickel	0.66	U	0.66	P	21827	09/22/95	09/25/95	22:52
Potassium	163.00	B	60.40	P	21827	09/22/95	09/25/95	22:52
Selenium	0.42	U	0.42	P	21827	09/22/95	09/25/95	18:36
Silver	0.29	B	0.23	P	21827	09/22/95	09/25/95	22:52
Sodium	17.30	B	1.80	P	21827	09/22/95	09/25/95	22:52
Thallium	0.45	U	0.45	P	21827	09/22/95	09/25/95	18:36
Vanadium	7.70		0.30	P	21827	09/22/95	09/25/95	22:52
Zinc	4.70		0.70	P	21827	09/22/95	09/25/95	22:52

pace INCORPORATED THE ASSURANCE OF QUALITY

Field Identification: CLJ78-WS-001 Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
pH (units)	7.06		45418-007	09/25/95	361	9045/2
Moisture (%)	24.6	0.2	45418-007	09/22/95	2107	209F/3
Releasable Sulfide (mg/Kg)	BDL	50	45418-007	09/22/95	303	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	45418-007	09/25/95	303	7.3.3.2/2
BTU (BTU/lb)	82		45418-007	09/22/95	117	D240-76/4
Total Halogens (%)	0.30	0.02	45418-007	09/22/95	315	D808-81,325.1/4,8
Flash Point (degrees F)	>150	50	45418-007	09/21/95	334	D93-80/4

Field Identification: CLJ78-WS-002 Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
pH (units)	5.40		45418-008	09/25/95	361	9045/2
Moisture (%)	21.4	0.2	45418-008	09/22/95	2107	209F/3
Releasable Sulfide (mg/Kg)	BDL	50	45418-008	09/22/95	303	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	45418-008	09/25/95	303	7.3.3.2/2
BTU (BTU/lb)	100		45418-008	09/22/95	117	D240-76/4
Total Halogens (%)	0.03	0.02	45418-008	09/22/95	315	D808-81,325.1/4,8
Flash Point (degrees F)	>150	50	45418-008	09/21/95	334	D93-80/4

Field Identification: CLJ78-WS-003 Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
pH (units)	5.11		45418-009	09/25/95	361	9045/2
Moisture (%)	17.3	0.2	45418-009	09/22/95	2107	209F/3
Releasable Sulfide (mg/Kg)	BDL	50	45418-009	09/22/95	303	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	45418-009	09/25/95	303	7.3.3.2/2
BTU (BTU/lb)	BDL	78	45418-009	09/22/95	117	D240-76/4
Total Halogens (%)	0.05	0.02	45418-009	09/22/95	315	D808-81,325.1/4,8
Flash Point (degrees F)	>150	50	45418-009	09/21/95	334	D93-80/4

Results expressed on a weight as received basis.

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Field Identification: CLJ78-WS-004 Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
pH (units)	6.28		45418-010	09/25/95	361	9045/2
Moisture (%)	20.5	0.2	45418-010	09/22/95	2107	209F/3
Releasable Sulfide (mg/Kg)	BDL	50	45418-010	09/22/95	303	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	45418-010	09/25/95	303	7.3.3.2/2
BTU (BTU/lb)	BDL	73	45418-010	09/22/95	117	D240-76/4
Total Halogens (%)	0.18	0.02	45418-010	09/22/95	315	D808-81,325.1/4,8
Flash Point (degrees F)	>150	50	45418-010	09/21/95	334	D93-80/4

Field Identification: CLJ78-WS-005 Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
pH (units)	6.06		45418-011	09/25/95	361	9045/2
Moisture (%)	17.5	0.2	45418-011	09/22/95	2107	209F/3
Releasable Sulfide (mg/Kg)	BDL	50	45418-011	09/22/95	303	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	45418-011	09/25/95	303	7.3.3.2/2
BTU (BTU/lb)	BDL	62	45418-011	09/22/95	117	D240-76/4
Total Halogens (%)	BDL	0.02	45418-011	09/22/95	315	D808-81,325.1/4,8
Flash Point (degrees F)	>150	50	45418-011	09/21/95	334	D93-80/4

Field Identification: CLJ78-WS-006 Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
pH (units)	5.38		45418-012	09/25/95	361	9045/2
Moisture (%)	18.8	0.3	45418-012	09/22/95	2107	209F/3
Releasable Sulfide (mg/Kg)	BDL	50	45418-012	09/22/95	303	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	45418-012	09/25/95	303	7.3.3.2/2
BTU (BTU/lb)	BDL	65	45418-012	09/22/95	117	D240-76/4
Total Halogens (%)	0.13	0.02	45418-012	09/22/95	315	D808-81,325.1/4,8
Flash Point (degrees F)	>150	50	45418-012	09/21/95	334	D93-80/4

Results expressed on a weight as received basis.

References: 1) 40 CFR Part 136, Friday, October 26, 1984
2) EPA SW 846, 3rd Edition
3) Standard Methods, 16th Edition
4) ASTM
8) EPA 600, 4-79-020

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TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR VOLATILE CONSTITUENTS

Laboratory Number	:	45418-013
Field Identification	:	CLJ78-WS-001
Extraction Date	:	09/21/95
TCLP Blank	:	90,002-396

Sample description : NON-HOMOGENEOUS SANDY GREY SLUDGE

Extraction Fluid Selection (1,2):

Extraction Fluid #1 was used as specfied in the method.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 25 g of sample was added to the extractor with 500 mL of Extraction Fluid #1.

Extraction Time : 16 hrs

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992

2. Extraction Fluid #1: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

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TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 45418-013
Sample Designation:CLJ78-WS-001
Matrix: TCLP EXTRACT

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
VOLATILES	Date Analyzed: 09/28/95		
Vinyl chloride	BDL	0.2	6
1,1-Dichloroethene	BDL	0.7	3
1,2-Dichloroethane	BDL	0.5	3
Chloroform	BDL	6.0	3
Methyl ethyl ketone	BDL	200	16
Carbon Tetrachloride	BDL	0.5	3
Trichloroethene	1.7	0.5	3
Benzene	BDL	0.5	3
Tetrachloroethene	100.0	0.7	3
Chlorobenzene	BDL	100	3

Results uncorrected for matrix spike recovery.

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TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number	:	45418-013
Field Identification	:	CLJ78-WS-001
Extraction Date	:	09/21/95
TCLP Blank	:	90,001-279

Sample description : NON-HOMOGENEOUS SANDY GREY SLUDGE

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 8.02. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.59, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 16 hrs

Final pH : 4.83

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992

2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

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Laboratory number: 45418-013
Sample Designation: CLJ78-WS-001
Date Extracted: 09/22/95
Date Analyzed: 09/25/95
Matrix: TCLP EXTRACT

Instrument File Name: >H9206

Parameter	Concentration (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Pyridene	BDL	5.0	0.06
1,4-Dichlorobenzene	BDL	7.5	0.06
2,4-Dinitrotoluene	BDL	0.13	0.06
2-Methylphenol	BDL	200	0.06
3,4-Methylphenols	BDL	200	0.06
Hexachloroethane	BDL	3.0	0.06
Nitrobenzene	BDL	2.0	0.06
Hexachlorobenzene	BDL	0.13	0.06
Pentachlorophenol	BDL	100	0.06
Hexachlorobutadiene	BDL	0.5	0.06
2,4,6-Trichlorophenol	BDL	2.0	0.06
2,4,5-Trichlorophenol	BDL	400	0.06

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

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THE ASSURANCE OF QUALITY

Laboratory number: 45418-013
Sample Designation: CLJ78-WS-001
Date Extracted: 09/22/95
Date Analyzed: 09/27/95
Matrix: TCLP EXTRACT

PESTICIDES	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
GAMMA-BHC	BDL	0.4	0.0003
CHLORDANE	BDL	0.03	0.002
ENDRIN	BDL	0.02	0.0003
HEPTACHLOR	BDL	0.008	0.0003
HEPTACHLOR EPOXIDE	BDL	0.008	0.0003
TOXAPHENE	BDL	0.5	0.01
METHOXYCHLOR	BDL	10	0.002

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8080

BDL = Below reporting limit

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THE ASSURANCE OF QUALITY

Laboratory number: 45418-013
Sample Designation: CLJ78-WS-001
Date Extracted: 09/25/95
Date Analyzed: 09/27/95
Matrix: TCLP EXTRACT

HERBICIDES	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
2,4-D	BDL	10	0.002
Silvex	BDL	1	0.002

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8150

BDL = Below reporting limit

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THE ASSURANCE OF QUALITY

Laboratory number: 45418-013RE
Sample Designation: CLJ78-WS-001RE
Date Extracted: 09/27/95
Date Analyzed: 09/29/95
QC Batch: BE0063
TCLP Batch: 279
Matrix: TCLP EXTRACT

HERBICIDES	Concentration (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
2,4-D	BDL	10	0.005
Silvex	BDL	1.0	0.005

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8150

BDL = Below reporting limit

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THE ASSURANCE OF QUALITY

INORGANIC ANALYSIS DATA SHEET

Lab Name: PACE NE-NH, INC.

Matrix (soil/water): WATER Lab Sample ID: 45418-013

% Solids: 100.0 Field ID: CLJ78-WS-001

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Concentration	C	Instr D.L.	M	QC Batch	Prep. Date	Analysis Date	Analysis Time
Arsenic	22.40	U	22.40	P	12451	09/22/95	09/26/95	19:18
Barium	228.00		0.80	P	12451	09/22/95	09/25/95	19:31
Cadmium	2.10	B	1.40	P	12451	09/22/95	09/25/95	19:31
Chromium	5.80	B	2.00	P	12451	09/22/95	09/25/95	19:31
Lead	68.80		15.40	P	12451	09/22/95	09/25/95	19:31
Mercury	0.10	U	0.10	CV	61658	09/22/95	09/28/95	18:29
Selenium	25.30	U	25.30	P	12451	09/22/95	09/25/95	19:31
Silver	1.90	U	1.90	P	12451	09/22/95	09/25/95	19:31

pace INCORPORATED THE ASSURANCE OF QUALITY

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR VOLATILE CONSTITUENTS

Laboratory Number	:	45418-014
Field Identification	:	CLJ78-WS-002
Extraction Date	:	09/21/95
TCLP Blank	:	90,002-396

Sample description : NON-HOMOGENEOUS SANDY GREY SLUDGE

Extraction Fluid Selection (1,2):

Extraction Fluid #1 was used as specfied in the method.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 25 g of sample was added to the extractor with 500 mL of Extraction Fluid #1.

Extraction Time : 16 hrs

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992

2. Extraction Fluid #1: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

pace INCORPORATED
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TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 45418-014
Sample Designation:CLJ78-WS-002
Matrix: TCLP EXTRACT

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
VOLATILES	Date Analyzed: 09/28/95		
Vinyl chloride	BDL	0.2	6
1,1-Dichloroethene	BDL	0.7	3
1,2-Dichloroethane	BDL	0.5	3
Chloroform	BDL	6.0	3
Methyl ethyl ketone	BDL	200	16
Carbon Tetrachloride	BDL	0.5	3
Trichloroethene	0.07	0.5	3
Benzene	BDL	0.5	3
Tetrachloroethene	1.1	0.7	3
Chlorobenzene	BDL	100	3

Results uncorrected for matrix spike recovery.

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TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 45418-014
Field Identification : CLJ78-WS-002
Extraction Date : 09/21/95
TCLP Blank : 90,001-279

Sample description : NON-HOMOGENEOUS SANDY GREY SLUDGE

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 6.64. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.60, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 16 hrs

Final pH : 4.91

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992

2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

pace INCORPORATED THE ASSURANCE OF QUALITY

Laboratory number: 45418-014
Sample Designation: CLJ78-WS-002
Date Extracted: 09/22/95
Date Analyzed: 09/25/95
Matrix: TCLP EXTRACT

Instrument File Name: >H9207

Parameter	Concentration (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Pyridene	BDL	5.0	0.06
1,4-Dichlorobenzene	BDL	7.5	0.06
2,4-Dinitrotoluene	BDL	0.13	0.06
2-Methylphenol	BDL	200	0.06
3,4-Methylphenols	BDL	200	0.06
Hexachloroethane	BDL	3.0	0.06
Nitrobenzene	BDL	2.0	0.06
Hexachlorobenzene	BDL	0.13	0.06
Pentachlorophenol	BDL	100	0.06
Hexachlorobutadiene	BDL	0.5	0.06
2,4,6-Trichlorophenol	BDL	2.0	0.06
2,4,5-Trichlorophenol	BDL	400	0.06

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

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THE ASSURANCE OF QUALITY

Laboratory number: 45418-014
Sample Designation: CLJ78-WS-002
Date Extracted: 09/22/95
Date Analyzed: 09/27/95
Matrix: TCLP EXTRACT

PESTICIDES	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
GAMMA-BHC	BDL	0.4	0.0003
CHLORDANE	BDL	0.03	0.002
ENDRIN	BDL	0.02	0.0003
HEPTACHLOR	BDL	0.008	0.0003
HEPTACHLOR EPOXIDE	BDL	0.008	0.0003
TOXAPHENE	BDL	0.5	0.01
METHOXYCHLOR	BDL	10	0.002

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8080

BDL = Below reporting limit

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Laboratory number: 45418-014
Sample Designation: CLJ78-WS-002
Date Extracted: 09/25/95
Date Analyzed: 09/27/95
QC Batch: BE0062
TCLP Batch: 279
Matrix: TCLP EXTRACT

HERBICIDES	Concentration (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
2,4-D	BDL	10	0.005
Silvex	BDL	1.0	0.005

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8150

BDL = Below reporting limit

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INORGANIC ANALYSIS DATA SHEET

Lab Name: PACE NE-NH, INC.

Matrix (soil/water): WATER Lab Sample ID: 45418-014

% Solids: 100.0 Field ID: CLJ78-WS-002

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Concentration	C	Instr D.L.	M	QC Batch	Prep. Date	Analysis Date	Analysis Time
Arsenic	22.40	U	22.40	P	12451	09/22/95	09/26/95	19:23
Barium	201.00		0.80	P	12451	09/22/95	09/25/95	19:41
Cadmium	1.40	U	1.40	P	12451	09/22/95	09/25/95	19:41
Chromium	2.90	B	2.00	P	12451	09/22/95	09/25/95	19:41
Lead	15.40	U	15.40	P	12451	09/22/95	09/25/95	19:41
Mercury	0.10	U	0.10	CV	61658	09/22/95	09/28/95	11:47
Selenium	25.30	U	25.30	P	12451	09/22/95	09/25/95	19:41
Silver	4.10	B	1.90	P	12451	09/22/95	09/25/95	19:41

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TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR VOLATILE CONSTITUENTS

Laboratory Number	:	45418-015
Field Identification	:	CLJ78-WS-003
Extraction Date	:	09/21/95
TCLP Blank	:	90,002-396

Sample description : NON-HOMOGENEOUS SANDY GREY SLUDGE

Extraction Fluid Selection (1,2):

Extraction Fluid #1 was used as specfied in the method.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 25 g of sample was added to the extractor with 500 mL of Extraction Fluid #1.

Extraction Time : 16 hrs

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992

2. Extraction Fluid #1: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 45418-015
Sample Designation:CLJ78-WS-003
Matrix: TCLP EXTRACT

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
VOLATILES	Date Analyzed: 09/28/95		
Vinyl chloride	BDL	0.2	2
1,1-Dichloroethene	BDL	0.7	.8
1,2-Dichloroethane	BDL	0.5	.8
Chloroform	BDL	6.0	.8
Methyl ethyl ketone	BDL	200	4.2
Carbon Tetrachloride	BDL	0.5	.8
Trichloroethene	BDL	0.5	.8
Benzene	BDL	0.5	.8
Tetrachloroethene	23.0	0.7	.8
Chlorobenzene	BDL	100	.8

Results uncorrected for matrix spike recovery.

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TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 45418-015
Field Identification : CLJ78-WS-003
Extraction Date : 09/21/95
TCLP Blank : 90,001-279

Sample description : NON-HOMOGENEOUS SANDY GREY SLUDGE

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 5.95. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.56, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 16 hrs

Final pH : 4.94

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992

2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

pace INCORPORATED THE ASSURANCE OF QUALITY

Laboratory number: 45418-015
Sample Designation: CLJ78-WS-003
Date Extracted: 09/22/95
Date Analyzed: 09/25/95
Matrix: TCLP EXTRACT

Instrument File Name: >H9208

Parameter	Concentration (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Pyridene	BDL	5.0	0.06
1,4-Dichlorobenzene	BDL	7.5	0.06
2,4-Dinitrotoluene	BDL	0.13	0.06
2-Methylphenol	BDL	200	0.06
3,4-Methylphenols	BDL	200	0.06
Hexachloroethane	BDL	3.0	0.06
Nitrobenzene	BDL	2.0	0.06
Hexachlorobenzene	BDL	0.13	0.06
Pentachlorophenol	BDL	100	0.06
Hexachlorobutadiene	BDL	0.5	0.06
2,4,6-Trichlorophenol	BDL	2.0	0.06
2,4,5-Trichlorophenol	BDL	400	0.06

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

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THE ASSURANCE OF QUALITY

Laboratory number: 45418-015
Sample Designation: CLJ78-WS-003
Date Extracted: 09/22/95
Date Analyzed: 09/27/95
Matrix: TCLP EXTRACT

PESTICIDES	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
GAMMA-BHC	BDL	0.4	0.0003
CHLORDANE	BDL	0.03	0.002
ENDRIN	BDL	0.02	0.0003
HEPTACHLOR	BDL	0.008	0.0003
HEPTACHLOR EPOXIDE	BDL	0.008	0.0003
TOXAPHENE	BDL	0.5	0.01
METHOXYCHLOR	BDL	10	0.002

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8080

BDL = Below reporting limit

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Laboratory number: 45418-015
Sample Designation: CLJ78-WS-003
Date Extracted: 09/25/95
Date Analyzed: 09/27/95
QC Batch: BE0062
TCLP Batch: 279
Matrix: TCLP EXTRACT

HERBICIDES	Concentration (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
2,4-D	BDL	10	0.005
Silvex	BDL	1.0	0.005

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8150

BDL = Below reporting limit

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INORGANIC ANALYSIS DATA SHEET

Lab Name: PACE NE-NH, INC.

Matrix (soil/water): WATER Lab Sample ID: 45418-015

% Solids: 100.0 Field ID: CLJ78-WS-003

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Concentration	C	Instr D.L.	M	QC Batch	Prep. Date	Analysis Date	Analysis Time
Arsenic	22.40	U	22.40	P	12451	09/22/95	09/26/95	19:29
Barium	249.00		0.80	P	12451	09/22/95	09/25/95	19:51
Cadmium	1.40	U	1.40	P	12451	09/22/95	09/25/95	19:51
Chromium	4.20	B	2.00	P	12451	09/22/95	09/25/95	19:51
Lead	45.60	B	15.40	P	12451	09/22/95	09/25/95	19:51
Mercury	0.10	U	0.10	CV	61658	09/22/95	09/28/95	11:50
Selenium	25.30	U	25.30	P	12451	09/22/95	09/25/95	19:51
Silver	1.90	U	1.90	P	12451	09/22/95	09/25/95	19:51

pace INCORPORATED THE ASSURANCE OF QUALITY

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR VOLATILE CONSTITUENTS

Laboratory Number	:	45418-016
Field Identification	:	CLJ78-WS-004
Extraction Date	:	09/21/95
TCLP Blank	:	90,002-396

Sample description : NON-HOMOGENEOUS SANDY GREY SLUDGE

Extraction Fluid Selection (1,2):

Extraction Fluid #1 was used as specfied in the method.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 25 g of sample was added to the extractor with 500 mL of Extraction Fluid #1.

Extraction Time : 16 hrs

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992

2. Extraction Fluid #1: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

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TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 45418-016
Sample Designation:CLJ78-WS-004
Matrix: TCLP EXTRACT

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
VOLATILES	Date Analyzed: 09/27/95		
Vinyl chloride	BDL	0.2	8
1,1-Dichloroethene	BDL	0.7	4
1,2-Dichloroethane	BDL	0.5	4
Chloroform	BDL	6.0	4
Methyl ethyl ketone	BDL	200	21
Carbon Tetrachloride	BDL	0.5	4
Trichloroethene	BDL	0.5	4
Benzene	BDL	0.5	4
Tetrachloroethene	100.0	0.7	4
Chlorobenzene	BDL	100	4

Results uncorrected for matrix spike recovery.

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TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 45418-016
Field Identification : CLJ78-WS-004
Extraction Date : 09/21/95
TCLP Blank : 90,001-279

Sample description : NON-HOMOGENEOUS SANDY GREY SLUDGE

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 6.38. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.57, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 16 hrs

Final pH : 4.93

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992

2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

pace INCORPORATED THE ASSURANCE OF QUALITY

Laboratory number: 45418-016
Sample Designation: CLJ78-WS-004
Date Extracted: 09/22/95
Date Analyzed: 09/25/95
Matrix: TCLP EXTRACT

Instrument File Name: >H9209

Parameter	Concentration (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Pyridene	BDL	5.0	0.06
1,4-Dichlorobenzene	BDL	7.5	0.06
2,4-Dinitrotoluene	BDL	0.13	0.06
2-Methylphenol	BDL	200	0.06
3,4-Methylphenols	BDL	200	0.06
Hexachloroethane	BDL	3.0	0.06
Nitrobenzene	BDL	2.0	0.06
Hexachlorobenzene	BDL	0.13	0.06
Pentachlorophenol	BDL	100	0.06
Hexachlorobutadiene	BDL	0.5	0.06
2,4,6-Trichlorophenol	BDL	2.0	0.06
2,4,5-Trichlorophenol	BDL	400	0.06

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

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THE ASSURANCE OF QUALITY

Laboratory number: 45418-016
Sample Designation: CLJ78-WS-004
Date Extracted: 09/22/95
Date Analyzed: 09/27/95
Matrix: TCLP EXTRACT

PESTICIDES	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
GAMMA-BHC	BDL	0.4	0.0003
CHLORDANE	BDL	0.03	0.002
ENDRIN	BDL	0.02	0.0003
HEPTACHLOR	BDL	0.008	0.0003
HEPTACHLOR EPOXIDE	BDL	0.008	0.0003
TOXAPHENE	BDL	0.5	0.01
METHOXYCHLOR	BDL	10	0.002

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8080

BDL = Below reporting limit

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THE ASSURANCE OF QUALITY

Laboratory number: 45418-016
Sample Designation: CLJ78-WS-004
Date Extracted: 09/25/95
Date Analyzed: 09/27/95
QC Batch: BE0062
TCLP Batch: 279
Matrix: TCLP EXTRACT

HERBICIDES	Concentration (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
2,4-D	BDL	10	0.005
Silvex	BDL	1.0	0.005

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8150

BDL = Below reporting limit

pace INCORPORATED
THE ASSURANCE OF QUALITY

INORGANIC ANALYSIS DATA SHEET

Lab Name: PACE NE-NH, INC.

Matrix (soil/water): WATER Lab Sample ID: 45418-016

% Solids: 100.0 Field ID: CLJ78-WS-004

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Concentration	C	Instr D.L.	M	QC Batch	Prep. Date	Analysis Date	Analysis Time
Arsenic	22.40	U	22.40	P	12451	09/22/95	09/25/95	20:21
Barium	246.00		0.80	P	12451	09/22/95	09/25/95	20:21
Cadmium	1.70	B	1.40	P	12451	09/22/95	09/25/95	20:21
Chromium	2.00	B	2.00	P	12451	09/22/95	09/25/95	20:21
Lead	15.40	U	15.40	P	12451	09/22/95	09/25/95	20:21
Mercury	0.10	U	0.10	CV	61658	09/22/95	09/28/95	11:53
Selenium	25.30	U	25.30	P	12451	09/22/95	09/25/95	20:21
Silver	1.90	U	1.90	P	12451	09/22/95	09/25/95	20:21

pace INCORPORATED THE ASSURANCE OF QUALITY

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR VOLATILE CONSTITUENTS

Laboratory Number	:	45418-017
Field Identification	:	CLJ78-WS-005
Extraction Date	:	09/21/95
TCLP Blank	:	90,002-396

Sample description : NON-HOMOGENEOUS SANDY GREY SLUDGE

Extraction Fluid Selection (1,2):

Extraction Fluid #1 was used as specfied in the method.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 25 g of sample was added to the extractor with 500 mL of Extraction Fluid #1.

Extraction Time : 16 hrs

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992

2. Extraction Fluid #1: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

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TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 45418-017
Sample Designation: CLJ78-WS-005
Matrix: TCLP EXTRACT

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
VOLATILES	Date Analyzed: 09/27/95		
Vinyl chloride	BDL	0.2	.01
1,1-Dichloroethene	BDL	0.7	.005
1,2-Dichloroethane	BDL	0.5	.005
Chloroform	BDL	6.0	.005
Methyl ethyl ketone	BDL	200	.025
Carbon Tetrachloride	BDL	0.5	.005
Trichloroethene	.004	0.5	.005
Benzene	BDL	0.5	.005
Tetrachloroethene	.068	0.7	.005
Chlorobenzene	BDL	100	.005

Results uncorrected for matrix spike recovery.

pace INCORPORATED
THE ASSURANCE OF QUALITY

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 45418-017
Field Identification : CLJ78-WS-005
Extraction Date : 09/21/95
TCLP Blank : 90,001-279

Sample description : NON-HOMOGENEOUS SANDY GREY SLUDGE

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 6.47. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.55, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 16 hrs

Final pH : 4.94

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992

2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

pace INCORPORATED THE ASSURANCE OF QUALITY

Laboratory number: 45418-017
Sample Designation: CLJ78-WS-005
Date Extracted: 09/22/95
Date Analyzed: 09/25/95
Matrix: TCLP EXTRACT

Instrument File Name: >H9210

Parameter	Concentration (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Pyridene	BDL	5.0	0.06
1,4-Dichlorobenzene	BDL	7.5	0.06
2,4-Dinitrotoluene	BDL	0.13	0.06
2-Methylphenol	BDL	200	0.06
3,4-Methylphenols	BDL	200	0.06
Hexachloroethane	BDL	3.0	0.06
Nitrobenzene	BDL	2.0	0.06
Hexachlorobenzene	BDL	0.13	0.06
Pentachlorophenol	BDL	100	0.06
Hexachlorobutadiene	BDL	0.5	0.06
2,4,6-Trichlorophenol	BDL	2.0	0.06
2,4,5-Trichlorophenol	BDL	400	0.06

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

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THE ASSURANCE OF QUALITY

Laboratory number: 45418-017
Sample Designation: CLJ78-WS-005
Date Extracted: 09/22/95
Date Analyzed: 09/27/95
Matrix: TCLP EXTRACT

PESTICIDES	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
GAMMA-BHC	BDL	0.4	0.0003
CHLORDANE	BDL	0.03	0.002
ENDRIN	BDL	0.02	0.0003
HEPTACHLOR	BDL	0.008	0.0003
HEPTACHLOR EPOXIDE	BDL	0.008	0.0003
TOXAPHENE	BDL	0.5	0.01
METHOXYCHLOR	BDL	10	0.002

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8080

BDL = Below reporting limit

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THE ASSURANCE OF QUALITY

Laboratory number: 45418-017
Sample Designation: CLJ78-WS-005
Date Extracted: 09/25/95
Date Analyzed: 09/27/95
QC Batch: BE0062
TCLP Batch: 279
Matrix: TCLP EXTRACT

HERBICIDES	Concentration (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
2,4-D	BDL	10	0.005
Silvex	BDL	1.0	0.005

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8150

BDL = Below reporting limit

pace INCORPORATED
THE ASSURANCE OF QUALITY

INORGANIC ANALYSIS DATA SHEET

Lab Name: PACE NE-NH, INC.

Matrix (soil/water): WATER Lab Sample ID: 45418-017

% Solids: 100.0 Field ID: CLJ78-WS-005

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Concentration	C	Instr D.L.	M	QC Batch	Prep. Date	Analysis Date	Analysis Time
Arsenic	22.40	U	22.40	P	12451	09/22/95	09/25/95	20:31
Barium	226.00		0.80	P	12451	09/22/95	09/25/95	20:31
Cadmium	1.40	U	1.40	P	12451	09/22/95	09/25/95	20:31
Chromium	2.20	B	2.00	P	12451	09/22/95	09/25/95	20:31
Lead	15.40	U	15.40	P	12451	09/22/95	09/25/95	20:31
Mercury	0.10	U	0.10	CV	61658	09/22/95	09/28/95	11:56
Selenium	25.30	U	25.30	P	12451	09/22/95	09/25/95	20:31
Silver	3.60	B	1.90	P	12451	09/22/95	09/25/95	20:31

pace INCORPORATED THE ASSURANCE OF QUALITY

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR VOLATILE CONSTITUENTS

Laboratory Number	:	45418-018
Field Identification	:	CLJ78-WS-006
Extraction Date	:	09/21/95
TCLP Blank	:	90,002-396

Sample description : NON-HOMOGENEOUS SANDY GREY SLUDGE

Extraction Fluid Selection (1,2):

Extraction Fluid #1 was used as specfied in the method.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 25 g of sample was added to the extractor with 500 mL of Extraction Fluid #1.

Extraction Time : 16 hrs

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992

2. Extraction Fluid #1: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

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THE ASSURANCE OF QUALITY

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 45418-018
Sample Designation:CLJ78-WS-006
Matrix: TCLP EXTRACT

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
VOLATILES	Date Analyzed: 09/27/95		
Vinyl chloride	BDL	0.2	.01
1,1-Dichloroethene	BDL	0.7	.005
1,2-Dichloroethane	BDL	0.5	.005
Chloroform	BDL	6.0	.005
Methyl ethyl ketone	BDL	200	.025
Carbon Tetrachloride	BDL	0.5	.005
Trichloroethene	BDL	0.5	.005
Benzene	BDL	0.5	.005
Tetrachloroethene	.009	0.7	.005
Chlorobenzene	BDL	100	.005

Results uncorrected for matrix spike recovery.

pace INCORPORATED
THE ASSURANCE OF QUALITY

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 45418-018
Field Identification : CLJ78-WS-006
Extraction Date : 09/21/95
TCLP Blank : 90,001-279

Sample description : NON-HOMOGENEOUS SANDY GREY SLUDGE

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 6.26. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.56, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 16 hrs

Final pH : 4.90

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992

2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45418-018
Sample Designation: CLJ78-WS-006
Date Extracted: 09/22/95
Date Analyzed: 09/25/95
Matrix: TCLP EXTRACT

Instrument File Name: >H9211

Parameter	Concentration (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Pyridene	BDL	5.0	0.06
1,4-Dichlorobenzene	BDL	7.5	0.06
2,4-Dinitrotoluene	BDL	0.13	0.06
2-Methylphenol	BDL	200	0.06
3,4-Methylphenols	BDL	200	0.06
Hexachloroethane	BDL	3.0	0.06
Nitrobenzene	BDL	2.0	0.06
Hexachlorobenzene	BDL	0.13	0.06
Pentachlorophenol	BDL	100	0.06
Hexachlorobutadiene	BDL	0.5	0.06
2,4,6-Trichlorophenol	BDL	2.0	0.06
2,4,5-Trichlorophenol	BDL	400	0.06

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

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THE ASSURANCE OF QUALITY

Laboratory number: 45418-018
Sample Designation: CLJ78-WS-006
Date Extracted: 09/22/95
Date Analyzed: 09/27/95
Matrix: TCLP EXTRACT

PESTICIDES	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
GAMMA-BHC	BDL	0.4	0.0003
CHLORDANE	BDL	0.03	0.002
ENDRIN	BDL	0.02	0.0003
HEPTACHLOR	BDL	0.008	0.0003
HEPTACHLOR EPOXIDE	BDL	0.008	0.0003
TOXAPHENE	BDL	0.5	0.01
METHOXYCHLOR	BDL	10	0.002

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8080

BDL = Below reporting limit

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45418-018
Sample Designation: CLJ78-WS-006
Date Extracted: 09/25/95
Date Analyzed: 09/27/95
QC Batch: BE0062
TCLP Batch: 279
Matrix: TCLP EXTRACT

HERBICIDES	Concentration (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
2,4-D	BDL	10	0.005
Silvex	BDL	1.0	0.005

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8150

BDL = Below reporting limit

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THE ASSURANCE OF QUALITY

INORGANIC ANALYSIS DATA SHEET

Lab Name: PACE NE-NH, INC.

Matrix (soil/water): WATER Lab Sample ID: 45418-018

% Solids: 100.0 Field ID: CLJ78-WS-006

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Concentration	C	Instr D.L.	M	QC Batch	Prep. Date	Analysis Date	Analysis Time
Arsenic	22.40	U	22.40	P	12451	09/22/95	09/25/95	20:41
Barium	205.00		0.80	P	12451	09/22/95	09/25/95	20:41
Cadmium	1.40	U	1.40	P	12451	09/22/95	09/25/95	20:41
Chromium	2.40	B	2.00	P	12451	09/22/95	09/25/95	20:41
Lead	17.90	B	15.40	P	12451	09/22/95	09/25/95	20:41
Mercury	0.10	U	0.10	CV	61658	09/22/95	09/28/95	11:59
Selenium	25.30	U	25.30	P	12451	09/22/95	09/25/95	20:41
Silver	1.90	U	1.90	P	12451	09/22/95	09/25/95	20:41

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TCLP METHOD SUMMARY

PARAMETER		METHOD/REF.
TCLP Extract Generation		1311/1
Volatile organic compounds		8240/2
Semivolatile organic compounds		8270/2
Pesticides		8080/2
Herbicides		8150/2
Metals:	Arsenic	6010/2
	Barium	6010/2
	Cadmium	6010/2
	Chromium	6010/2
	Lead	6010/2
	Mercury	7470/2
	Selenium	6010/2
	Silver	6010/2

References:
1) 40 CFR Part 261, Appendix II, Nov. 24, 1992
2) EPA SW 846, 3rd Edition

SOIL VOLATILES SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORPORATION Lab No.: 45418
Project: BLDG. 25
Level: Soil

CLIENT SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
CLJ78-WS-001	0D	0D	0D		0
CLJ78-WS-002	90	69*	87		1
CLJ78-WS-003	0D	0D	0D		0
CLJ78-WS-004	0D	0D	0D		0
CLJ78-WS-005	97	185*	94		1
CLJ78-WS-006	97	97	96		0
BV1124A	108	107	112		0

		QC LIMITS
S1	(TOL) = Toluene-d8	86 - 114
S2	(BFB) = Bromofluorobenzene	72 - 132
S3	(DCE) = 1,2-Dichloroethane-d4	70 - 138

Column to be used to flag recovery values with an asterisk
* Values outside of designated QC limits
D Surrogates diluted out

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Laboratory number: BV1124A
Sample Designation: LABORATORY BLANK
Date Analyzed: 09/28/95
Matrix: SOLID

VOLATILE ORGANICS	CONCENTRATION (ug/g)	DETECTION LIMIT (ug/g)
Chloromethane	BDL	1.0
Bromomethane	BDL	1.0
Vinyl chloride	BDL	1.0
Chloroethane	BDL	0.5
Methylene chloride	1.2	1.0
Acetone	BDL	2.5
Carbon disulfide	BDL	0.5
1,1-Dichloroethene	BDL	0.5
Tetrahydrofuran	BDL	2.5
1,1-Dichloroethane	BDL	0.5
Chloroform	BDL	0.5
Methyl ethyl ketone	BDL	2.5
1,2-Dichloroethane	BDL	0.5
1,1,1-Trichloroethane	BDL	0.5
Carbon Tetrachloride	BDL	0.5
Vinyl acetate	BDL	1.0
Bromodichloromethane	BDL	0.5
cis-1,3-Dichloropropene	BDL	0.5
cis-1,3-Dichloropropene	BDL	0.5
trans-1,3-Dichloropropene	BDL	0.5
Trichloroethene	BDL	0.5
Benzene	BDL	0.5
Dibromochloromethane	BDL	0.5
1,1,2-Trichloroethane	BDL	0.5
1,2-Dichloropropane	BDL	0.5
2-Chloroethyl vinyl ether	BDL	0.5
Bromoform	BDL	0.5
Methyl isobutyl ketone	BDL	2.5
2-Hexanone	BDL	2.5
1,1,2,2-Tetrachloroethane	BDL	0.5
Tetrachloroethene	BDL	0.5
Toluene	BDL	0.5
Chlorobenzene	BDL	0.5
Ethylbenzene	BDL	0.5
m-Xylene	BDL	0.5
o,p-Xylene	BDL	0.5
Styrene	BDL	0.5

METHOD REFERENCE: EPA SW 846, 3RD EDITION
METHOD 8240

BDL = Below detection limit

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VOLATILE ORGANIC COMPOUNDS
MATRIX SPIKE RECOVERY

Laboratory Number: LS-V1124
Field Identification: LABORATORY CONTROL SAMPLE
Date Analyzed: 09/28/95
Matrix: SOLID

COMPOUND	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC-OVERY
1,1-DICHLOROETHENE	0.00	6.25	5.81	93
TRICHLOROETHYLENE	0.00	6.25	5.86	94
BENZENE	0.00	6.25	5.57	89
TOLUENE	0.00	6.25	5.84	94
CHLOROBENZENE	0.00	6.25	5.86	94

METHOD REFERENCE: EPA SW 846, 3RD EDITION METHOD 8240

pace INCORPORATED THE ASSURANCE OF QUALITY

SOIL SEMIVOLATILES SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORPORATION Lab No.: 45418
Project: BLDG. 25
Level: Low Soil

CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
CLJ78-WS-001	71	86	88	89	83	81		0
CLJ78-WS-002	66	87	87	90	83	85		0
CLJ78-WS-003	52	69	69	72	69	71		0
CLJ78-WS-004	68	77	82	83	75	79		0
CLJ78-WS-005	55	72	75	76	68	76		0
CLJ78-WS-006	56	68	76	75	69	74		0
BA2455	48	58	63	63	58	64		0

		QC LIMITS
S1	(NBZ) = Nitrobenzene-d5	23 - 120
S2	(FBP) = 2-Fluorobiphenyl	30 - 115
S3	(TPH) = Terphenyl-d14	18 - 137
S4	(PHL) = Phenol-d5	24 - 113
S5	(2FP) = 2-Fluorophenol	25 - 121
S6	(TBP) = 2,4,6-Tribromophenol	19 - 122

Column to be used to flag recovery values with an asterisk
* Values outside of designated QC limits
D Surrogates diluted out

pace INCORPORATED THE ASSURANCE OF QUALITY

Laboratory number: BA2455
Sample Designation: LAB BLANK
Date Extracted: 09/22/95
Date Analyzed: 09/25/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
N-Nitrosodimethylamine	BDL	0.3
Phenol	BDL	0.3
Aniline	BDL	0.3
Bis(2-chloroethyl)ether	BDL	0.3
2-Chlorophenol	BDL	0.3
1,3-Dichlorobenzene	BDL	0.3
1,4-Dichlorobenzene	BDL	0.3
Benzylalcohol	BDL	0.3
1,2-Dichlorobenzene	BDL	0.3
2-Methylphenol	BDL	0.3
Bis(2-chloroisopropyl)ether	BDL	0.3
4-Methylphenol	BDL	0.3
N-Nitroso-di-N-propylamine	BDL	0.3
Hexachloroethane	BDL	0.3
Nitrobenzene	BDL	0.3
Isophorone	BDL	0.3
2-Nitrophenol	BDL	0.3
2,4-Dimethylphenol	BDL	0.3
Benzoic acid	BDL	1.7
Bis(2-chloroethoxy)methane	BDL	0.3
2,4-Dichlorophenol	BDL	0.3
1,2,4-Trichlorobenzene	BDL	0.3
Naphthalene	BDL	0.3
4-Chloroaniline	BDL	0.3
Hexachlorobutadiene	BDL	0.3
4-Chloro-3-methylphenol	BDL	0.3
2-Methylnaphthalene	BDL	0.3
Hexachlorocyclopentadiene	BDL	0.3
2,4,6-Trichlorophenol	BDL	0.3
2,4,5-Trichlorophenol	BDL	1.7
2-Chloronaphthalene	BDL	0.3
2-Nitroaniline	BDL	1.7
Dimethylphthalate	BDL	0.3
Acenaphthylene	BDL	0.3
2,6-Dinitrotoluene	BDL	0.3

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
3-Nitroaniline	BDL	1.7
Acenaphthene	BDL	0.3
2,4-Dinitrophenol	BDL	1.7
4-Nitrophenol	BDL	1.7
Dibenzofuran	BDL	0.3
2,4-Dinitrotoluene	BDL	0.3
Diethylphthalate	BDL	0.3
4-Chlorophenyl-phenylether	BDL	0.3
Fluorene	BDL	0.3
4-Nitroaniline	BDL	1.7
4,6-Dinitro-2-methylphenol	BDL	1.7
N-Nitrosodiphenylamine	BDL	0.3
Azobenzene	BDL	0.3
4-Bromophenyl-phenylether	BDL	0.3
Hexachlorobenzene	BDL	0.3
Pentachlorophenol	BDL	0.3
Phenanthrene	BDL	0.3
Anthracene	BDL	0.3
Di-N-butylphthalate	BDL	0.3
Fluoranthene	BDL	0.3
Benzidine	BDL	1.7
Pyrene	BDL	0.3
Butylbenzylphthalate	BDL	0.3
3,3'-Dichlorobenzidine	BDL	0.7
Benzo(A)anthracene	BDL	0.3
Chrysene	BDL	0.3
Bis(2-ethylhexyl)phthalate	BDL	0.3
Di-N-octylphthalate	BDL	0.3
Benzo(B)fluoranthene	BDL	0.3
Benzo(K)fluoranthene	BDL	0.3
Benzo(A)pyrene	BDL	0.3
Indeno(1,2,3,-CD)pyrene	BDL	0.3
Dibenz(A,H)anthracene	BDL	0.3
Benzo(G,H,I)perylene	BDL	0.3

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

pace INCORPORATED
THE ASSURANCE OF QUALITY

MATRIX SPIKE RECOVERY

Laboratory Number: LS-A2455
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 09/25/95
Matrix: SOLID

COMPOUND	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC-OVERY
PHENOL	0	6.60	4.33	66
2-CHLOROPHENOL	0	6.60	4.35	66
1,4-DICHLOROBENZENE	0	3.30	2.26	68
N-NITROSO-DI-N-PROPYLAMINE	0	3.30	2.30	70
1,2,4-TRICHLOROBENZENE	0	3.30	2.40	73
4-CHLORO-3-METHYLPHENOL	0	6.60	4.63	70
ACENAPHTHENE	0	3.30	2.33	70
4-NITROPHENOL	0	6.60	4.33	66
2,4-DINITROTOLUENE	0	3.30	2.09	63
PENTACHLOROPHENOL	0	6.60	4.13	63
PYRENE	0	3.30	2.21	67

METHOD REFERENCE: EPA SW 846, 3RD EDITION
METHOD 8270

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THE ASSURANCE OF QUALITY

SOIL PESTICIDE SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORPORATION Lab No.: 45418
Project: BLDG. 25
Level: Low Soil

CLIENT SAMPLE NO.	S1 (TCX) #	S2 (DCB) #	OTHER	TOT OUT
CLJ78-WS-001	51	77		0
CLJ78-WS-001DL	0D	0D		0
CLJ78-WS-002	0D	0D		0
CLJ78-WS-003	0D	0D		0
CLJ78-WS-004	63	89		0
CLJ78-WS-004DL	0D	0D		0
CLJ78-WS-005	70	82		0
CLJ78-WS-006	67	85		0
BP4475	65	82		0
LSP4475MS	60	75		0

	QC LIMITS
S1 (TCX) = Tetrachloro-m-xylene	20 - 150
S2 (DCB) = Decachlorobiphenyl	20 - 150

Column to be used to flag recovery values with an asterisk
* Values outside of designated QC limits
D Surrogates diluted out

pace INCORPORATED THE ASSURANCE OF QUALITY

Laboratory number: BP4475
Sample Designation: LAB BLANK
Date Extracted: 09/22/95
Date Analyzed: 09/27/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.

PESTICIDES/PCB'S	CONCENTRATION (ug/Kg)	REPORTING LIMIT (ug/Kg)
Aldrin	BDL	3
alpha-BHC	BDL	3
beta-BHC	BDL	3
gamma-BHC (Lindane)	BDL	3
delta-BHC	BDL	3
alpha-Chlordane	BDL	3
gamma-Chlordane	BDL	3
4,4'-DDT	BDL	7
4,4'-DDE	BDL	3
4,4'-DDD	BDL	7
Dieldrin	BDL	3
Endosulfan I	BDL	3
Endosulfan II	BDL	7
Endosulfan sulfate	BDL	7
Endrin	BDL	3
Endrin aldehyde	BDL	7
Heptachlor	BDL	3
Heptachlor Epoxide	BDL	3
PCB-1242 (Arochlor 1242)	BDL	30
PCB-1254 (Arochlor 1254)	BDL	30
PCB-1221 (Arochlor 1221)	BDL	30
PCB-1232 (Arochlor 1232)	BDL	30
PCB-1248 (Arochlor 1248)	BDL	30
PCB-1260 (Arochlor 1260)	BDL	30
PCB-1016 (Arochlor 1016)	BDL	30
Toxaphene	BDL	100
Endrin Ketone	BDL	7
Methoxychlor	BDL	30

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHODS 3550 AND 8080

BDL = Below reporting limit

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THE ASSURANCE OF QUALITY

PESTICIDES/PCB'S

MATRIX SPIKE RECOVERY

Laboratory Number: LS-P4475
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 09/27/95
Matrix: SOLID

COMPOUND	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC-OVERY
ALPHA-BHC	0	16.7	11.94	71
GAMMA-BHC	0	16.7	11.97	72
BETA-BHC	0	16.7	12.88	77
HEPTACHLOR	0	16.7	13.07	78
DELTA-BHC	0	16.7	13.31	80
ALDRIN	0	16.7	11.40	68
HEPTACHLOR EPOXIDE	0	16.7	12.60	75
4,4'-DDE	0	16.7	12.00	72
DIELDRIN	0	16.7	11.52	69
ENDRIN	0	16.7	13.15	79
4,4'-DDD	0	16.7	12.50	75
ENDOSULFAN II	0	16.7	8.27	50
4,4'-DDT	0	16.7	13.16	79
ENDRIN ALDEHYDE	0	16.7	11.93	71
ENDOSULFAN SULFATE	0	16.7	13.51	81
METHOXYCHLOR	0	167.0	133.40	80
ENDOSULFAN I	0	16.7	6.53	39

METHOD REFERENCE: EPA SW 846, 3RD EDITION
METHOD 8080

pace INCORPORATED
THE ASSURANCE OF QUALITY

QUALITY CONTROL
pH
Method: 9045 SW846 3rd Edition

QC Batch: 361 For: 45418
Matrix: Solid

LABORATORY CONTROL SAMPLES:

	True Value Units	Observed Value Units
LCS1	7.0	7.04

pace INCORPORATED
THE ASSURANCE OF QUALITY

PACE INC. NE-NH LAB
QUALITY CONTROL
% Moisture
Method: 209F, Standard Methods, 16th Edition

QC Batch: 2107 For: 45418
Matrix: Solid

METHOD BLANK:

	Result ug/g
	< 0.04

FIELD SAMPLE:

Precision

Lab No.	Replicate 1 ug/g	Replicate 2 ug/g	Average ug/g	Relative Percent Difference %
45418-7	24.64	22.38	23.51	9.6

QUALITY CONTROL QUALIFIER STATEMENT
The sample results used to generate quality control information for solid samples are uncorrected for dry weight. This does not affect the results reported for percent of spike recovery and relative percent difference.

PACE INC. NE-NH LAB
QUALITY CONTROL
Releasable Sulfide
Method: 7.3.4.2 EPA SW846, 3rd Edition

QC Batch: 303 For: 45418
Matrix: SOLID

METHOD BLANK:

	Result ug/g
	< 50.00

LABORATORY CONTROL SAMPLES:

	True Value ug/g	Observed Value ug/g	Accuracy Recovery %
LCS1	1346.3	1289.4	95.8

FIELD SAMPLE:

Precision

Lab No.	Replicate 1 ug/g	Replicate 2 ug/g	Average ug/g	Relative Percent Difference %
45417-16	< 50.00	< 50.00	NC	NC

QUALITY CONTROL QUALIFIER STATEMENT
The sample results used to generate quality control information for solid samples are uncorrected for dry weight. This does not affect the results reported for percent of spike recovery and relative percent difference.

PACE INC. NE-NH LAB
QUALITY CONTROL
Releasable Cyanide
Method: 7.3.3.2 SW846, 3rd Edition

QC Batch: 303 For: 45418
Matrix: SOIL

METHOD BLANK:

	Result ug/g
	< 1.00

LABORATORY CONTROL SAMPLES:

	True Value ug/g	Observed Value ug/g	Accuracy Recovery %
LCS1	40.0	2.800	7.0

FIELD SAMPLE:

Precision Lab No.	Replicate 1 ug/g	Replicate 2 ug/g	Average ug/g	Relative Percent Difference %
45417-16	< 1.00	< 1.00	NC	NC

QUALITY CONTROL QUALIFIER STATEMENT
The sample results used to generate quality control information for solid samples are uncorrected for dry weight. This does not affect the results reported for percent of spike recovery and relative percent difference.

NC = Not calculable due to result below detection limit.

QUALITY CONTROL
BTU (Heat of Combustion)
Method: D 240-76, ASTM

QC Batch: 117 For: 45418
Matrix: Solid

LABORATORY CONTROL SAMPLES:

	True Value BTU/lb	Observed Value BTU/lb
LCS1	11373.0	11515.2

pace INCORPORATED
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PACE INC. NE-NH LAB
QUALITY CONTROL
% Halogens
Method: ASTM D 808-81

QC Batch: 315 For: 45418
Matrix: SOLID

METHOD BLANK:	Result ug/g
	< 0.02

QUALITY CONTROL
Flashpoint
Method: D93-80, ASTM

QC Batch: 334 For: 45418
Matrix: OIL

LABORATORY CONTROL SAMPLES:

	True Value DEG F	Observed Value DEG F
LCS1	82.0	82.00

FIELD SAMPLE:

Precision

Lab No.	Replicate 1 ug/g	Replicate 2 ug/g
45396-2	200.00	200.00

pace INCORPORATED
THE ASSURANCE OF QUALITY

PACE New England, Inc.

Metals QC Results for : 45418

QC BATCH: 21827
MATRIX: SOIL
CONCENTRATION UNITS: MG/KG

ELEMENT	LCS TRUE VALUE	LCS RESULT	LCS % RECOVERY		METHOD BLANK
Aluminum	200.00	187.00	93.5	U	1.5
Antimony	50.00	44.80	89.6	U	1.2
Arsenic	200.00	168.00	84.0	U	2.2
Arsenic -	200.00	172.00	86.0	U	0.3
Barium	200.00	191.00	95.5	U	0.1
Beryllium	5.00	4.60	92.0	U	0.0
Boron	100.00	92.90	92.9	U	3.5
Cadmium	5.00	4.70	94.0	U	0.1
Calcium	1000.00	962.00	96.2	B	8.6
Chromium	20.00	19.10	95.5	B	0.3
Cobalt	50.00	47.60	95.2	U	0.2
Copper	25.00	23.80	95.2	B	0.9
[illegible]on	100.00	96.00	96.0	B	1.2
[illegible]d	50.00	41.20	82.4	U	1.5
Lead -	50.00	45.20	90.4	B	0.2
Magnesium	1000.00	929.00	92.9	U	2.3
Manganese	50.00	46.60	93.2	B	0.1
Molybdenum	100.00	91.40	91.4	B	0.2
Nickel	50.00	48.60	97.2	U	0.6
Potassium	1000.00	946.00	94.6	U	50.0
Selenium	200.00	174.00	87.0	U	2.5
Selenium -	200.00	167.00	83.5	U	0.4
Silver	5.00	4.10	82.0	U	0.2
Sodium	1000.00	944.00	94.4	B	4.1
Thallium	200.00	160.00	80.0	U	2.2
Thallium -	200.00	175.00	87.5	U	0.4
Tin	100.00	91.40	91.4	B	2.1
Titanium	100.00	88.60	88.6	U	0.0
Vanadium	50.00	46.50	93.0	U	0.3
Zinc	50.00	43.20	86.4	U	0.6

B = Result between instrument detection limit and reporting limit.
U = Result below instrument detection limit.
N = LCS recovery not within advisory QC limits (80% - 120%)
with the exception of Silver QC limits (52% - 136%).

PACE New England, Inc.

Metals QC Results for : 45418

QC BATCH: 70598
MATRIX: SOIL
CONCENTRATION UNITS: MG/KG

ELEMENT	LCS TRUE VALUE	LCS RESULT	LCS % RECOVERY	METHOD BLANK
Mercury	1.20	1.20	100.0	U 0.02

B = Result between instrument detection limit and reporting limit.
U = Result below instrument detection limit.
N = LCS recovery not within advisory QC limits (80% - 120%)
with the exception of Silver QC limits (52% - 136%).

METALS SAMPLE QC RESULTS

SAMPLE NUMBER: 45418-012
MATRIX: SOIL
CONCENTRATION UNITS: mg/kg

ELEMENT	QC REPLICATE ANALYSIS						SPIKE RESULT	SPIKE VALUE		PERCENT RECOVERY
	SAMPLE RESULT		DUPLICATE RESULT		RPD					
Aluminum		6200.0		8740.0	*	34.0	8400.0	198.6		1107.6
Antimony	U	1.4	U	1.4		N/C	7.2	49.7	N	14.5
Arsenic -	B	1.0	B	1.1		9.5	167.0	198.6		83.6
Barium	B	9.6	B	11.5		18.0	201.0	198.6		96.4
Beryllium	B	0.1	B	0.1		28.6	4.7	5.0		93.0
Cadmium	U	0.2	U	0.2		N/C	4.6	5.0		92.6
Calcium		597.0		743.0	*	21.8	1620.0	993.2		103.0
Chromium		7.9		10.2	*	25.4	27.6	19.9		99.2
Cobalt	U	0.3	B	0.4		31.9	47.8	49.7		96.3
Copper	U	0.7	B	0.8		21.1	24.2	24.8		97.5
Iron		2240.0		2420.0		7.7	2250.0	99.3		10.1
Lead		7.2		8.4		15.4	49.1	49.7		84.4
Magnesium		188.0		281.0	*	39.7	1150.0	993.2		96.9
Manganese		5.2		6.9	*	28.1	51.6	49.7		93.4
Nickel	U	0.7	U	0.7		N/C	49.4	49.7		99.5
Potassium	B	163.0	B	244.0		39.8	1050.0	993.2		89.3
Selenium -	U	0.4	U	0.4		N/C	164.0	198.6		82.6
Silver	B	0.3	B	0.3		0.0	4.5	5.0		84.8
Sodium	B	17.3	B	20.9		18.8	940.0	993.2		92.9
Thallium -	U	0.5	U	0.4		N/C	173.0	198.6		87.1
Vanadium		7.7		8.4		8.7	53.9	49.7		93.0
Zinc		4.7		5.9		22.6	53.8	49.7		98.9

B = Result between instrument detection limit and reporting limit.
U = Result below instrument detection limit.
N = Spike recovery not within advisory limits (75-125%, if sample < 4x spike value).
* = Relative Percent Difference not within advisory limits (20%, if sample > 5x reporting limit).
N/C = Not Calculable. Sample and duplicate below instrument detection limit.

METALS SAMPLE QC RESULTS

SAMPLE NUMBER: 45418-018
MATRIX: WATER
CONCENTRATION UNITS: ug/L

ELEMENT	QC REPLICATE ANALYSIS			SPIKE RESULT	SPIKE VALUE	PERCENT RECOVERY
	SAMPLE RESULT	DUPLICATE RESULT	RPD			
Mercury	U 0.10	U 0.10	N/C	4.6	4.0	115.0

B = Result between instrument detection limit and reporting limit.
U = Result below instrument detection limit.
N = Spike recovery not within advisory limits (75-125%, if sample < 4x spike value).
* = Relative Percent Difference not within advisory limits (20%, if sample > 5x reporting limit).
N/C = Not Calculable. Sample and duplicate below instrument detection limit.

WATER VOLATILES SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORPORATION Lab No.: 45418
Project: BLDG. 25

CLIENT SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
CLJ78-WS-001	96	97	102		0
CLJ78-WS-002	96	97	102		0
CLJ78-WS-003	100	99	102		0
CLJ78-WS-004	99	96	100		0
CLJ78-WS-005	99	116	103		0
CLJ78-WS-006	92	106	101		0
TCLP BLANK #396	100	96	97		0
BG092795A1	98	94	97		0
BG092895A1	99	94	100		0
BG092995A1	98	92	98		0

	QC LIMITS
S1 (TOL) = Toluene-d8	86 - 114
S2 (BFB) = Bromofluorobenzene	72 - 132
S3 (DCE) = 1,2-Dichloroethane-d4	70 - 138

Column to be used to flag recovery values with an asterisk
* Values outside of designated QC limits
D Surrogates diluted out

pace INCORPORATED THE ASSURANCE OF QUALITY

Laboratory number: TCLP BLANK #396
Client ID: TCLP BLANK
Date Analyzed: 09/30/95
Matrix: TCLP EXTRACT

Parameter	Result (ug/L)	Regulatory Limit (ug/L)	Detection Limit (ug/L)
Vinyl chloride	BDL	200	10
1,1-Dichloroethene	BDL	700	5
1,2-Dichloroethane	BDL	500	5
Chloroform	BDL	6000	5
Methyl ethyl ketone	BDL	200000	25
Carbon Tetrachloride	BDL	500	5
Trichloroethene	BDL	500	5
Benzene	BDL	500	5
Tetrachloroethene	BDL	700	5
Chlorobenzene	BDL	100000	5

METHOD REFERENCE: EPA SW846 3rd EDITION
METHOD 8240

BDL = Below detection limit

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THE ASSURANCE OF QUALITY

Laboratory number: BG092795A1
Sample Designation: LABORATORY BLANK
Date Analyzed: 09/27/95
Matrix: WATER

VOLATILE ORGANICS	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Chloromethane	BDL	10
Bromomethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5
Methylene chloride	BDL	10
Acetone	BDL	25
Carbon disulfide	BDL	5
1,1-Dichloroethene	BDL	5
Tetrahydrofuran	BDL	25
1,1-Dichloroethane	BDL	5
1,2-Dichloroethene (total)	BDL	5
Chloroform	BDL	5
Methyl ethyl ketone	BDL	25
1,2-Dichloroethane	BDL	5
1,1,1-Trichloroethane	BDL	5
Carbon Tetrachloride	BDL	5
Vinyl acetate	BDL	10
Bromodichloromethane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Trichloroethene	BDL	5
Benzene	BDL	5
Dibromochloromethane	BDL	5
1,1,2-Trichloroethane	BDL	5
1,2-Dichloropropane	BDL	5
2-Chloroethyl vinyl ether	BDL	5
Bromoform	BDL	5
Methyl isobutyl ketone	BDL	25
2-Hexanone	BDL	25
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	5
Chlorobenzene	BDL	5
Ethylbenzene	BDL	5
m-Xylene	BDL	5
o,p-Xylene	BDL	5
Styrene	BDL	5

METHOD REFERENCE: EPA SW 846 3RD EDITION
METHOD 8240

BDL = Below detection limit
J = Probable presence below listed detection limit.

pace INCORPORATED
THE ASSURANCE OF QUALITY

MATRIX SPIKE RECOVERY
VOLATILE ORGANIC COMPOUNDS

Laboratory Number: LCG092795A1
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 09/27/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC-OVERY
1,1-DICHLOROETHENE	0	50	58	116
TRICHLOROETHYLENE	0	50	53	106
BENZENE	0	50	51	102
TOLUENE	0	50	52	104
CHLOROBENZENE	0	50	57	114

METHOD REFERENCE: EPA SW 846, 3RD EDITION
METHOD 8240

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: BG092895A1
Sample Designation: LABORATORY BLANK
Date Analyzed: 09/28/95
Matrix: WATER

VOLATILE ORGANICS	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Chloromethane	BDL	10
Bromomethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5
Methylene chloride	BDL	10
Acetone	BDL	25
Carbon disulfide	BDL	5
1,1-Dichloroethene	BDL	5
Tetrahydrofuran	BDL	25
1,1-Dichloroethane	BDL	5
1,2-Dichloroethene (total)	BDL	5
Chloroform	BDL	5
Methyl ethyl ketone	BDL	25
1,2-Dichloroethane	BDL	5
1,1,1-Trichloroethane	BDL	5
Carbon Tetrachloride	BDL	5
Vinyl acetate	BDL	10
Bromodichloromethane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Trichloroethene	BDL	5
Benzene	BDL	5
Dibromochloromethane	BDL	5
1,1,2-Trichloroethane	BDL	5
1,2-Dichloropropane	BDL	5
2-Chloroethyl vinyl ether	BDL	5
Bromoform	BDL	5
Methyl isobutyl ketone	BDL	25
2-Hexanone	BDL	25
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	5
Chlorobenzene	BDL	5
Ethylbenzene	BDL	5
m-Xylene	BDL	5
o,p-Xylene	BDL	5
Styrene	BDL	5

METHOD REFERENCE: EPA SW 846 3RD EDITION
METHOD 8240

BDL = Below detection limit
J = Probable presence below listed detection limit.

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: BG092995A1
Sample Designation: LABORATORY BLANK
Date Analyzed: 09/29/95
Matrix: WATER

VOLATILE ORGANICS	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Chloromethane	BDL	10
Bromomethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5
Methylene chloride	BDL	10
Acetone	BDL	25
Carbon disulfide	BDL	5
1,1-Dichloroethene	BDL	5
Tetrahydrofuran	BDL	25
1,1-Dichloroethane	BDL	5
1,2-Dichloroethene (total)	BDL	5
Chloroform	BDL	5
Methyl ethyl ketone	BDL	25
1,2-Dichloroethane	BDL	5
1,1,1-Trichloroethane	BDL	5
Carbon Tetrachloride	BDL	5
Vinyl acetate	BDL	10
Bromodichloromethane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Trichloroethene	BDL	5
Benzene	BDL	5
Dibromochloromethane	BDL	5
1,1,2-Trichloroethane	BDL	5
1,2-Dichloropropane	BDL	5
2-Chloroethyl vinyl ether	BDL	5
Bromoform	BDL	5
Methyl isobutyl ketone	BDL	25
2-Hexanone	BDL	25
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	5
Chlorobenzene	BDL	5
Ethylbenzene	BDL	5
m-Xylene	BDL	5
o,p-Xylene	BDL	5
Styrene	BDL	5

METHOD REFERENCE: EPA SW 846 3RD EDITION
METHOD 8240

BDL = Below detection limit
J = Probable presence below listed detection limit.

pace INCORPORATED
THE ASSURANCE OF QUALITY

WATER SEMIVOLATILES SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORPORATION Lab No.: 45418
Project: BLDG. 25

CLIENT SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
CLJ78-WS-001	81	81	44	88	79	80		0
CLJ78-WS-002	80	81	43	86	79	81		0
CLJ78-WS-003	75	81	45	83	78	78		0
CLJ78-WS-004	83	85	66	82	78	82		0
CLJ78-WS-005	77	84	64	85	78	78		0
CLJ78-WS-006	78	80	72	87	80	77		0
B-A2457	71	74	44	75	69	72		0

		QC LIMITS
S1	(NBZ) = Nitrobenzene-d5	35 - 114
S2	(FBP) = 2-Fluorobiphenyl	43 - 116
S3	(TPH) = Terphenyl-d14	33 - 141
S4	(PHL) = Phenol-d5	10 - 110
S5	(2FP) = 2-Fluorophenol	21 - 110
S6	(TBP) = 2,4,6-Tribromophenol	10 - 123

Column to be used to flag recovery values with an asterisk
* Values outside of designated QC limits
D Surrogates diluted out

pace INCORPORATED THE ASSURANCE OF QUALITY

Laboratory number: BA2457
Sample Designation: LAB BLANK
Date Extracted: 09/22/95
Date Analyzed: 09/25/95
Matrix: TCLP EXTRACT

Instrument File Name: >H9204

Parameter	Concentration (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Pyridene	BDL	5.0	0.0
1,4-Dichlorobenzene	BDL	7.5	0.0
2,4-Dinitrotoluene	BDL	0.13	0.0
2-Methylphenol	BDL	200	0.0
3,4-Methylphenols	BDL	200	0.0
Hexachloroethane	BDL	3.0	0.0
Nitrobenzene	BDL	2.0	0.0
Hexachlorobenzene	BDL	0.13	0.0
Pentachlorophenol	BDL	100	0.0
Hexachlorobutadiene	BDL	0.5	0.0
2,4,6-Trichlorophenol	BDL	2.0	0.0
2,4,5-Trichlorophenol	BDL	400	0.0

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

pace INCORPORATED
THE ASSURANCE OF QUALITY

MATRIX SPIKE RECOVERY
ACID/BASE/NEUTRAL EXTRACTABLE ORGANIC COMPOUNDS

Laboratory Number: LS-A2457
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 09/25/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC-OVERY
PHENOL	0	200	131	65
2-CHLOROPHENOL	0	200	134	67
1,4-DICHLOROBENZENE	0	100	58	58
N-NITROSO-DI-N-PROPYLAMINE	0	100	79	79
1,2,4-TRICHLOROBENZENE	0	100	66	66
4-CHLORO-3-METHYLPHENOL	0	200	145	73
ACENAPHTHENE	0	100	71	71
4-NITROPHENOL	0	200	144	72
2,4-DINITROTOLUENE	0	100	69	69
PENTACHLOROPHENOL	0	200	131	66
PYRENE	0	100	70	70

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8270

pace INCORPORATED
THE ASSURANCE OF QUALITY

2E

WATER PESTICIDE SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORPORATION Lab No.: 45418
Project: BLDG. 25

CLIENT SAMPLE NO.	S1 (TCX) #	S2 (DCB) #	OTHER	TOT OUT
CLJ78-WS-001	80	34		0
CLJ78-WS-002	61	30		0
CLJ78-WS-003	73	46		0
CLJ78-WS-004	79	51		0
CLJ78-WS-005	78	72		0
CLJ78-WS-006	70	51		0
B-P4479	66	35		0
TCLP BLANK #279	72	47		0

	QC LIMITS
S1 (TCX) = Tetrachloro-m-xylene	20 - 150
S2 (DCB) = Decachlorobiphenyl	20 - 150

Column to be used to flag recovery values with an asterisk
* Values outside of designated QC limits
D Surrogates diluted out

pace INCORPORATED THE ASSURANCE OF QUALITY

Laboratory number: TCLP BLANK #279
Sample Designation: TCLP BLANK
Date Analyzed: 09/26/95
Matrix: TCLP EXTRACT

PESTICIDES	Result (ug/L)	Regulatory Limit (ug/L)	Detection Limit (ug/L)
GAMMA-BHC	BDL	400	.3
CHLORDANE	BDL	30	3
ENDRIN	BDL	20	.3
HEPTACHLOR	BDL	8	.3
HEPTACHLOR EPOXIDE	BDL	8	.3
TOXAPHENE	BDL	500	10
METHOXYCHLOR	BDL	10000	3

METHOD REFERENCE: EPA SW846, 3rd Edition
METHOD 8080

BDL = Below detection limit

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Laboratory number: B-P4479
Sample Designation: LABORATORY BLANK
Date Analyzed: 09/26/95
Matrix: WATER

PESTICIDES/PCB'S	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
ALDRIN	BDL	0.05
ALPHA-BHC	BDL	0.05
BETA-BHC	BDL	0.05
GAMMA-BHC	BDL	0.05
DELTA-BHC	BDL	0.05
CHLORDANE	BDL	0.05
4,4'-DDT	BDL	0.5
4,4'-DDE	BDL	0.1
4,4'-DDD	BDL	0.05
DIELDRIN	BDL	0.1
ENDOSULFAN I	BDL	0.05
ENDOSULFAN II	BDL	0.05
ENDOSULFAN SULFATE	BDL	0.1
ENDRIN	BDL	0.05
ENDRIN ALDEHYDE	BDL	0.1
HEPTACHLOR	BDL	0.05
HEPTACHLOR EPOXIDE	BDL	0.05
PCB-1242	BDL	1
PCB-1254	BDL	1
PCB-1221	BDL	1
PCB-1232	BDL	1
PCB-1248	BDL	1
PCB-1260	BDL	1
PCB-1016	BDL	1
TOXAPHENE	BDL	2
ENDRIN KETONE	BDL	0.1
METHOXYCHLOR	BDL	0.5

METHOD REFERENCE: EPA SW 846, 3RD EDITION
METHODS 8080

BDL = Below detection limit

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THE ASSURANCE OF QUALITY

PESTICIDES/PCB'S

MATRIX SPIKE DUPLICATE RECOVERY

Laboratory Number: LS-P4479
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 09/26/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC-OVERY
ALPHA-BHC	0	0.25	0.228	91
GAMMA-BHC	0	0.25	0.234	94
BETA-BHC	0	0.25	0.239	96
HEPTACHLOR	0	0.25	0.246	98
DELTA-BHC	0	0.25	0.265	106
ALDRIN	0	0.25	0.214	86
HEPTACHLOR EPOXIDE	0	0.25	0.231	92
4,4'-DDE	0	0.25	0.215	86
DIELDRIN	0	0.25	0.216	86
ENDRIN	0	0.25	0.239	96
4,4'-DDD	0	0.25	0.219	88
ENDOSULFAN II	0	0.25	0.157	63
4,4'-DDT	0	0.25	0.233	93
ENDRIN ALDEHYDE	0	0.25	0.212	85
ENDOSULFAN SULFATE	0	0.25	0.244	98
METHOXYCHLOR	0	2.50	2.428	97
ENDOSULFAN I	0	0.25	0.111	44

METHOD REFERENCE: EPA SW 846, 3RD EDITION
METHOD 8080

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THE ASSURANCE OF QUALITY

WATER HERBICIDE SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORPORATION Lab No.: 45418
Project: BLDG. 25

CLIENT SAMPLE NO.	S1 (DCAA) #	OTHER
CLJ78-WS-001	80	
CLJ78-WS-001RE	66	
CLJ78-WS-002	100	
CLJ78-WS-003	85	
CLJ78-WS-004	81	
CLJ78-WS-005	97	
CLJ78-WS-006	105	
B-E0062	80	
B-E0063	66	
TCLP BLANK #279	94	

	QC LIMITS
S1 (DCAA) = 2,4-Dichlorophenylacetic acid	50 - 150

Column to be used to flag recovery values with an asterisk
* Values outside of designated QC limits
D Surrogates diluted out

pace INCORPORATED THE ASSURANCE OF QUALITY

Laboratory number: TCLP BLANK #279
Sample Designation: TCLP BLANK
Date Analyzed: 09/27/95
Matrix: TCLP EXTRACT

HERBICIDES	Result (ug/L)	Regulatory Limit (ug/L)	Detection Limit (ug/L)
2,4-D	BDL	10	0.005
SILVEX	BDL	1	0.005

METHOD REFERENCE:EPA SW846, 3rd Ed
METHOD 8150

BDL = Below detection limit

Laboratory number: B-E0062
Sample Designation: LABORATORY BLANK
Date Analyzed: 09/27/95
Matrix: WATER

HERBICIDES	CONCENTRATION (mg/L)	DETECTION LIMIT (mg/L)
2,4-D	BDL	2
SILVEX	BDL	2
2,4,5-T	BDL	2
DALAPON	BDL	2
DICAMBA	BDL	2
DICHLOROPROP	BDL	2
2,4-DB	BDL	2
DINOSEB	BDL	2
MCPA	BDL	100
MCPP	BDL	100

METHOD REFERENCE: EPA SW846, 3RD EDITION
METHOD 8150

BDL = Below detection limit

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HERBICIDES

MATRIX SPIKE RECOVERY

Laboratory Number: LSE0062
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 09/27/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC-OVERY
2,4-D	0	5.00	4.88	98
SILVEX	0	5.00	5.49	110

METHOD REFERENCE: EPA SW846, 3RD EDITION
METHOD 8150

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: B-E0063
Sample Designation: LABORATORY BLANK
Date Analyzed: 09/29/95
Matrix: WATER

HERBICIDES	CONCENTRATION (mg/L)	DETECTION LIMIT (mg/L)
2,4-D	BDL	2
SILVEX	BDL	2
2,4,5-T	BDL	2
DALAPON	BDL	2
DICAMBA	BDL	2
DICHLOROPROP	BDL	2
2,4-DB	BDL	2
DINOSEB	BDL	2
MCPA	BDL	100
MCPP	BDL	100

METHOD REFERENCE: EPA SW846, 3RD EDITION
METHOD 8150

BDL = Below detection limit

pace INCORPORATED
THE ASSURANCE OF QUALITY

HERBICIDES

MATRIX SPIKE RECOVERY

Laboratory Number: LSE0063
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 09/29/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC-OVERY
2,4-D	0	5.00	2.56	51
SILVEX	0	5.00	3.00	60

METHOD REFERENCE: EPA SW846, 3RD EDITION
METHOD 8150

pace INCORPORATED
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PACE New England, Inc.

Metals Results for TCLP Blank 279

ELEMENT	BLANK RESULT	
Arsenic	< 0.20	mg/L
Barium	< 0.10	mg/L
Cadmium	< 0.005	mg/L
Chromium	< 0.01	mg/L
Lead	< 0.05	mg/L
Mercury	< 0.0003	mg/L
Selenium	< 0.20	mg/L
Silver	< 0.02	mg/L

All results are methods 3010 and 6010, except mercury (method 7470).

PACE New England, Inc.

Metals QC Results for : 45418

QC BATCH: 12451
MATRIX: WATER
CONCENTRATION UNITS: UG/L

ELEMENT	LCS TRUE VALUE	LCS RESULT	LCS % RECOVERY	METHOD BLANK	
Aluminum	2000.00	1990.00	99.5	B	49.0
Antimony	500.00	488.00	97.6	U	11.9
Arsenic	2000.00	1850.00	92.5	U	22.4
Arsenic -	2000.00	1920.00	96.0	U	2.6
Barium	2000.00	2010.00	100.5	U	0.8
Beryllium	50.00	49.40	98.8	U	0.2
Boron	1000.00	1010.00	101.0	U	34.6
Cadmium	50.00	51.20	102.4	U	1.4
Calcium	10000.00	10400.00	104.0	U	7.3
Chromium	200.00	206.00	103.0	B	4.8
Cobalt	500.00	511.00	102.2	U	2.4
Copper	250.00	251.00	100.4	U	5.6
Iron	1000.00	1020.00	102.0	B	26.1
[illegible]d	500.00	448.00	89.6	U	15.4
[illegible]ad -	500.00	497.00	99.4	U	1.0
Magnesium	10000.00	10100.00	101.0	B	37.4
Manganese	500.00	497.00	99.4	U	0.5
Molybdenum	1000.00	1010.00	101.0	U	1.5
Nickel	500.00	517.00	103.4	U	5.5
Potassium	10000.00	10000.00	100.0	U	500.0
Selenium	2000.00	1840.00	92.0	U	25.3
Selenium -	2000.00	1900.00	95.0	U	3.5
Silver	50.00	49.90	99.8	B	3.4
Sodium	10000.00	10200.00	102.0	B	59.2
Thallium	2000.00	1800.00	90.0	U	21.7
Thallium -	2000.00	1910.00	95.5	U	3.7
Tin	1000.00	935.00	93.5	U	5.3
Titanium	1000.00	975.00	97.5	U	0.2
Vanadium	500.00	494.00	98.8	B	4.1
Zinc	500.00	471.00	94.2	U	5.8

B = Result between instrument detection limit and reporting limit.
U = Result below instrument detection limit.
N = LCS recovery not within advisory QC limits (80% - 120%)
with the exception of Silver QC limits (52% - 136%).

PACE New England, Inc.

Metals QC Results for : 45418

QC BATCH: 61658
MATRIX: WATER
CONCENTRATION UNITS: UG/L

ELEMENT	LCS TRUE VALUE	LCS RESULT	LCS % RECOVERY	METHOD BLANK
Mercury	4.00	4.30	107.5	U 0.10

B = Result between instrument detection limit and reporting limit.
U = Result below instrument detection limit.
N = LCS recovery not within advisory QC limits (80% - 120%)
with the exception of Silver QC limits (52% - 136%).

OM Remediation Services Corp.

CHAIN-OF-CUSTODY RECORD

LAB COPY
Form 0019
Field Technical Services
Rev. 08/89
166685

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
Camp Lejeune D.O. 78	Camp Lejeune NC
PROJ. NO. / **PROJECT CONTACT**	**PROJECT TELEPHONE NO.**
17418 / Rakesh Mishra	910-451-2599
CLIENT'S REPRESENTATIVE	**PROJECT MANAGER/SUPERVISOR**
	Jim Dunn

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) VOA, SVOA, Pest/PCB; Rec CN; Reis Sulfur; Stability; PH; % Water; BTU; Total Halogen; TAL Metals	REMARKS
1	CLJ18-WS-001	9/20	900		X	Soil Sample ~~from~~ near piping coming from building	3	X X X X X	45418
2	CLJ18-WS-002	9/20	915		X	Soil near tank 1	3	X X X X X	
3	CLJ18-WS-003	9/20	930		X	Soil near tank 2	3	X X X X X	
4	CLJ18-WS-004	9/20	945		X	Soil sample near tank 3	3	X X X X X	
5	CLJ18-WS-005	9/20	1000		X	Soil Sample near tank 4	3	X X X X X	
6	CLJ18-WS-006	9/20	1015		X	Soil Sample near tank 5	3	X X X X X	
7									
8									
9									
10									

ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-6		9/20	1500
2		Kit Lawson / Paces	9/21/90	1000
3				
4				

REMARKS
Send Sample to Paces Lab.
TAT 7 day

SAMPLER'S SIGNATURE

Filed

0000121

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THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

October 11, 1995

OHM Remediation Services Corporation
5335 Triangle Parkway
Suite 450
Norcross, GA 30092

SAMPLE DELIVERY GROUP NARRATIVE

OHM Project No.: 17418 (Bldg. 25)
Laboratory: PACE New England - New Hampshire of Hampton, NH
Lab Numbers: 45417
Protocol: SW846 Methods. EPA Level III deliverables. No diskette.

Sample Receipt: These samples were received at PACE, Inc. on September 21, 1995. Laboratory sample numbers were assigned for test parameters as listed on the Sample Table which follows this narrative. The sample shipment was checked for custody seal integrity and cooler temperature. Samples were checked for appropriate preservation and accuracy against the Chains-of-Custody provided. Other than the exceptions noted below, samples were received between 2-6° C and in good condition. PACE Sample Receipt Condition Reports can be found with the Chains-of-Custody.

Shipment received 9/21/95 (45417): Aqueous samples were received in five coolers and were assigned PACE# 45417. Solid samples were received in a single cooler and assigned PACE Lab# 45418. Temperature blanks associated with the aqueous samples ranged between 0.8 to 5.8 degrees Celsius. The samples had been packed on ice. These samples were logged in for a 7-day turnaround per the request on the COC. Two liter bottles were broken during shipment for aqueous sample CLJ78-WT-003 and one liter bottle was broken during shipment for aqueous sample CLJ78-WT-002. The request for TCLP analysis listed on the COC for the water samples was cancelled per the request of Rakesh Mishra (OHM). Instead, the TCLP analysis request was made for the soil samples received with these water samples and logged in under PACE Lab# 45418. Rakesh Mishra was also informed that due to the aqueous nature of the samples, BTU analysis (as well as the subsequent Total Halogen analysis) was not possible. Samples appeared to be largely aqueous rather than liquid (i.e.- oily) in nature.

Samples for Karl Fischer titration were sent to PACE, Lenexa, Kansas for analysis. Results are included in this package.

Volatiles Analysis: The method 8240 blanks contained low levels of methylene chloride. The sample results for this analyte should be used with due consideration.

Semivolatiles Analysis: Laboratory number 45417-8 was extracted on 09/25/95 and analyzed on 09/26/95. There was poor recovery of the surrogates 2-fluorobiphenyl and terphenyl-d14, and no recovery of the surrogate nitrobenzene-d5. The sample was re-analyzed with the same result.

Laboratory number 45417-8 was re-extracted on 10/02/95 (out of holding time) and was analyzed on 10/04/95. Surrogate recoveries in the re-extract were all within acceptance limits. The target compounds bis(2-chloroethyl)ether and 2-methylphenol were identified in the re-extracted sample but were not identified in the original extract due to non-target interference.

Pesticide/PCB Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

Metals Analysis: The matrix spike of laboratory number 45417-15 showed 24.0% and 73.6% recoveries for antimony and selenium, respectively, (advisory limit 75-125%). This is a probable matrix effect.

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Hampton, NH 03842
TEL: 603-926-7777
800-992-0724
FAX: 603-926-7939

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THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

SDG Narrative

The replicate analysis of chromium and nickel in laboratory number 45417-15 showed RPD of 21.8 and 58.1, respectively (advisory limit 20%).

Conventional Parameters: There is no holding time allotted for samples for pH analysis. While this analysis was performed as soon as possible on the day of sample receipt, this parameter should be determined on site at the time of collection. Results obtained in the laboratory should be used with due consideration.

Statement of Compliancy and Data Authorization

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Richard L Wellman — 10/11/95

PACE Incorporated, New England-New Hampshire — October 11, 1995

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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

NEW ENGLAND - NEW HAMPSHIRE LABORATORY
SAMPLE RECEIPT CONDITION REPORT
Tel. (603) 926-7777
FAX (603) 926-7939

LAB# 45417
PAGE ____ of ____
COOLER 1 of 5
COC# ____
SDG# ____
CASE# ____

CLIENT OHM
DATE/TIME RECEIVED 9/21/95 0945
DELIVERED BY Fed Ex
RECEIVED BY [signature]
LIMS ENTRY BY GNF
TRANSCRIPTION REVIEW BY ____
LIMS REVIEW BY/PM GNF

		NA	YES	EXCEPTION	COMMENT	RESOLUTION
1.	CUSTODY SEALS PRESENT/INTACT	☑	☐	☐		
2.	CHAIN OF CUSTODY PRESENT IN THIS COOLER	☐	☑	☐		
3.	CHAIN OF CUSTODY SIGNED	☐	☑	☐		
4.	CHAIN OF CUSTODY MATCHES SAMPLES	☐	☑	☑	See Below	
5.	SAMPLES RECEIVED AT 2° - 6° C (Ice/Ice Packs Present? (Y) or N)	☐	☑	☐	Temp = 5.8°C	
6.	VOLATILES FREE OF HEAD SPACE	☐	☑	☐		
7.	TRIP BLANK PRESENT IN THIS COOLER	☐	☐	☑	None Present	
8.	PROPER SAMPLE CONTAINERS AND VOLUME	☐	☐	☐		
9.	SAMPLES WITHIN HOLD TIME	☐	☑	☐		
10.	SAMPLES PROPERLY PRESERVED	☐	☐	☐		

11. ANALYTICAL PROGRAMS (circle one) COMMERCIAL CLP EPA-CLP NYASP NJ ISRA NEESA AFCEE Other ____
12. NUMBER OF PACE FILTRATIONS: ____
13. CORRECTIVE ACTIONS REPORT # ____

Log-in Notes:

Cooler #1 Contained all containers for ID CLJ78-WT-004

Times of sampling not indicated on chain = WT-001 = 1115
WT-002 = 1120
WT-003 = 1205
WT-004 = 1135
WT-005 = 1150

Gretchen spoke to Rakish Mishra on 9/21/95 (~11 AM) who indicated that we should cancel request for TCLP on the liquid samples and perform TCLP analysis on the solids instead. He was also informed that the lab is unable to bomb a water sample (BTU and subsequent Total Halogen analysis). I suggested that PACE could perform a chloride analysis instead on 100 ml's of sample. He was to consider and inform me if Cl data is required for water samples. GNF 9/25/95
He was also informed of breakage (see pages 3 of 5 and 5 of 5).

CLIENT AUTHORIZATION SIGNATURE ____ DATE ____

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

NEW ENGLAND - NEW HAMPSHIRE LABORATORY
SAMPLE RECEIPT CONDITION REPORT
Tel. (603) 926-7777
FAX (603) 926-7939

LAB# 45417
PAGE ____ of ____
COOLER 2 of 5
COC# ____
SDG# ____
CASE# ____

CLIENT OHM
DATE/TIME RECEIVED 9/21/95 0945
DELIVERED BY Fed Ex
RECEIVED BY [signature]
LIMS ENTRY BY Gmf
TRANSCRIPTION REVIEW BY ____
LIMS REVIEW BY/PM Gmf

	NA	YES	EXCEPTION	COMMENT	RESOLUTION
1. CUSTODY SEALS PRESENT/INTACT	☑	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER	☐	☑	☐		
3. CHAIN OF CUSTODY SIGNED	☐	☑	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES	☐	☑	☐		
5. SAMPLES RECEIVED AT 2° - 6° C (Ice/Ice Packs Present? (Y) or N)	☐	☑	☐	Temp = 4.1°C	
6. VOLATILES FREE OF HEAD SPACE	☐	☑	☐		
7. TRIP BLANK PRESENT IN THIS COOLER	☐	☐	☑	None present	
8. PROPER SAMPLE CONTAINERS AND VOLUME	☐	☐	☐		
9. SAMPLES WITHIN HOLD TIME	☐	☑	☐		
10. SAMPLES PROPERLY PRESERVED	☐	☐	☐		

11. ANALYTICAL PROGRAMS (circle one) COMMERCIAL CLP EPA-CLP NYASP NJ ISRA NEESA AFCEE Other ____
12. NUMBER OF PACE FILTRATIONS: ____
13. CORRECTIVE ACTIONS REPORT # ____

Log-in Notes:

Cooler #2 held - all TAKS for ID CL178-WT-001

Samples logged as follows:

VOA = -1 through -5

BNA and P/P = -6 through -10

TAL metals = -11 through -15

pH, Flashpoint (Ignit), Releasables (CN + Sulfide) = -16 through -20

Karl Fischer % Water = -21 through -25

Samples were forwarded to PACE Kansas on 9/21/95.

CLIENT AUTHORIZATION SIGNATURE ____ DATE ____

0000004

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

NEW ENGLAND - NEW HAMPSHIRE LABORATORY
SAMPLE RECEIPT CONDITION REPORT
Tel. (603) 926-7777
FAX (603) 926-7939

LAB# 45417
PAGE ____ of ____
COOLER 3 of 5
COC# ____
SDG# ____
CASE# ____

CLIENT OHM
DATE/TIME RECEIVED 9/21/95 0945
DELIVERED BY Fed Ex
RECEIVED BY [signature]
LIMS ENTRY BY GMK
TRANSCRIPTION REVIEW BY ____
LIMS REVIEW BY/PM GMK

	NA	YES	EXCEPTION	COMMENT	RESOLUTION
1. CUSTODY SEALS PRESENT/INTACT	☑	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER	☐	☑	☐		
3. CHAIN OF CUSTODY SIGNED	☐	☑	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES	☐	☑	☐		
5. SAMPLES RECEIVED AT 2° - 6° C (Ice) Ice Packs Present? (Y) or N	☐	☑	☐	Temp = 4.8°C	
6. VOLATILES FREE OF HEAD SPACE	☐	☑	☐		
7. TRIP BLANK PRESENT IN THIS COOLER	☐	☐	☑	None present	
8. PROPER SAMPLE CONTAINERS AND VOLUME	☐	☐	☐		
9. SAMPLES WITHIN HOLD TIME	☐	☑	☐		
10. SAMPLES PROPERLY PRESERVED	☐	☐	☐		

11. ANALYTICAL PROGRAMS (circle one) COMMERCIAL CLP EPA-CLP NYASP NJ ISRA NEESA AFCEE Other ____
12. NUMBER OF PACE FILTRATIONS: ____
13. CORRECTIVE ACTIONS REPORT # ____

Log-in Notes:
Cooler #3 contents = 10 jars rec'd in tact / 2 broken for CLT78-WT-003

CLIENT AUTHORIZATION SIGNATURE ____ DATE ____

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

NEW ENGLAND - NEW HAMPSHIRE LABORATORY
SAMPLE RECEIPT CONDITION REPORT
Tel. (603) 926-7777
FAX (603) 926-7939

LAB# 45417
PAGE ____ of ____
COOLER 4 of 5
COC# ____
SDG# ____
CASE# ____

CLIENT OHM
DATE/TIME RECEIVED 9/21/95 0945
DELIVERED BY Fed-Ex
RECEIVED BY [signature]
LIMS ENTRY BY GMF
TRANSCRIPTION REVIEW BY ____
LIMS REVIEW BY/PM GMF

	NA	YES	EXCEPTION	COMMENT	RESOLUTION
1. CUSTODY SEALS PRESENT/INTACT	☑	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER	☐	☑	☐		
3. CHAIN OF CUSTODY SIGNED	☐	☑	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES	☐	☑	☐		
5. SAMPLES RECEIVED AT 2° - 6° C Ice/Ice Packs Present? (Y) or N	☐	☐	☑	Temp = 0.8°C	
6. VOLATILES FREE OF HEAD SPACE	☐	☑	☐		
7. TRIP BLANK PRESENT IN THIS COOLER	☐	☐	☑	None Present	
8. PROPER SAMPLE CONTAINERS AND VOLUME	☐	☐	☐		
9. SAMPLES WITHIN HOLD TIME	☐	☑	☐		
10. SAMPLES PROPERLY PRESERVED	☐	☐	☐		

11. ANALYTICAL PROGRAMS (circle one) COMMERCIAL CLP EPA-CLP NYASP NJ ISRA NEESA AFCEE Other ____
12. NUMBER OF PACE FILTRATIONS: ____
13. CORRECTIVE ACTIONS REPORT # ____

Log-in Notes:
Contents of Cooler #4 = all Jars to CLJ78-WT-005

CLIENT AUTHORIZATION SIGNATURE ____ DATE ____

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

NEW ENGLAND - NEW HAMPSHIRE LABORATORY
SAMPLE RECEIPT CONDITION REPORT
Tel. (603) 926-7777
FAX (603) 926-7939

LAB# 45417
PAGE ____ of ____
COOLER 5 of 5
COC# ____
SDG# ____
CASE# ____

CLIENT OHM
DATE/TIME RECEIVED 9/21/95 0945
DELIVERED BY Fed-Ex
RECEIVED BY [signature]
LIMS ENTRY BY Grf
TRANSCRIPTION REVIEW BY ____
LIMS REVIEW BY/PM Grf

	NA	YES	EXCEPTION	COMMENT	RESOLUTION
1. CUSTODY SEALS PRESENT/INTACT	☑	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER	☐	☑	☐		
3. CHAIN OF CUSTODY SIGNED	☐	☑	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES	☐	☑	☐		
5. SAMPLES RECEIVED AT 2° - 6° C Ice/Ice Packs Present? (Y) or N	☐	☐	☐		
6. VOLATILES FREE OF HEAD SPACE	☐	☑	☐		
7. TRIP BLANK PRESENT IN THIS COOLER	☐	☐	☑	None present	
8. PROPER SAMPLE CONTAINERS AND VOLUME	☐	☐	☐		
9. SAMPLES WITHIN HOLD TIME	☐	☑	☐		
10. SAMPLES PROPERLY PRESERVED	☐	☐	☐		

11. ANALYTICAL PROGRAMS (circle one) COMMERCIAL CLP EPA-CLP NYASP NJ ISRA NEESA AFCEE Other ____
12. NUMBER OF PACE FILTRATIONS: ____
13. CORRECTIVE ACTIONS REPORT # ____

Log-in Notes:
Cooler # 5 Contents = 11 jars intact / 1 JAR Broken to Site
CLJ78-WT-002

CLIENT AUTHORIZATION SIGNATURE ____ DATE ____

SAMPLE TABLE

CLIENT ID.	MATRIX	PACE #	PARAMETERS
CLJ78-WT-001	WATER	45417-001	GC/MS VOA
		45417-006	ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
			PCBS
			ORGANOCHLORINE PESTICIDES
		45417-011	CLP METALS
		45417-016	pH
			FLASH POINT
			RELEASABLE CYANIDE
			RELEASABLE SULFIDE
		45417-021	WATER (KARL FISCHER)
CLJ78-WT-002	WATER	45417-002	GC/MS VOA
		45417-007	ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
			PCBS
			ORGANOCHLORINE PESTICIDES
		45417-012	CLP METALS
		45417-017	pH
			FLASH POINT
			RELEASABLE CYANIDE
			RELEASABLE SULFIDE
		45417-022	WATER (KARL FISCHER)
CLJ78-WT-003	WATER	45417-003	GC/MS VOA
		45417-008	ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
			PCBS
			ORGANOCHLORINE PESTICIDES
		45417-013	CLP METALS
		45417-018	pH
			FLASH POINT
			RELEASABLE CYANIDE
			RELEASABLE SULFIDE
		45417-023	WATER (KARL FISCHER)
CLJ78-WT-004	WATER	45417-004	GC/MS VOA
		45417-009	ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
			PCBS
			ORGANOCHLORINE PESTICIDES
		45417-014	CLP METALS
		45417-019	pH
			FLASH POINT
			RELEASABLE CYANIDE
			RELEASABLE SULFIDE
		45417-024	WATER (KARL FISCHER)

pace INCORPORATED THE ASSURANCE OF QUALITY

SAMPLE TABLE
(CONTINUED)

CLIENT ID.	MATRIX	PACE #	PARAMETERS
CLJ78-WT-005	WATER	45417-005	GC/MS VOA
		45417-010	ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
			PCBS
			ORGANOCHLORINE PESTICIDES
		45417-015	CLP METALS
		45417-020	pH
			FLASH POINT
			RELEASABLE CYANIDE
			RELEASABLE SULFIDE
		45417-025	WATER (KARL FISCHER)

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45417-001
Sample Designation: CLJ78-WT-001
Date Analyzed: 09/27/95
Matrix: WATER

Instrument File Name: >G4705

VOLATILE ORGANICS	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
Chloromethane	BDL	500
Bromomethane	BDL	500
Vinyl chloride	BDL	500
Chloroethane	BDL	250
Methylene chloride	BDL	500
Acetone	BDL	1300
Carbon disulfide	BDL	250
Tetrahydrofuran	BDL	1300
Trichlorofluoromethane	BDL	250
1,1-Dichloroethene	BDL	250
1,1-Dichloroethane	BDL	250
1,2-Dichloroethene (total)	7900	250
Chloroform	BDL	250
1,2-Dichloroethane	BDL	250
2-Butanone	BDL	1300
1,1,1-Trichloroethane	BDL	250
Carbon Tetrachloride	BDL	250
Vinyl acetate	BDL	500
Bromodichloromethane	BDL	250
1,2-Dichloropropane	BDL	250
cis-1,3-Dichloropropene	BDL	250
trans-1,3-Dichloropropene	BDL	250
Trichloroethene	BDL	250
Dibromochloromethane	BDL	250
1,1,2-Trichloroethane	BDL	250
Benzene	BDL	250
Bromoform	BDL	250
4-Methyl-2-Pentanone	BDL	1300
2-Hexanone	BDL	1300
Tetrachloroethene	BDL	250
1,1,2,2-Tetrachloroethane	BDL	250
Toluene	BDL	250
Chlorobenzene	BDL	250
Ethylbenzene	BDL	250
Styrene	BDL	250
Xylene (total)	910	250

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8240

BDL = Below reporting limit

This sample required dilution to bring a high target analyte concentration into the calibration range.
Detection limits were elevated accordingly.

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45417-002
Sample Designation: CLJ78-WT-002
Date Analyzed: 09/28/95
Matrix: WATER

Instrument File Name: >G4739

VOLATILE ORGANICS	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
Chloromethane	BDL	2000
Bromomethane	BDL	2000
Vinyl chloride	BDL	2000
Chloroethane	BDL	1000
Methylene chloride	1800 J	2000
Acetone	BDL	5000
Carbon disulfide	BDL	1000
Tetrahydrofuran	BDL	5000
Trichlorofluoromethane	BDL	1000
1,1-Dichloroethene	BDL	1000
1,1-Dichloroethane	BDL	1000
1,2-Dichloroethene (total)	9700	1000
Chloroform	BDL	1000
1,2-Dichloroethane	BDL	1000
2-Butanone	BDL	5000
1,1,1-Trichloroethane	BDL	1000
Carbon Tetrachloride	BDL	1000
Vinyl acetate	BDL	2000
Bromodichloromethane	BDL	1000
1,2-Dichloropropane	BDL	1000
cis-1,3-Dichloropropene	BDL	1000
trans-1,3-Dichloropropene	BDL	1000
Trichloroethene	12000	1000
Dibromochloromethane	BDL	1000
1,1,2-Trichloroethane	BDL	1000
Benzene	BDL	1000
Bromoform	BDL	1000
4-Methyl-2-Pentanone	BDL	5000
2-Hexanone	BDL	5000
Tetrachloroethene	30000	1000
1,1,2,2-Tetrachloroethane	BDL	1000
Toluene	BDL	1000
Chlorobenzene	BDL	1000
Ethylbenzene	BDL	1000
Styrene	BDL	1000
Xylene (total)	1300	1000

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8240

BDL = Below reporting limit
J = Probable presence below listed detection limit

This sample required dilution to bring a high target analyte concentration into the calibration range.
Detection limits were elevated accordingly.

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45417-003
Sample Designation: CLJ78-WT-003
Date Analyzed: 09/29/95
Matrix: WATER

Instrument File Name: >G4765

VOLATILE ORGANICS	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
Chloromethane	BDL	25000
Bromomethane	BDL	25000
Vinyl chloride	BDL	25000
Chloroethane	BDL	13000
Methylene chloride	BDL	25000
Acetone	BDL	63000
Carbon disulfide	BDL	13000
Tetrahydrofuran	BDL	63000
Trichlorofluoromethane	BDL	13000
1,1-Dichloroethene	BDL	13000
1,1-Dichloroethane	BDL	13000
1,2-Dichloroethene (total)	350000	13000
Chloroform	BDL	13000
1,2-Dichloroethane	BDL	13000
2-Butanone	BDL	63000
1,1,1-Trichloroethane	BDL	13000
Carbon Tetrachloride	BDL	13000
Vinyl acetate	BDL	25000
Bromodichloromethane	BDL	13000
1,2-Dichloropropane	BDL	13000
cis-1,3-Dichloropropene	BDL	13000
trans-1,3-Dichloropropene	BDL	13000
Trichloroethene	BDL	13000
Dibromochloromethane	BDL	13000
1,1,2-Trichloroethane	BDL	13000
Benzene	BDL	13000
Bromoform	BDL	13000
4-Methyl-2-Pentanone	BDL	63000
2-Hexanone	BDL	63000
Tetrachloroethene	BDL	13000
1,1,2,2-Tetrachloroethane	BDL	13000
Toluene	BDL	13000
Chlorobenzene	BDL	13000
Ethylbenzene	BDL	13000
Styrene	BDL	13000
Xylene (total)	BDL	13000

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8240

BDL = Below reporting limit
J = Probable presence below listed detection limit

This sample required dilution to bring a high target analyte concentration into the calibration range.
Detection limits were elevated accordingly.

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45417-004
Sample Designation: CLJ78-WT-004
Date Analyzed: 09/28/95
Matrix: WATER

Instrument File Name: >G4741

VOLATILE ORGANICS	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
Chloromethane	BDL	200
Bromomethane	BDL	200
Vinyl chloride	BDL	200
Chloroethane	BDL	100
Methylene chloride	200	200
Acetone	250 J	500
Carbon disulfide	BDL	100
Tetrahydrofuran	BDL	500
Trichlorofluoromethane	BDL	100
1,1-Dichloroethene	BDL	100
1,1-Dichloroethane	BDL	100
1,2-Dichloroethene (total)	390	100
Chloroform	BDL	100
1,2-Dichloroethane	BDL	100
2-Butanone	BDL	500
1,1,1-Trichloroethane	BDL	100
Carbon Tetrachloride	BDL	100
Vinyl acetate	BDL	200
Bromodichloromethane	BDL	100
1,2-Dichloropropane	BDL	100
cis-1,3-Dichloropropene	BDL	100
trans-1,3-Dichloropropene	BDL	100
Trichloroethene	130	100
Dibromochloromethane	BDL	100
1,1,2-Trichloroethane	BDL	100
Benzene	BDL	100
Bromoform	BDL	100
4-Methyl-2-Pentanone	240 J	500
2-Hexanone	BDL	500
Tetrachloroethene	BDL	100
1,1,2,2-Tetrachloroethane	BDL	100
Toluene	86 J	100
Chlorobenzene	BDL	100
Ethylbenzene	120	100
Styrene	BDL	100
Xylene (total)	1100	100

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8240

BDL = Below reporting limit
J = Probable presence below listed detection limit

This sample required dilution to bring a high target analyte concentration into the calibration range.
Detection limits were elevated accordingly.

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45417-005
Sample Designation: CLJ78-WT-005
Date Analyzed: 09/27/95
Matrix: WATER

Instrument File Name: >G4709

VOLATILE ORGANICS	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
Chloromethane	BDL	200
Bromomethane	BDL	200
Vinyl chloride	BDL	200
Chloroethane	BDL	100
Methylene chloride	120 J	200
Acetone	420 J	500
Carbon disulfide	BDL	100
Tetrahydrofuran	BDL	500
Trichlorofluoromethane	BDL	100
1,1-Dichloroethene	BDL	100
1,1-Dichloroethane	BDL	100
1,2-Dichloroethene (total)	650	100
Chloroform	BDL	100
1,2-Dichloroethane	BDL	100
2-Butanone	BDL	500
1,1,1-Trichloroethane	BDL	100
Carbon Tetrachloride	BDL	100
Vinyl acetate	BDL	200
Bromodichloromethane	BDL	100
1,2-Dichloropropane	BDL	100
cis-1,3-Dichloropropene	BDL	100
trans-1,3-Dichloropropene	BDL	100
Trichloroethene	150	100
Dibromochloromethane	BDL	100
1,1,2-Trichloroethane	BDL	100
Benzene	BDL	100
Bromoform	BDL	100
4-Methyl-2-Pentanone	BDL	500
2-Hexanone	BDL	500
Tetrachloroethene	BDL	100
1,1,2,2-Tetrachloroethane	BDL	100
Toluene	94 J	100
Chlorobenzene	BDL	100
Ethylbenzene	130	100
Styrene	BDL	100
Xylene (total)	1300	100

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8240

BDL = Below reporting limit
J = Probable presence below listed detection limit

Detection limit raised by the presence of non-listed compounds.

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45417-006
Sample Designation: CLJ78-WT-001
Date Extracted: 09/25/95
Date Analyzed: 09/27/95
Matrix: WATER

Instrument File Name: >H9237

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
N-Nitrosodimethylamine	BDL	100
Phenol	BDL	100
Aniline	46 J	100
Bis(2-chloroethyl)ether	BDL	100
2-Chlorophenol	BDL	100
1,3-Dichlorobenzene	BDL	100
1,4-Dichlorobenzene	BDL	100
Benzylalcohol	BDL	100
1,2-Dichlorobenzene	BDL	100
2-Methylphenol	BDL	100
Bis(2-chloroisopropyl)ether	BDL	100
4-Methylphenol	980	100
N-Nitroso-di-N-propylamine	BDL	100
Hexachloroethane	BDL	100
Nitrobenzene	BDL	100
Isophorone	BDL	100
2-Nitrophenol	BDL	100
2,4-Dimethylphenol	BDL	100
Benzoic acid	BDL	500
Bis(2-chloroethoxy)methane	BDL	100
2,4-Dichlorophenol	BDL	100
1,2,4-Trichlorobenzene	BDL	100
Naphthalene	BDL	100
4-Chloroaniline	BDL	100
Hexachlorobutadiene	BDL	100
4-Chloro-3-methylphenol	BDL	100
2-Methylnaphthalene	BDL	100
Hexachlorocyclopentadiene	BDL	100
2,4,6-Trichlorophenol	BDL	100
2,4,5-Trichlorophenol	BDL	500
2-Chloronaphthalene	BDL	100
2-Nitroaniline	BDL	500
Dimethylphthalate	BDL	100
Acenaphthylene	BDL	100
2,6-Dinitrotoluene	BDL	100

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
3-Nitroaniline	BDL	500
Acenaphthene	BDL	100
2,4-Dinitrophenol	BDL	500
4-Nitrophenol	BDL	500
Dibenzofuran	BDL	100
2,4-Dinitrotoluene	BDL	100
Diethylphthalate	BDL	100
4-Chlorophenyl-phenylether	BDL	100
Fluorene	BDL	100
4-Nitroaniline	BDL	500
4,6-Dinitro-2-methylphenol	BDL	500
N-Nitrosodiphenylamine	BDL	100
Azobenzene	BDL	100
4-Bromophenyl-phenylether	BDL	100
Hexachlorobenzene	BDL	100
Pentachlorophenol	BDL	100
Phenanthrene	BDL	100
Anthracene	BDL	100
Di-N-butylphthalate	BDL	100
Fluoranthene	BDL	100
Benzidine	BDL	500
Pyrene	BDL	100
Butylbenzylphthalate	BDL	100
3,3'-Dichlorobenzidine	BDL	200
Benzo(A)anthracene	BDL	100
Chrysene	BDL	100
Bis(2-ethylhexyl)phthalate	BDL	100
Di-N-octylphthalate	BDL	100
Benzo(B)fluoranthene	BDL	100
Benzo(K)fluoranthene	BDL	100
Benzo(A)pyrene	BDL	100
Indeno(1,2,3,-CD)pyrene	BDL	100
Dibenz(A,H)anthracene	BDL	100
Benzo(G,H,I)perylene	BDL	100

METHOD REFERENCE: 40 CFR PART 136, FRIDAY , OCTOBER 26, 1984
METHOD 625(MODIFIED)

BDL = Below reporting limit
J = Probable presence below listed detection limit

This sample required dilution to bring a high target analyte concentration into the calibration range.
Detection limits were elevated accordingly.

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45417-006
Sample Designation: CLJ78-WT-001
Date Extracted: 09/22/95
Date Analyzed: 09/28/95
Matrix: WATER

PESTICIDES/PCB'S	CONCENTRATION (ug/L)		REPORTING LIMIT (ug/L)
Aldrin	BDL		3
alpha-BHC	BDL		3
beta-BHC	BDL		3
gamma-BHC (Lindane)	BDL		3
delta-BHC	BDL		3
alpha-Chlordane	BDL		3
gamma-Chlordane	BDL		3
4,4'-DDT	BDL		5
4,4'-DDE	2.8	J	3
4,4'-DDD	22		5
Dieldrin	BDL		3
Endosulfan I	BDL		3
Endosulfan II	BDL		5
Endosulfan sulfate	BDL		5
Endrin	BDL		3
Endrin aldehyde	BDL		5
Heptachlor	BDL		3
Heptachlor Epoxide	BDL		3
PCB-1242 (Arochlor 1242)	BDL		30
PCB-1254 (Arochlor 1254)	BDL		30
PCB-1221 (Arochlor 1221)	BDL		30
PCB-1232 (Arochlor 1232)	BDL		30
PCB-1248 (Arochlor 1248)	BDL		30
PCB-1260 (Arochlor 1260)	BDL		30
PCB-1016 (Arochlor 1016)	BDL		30
Toxaphene	BDL		100
Endrin Ketone	BDL		5
Methoxychlor	BDL		30

METHOD REFERENCE: 40 CFR PART 136, FRIDAY, OCTOBER 26, 1984
METHOD 608

BDL = Below reporting limit
J = Probable presence below listed detection limit

This sample required dilution to bring a high target analyte concentration into the calibration range.
Detection limits were elevated accordingly.

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45417-007
Sample Designation: CLJ78-WT-002
Date Extracted: 09/25/95
Date Analyzed: 09/27/95
Matrix: WATER

Instrument File Name: >H9238

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)	ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
N-Nitrosodimethylamine	BDL	25000	3-Nitroaniline	BDL	130000
Phenol	BDL	25000	Acenaphthene	BDL	25000
Aniline	BDL	25000	2,4-Dinitrophenol	BDL	130000
Bis(2-chloroethyl)ether	BDL	25000	4-Nitrophenol	BDL	130000
2-Chlorophenol	BDL	25000	Dibenzofuran	BDL	25000
1,3-Dichlorobenzene	BDL	25000	2,4-Dinitrotoluene	BDL	25000
1,4-Dichlorobenzene	BDL	25000	Diethylphthalate	BDL	25000
Benzylalcohol	BDL	25000	4-Chlorophenyl-phenylether	BDL	25000
1,2-Dichlorobenzene	BDL	25000	Fluorene	BDL	25000
2-Methylphenol	BDL	25000	4-Nitroaniline	BDL	130000
Bis(2-chloroisopropyl)ether	BDL	25000	4,6-Dinitro-2-methylphenol	BDL	130000
4-Methylphenol	BDL	25000	N-Nitrosodiphenylamine	BDL	25000
N-Nitroso-di-N-propylamine	BDL	25000	Azobenzene	BDL	25000
Hexachloroethane	BDL	25000	4-Bromophenyl-phenylether	BDL	25000
Nitrobenzene	BDL	25000	Hexachlorobenzene	BDL	25000
Isophorone	BDL	25000	Pentachlorophenol	BDL	25000
2-Nitrophenol	BDL	25000	Phenanthrene	BDL	25000
2,4-Dimethylphenol	BDL	25000	Anthracene	BDL	25000
Benzoic acid	BDL	130000	Di-N-butylphthalate	BDL	25000
Bis(2-chloroethoxy)methane	BDL	25000	Fluoranthene	BDL	25000
2,4-Dichlorophenol	BDL	25000	Benzidine	BDL	130000
1,2,4-Trichlorobenzene	BDL	25000	Pyrene	BDL	25000
Naphthalene	BDL	25000	Butylbenzylphthalate	BDL	25000
4-Chloroaniline	BDL	25000	3,3'-Dichlorobenzidine	BDL	50000
Hexachlorobutadiene	BDL	25000	Benzo(A)anthracene	BDL	25000
4-Chloro-3-methylphenol	BDL	25000	Chrysene	BDL	25000
2-Methylnaphthalene	BDL	25000	Bis(2-ethylhexyl)phthalate	BDL	25000
Hexachlorocyclopentadiene	BDL	25000	Di-N-octylphthalate	BDL	25000
2,4,6-Trichlorophenol	BDL	25000	Benzo(B)fluoranthene	BDL	25000
2,4,5-Trichlorophenol	BDL	130000	Benzo(K)fluoranthene	BDL	25000
2-Chloronaphthalene	BDL	25000	Benzo(A)pyrene	BDL	25000
2-Nitroaniline	BDL	130000	Indeno(1,2,3,-CD)pyrene	BDL	25000
Dimethylphthalate	BDL	25000	Dibenz(A,H)anthracene	BDL	25000
Acenaphthylene	BDL	25000	Benzo(G,H,I)perylene	BDL	25000
2,6-Dinitrotoluene	BDL	25000			

METHOD REFERENCE: 40 CFR PART 136, FRIDAY , OCTOBER 26, 1984
METHOD 625(MODIFIED)

BDL = Below reporting limit
J = Probable presence below listed detection limit.

Detection limit raised by the presence of non-listed compounds.

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45417-007
Sample Designation: CLJ78-WT-002
Date Extracted: 09/22/95
Date Analyzed: 09/28/95
Matrix: WATER

PESTICIDES/PCB'S	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
Aldrin	BDL	10
alpha-BHC	BDL	10
beta-BHC	BDL	10
gamma-BHC (Lindane)	BDL	10
delta-BHC	BDL	10
alpha-Chlordane	BDL	10
gamma-Chlordane	BDL	10
4,4'-DDT	BDL	30
4,4'-DDE	19	10
4,4'-DDD	190	30
Dieldrin	BDL	10
Endosulfan I	BDL	10
Endosulfan II	BDL	30
Endosulfan sulfate	BDL	30
Endrin	BDL	10
Endrin aldehyde	BDL	30
Heptachlor	BDL	10
Heptachlor Epoxide	BDL	10
PCB-1242 (Arochlor 1242)	BDL	100
PCB-1254 (Arochlor 1254)	BDL	100
PCB-1221 (Arochlor 1221)	BDL	100
PCB-1232 (Arochlor 1232)	BDL	100
PCB-1248 (Arochlor 1248)	BDL	100
PCB-1260 (Arochlor 1260)	BDL	100
PCB-1016 (Arochlor 1016)	BDL	100
Toxaphene	BDL	500
Endrin Ketone	BDL	30
Methoxychlor	BDL	100

METHOD REFERENCE: 40 CFR PART 136, FRIDAY, OCTOBER 26, 1984
METHOD 608

BDL = Below reporting limit

This sample required dilution to bring a high target analyte concentration into the calibration range.
Detection limits were elevated accordingly.

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45417-008
Sample Designation: CLJ78-WT-003
Date Extracted: 09/25/95
Date Analyzed: 09/26/95
Matrix: WATER

Instrument File Name: >H9224

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)		REPORTING LIMIT (ug/L)
N-Nitrosodimethylamine	BDL		20
Phenol	BDL		20
Aniline	22		20
Bis(2-chloroethyl)ether	BDL		20
2-Chlorophenol	BDL		20
1,3-Dichlorobenzene	BDL		20
1,4-Dichlorobenzene	BDL		20
Benzylalcohol	BDL		20
1,2-Dichlorobenzene	BDL		20
2-Methylphenol	BDL		20
Bis(2-chloroisopropyl)ether	BDL		20
4-Methylphenol	160		20
N-Nitroso-di-N-propylamine	BDL		20
Hexachloroethane	BDL		20
Nitrobenzene	BDL		20
Isophorone	BDL		20
2-Nitrophenol	BDL		20
2,4-Dimethylphenol	38		20
Benzoic acid	BDL		100
Bis(2-chloroethoxy)methane	BDL		20
2,4-Dichlorophenol	BDL		20
1,2,4-Trichlorobenzene	BDL		20
Naphthalene	4.9	J	20
4-Chloroaniline	BDL		20
Hexachlorobutadiene	BDL		20
4-Chloro-3-methylphenol	BDL		20
2-Methylnaphthalene	BDL		20
Hexachlorocyclopentadiene	BDL		20
2,4,6-Trichlorophenol	BDL		20
2,4,5-Trichlorophenol	BDL		100
2-Chloronaphthalene	BDL		20
2-Nitroaniline	BDL		100
Dimethylphthalate	BDL		20
Acenaphthylene	BDL		20
2,6-Dinitrotoluene	BDL		20

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)		REPORTING LIMIT (ug/L)
3-Nitroaniline	BDL		100
Acenaphthene	BDL		20
2,4-Dinitrophenol	BDL		100
4-Nitrophenol	BDL		100
Dibenzofuran	BDL		20
2,4-Dinitrotoluene	BDL		20
Diethylphthalate	BDL		20
4-Chlorophenyl-phenylether	BDL		20
Fluorene	BDL		20
4-Nitroaniline	BDL		100
4,6-Dinitro-2-methylphenol	BDL		100
N-Nitrosodiphenylamine	BDL		20
Azobenzene	BDL		20
4-Bromophenyl-phenylether	BDL		20
Hexachlorobenzene	BDL		20
Pentachlorophenol	BDL		20
Phenanthrene	BDL		20
Anthracene	BDL		20
Di-N-butylphthalate	BDL		20
Fluoranthene	BDL		20
Benzidine	BDL		100
Pyrene	BDL		20
Butylbenzylphthalate	BDL		20
3,3'-Dichlorobenzidine	BDL		40
Benzo(A)anthracene	BDL		20
Chrysene	BDL		20
Bis(2-ethylhexyl)phthalate	5.5	J	20
Di-N-octylphthalate	BDL		20
Benzo(B)fluoranthene	BDL		20
Benzo(K)fluoranthene	BDL		20
Benzo(A)pyrene	BDL		20
Indeno(1,2,3,-CD)pyrene	BDL		20
Dibenz(A,H)anthracene	BDL		20
Benzo(G,H,I)perylene	BDL		20

METHOD REFERENCE: 40 CFR PART 136, FRIDAY , OCTOBER 26, 1984
METHOD 625(MODIFIED)

BDL = Below reporting limit
J = Probable presence below listed detection limit

This sample required dilution to bring a high target analyte concentration into the calibration range.
Detection limits were elevated accordingly.

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45417-008RE
Sample Designation: CLJ78-WT-003RE
Date Extracted: 10/02/95
Date Analyzed: 10/04/95
Matrix: WATER

Instrument File Name: >H9338

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)		REPORTING LIMIT (ug/L)
N-Nitrosodimethylamine	BDL		23
Phenol	BDL		23
Aniline	10	J	23
Bis(2-chloroethyl)ether	110		23
2-Chlorophenol	BDL		23
1,3-Dichlorobenzene	BDL		23
1,4-Dichlorobenzene	BDL		23
Benzylalcohol	BDL		23
1,2-Dichlorobenzene	BDL		23
2-Methylphenol	48		23
Bis(2-chloroisopropyl)ether	BDL		23
4-Methylphenol	230		23
N-Nitroso-di-N-propylamine	BDL		23
Hexachloroethane	BDL		23
Nitrobenzene	BDL		23
Isophorone	BDL		23
2-Nitrophenol	BDL		23
2,4-Dimethylphenol	57		23
Benzoic acid	BDL		110
Bis(2-chloroethoxy)methane	BDL		23
2,4-Dichlorophenol	BDL		23
1,2,4-Trichlorobenzene	BDL		23
Naphthalene	16	J	23
4-Chloroaniline	BDL		23
Hexachlorobutadiene	BDL		23
4-Chloro-3-methylphenol	BDL		23
2-Methylnaphthalene	BDL		23
Hexachlorocyclopentadiene	BDL		23
2,4,6-Trichlorophenol	BDL		23
2,4,5-Trichlorophenol	BDL		110
2-Chloronaphthalene	BDL		23
2-Nitroaniline	BDL		110
Dimethylphthalate	BDL		23
Acenaphthylene	BDL		23
2,6-Dinitrotoluene	BDL		23

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)		REPORTING LIMIT (ug/L)
3-Nitroaniline	BDL		110
Acenaphthene	BDL		23
2,4-Dinitrophenol	BDL		110
4-Nitrophenol	BDL		110
Dibenzofuran	BDL		23
2,4-Dinitrotoluene	BDL		23
Diethylphthalate	BDL		23
4-Chlorophenyl-phenylether	BDL		23
Fluorene	BDL		23
4-Nitroaniline	BDL		110
4,6-Dinitro-2-methylphenol	BDL		110
N-Nitrosodiphenylamine	BDL		23
Azobenzene	BDL		23
4-Bromophenyl-phenylether	BDL		23
Hexachlorobenzene	BDL		23
Pentachlorophenol	BDL		23
Phenanthrene	BDL		23
Anthracene	BDL		23
Di-N-butylphthalate	BDL		23
Fluoranthene	BDL		23
Benzidine	BDL		110
Pyrene	BDL		23
Butylbenzylphthalate	BDL		23
3,3'-Dichlorobenzidine	BDL		45
Benzo(A)anthracene	BDL		23
Chrysene	BDL		23
Bis(2-ethylhexyl)phthalate	6.3	J	23
Di-N-octylphthalate	BDL		23
Benzo(B)fluoranthene	BDL		23
Benzo(K)fluoranthene	BDL		23
Benzo(A)pyrene	BDL		23
Indeno(1,2,3,-CD)pyrene	BDL		23
Dibenz(A,H)anthracene	BDL		23
Benzo(G,H,I)perylene	BDL		23

METHOD REFERENCE: 40 CFR PART 136, FRIDAY , OCTOBER 26, 1984
METHOD 625(MODIFIED)

BDL = Below reporting limit
J = Probable presence below listed detection limit

This sample required dilution to bring a high target analyte concentration into the calibration range.
Detection limits were elevated accordingly.

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45417-008
Sample Designation: CLJ78-WT-003
Date Extracted: 09/22/95
Date Analyzed: 09/28/95
Matrix: WATER

PESTICIDES/PCB'S	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
Aldrin	BDL	0.5
alpha-BHC	BDL	0.5
beta-BHC	BDL	0.5
gamma-BHC (Lindane)	BDL	0.5
delta-BHC	BDL	0.5
alpha-Chlordane	BDL	0.5
gamma-Chlordane	BDL	0.5
4,4'-DDT	BDL	1
4,4'-DDE	1.1	0.5
4,4'-DDD	6.5	1
Dieldrin	BDL	0.5
Endosulfan I	BDL	0.5
Endosulfan II	BDL	1
Endosulfan sulfate	BDL	1
Endrin	BDL	0.5
Endrin aldehyde	BDL	1
Heptachlor	BDL	0.5
Heptachlor Epoxide	BDL	0.5
PCB-1242 (Arochlor 1242)	BDL	5
PCB-1254 (Arochlor 1254)	BDL	5
PCB-1221 (Arochlor 1221)	BDL	5
PCB-1232 (Arochlor 1232)	BDL	5
PCB-1248 (Arochlor 1248)	BDL	5
PCB-1260 (Arochlor 1260)	BDL	5
PCB-1016 (Arochlor 1016)	BDL	5
Toxaphene	BDL	20
Endrin Ketone	BDL	1
Methoxychlor	BDL	5

METHOD REFERENCE: 40 CFR PART 136, FRIDAY, OCTOBER 26, 1984
METHOD 608

BDL = Below reporting limit

This sample required dilution to bring a high target analyte concentration into the calibration range.
Detection limits were elevated accordingly.

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45417-009
Sample Designation: CLJ78-WT-004
Date Extracted: 09/25/95
Date Analyzed: 09/26/95
Matrix: WATER

Instrument File Name: >H9226

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)		REPORTING LIMIT (ug/L)
N-Nitrosodimethylamine	BDL		500
Phenol	BDL		500
Aniline	BDL		500
Bis(2-chloroethyl)ether	190	J	500
2-Chlorophenol	BDL		500
1,3-Dichlorobenzene	BDL		500
1,4-Dichlorobenzene	BDL		500
Benzylalcohol	BDL		500
1,2-Dichlorobenzene	BDL		500
2-Methylphenol	170	J	500
Bis(2-chloroisopropyl)ether	BDL		500
4-Methylphenol	820		500
N-Nitroso-di-N-propylamine	BDL		500
Hexachloroethane	BDL		500
Nitrobenzene	BDL		500
Isophorone	BDL		500
2-Nitrophenol	BDL		500
2,4-Dimethylphenol	BDL		500
Benzoic acid	BDL		2500
Bis(2-chloroethoxy)methane	BDL		500
2,4-Dichlorophenol	BDL		500
1,2,4-Trichlorobenzene	BDL		500
Naphthalene	330	J	500
4-Chloroaniline	BDL		500
Hexachlorobutadiene	BDL		500
4-Chloro-3-methylphenol	BDL		500
2-Methylnaphthalene	BDL		500
Hexachlorocyclopentadiene	BDL		500
2,4,6-Trichlorophenol	BDL		500
2,4,5-Trichlorophenol	BDL		2500
2-Chloronaphthalene	BDL		500
2-Nitroaniline	BDL		2500
Dimethylphthalate	BDL		500
Acenaphthylene	BDL		500
2,6-Dinitrotoluene	BDL		500

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
3-Nitroaniline	BDL	2500
Acenaphthene	BDL	500
2,4-Dinitrophenol	BDL	2500
4-Nitrophenol	BDL	2500
Dibenzofuran	BDL	500
2,4-Dinitrotoluene	BDL	500
Diethylphthalate	BDL	500
4-Chlorophenyl-phenylether	BDL	500
Fluorene	BDL	500
4-Nitroaniline	BDL	2500
4,6-Dinitro-2-methylphenol	BDL	2500
N-Nitrosodiphenylamine	BDL	500
Azobenzene	BDL	500
4-Bromophenyl-phenylether	BDL	500
Hexachlorobenzene	BDL	500
Pentachlorophenol	BDL	500
Phenanthrene	BDL	500
Anthracene	BDL	500
Di-N-butylphthalate	BDL	500
Fluoranthene	BDL	500
Benzidine	BDL	2500
Pyrene	BDL	500
Butylbenzylphthalate	BDL	500
3,3'-Dichlorobenzidine	BDL	1000
Benzo(A)anthracene	BDL	500
Chrysene	BDL	500
Bis(2-ethylhexyl)phthalate	BDL	500
Di-N-octylphthalate	BDL	500
Benzo(B)fluoranthene	BDL	500
Benzo(K)fluoranthene	BDL	500
Benzo(A)pyrene	BDL	500
Indeno(1,2,3,-CD)pyrene	BDL	500
Dibenz(A,H)anthracene	BDL	500
Benzo(G,H,I)perylene	BDL	500

METHOD REFERENCE: 40 CFR PART 136, FRIDAY , OCTOBER 26, 1984
METHOD 625(MODIFIED)

BDL = Below reporting limit
J = Probable presence below listed detection limit

Detection limit raised by the presence of non-listed compounds.

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45417-009
Sample Designation: CLJ78-WT-004
Date Extracted: 09/22/95
Date Analyzed: 09/28/95
Matrix: WATER

PESTICIDES/PCB'S	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
Aldrin	BDL	0.1
alpha-BHC	BDL	0.1
beta-BHC	BDL	0.1
gamma-BHC (Lindane)	BDL	0.1
delta-BHC	BDL	0.1
alpha-Chlordane	BDL	0.1
gamma-Chlordane	BDL	0.1
4,4'-DDT	BDL	0.2
4,4'-DDE	BDL	0.1
4,4'-DDD	1.9	0.2
Dieldrin	BDL	0.1
Endosulfan I	BDL	0.1
Endosulfan II	BDL	0.2
Endosulfan sulfate	BDL	0.2
Endrin	BDL	0.1
Endrin aldehyde	BDL	0.2
Heptachlor	BDL	0.1
Heptachlor Epoxide	BDL	0.1
PCB-1242 (Arochlor 1242)	BDL	1
PCB-1254 (Arochlor 1254)	BDL	1
PCB-1221 (Arochlor 1221)	BDL	1
PCB-1232 (Arochlor 1232)	BDL	1
PCB-1248 (Arochlor 1248)	BDL	1
PCB-1260 (Arochlor 1260)	BDL	1
PCB-1016 (Arochlor 1016)	BDL	1
Toxaphene	BDL	4
Endrin Ketone	BDL	0.2
Methoxychlor	BDL	1

METHOD REFERENCE: 40 CFR PART 136, FRIDAY, OCTOBER 26, 1984
METHOD 608

BDL = Below reporting limit

This sample required dilution to bring a high target analyte concentration into the calibration range.
Detection limits were elevated accordingly.

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 45417-010
Sample Designation: CLJ78-WT-005
Date Extracted: 09/27/95
Date Analyzed: 09/28/95
Matrix: WATER

Instrument File Name: >H9246

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)		REPORTING LIMIT (ug/L)
N-Nitrosodimethylamine	BDL		2800
Phenol	BDL		2800
Aniline	BDL		2800
Bis(2-chloroethyl)ether	BDL		2800
2-Chlorophenol	BDL		2800
1,3-Dichlorobenzene	BDL		2800
1,4-Dichlorobenzene	BDL		2800
Benzylalcohol	BDL		2800
1,2-Dichlorobenzene	BDL		2800
2-Methylphenol	BDL		2800
Bis(2-chloroisopropyl)ether	BDL		2800
4-Methylphenol	1100	J	2800
N-Nitroso-di-N-propylamine	BDL		2800
Hexachloroethane	BDL		2800
Nitrobenzene	BDL		2800
Isophorone	BDL		2800
2-Nitrophenol	BDL		2800
2,4-Dimethylphenol	BDL		2800
Benzoic acid	BDL		14000
Bis(2-chloroethoxy)methane	BDL		2800
2,4-Dichlorophenol	BDL		2800
1,2,4-Trichlorobenzene	BDL		2800
Naphthalene	860	J	2800
4-Chloroaniline	BDL		2800
Hexachlorobutadiene	BDL		2800
4-Chloro-3-methylphenol	BDL		2800
2-Methylnaphthalene	BDL		2800
Hexachlorocyclopentadiene	BDL		2800
2,4,6-Trichlorophenol	BDL		2800
2,4,5-Trichlorophenol	BDL		14000
2-Chloronaphthalene	BDL		2800
2-Nitroaniline	BDL		14000
Dimethylphthalate	BDL		2800
Acenaphthylene	BDL		2800
2,6-Dinitrotoluene	BDL		2800

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
3-Nitroaniline	BDL	14000
Acenaphthene	BDL	2800
2,4-Dinitrophenol	BDL	14000
4-Nitrophenol	BDL	14000
Dibenzofuran	BDL	2800
2,4-Dinitrotoluene	BDL	2800
Diethylphthalate	BDL	2800
4-Chlorophenyl-phenylether	BDL	2800
Fluorene	BDL	2800
4-Nitroaniline	BDL	14000
4,6-Dinitro-2-methylphenol	BDL	14000
N-Nitrosodiphenylamine	BDL	2800
Azobenzene	BDL	2800
4-Bromophenyl-phenylether	BDL	2800
Hexachlorobenzene	BDL	2800
Pentachlorophenol	BDL	2800
Phenanthrene	BDL	2800
Anthracene	BDL	2800
Di-N-butylphthalate	BDL	2800
Fluoranthene	BDL	2800
Benzidine	BDL	14000
Pyrene	BDL	2800
Butylbenzylphthalate	BDL	2800
3,3'-Dichlorobenzidine	BDL	5600
Benzo(A)anthracene	BDL	2800
Chrysene	BDL	2800
Bis(2-ethylhexyl)phthalate	BDL	2800
Di-N-octylphthalate	BDL	2800
Benzo(B)fluoranthene	BDL	2800
Benzo(K)fluoranthene	BDL	2800
Benzo(A)pyrene	BDL	2800
Indeno(1,2,3,-CD)pyrene	BDL	2800
Dibenz(A,H)anthracene	BDL	2800
Benzo(G,H,I)perylene	BDL	2800

METHOD REFERENCE: 40 CFR PART 136, FRIDAY , OCTOBER 26, 1984
METHOD 625(MODIFIED)

BDL = Below reporting limit
J = Probable presence below listed detection limit

Detection limit raised by the presence of non-listed compounds.

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Laboratory number: 45417-010
Sample Designation: CLJ78-WT-005
Date Extracted: 09/22/95
Date Analyzed: 09/28/95
Matrix: WATER

PESTICIDES/PCB'S	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
Aldrin	BDL	0.1
alpha-BHC	BDL	0.1
beta-BHC	BDL	0.1
gamma-BHC (Lindane)	BDL	0.1
delta-BHC	BDL	0.1
alpha-Chlordane	BDL	0.1
gamma-Chlordane	BDL	0.1
4,4'-DDT	BDL	0.2
4,4'-DDE	0.2	0.1
4,4'-DDD	1.3	0.2
Dieldrin	BDL	0.1
Endosulfan I	BDL	0.1
Endosulfan II	BDL	0.2
Endosulfan sulfate	BDL	0.2
Endrin	BDL	0.1
Endrin aldehyde	BDL	0.2
Heptachlor	BDL	0.1
Heptachlor Epoxide	BDL	0.1
PCB-1242 (Arochlor 1242)	BDL	1
PCB-1254 (Arochlor 1254)	BDL	1
PCB-1221 (Arochlor 1221)	BDL	1
PCB-1232 (Arochlor 1232)	BDL	1
PCB-1248 (Arochlor 1248)	BDL	1
PCB-1260 (Arochlor 1260)	BDL	1
PCB-1016 (Arochlor 1016)	BDL	1
Toxaphene	BDL	4
Endrin Ketone	BDL	0.2
Methoxychlor	BDL	1

METHOD REFERENCE: 40 CFR PART 136, FRIDAY, OCTOBER 26, 1984
METHOD 608

BDL = Below reporting limit

This sample required dilution to bring a high target analyte concentration into the calibration range.
Detection limits were elevated accordingly.

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INORGANIC ANALYSIS DATA SHEET

Lab Name: PACE NE-NH, INC.

Matrix (soil/water): WATER Lab Sample ID: 45417-011

% Solids: 100.0 Field ID: CLJ78-WT-001

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Concentration	C	Instr D.L.	M	QC Batch	Prep. Date	Analysis Date	Analysis Time
Aluminum	37900.00		15.40	P	12451	09/22/95	09/25/95	21:21
Antimony	214.00		11.90	P	12451	09/22/95	09/25/95	21:21
Arsenic	84.40		7.80	P	12451	09/22/95	09/26/95	14:43
Barium	1450.00		0.80	P	12451	09/22/95	09/25/95	21:21
Beryllium	1.70	B	0.20	P	12451	09/22/95	09/25/95	21:21
Cadmium	162.00		1.40	P	12451	09/22/95	09/25/95	21:21
Calcium	123000.00		7.30	P	12451	09/22/95	09/25/95	21:21
Chromium	1760.00		2.00	P	12451	09/22/95	09/25/95	21:21
Cobalt	84.60		2.40	P	12451	09/22/95	09/25/95	21:21
Copper	8150.00		5.60	P	12451	09/22/95	09/25/95	21:21
Iron	345000.00		110.00	P	12451	09/22/95	09/26/95	19:39
Lead	24500.00		154.00	P	12451	09/22/95	09/26/95	19:39
Magnesium	116000.00		22.80	P	12451	09/22/95	09/25/95	21:21
Manganese	1120.00		0.50	P	12451	09/22/95	09/25/95	21:21
Mercury	13.30		0.20	CV	61658	09/22/95	09/28/95	14:06
Nickel	2730.00		5.50	P	12451	09/22/95	09/25/95	21:21
Potassium	30100.00		500.00	P	12451	09/22/95	09/25/95	21:21
Selenium	28.90	B	10.50	P	12451	09/22/95	09/26/95	14:43
Silver	218.00		1.90	P	12451	09/22/95	09/25/95	21:21
Sodium	68500.00		15.00	P	12451	09/22/95	09/25/95	21:21
Thallium	11.10	U	11.10	P	12451	09/22/95	09/26/95	14:43
Vanadium	271.00		2.50	P	12451	09/22/95	09/25/95	21:21
Zinc	25400.00		58.00	P	12451	09/22/95	09/26/95	19:39

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INORGANIC ANALYSIS DATA SHEET

Lab Name: PACE NE-NH, INC.

Matrix (soil/water): WATER Lab Sample ID: 45417-012

% Solids: 100.0 Field ID: CLJ78-WT-002

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Concentration	C	Instr D.L.	M	QC Batch	Prep. Date	Analysis Date	Analysis Time
Aluminum	11600.00		15.40	P	12451	09/22/95	09/25/95	21:26
Antimony	307.00		11.90	P	12451	09/22/95	09/25/95	21:26
Arsenic	44.30		5.20	P	12451	09/22/95	09/26/95	14:48
Barium	2020.00		0.80	P	12451	09/22/95	09/25/95	21:26
Beryllium	0.20	U	0.20	P	12451	09/22/95	09/25/95	21:26
Cadmium	87.00		1.40	P	12451	09/22/95	09/25/95	21:26
Calcium	57900.00		7.30	P	12451	09/22/95	09/25/95	21:26
Chromium	1330.00		2.00	P	12451	09/22/95	09/25/95	21:26
Cobalt	16.40	B	2.40	P	12451	09/22/95	09/25/95	21:26
Copper	6350.00		5.60	P	12451	09/22/95	09/25/95	21:26
Iron	370000.00		110.00	P	12451	09/22/95	09/26/95	19:44
Lead	9110.00		15.40	P	12451	09/22/95	09/25/95	21:26
Magnesium	9830.00		22.80	P	12451	09/22/95	09/25/95	21:26
Manganese	2050.00		0.50	P	12451	09/22/95	09/25/95	21:26
Mercury	4.80		0.10	CV	61658	09/22/95	09/28/95	12:20
Nickel	337.00		5.50	P	12451	09/22/95	09/25/95	21:26
Potassium	7850.00		500.00	P	12451	09/22/95	09/25/95	21:26
Selenium	21.90		7.00	P	12451	09/22/95	09/26/95	14:48
Silver	183.00		1.90	P	12451	09/22/95	09/25/95	21:26
Sodium	19000.00		15.00	P	12451	09/22/95	09/25/95	21:26
Thallium	7.40	U	7.40	P	12451	09/22/95	09/26/95	14:48
Vanadium	80.50		2.50	P	12451	09/22/95	09/25/95	21:26
Zinc	9000.00		5.80	P	12451	09/22/95	09/25/95	21:26

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INORGANIC ANALYSIS DATA SHEET

Lab Name: PACE NE-NH, INC.

Matrix (soil/water): WATER Lab Sample ID: 45417-013

% Solids: 100.0 Field ID: CLJ78-WT-003

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Concentration	C	Instr D.L.	M	QC Batch	Prep. Date	Analysis Date	Analysis Time
Aluminum	53600.00		15.40	P	12451	09/22/95	09/25/95	21:31
Antimony	11.90	U	11.90	P	12451	09/22/95	09/25/95	21:31
Arsenic	32.70		7.80	P	12451	09/22/95	09/26/95	14:53
Barium	518.00		0.80	P	12451	09/22/95	09/25/95	21:31
Beryllium	0.20	U	0.20	P	12451	09/22/95	09/25/95	21:31
Cadmium	9.40		1.40	P	12451	09/22/95	09/25/95	21:31
Calcium	63000.00		7.30	P	12451	09/22/95	09/25/95	21:31
Chromium	167.00		2.00	P	12451	09/22/95	09/25/95	21:31
Cobalt	15.70	B	2.40	P	12451	09/22/95	09/25/95	21:31
Copper	163.00		5.60	P	12451	09/22/95	09/25/95	21:31
Iron	760000.00		110.00	P	12451	09/22/95	09/26/95	19:49
Lead	2840.00		15.40	P	12451	09/22/95	09/25/95	21:31
Magnesium	15000.00		22.80	P	12451	09/22/95	09/25/95	21:31
Manganese	1400.00		0.50	P	12451	09/22/95	09/25/95	21:31
Mercury	1.30		0.10	CV	61658	09/22/95	09/28/95	12:23
Nickel	463.00		5.50	P	12451	09/22/95	09/25/95	21:31
Potassium	18800.00		500.00	P	12451	09/22/95	09/25/95	21:31
Selenium	40.50		10.50	P	12451	09/22/95	09/26/95	14:53
Silver	8.00	B	1.90	P	12451	09/22/95	09/25/95	21:31
Sodium	66600.00		15.00	P	12451	09/22/95	09/25/95	21:31
Thallium	11.10	U	11.10	P	12451	09/22/95	09/26/95	14:53
Vanadium	126.00		2.50	P	12451	09/22/95	09/25/95	21:31
Zinc	4480.00		5.80	P	12451	09/22/95	09/25/95	21:31

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INORGANIC ANALYSIS DATA SHEET

Lab Name: PACE NE-NH, INC.

Matrix (soil/water): WATER Lab Sample ID: 45417-014

% Solids: 100.0 Field ID: CLJ78-WT-004

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Concentration	C	Instr D.L.	M	QC Batch	Prep. Date	Analysis Date	Analysis Time
Aluminum	209000.00		154.00	P	12451	09/22/95	09/26/95	20:04
Antimony	42.00	B	11.90	P	12451	09/22/95	09/25/95	21:36
Arsenic	52.60		5.20	P	12451	09/22/95	09/26/95	14:57
Barium	2200.00		0.80	P	12451	09/22/95	09/25/95	21:36
Beryllium	2.70	B	0.20	P	12451	09/22/95	09/25/95	21:36
Cadmium	55.70		1.40	P	12451	09/22/95	09/25/95	21:36
Calcium	99100.00		7.30	P	12451	09/22/95	09/25/95	21:36
Chromium	1160.00		2.00	P	12451	09/22/95	09/25/95	21:36
Cobalt	13.20	B	2.40	P	12451	09/22/95	09/25/95	21:36
Copper	1240.00		5.60	P	12451	09/22/95	09/25/95	21:36
Iron	298000.00		110.00	P	12451	09/22/95	09/26/95	20:04
Lead	2210.00		15.40	P	12451	09/22/95	09/25/95	21:36
Magnesium	312000.00		22.80	P	12451	09/22/95	09/25/95	21:36
Manganese	584.00		0.50	P	12451	09/22/95	09/25/95	21:36
Mercury	2.40		0.10	CV	61658	09/22/95	09/28/95	12:26
Nickel	280.00		5.50	P	12451	09/22/95	09/25/95	21:36
Potassium	134000.00		500.00	P	12451	09/22/95	09/25/95	21:36
Selenium	23.20		7.00	P	12451	09/22/95	09/26/95	14:57
Silver	99.50		1.90	P	12451	09/22/95	09/25/95	21:36
Sodium	127000.00		15.00	P	12451	09/22/95	09/25/95	21:36
Thallium	7.40	U	7.40	P	12451	09/22/95	09/26/95	14:57
Vanadium	307.00		2.50	P	12451	09/22/95	09/25/95	21:36
Zinc	16000.00		5.80	P	12451	09/22/95	09/25/95	21:36

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INORGANIC ANALYSIS DATA SHEET

Lab Name: PACE NE-NH, INC.

Matrix (soil/water): WATER Lab Sample ID: 45417-015

% Solids: 100.0 Field ID: CLJ78-WT-005

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Concentration	C	Instr D.L.	M	QC Batch	Prep. Date	Analysis Date	Analysis Time
Aluminum	470000.00		154.00	P	12451	09/22/95	09/25/95	21:41
Antimony	128.00		23.80	P	12451	09/22/95	09/26/95	20:10
Arsenic	234.00		7.80	P	12451	09/22/95	09/26/95	15:12
Barium	7210.00		1.60	P	12451	09/22/95	09/26/95	20:10
Beryllium	6.30	B	0.40	P	12451	09/22/95	09/26/95	20:10
Cadmium	236.00		2.80	P	12451	09/22/95	09/26/95	20:10
Calcium	547000.00		73.00	P	12451	09/22/95	09/25/95	21:41
Chromium	6470.00		4.00	P	12451	09/22/95	09/26/95	20:10
Cobalt	136.00		4.80	P	12451	09/22/95	09/26/95	20:10
Copper	8280.00		11.20	P	12451	09/22/95	09/26/95	20:10
Iron	627000.00		110.00	P	12451	09/22/95	09/25/95	21:41
Lead	8260.00		30.80	P	12451	09/22/95	09/26/95	20:10
Magnesium	652000.00		228.00	P	12451	09/22/95	09/25/95	21:41
Manganese	2470.00		1.00	P	12451	09/22/95	09/26/95	20:10
Mercury	3.20		0.10	CV	61658	09/22/95	09/28/95	12:29
Nickel	5200.00		11.00	P	12451	09/22/95	09/26/95	20:10
Potassium	129000.00		5000.0	P	12451	09/22/95	09/25/95	21:41
Selenium	47.60		10.50	P	12451	09/22/95	09/26/95	15:12
Silver	738.00		3.80	P	12451	09/22/95	09/26/95	20:10
Sodium	123000.00		150.00	P	12451	09/22/95	09/25/95	21:41
Thallium	11.10	U	11.10	P	12451	09/22/95	09/26/95	15:12
Vanadium	687.00		5.00	P	12451	09/22/95	09/26/95	20:10
Zinc	52900.00		58.00	P	12451	09/22/95	09/25/95	21:41

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INORGANIC ANALYSIS DATA SHEET

Lab Name: PACE NE-NH, INC.

Matrix (soil/water): WATER Lab Sample ID: 45417-015S

% Solids: 100.0 Field ID: CLJ78-WT-005

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Concentration	C	Instr D.L.	M	QC Batch	Prep. Date	Analysis Date	Analysis Time
Aluminum	538000.00		154.00	P	12451	09/22/95	09/25/95	21:52
Antimony	248.00		23.80	P	12451	09/22/95	09/26/95	20:20
Arsenic	1890.00		7.80	P	12451	09/22/95	09/26/95	15:21
Barium	9360.00		1.60	P	12451	09/22/95	09/26/95	20:20
Beryllium	52.10		0.40	P	12451	09/22/95	09/26/95	20:20
Cadmium	302.00		2.80	P	12451	09/22/95	09/26/95	20:20
Calcium	576000.00		73.00	P	12451	09/22/95	09/25/95	21:52
Chromium	5300.00		4.00	P	12451	09/22/95	09/26/95	20:20
Cobalt	525.00		4.80	P	12451	09/22/95	09/26/95	20:20
Copper	9050.00		11.20	P	12451	09/22/95	09/26/95	20:20
Iron	669000.00		110.00	P	12451	09/22/95	09/25/95	21:52
Lead	9130.00		30.80	P	12451	09/22/95	09/26/95	20:20
Magnesium	688000.00		228.00	P	12451	09/22/95	09/25/95	21:52
Manganese	2760.00		1.00	P	12451	09/22/95	09/26/95	20:20
Nickel	3050.00		11.00	P	12451	09/22/95	09/26/95	20:20
Potassium	144000.00		5000.0	P	12451	09/22/95	09/25/95	21:52
Selenium	1520.00		10.50	P	12451	09/22/95	09/26/95	15:21
Silver	827.00		3.80	P	12451	09/22/95	09/26/95	20:20
Sodium	137000.00		150.00	P	12451	09/22/95	09/25/95	21:52
Thallium	1590.00		11.10	P	12451	09/22/95	09/26/95	15:21
Vanadium	1220.00		5.00	P	12451	09/22/95	09/26/95	20:20
Zinc	55200.00		58.00	P	12451	09/22/95	09/25/95	21:52

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INORGANIC ANALYSIS DATA SHEET

Lab Name: PACE NE-NH, INC.

Matrix (soil/water): WATER — Lab Sample ID: 45417-015D

% Solids: 100.0 — Field ID: CLJ78-WT-005

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Concentration	C	Instr D.L.	M	QC Batch	Prep. Date	Analysis Date	Analysis Time
Aluminum	519000.00		154.00	P	12451	09/22/95	09/25/95	21:46
Antimony	102.00	B	23.80	P	12451	09/22/95	09/26/95	20:15
Arsenic	249.00		7.80	P	12451	09/22/95	09/26/95	15:16
Barium	7140.00		1.60	P	12451	09/22/95	09/26/95	20:15
Beryllium	7.30	B	0.40	P	12451	09/22/95	09/26/95	20:15
Cadmium	260.00		2.80	P	12451	09/22/95	09/26/95	20:15
Calcium	611000.00		73.00	P	12451	09/22/95	09/25/95	21:46
Chromium	5200.00		4.00	P	12451	09/22/95	09/26/95	20:15
Cobalt	88.70		4.80	P	12451	09/22/95	09/26/95	20:15
Copper	9210.00		11.20	P	12451	09/22/95	09/26/95	20:15
Iron	689000.00		110.00	P	12451	09/22/95	09/25/95	21:46
Lead	9170.00		30.80	P	12451	09/22/95	09/26/95	20:15
Magnesium	724000.00		228.00	P	12451	09/22/95	09/25/95	21:46
Manganese	2470.00		1.00	P	12451	09/22/95	09/26/95	20:15
Nickel	2860.00		11.00	P	12451	09/22/95	09/26/95	20:15
Potassium	147000.00		5000.0	P	12451	09/22/95	09/25/95	21:46
Selenium	43.40		10.50	P	12451	09/22/95	09/26/95	15:16
Silver	834.00		3.80	P	12451	09/22/95	09/26/95	20:15
Sodium	139000.00		150.00	P	12451	09/22/95	09/25/95	21:46
Thallium	11.10	U	11.10	P	12451	09/22/95	09/26/95	15:16
Vanadium	761.00		5.00	P	12451	09/22/95	09/26/95	20:15
Zinc	58600.00		58.00	P	12451	09/22/95	09/25/95	21:46

pace INCORPORATED THE ASSURANCE OF QUALITY

Field Identification: CLJ78-WT-001 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
pH (units)	7.18		45417-016	09/22/95	485	150.1/1
Releasable Sulfide (mg/Kg)	BDL	50	45417-016	09/22/95	303	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	45417-016	09/25/95	303	7.3.3.2/2
Flash Point (degrees F)	>150	50	45417-016	09/21/95	334	D93-80/4

Field Identification: CLJ78-WT-002 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
pH (units)	5.99		45417-017	09/22/95	485	150.1/1
Releasable Sulfide (mg/Kg)	BDL	50	45417-017	09/22/95	303	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	45417-017	09/25/95	303	7.3.3.2/2
Flash Point (degrees F)	>150	50	45417-017	09/21/95	334	D93-80/4

Field Identification: CLJ78-WT-003 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
pH (units)	5.89		45417-018	09/22/95	485	150.1/1
Releasable Sulfide (mg/Kg)	BDL	50	45417-018	09/22/95	303	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	45417-018	09/25/95	303	7.3.3.2/2
Flash Point (degrees F)	>150	50	45417-018	09/21/95	334	D93-80/4

Field Identification: CLJ78-WT-004 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
pH (units)	7.29		45417-019	09/22/95	485	150.1/1
Releasable Sulfide (mg/Kg)	BDL	50	45417-019	09/22/95	303	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	45417-019	09/25/95	303	7.3.3.2/2
Flash Point (degrees F)	>150	50	45417-019	09/21/95	334	D93-80/4

Results expressed on a weight as received basis.

pace INCORPORATED THE ASSURANCE OF QUALITY

Field Identification: CLJ78-WT-005 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
pH (units)	7.22		45417-020	09/22/95	485	150.1/1
Releasable Sulfide (mg/Kg)	BDL	50	45417-020	09/22/95	303	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	45417-020	09/25/95	303	7.3.3.2/2
Flash Point (degrees F)	>150	50	45417-020	09/21/95	334	D93-80/4

Results expressed on a weight as received basis.

References: 1) 40 CFR Part 136, Friday, October 26, 1984
2) EPA SW 846, 3rd Edition
4) ASTM

pace INCORPORATED
THE ASSURANCE OF QUALITY

WATER VOLATILES SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORPORATION Lab No.: 45417
Project: BLDG. 25 LIQUIDS

CLIENT SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
CLJ78-WT-001	99	106	100		0
CLJ78-WT-002	98	98	101		0
CLJ78-WT-003	97	95	99		0
CLJ78-WT-004	98	142*	105		1
CLJ78-WT-005	97	132	105		0
BG092795A1	98	94	97		0
BG092895A1	99	94	100		0
BG092995A1	98	92	98		0

		QC LIMITS
S1	(TOL) = Toluene-d8	86 - 114
S2	(BFB) = Bromofluorobenzene	72 - 132
S3	(DCE) = 1,2-Dichloroethane-d4	70 - 138

Column to be used to flag recovery values with an asterisk
* Values outside of designated QC limits
D Surrogates diluted out

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Laboratory number: BG092795A1
Sample Designation: LABORATORY BLANK
Date Analyzed: 09/27/95
Matrix: WATER

VOLATILE ORGANICS	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Chloromethane	BDL	10
Bromomethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5
Methylene chloride	2.2 J	10
Acetone	BDL	25
Carbon disulfide	BDL	5
1,1-Dichloroethene	BDL	5
Tetrahydrofuran	BDL	25
1,1-Dichloroethane	BDL	5
1,2-Dichloroethene (total)	BDL	5
Chloroform	BDL	5
Methyl ethyl ketone	BDL	25
1,2-Dichloroethane	BDL	5
1,1,1-Trichloroethane	BDL	5
Carbon Tetrachloride	BDL	5
Vinyl acetate	BDL	10
Bromodichloromethane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Trichloroethene	BDL	5
Benzene	BDL	5
Dibromochloromethane	BDL	5
1,1,2-Trichloroethane	BDL	5
1,2-Dichloropropane	BDL	5
2-Chloroethyl vinyl ether	BDL	5
Bromoform	BDL	5
Methyl isobutyl ketone	BDL	25
2-Hexanone	BDL	25
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	5
Chlorobenzene	BDL	5
Ethylbenzene	BDL	5
m-Xylene	BDL	5
o,p-Xylene	BDL	5
Styrene	BDL	5

METHOD REFERENCE: EPA SW 846 3RD EDITION
METHOD 8240

BDL = Below detection limit
J = Probable presence below listed detection limit.

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MATRIX SPIKE RECOVERY
VOLATILE ORGANIC COMPOUNDS

Laboratory Number: LCG092795A1
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 09/27/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC-OVERY
1,1-DICHLOROETHENE	0	50	58	116
TRICHLOROETHYLENE	0	50	53	106
BENZENE	0	50	51	102
TOLUENE	0	50	52	104
CHLOROBENZENE	0	50	57	114

METHOD REFERENCE: EPA SW 846, 3RD EDITION
METHOD 8240

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Laboratory number: BG092895A1
Sample Designation: LABORATORY BLANK
Date Analyzed: 09/28/95
Matrix: WATER

VOLATILE ORGANICS	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Chloromethane	BDL	10
Bromomethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5
Methylene chloride	2.0 J	10
Acetone	BDL	25
Carbon disulfide	BDL	5
1,1-Dichloroethene	BDL	5
Tetrahydrofuran	BDL	25
1,1-Dichloroethane	BDL	5
1,2-Dichloroethene (total)	BDL	5
Chloroform	BDL	5
Methyl ethyl ketone	BDL	25
1,2-Dichloroethane	BDL	5
1,1,1-Trichloroethane	BDL	5
Carbon Tetrachloride	BDL	5
Vinyl acetate	BDL	10
Bromodichloromethane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Trichloroethene	BDL	5
Benzene	BDL	5
Dibromochloromethane	BDL	5
1,1,2-Trichloroethane	BDL	5
1,2-Dichloropropane	BDL	5
2-Chloroethyl vinyl ether	BDL	5
Bromoform	BDL	5
Methyl isobutyl ketone	BDL	25
2-Hexanone	BDL	25
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	5
Chlorobenzene	BDL	5
Ethylbenzene	BDL	5
m-Xylene	BDL	5
o,p-Xylene	BDL	5
Styrene	BDL	5

METHOD REFERENCE: EPA SW 846 3RD EDITION
METHOD 8240

BDL = Below detection limit
J = Probable presence below listed detection limit.

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Laboratory number: BG092995A1
Sample Designation: LABORATORY BLANK
Date Analyzed: 09/29/95
Matrix: WATER

VOLATILE ORGANICS	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Chloromethane	BDL	10
Bromomethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5
Methylene chloride	2.4 J	10
Acetone	BDL	25
Carbon disulfide	BDL	5
1,1-Dichloroethene	BDL	5
Tetrahydrofuran	BDL	25
1,1-Dichloroethane	BDL	5
1,2-Dichloroethene (total)	BDL	5
Chloroform	BDL	5
Methyl ethyl ketone	BDL	25
1,2-Dichloroethane	BDL	5
1,1,1-Trichloroethane	BDL	5
Carbon Tetrachloride	BDL	5
Vinyl acetate	BDL	10
Bromodichloromethane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Trichloroethene	BDL	5
Benzene	BDL	5
Dibromochloromethane	BDL	5
1,1,2-Trichloroethane	BDL	5
1,2-Dichloropropane	BDL	5
2-Chloroethyl vinyl ether	BDL	5
Bromoform	BDL	5
Methyl isobutyl ketone	BDL	25
2-Hexanone	BDL	25
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	5
Chlorobenzene	BDL	5
Ethylbenzene	BDL	5
m-Xylene	BDL	5
o,p-Xylene	BDL	5
Styrene	BDL	5

METHOD REFERENCE: EPA SW 846 3RD EDITION
METHOD 8240

BDL = Below detection limit
J = Probable presence below listed detection limit.

pace INCORPORATED
THE ASSURANCE OF QUALITY

WATER SEMIVOLATILES SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORPORATION Lab No.: 45417
Project: BLDG. 25 LIQUIDS

CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
CLJ78-WT-001	0D	0D	0D	0D	0D	0D		0
CLJ78-WT-002	0D	0D	0D	0D	0D	0D		0
CLJ78-WT-003RE	84	78	43	78	77	82		0
CLJ78-WT-003	0D	29*	24*	41	46	73		2
CLJ78-WT-004	0D	0D	0D	0D	0D	0D		0
CLJ78-WT-005	0D	0D	0D	0D	0D	0D		0
BA2460	75	81	83	35	49	78		0
BA2462	48	56	69	32	38	44		0
BA2469	82	87	59	88	73	80		0

		QC LIMITS
S1	(NBZ) = Nitrobenzene-d5	35 - 114
S2	(FBP) = 2-Fluorobiphenyl	43 - 116
S3	(TPH) = Terphenyl-d14	33 - 141
S4	(PHL) = Phenol-d5	10 - 110
S5	(2FP) = 2-Fluorophenol	21 - 110
S6	(TBP) = 2,4,6-Tribromophenol	10 - 123

Column to be used to flag recovery values with an asterisk
* Values outside of designated QC limits
D Surrogates diluted out

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Laboratory number: BA2460
Sample Designation: LAB BLANK
Date Extracted: 09/25/95
Date Analyzed: 09/26/95
Matrix: WATER

Instrument File Name: >H9222

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)	ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
N-Nitrosodimethylamine	BDL	10	3-Nitroaniline	BDL	50
Phenol	BDL	10	Acenaphthene	BDL	10
Aniline	BDL	10	2,4-Dinitrophenol	BDL	50
Bis(2-chloroethyl)ether	BDL	10	4-Nitrophenol	BDL	50
2-Chlorophenol	BDL	10	Dibenzofuran	BDL	10
1,3-Dichlorobenzene	BDL	10	2,4-Dinitrotoluene	BDL	10
1,4-Dichlorobenzene	BDL	10	Diethylphthalate	BDL	10
Benzylalcohol	BDL	10	4-Chlorophenyl-phenylether	BDL	10
1,2-Dichlorobenzene	BDL	10	Fluorene	BDL	10
2-Methylphenol	BDL	10	4-Nitroaniline	BDL	50
Bis(2-chloroisopropyl)ether	BDL	10	4,6-Dinitro-2-methylphenol	BDL	50
4-Methylphenol	BDL	10	N-Nitrosodiphenylamine	BDL	10
N-Nitroso-di-N-propylamine	BDL	10	Azobenzene	BDL	10
Hexachloroethane	BDL	10	4-Bromophenyl-phenylether	BDL	10
Nitrobenzene	BDL	10	Hexachlorobenzene	BDL	10
Isophorone	BDL	10	Pentachlorophenol	BDL	10
2-Nitrophenol	BDL	10	Phenanthrene	BDL	10
2,4-Dimethylphenol	BDL	10	Anthracene	BDL	10
Benzoic acid	BDL	50	Di-N-butylphthalate	BDL	10
Bis(2-chloroethoxy)methane	BDL	10	Fluoranthene	BDL	10
2,4-Dichlorophenol	BDL	10	Benzidine	BDL	50
1,2,4-Trichlorobenzene	BDL	10	Pyrene	BDL	10
Naphthalene	BDL	10	Butylbenzylphthalate	BDL	10
4-Chloroaniline	BDL	10	3,3'-Dichlorobenzidine	BDL	20
Hexachlorobutadiene	BDL	10	Benzo(A)anthracene	BDL	10
4-Chloro-3-methylphenol	BDL	10	Chrysene	BDL	10
2-Methylnaphthalene	BDL	10	Bis(2-ethylhexyl)phthalate	BDL	10
Hexachlorocyclopentadiene	BDL	10	Di-N-octylphthalate	BDL	10
2,4,6-Trichlorophenol	BDL	10	Benzo(B)fluoranthene	BDL	10
2,4,5-Trichlorophenol	BDL	50	Benzo(K)fluoranthene	BDL	10
2-Chloronaphthalene	BDL	10	Benzo(A)pyrene	BDL	10
2-Nitroaniline	BDL	50	Indeno(1,2,3,-CD)pyrene	BDL	10
Dimethylphthalate	BDL	10	Dibenz(A,H)anthracene	BDL	10
Acenaphthylene	BDL	10	Benzo(G,H,I)perylene	BDL	10
2,6-Dinitrotoluene	BDL	10			

METHOD REFERENCE: 40 CFR PART 136, FRIDAY , OCTOBER 26, 1984
METHOD 625(MODIFIED)

BDL = Below reporting limit
J = Probable presence below listed detection limit.

pace INCORPORATED
THE ASSURANCE OF QUALITY

MATRIX SPIKE DUPLICATE RECOVERY
ACID/BASE/NEUTRAL EXTRACTABLE ORGANIC COMPOUNDS

Laboratory Number: LSA2460
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 09/26/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC-OVERY
PHENOL	0	200	64	32
2-CHLOROPHENOL	0	200	133	66
1,4-DICHLOROBENZENE	0	100	67	67
N-NITROSO-DI-N-PROPYLAMINE	0	100	73	73
1,2,4-TRICHLOROBENZENE	0	100	70	70
4-CHLORO-3-METHYLPHENOL	0	200	139	69
ACENAPHTHENE	0	100	71	71
4-NITROPHENOL	0	200	65	32
2,4-DINITROTOLUENE	0	100	68	68
PENTACHLOROPHENOL	0	200	117	58
PYRENE	0	100	71	71

METHOD REFERENCE: 40 CFR PART 136, FRIDAY, OCTOBER 26, 1984
METHOD 625

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Laboratory number: BA2462
Sample Designation: LAB BLANK
Date Extracted: 09/27/95
Date Analyzed: 09/27/95
Matrix: WATER

Instrument File Name: >H9232

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)	ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
N-Nitrosodimethylamine	BDL	10	3-Nitroaniline	BDL	50
Phenol	BDL	10	Acenaphthene	BDL	10
Aniline	BDL	10	2,4-Dinitrophenol	BDL	50
Bis(2-chloroethyl)ether	BDL	10	4-Nitrophenol	BDL	50
2-Chlorophenol	BDL	10	Dibenzofuran	BDL	10
1,3-Dichlorobenzene	BDL	10	2,4-Dinitrotoluene	BDL	10
1,4-Dichlorobenzene	BDL	10	Diethylphthalate	BDL	10
Benzylalcohol	BDL	10	4-Chlorophenyl-phenylether	BDL	10
1,2-Dichlorobenzene	BDL	10	Fluorene	BDL	10
2-Methylphenol	BDL	10	4-Nitroaniline	BDL	50
Bis(2-chloroisopropyl)ether	BDL	10	4,6-Dinitro-2-methylphenol	BDL	50
4-Methylphenol	BDL	10	N-Nitrosodiphenylamine	BDL	10
N-Nitroso-di-N-propylamine	BDL	10	Azobenzene	BDL	10
Hexachloroethane	BDL	10	4-Bromophenyl-phenylether	BDL	10
Nitrobenzene	BDL	10	Hexachlorobenzene	BDL	10
Isophorone	BDL	10	Pentachlorophenol	BDL	10
2-Nitrophenol	BDL	10	Phenanthrene	BDL	10
2,4-Dimethylphenol	BDL	10	Anthracene	BDL	10
Benzoic acid	BDL	50	Di-N-butylphthalate	BDL	10
Bis(2-chloroethoxy)methane	BDL	10	Fluoranthene	BDL	10
2,4-Dichlorophenol	BDL	10	Benzidine	BDL	50
1,2,4-Trichlorobenzene	BDL	10	Pyrene	BDL	10
Naphthalene	BDL	10	Butylbenzylphthalate	BDL	10
4-Chloroaniline	BDL	10	3,3'-Dichlorobenzidine	BDL	20
Hexachlorobutadiene	BDL	10	Benzo(A)anthracene	BDL	10
4-Chloro-3-methylphenol	BDL	10	Chrysene	BDL	10
2-Methylnaphthalene	BDL	10	Bis(2-ethylhexyl)phthalate	BDL	10
Hexachlorocyclopentadiene	BDL	10	Di-N-octylphthalate	BDL	10
2,4,6-Trichlorophenol	BDL	10	Benzo(B)fluoranthene	BDL	10
2,4,5-Trichlorophenol	BDL	50	Benzo(K)fluoranthene	BDL	10
2-Chloronaphthalene	BDL	10	Benzo(A)pyrene	BDL	10
2-Nitroaniline	BDL	50	Indeno(1,2,3,-CD)pyrene	BDL	10
Dimethylphthalate	BDL	10	Dibenz(A,H)anthracene	BDL	10
Acenaphthylene	BDL	10	Benzo(G,H,I)perylene	BDL	10
2,6-Dinitrotoluene	BDL	10			

METHOD REFERENCE: 40 CFR PART 136, FRIDAY , OCTOBER 26, 1984
METHOD 625(MODIFIED)

BDL = Below reporting limit
J = Probable presence below listed detection limit.

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THE ASSURANCE OF QUALITY

MATRIX SPIKE DUPLICATE RECOVERY
ACID/BASE/NEUTRAL EXTRACTABLE ORGANIC COMPOUNDS

Laboratory Number: LSA2462
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 09/27/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC-OVERY
PHENOL	0	200	59	29
2-CHLOROPHENOL	0	200	99	50
1,4-DICHLOROBENZENE	0	100	51	51
N-NITROSO-DI-N-PROPYLAMINE	0	100	54	54
1,2,4-TRICHLOROBENZENE	0	100	55	55
4-CHLORO-3-METHYLPHENOL	0	200	115	58
ACENAPHTHENE	0	100	57	57
4-NITROPHENOL	0	200	51	25
2,4-DINITROTOLUENE	0	100	51	51
PENTACHLOROPHENOL	0	200	84	42
PYRENE	0	100	60	60

METHOD REFERENCE: 40 CFR PART 136, FRIDAY, OCTOBER 26, 1984
METHOD 625

pace INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: BA2469
Sample Designation: LAB BLANK
Date Extracted: 10/02/95
Date Analyzed: 10/04/95
Matrix: WATER

Instrument File Name: >F2689

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
N-Nitrosodimethylamine	BDL	10
Phenol	BDL	10
Aniline	BDL	10
Bis(2-chloroethyl)ether	BDL	10
2-Chlorophenol	BDL	10
1,3-Dichlorobenzene	BDL	10
1,4-Dichlorobenzene	BDL	10
Benzylalcohol	BDL	10
1,2-Dichlorobenzene	BDL	10
2-Methylphenol	BDL	10
Bis(2-chloroisopropyl)ether	BDL	10
4-Methylphenol	BDL	10
N-Nitroso-di-N-propylamine	BDL	10
Hexachloroethane	BDL	10
Nitrobenzene	BDL	10
Isophorone	BDL	10
2-Nitrophenol	BDL	10
2,4-Dimethylphenol	BDL	10
Benzoic acid	BDL	50
Bis(2-chloroethoxy)methane	BDL	10
2,4-Dichlorophenol	BDL	10
1,2,4-Trichlorobenzene	BDL	10
Naphthalene	BDL	10
4-Chloroaniline	BDL	10
Hexachlorobutadiene	BDL	10
4-Chloro-3-methylphenol	BDL	10
2-Methylnaphthalene	BDL	10
Hexachlorocyclopentadiene	BDL	10
2,4,6-Trichlorophenol	BDL	10
2,4,5-Trichlorophenol	BDL	50
2-Chloronaphthalene	BDL	10
2-Nitroaniline	BDL	50
Dimethylphthalate	BDL	10
Acenaphthylene	BDL	10
2,6-Dinitrotoluene	BDL	10

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
3-Nitroaniline	BDL	50
Acenaphthene	BDL	10
2,4-Dinitrophenol	BDL	50
4-Nitrophenol	BDL	50
Dibenzofuran	BDL	10
2,4-Dinitrotoluene	BDL	10
Diethylphthalate	BDL	10
4-Chlorophenyl-phenylether	BDL	10
Fluorene	BDL	10
4-Nitroaniline	BDL	50
4,6-Dinitro-2-methylphenol	BDL	50
N-Nitrosodiphenylamine	BDL	10
Azobenzene	BDL	10
4-Bromophenyl-phenylether	BDL	10
Hexachlorobenzene	BDL	10
Pentachlorophenol	BDL	10
Phenanthrene	BDL	10
Anthracene	BDL	10
Di-N-butylphthalate	BDL	10
Fluoranthene	BDL	10
Benzidine	BDL	50
Pyrene	BDL	10
Butylbenzylphthalate	BDL	10
3,3'-Dichlorobenzidine	BDL	20
Benzo(A)anthracene	BDL	10
Chrysene	BDL	10
Bis(2-ethylhexyl)phthalate	BDL	10
Di-N-octylphthalate	BDL	10
Benzo(B)fluoranthene	BDL	10
Benzo(K)fluoranthene	BDL	10
Benzo(A)pyrene	BDL	10
Indeno(1,2,3,-CD)pyrene	BDL	10
Dibenz(A,H)anthracene	BDL	10
Benzo(G,H,I)perylene	BDL	10

METHOD REFERENCE: 40 CFR PART 136, FRIDAY , OCTOBER 26, 1984
METHOD 625(MODIFIED)

BDL = Below reporting limit
J = Probable presence below listed detection limit.

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THE ASSURANCE OF QUALITY

MATRIX SPIKE DUPLICATE RECOVERY
ACID/BASE/NEUTRAL EXTRACTABLE ORGANIC COMPOUNDS

Laboratory Number: LSA2469
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 10/04/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC-OVERY
PHENOL	0	200	140	70
2-CHLOROPHENOL	0	200	151	76
1,4-DICHLOROBENZENE	0	100	78	78
N-NITROSO-DI-N-PROPYLAMINE	0	100	75	75
1,2,4-TRICHLOROBENZENE	0	100	82	82
4-CHLORO-3-METHYLPHENOL	0	200	156	78
ACENAPHTHENE	0	100	78	78
4-NITROPHENOL	0	200	147	74
2,4-DINITROTOLUENE	0	100	71	71
PENTACHLOROPHENOL	0	200	138	69
PYRENE	0	100	79	79

METHOD REFERENCE: 40 CFR PART 136, FRIDAY, OCTOBER 26, 1984
METHOD 625

pace INCORPORATED
THE ASSURANCE OF QUALITY

2E

WATER PESTICIDE SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORPORATION Lab No.: 45417
Project: BLDG. 25 LIQUIDS

CLIENT SAMPLE NO.	S1 (TCX) #	S2 (DCB) #	OTHER	TOT OUT
CLJ78-WT-001	0D	0D		0
CLJ78-WT-002	0D	0D		0
CLJ78-WT-003	0D	0D		0
CLJ78-WT-004	50	55		0
CLJ78-WT-005	65	55		0
BP4478	79	44		0

	QC LIMITS
S1 (TCX) = Tetrachloro-m-xylene	20 - 150
S2 (DCB) = Decachlorobiphenyl	20 - 150

Column to be used to flag recovery values with an asterisk
* Values outside of designated QC limits
D Surrogates diluted out

Laboratory number: BP4478
Sample Designation: LAB BLANK
Date Extracted: 09/22/95
Date Analyzed: 09/27/95
Matrix: WATER

PESTICIDES/PCB'S	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
Aldrin	BDL	0.05
alpha-BHC	BDL	0.05
beta-BHC	BDL	0.05
gamma-BHC (Lindane)	BDL	0.05
delta-BHC	BDL	0.05
alpha-Chlordane	BDL	0.05
gamma-Chlordane	BDL	0.05
4,4'-DDT	BDL	0.1
4,4'-DDE	BDL	0.05
4,4'-DDD	BDL	0.1
Dieldrin	BDL	0.05
Endosulfan I	BDL	0.05
Endosulfan II	BDL	0.1
Endosulfan sulfate	BDL	0.1
Endrin	BDL	0.05
Endrin aldehyde	BDL	0.1
Heptachlor	BDL	0.05
Heptachlor Epoxide	BDL	0.05
PCB-1242 (Arochlor 1242)	BDL	0.5
PCB-1254 (Arochlor 1254)	BDL	0.5
PCB-1221 (Arochlor 1221)	BDL	0.5
PCB-1232 (Arochlor 1232)	BDL	0.5
PCB-1248 (Arochlor 1248)	BDL	0.5
PCB-1260 (Arochlor 1260)	BDL	0.5
PCB-1016 (Arochlor 1016)	BDL	0.5
Toxaphene	BDL	2
Endrin Ketone	BDL	0.1
Methoxychlor	BDL	0.5

METHOD REFERENCE: 40 CFR PART 136, FRIDAY, OCTOBER 26, 1984
METHOD 608

BDL = Below reporting limit

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PESTICIDES/PCB'S

Laboratory Number: LS-P4478
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 09/27/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC-OVERY
ALPHA-BHC	0	0.250	0.223	89
GAMMA-BHC	0	0.250	0.226	90
BETA-BHC	0	0.250	0.234	94
HEPTACHLOR	0	0.250	0.228	91
DELTA-BHC	0	0.250	0.245	98
ALDRIN	0	0.250	0.210	84
HEPTACHLOR EPOXIDE	0	0.250	0.229	92
4,4'-DDE	0	0.250	0.221	88
DIELDRIN	0	0.250	0.215	86
ENDRIN	0	0.250	0.229	92
4,4'-DDD	0	0.250	0.213	85
ENDOSULFAN II	0	0.250	0.143	57
4,4'-DDT	0	0.250	0.237	95
ENDRIN ALDEHYDE	0	0.250	0.195	78
ENDOSULFAN SULFATE	0	0.250	0.237	95
METHOXYCHLOR	0	2.500	2.361	94
ENDOSULFAN I	0	0.250	0.117	47

METHOD REFERENCE: 40 CFR PART 136, FRIDAY, OCTOBER 26, 1984
METHOD 608

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PACE New England, Inc.

Metals QC Results for : 45417

QC BATCH: 12451
MATRIX: WATER
CONCENTRATION UNITS: UG/L

ELEMENT	LCS TRUE VALUE	LCS RESULT	LCS % RECOVERY		METHOD BLANK
Aluminum	2000.00	1990.00	99.5	B	49.0
Antimony	500.00	488.00	97.6	U	11.9
Arsenic	2000.00	1850.00	92.5	U	22.4
Arsenic -	2000.00	1920.00	96.0	U	2.6
Barium	2000.00	2010.00	100.5	U	0.8
Beryllium	50.00	49.40	98.8	U	0.2
Boron	1000.00	1010.00	101.0	U	34.6
Cadmium	50.00	51.20	102.4	U	1.4
Calcium	10000.00	10400.00	104.0	U	7.3
Chromium	200.00	206.00	103.0	B	4.8
Cobalt	500.00	511.00	102.2	U	2.4
Copper	250.00	251.00	100.4	U	5.6
Iron	1000.00	1020.00	102.0	B	26.1
Lead	500.00	448.00	89.6	U	15.4
Lead -	500.00	497.00	99.4	U	1.0
Magnesium	10000.00	10100.00	101.0	B	37.4
Manganese	500.00	497.00	99.4	U	0.5
Molybdenum	1000.00	1010.00	101.0	U	1.5
Nickel	500.00	517.00	103.4	U	5.5
Potassium	10000.00	10000.00	100.0	U	500.0
Selenium	2000.00	1840.00	92.0	U	25.3
Selenium -	2000.00	1900.00	95.0	U	3.5
Silver	50.00	49.90	99.8	B	3.4
Sodium	10000.00	10200.00	102.0	B	59.2
Thallium	2000.00	1800.00	90.0	U	21.7
Thallium -	2000.00	1910.00	95.5	U	3.7
Tin	1000.00	935.00	93.5	U	5.3
Titanium	1000.00	975.00	97.5	U	0.2
Vanadium	500.00	494.00	98.8	B	4.1
Zinc	500.00	471.00	94.2	U	5.8

B = Result between instrument detection limit and reporting limit.
U = Result below instrument detection limit.
N = LCS recovery not within advisory QC limits (80% - 120%)
with the exception of Silver QC limits (52% - 136%).

PACE New England, Inc.

Metals QC Results for : 45417

QC BATCH: 61658
MATRIX: WATER
CONCENTRATION UNITS: UG/L

ELEMENT	LCS TRUE VALUE	LCS RESULT	LCS % RECOVERY	METHOD BLANK
Mercury	4.00	4.30	107.5	U 0.10

B = Result between instrument detection limit and reporting limit.
U = Result below instrument detection limit.
N = LCS recovery not within advisory QC limits (80% - 120%)
with the exception of Silver QC limits (52% - 136%).

METALS SAMPLE QC RESULTS

SAMPLE NUMBER: 45417-015
MATRIX: WATER
CONCENTRATION UNITS: ug/L

ELEMENT	QC REPLICATE ANALYSIS			SPIKE RESULT	SPIKE VALUE	PERCENT RECOVERY
	SAMPLE RESULT	DUPLICATE RESULT	RPD			
Aluminum	470000.0	519000.0	9.9	538000.0	2000.0	3400.0
Antimony	128.0	B 102.0	22.6	248.0	500.0	N 24.0
Arsenic -	234.0	249.0	6.2	1890.0	2000.0	82.8
Barium	7210.0	7140.0	1.0	9360.0	2000.0	107.5
Beryllium	B 6.3	B 7.3	14.7	52.1	50.0	91.6
Cadmium	236.0	260.0	9.7	302.0	50.0	132.0
Calcium	547000.0	611000.0	11.1	576000.0	10000.0	290.0
Chromium	6470.0	5200.0	* 21.8	5300.0	200.0	-585.0
Cobalt	136.0	88.7	42.1	525.0	500.0	77.8
Copper	8280.0	9210.0	10.6	9050.0	250.0	308.0
Iron	627000.0	689000.0	9.4	669000.0	1000.0	4200.0
Lead	8260.0	9170.0	10.4	9130.0	500.0	174.0
Magnesium	652000.0	724000.0	10.5	688000.0	10000.0	360.0
Manganese	2470.0	2470.0	0.0	2760.0	500.0	58.0
Nickel	5200.0	2860.0	* 58.1	3050.0	500.0	-430.0
Potassium	129000.0	147000.0	13.0	144000.0	10000.0	150.0
Selenium -	47.6	43.4	9.2	1520.0	2000.0	N 73.6
Silver	738.0	834.0	12.2	827.0	50.0	178.0
Sodium	123000.0	139000.0	12.2	137000.0	10000.0	140.0
Thallium -	U 11.1	U 11.1	N/C	1590.0	2000.0	79.5
Vanadium	687.0	761.0	10.2	1220.0	500.0	106.6
Zinc	52900.0	58600.0	10.2	55200.0	500.0	460.0

B = Result between instrument detection limit and reporting limit.
U = Result below instrument detection limit.
N = Spike recovery not within advisory limits
(75-125%, if sample < 4x spike value).
* = Relative Percent Difference not within advisory limits
(20%, if sample > 5x reporting limit).
N/C = Not Calculable. Sample and duplicate below instrument detection limit.

QUALITY CONTROL
pH
Method: 150.1 EPA-600/4-84-017

QC Batch: 485 For: 45417
Matrix: WATER

LABORATORY CONTROL SAMPLES:

	True Value Units	Observed Value Units
LCS1	7.0	7.01

FIELD SAMPLE:

Precision

Lab No.	Replicate 1 Units	Replicate 2 Units
45435-1	6.99	7.07

pace INCORPORATED THE ASSURANCE OF QUALITY

PACE INC. NE-NH LAB
QUALITY CONTROL
Releasable Sulfide
Method: 7.3.4.2 EPA SW846, 3rd Edition

QC Batch: 303 For: 45417
Matrix: SOLID

METHOD BLANK:

	Result ug/g
	< 50.00

LABORATORY CONTROL SAMPLES:

	True Value ug/g	Observed Value ug/g	Accuracy Recovery %
LCS1	1346.3	1289.4	95.8

FIELD SAMPLE:

Precision

Lab No.	Replicate 1 ug/g	Replicate 2 ug/g	Average ug/g	Relative Percent Difference %
45417-16	< 50.00	< 50.00	NC	NC

QUALITY CONTROL QUALIFIER STATEMENT
The sample results used to generate quality control information for solid samples are uncorrected for dry weight. This does not affect the results reported for percent of spike recovery and relative percent difference.

PACE INC. NE-NH LAB
QUALITY CONTROL
Releasable Cyanide
Method: 7.3.3.2 SW846, 3rd Edition

QC Batch: 303 For: 45417
Matrix: SOIL

METHOD BLANK:

	Result ug/g
	< 1.00

LABORATORY CONTROL SAMPLES:

	True Value ug/g	Observed Value ug/g	Accuracy Recovery %
LCS1	40.0	2.800	7.0

FIELD SAMPLE:

Precision

Lab No.	Replicate 1 ug/g	Replicate 2 ug/g	Average ug/g	Relative Percent Difference %
45417-16	< 1.00	< 1.00	NC	NC

QUALITY CONTROL QUALIFIER STATEMENT
The sample results used to generate quality control information for solid samples are uncorrected for dry weight. This does not affect the results reported for percent of spike recovery and relative percent difference.

NC = Not calculable due to result below detection limit.

pace INCORPORATED THE ASSURANCE OF QUALITY

QUALITY CONTROL
Flashpoint
Method: D93-80, ASTM

QC Batch: 334 For: 45417
Matrix: OIL

LABORATORY CONTROL SAMPLES:

	True Value DEG F	Observed Value DEG F
LCS1	82.0	82.00

FIELD SAMPLE:

Precision

Lab No.	Replicate 1 ug/g	Replicate 2 ug/g
45396-2	200.00	200.00

pace INCORPORATED
THE ASSURANCE OF QUALITY

PACE INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

September 27, 1995

Project Manager
New England Laboratory
PACE, Incorporated
PO BOX 2130
Hampton, NH 03843

RE: PACE Project Number: 606577
Client Project ID: OHM

Dear :

Enclosed are the results of analyses for sample(s) received on September 22, 1995. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

DeWayne McAllister
Project Manager

Enclosures

9608 Loiret Blvd.
Lenexa, KS 66219
TEL: 913-599-5665
FAX: 913-599-1759

PACE INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

New England Laboratory
PACE, Incorporated
PO BOX 2130
Hampton, NH 03843

PACE Project Number: 606577
Client Project ID: OHM

Attn: Project Manager
Phone: (603)926-7777

PACE Sample No: 60477858 Date Collected: 09/20/95
Client Sample ID: CLJ78-WT-001 45417-21 Date Received: 09/22/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
Wet Chemistry								
Karl Fischer Water								
KF Water	72.93	%	0.01	09/27/95	ASTM E203	GMF		

PACE Sample No: 60477866 Date Collected: 09/20/95
Client Sample ID: CLJ78-WT-002 45417-22 Date Received: 09/22/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
Wet Chemistry								
Karl Fischer Water								
KF Water	97.81	%	0.01	09/27/95	ASTM E203	GMF		

PACE Sample No: 60477874 Date Collected: 09/20/95
Client Sample ID: CLJ78-WT-003 45417-23 Date Received: 09/22/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
Wet Chemistry								
Karl Fischer Water								
KF Water	87.52	%	0.01	09/27/95	ASTM E203	GMF		

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Lenexa, KS 66219
TEL: 913-599-5665
FAX: 913-599-1759

REPORT OF LABORATORY ANALYSIS

New England Laboratory
PACE, Incorporated
PO BOX 2130
Hampton, NH 03843

Attn: Project Manager
Phone: (603)926-7777

PACE Project Number: 606577
Client Project ID: OHM

PACE Sample No: 60477882 Date Collected: 09/20/95
Client Sample ID: CLJ78-WT-004 45417-24 Date Received: 09/22/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
Wet Chemistry								
Karl Fischer Water								
KF Water	63.49	%	0.01	09/27/95	ASTM E203	GMF		

PACE Sample No: 60477890 Date Collected: 09/20/95
Client Sample ID: CLJ78-WT-005 45417-25 Date Received: 09/22/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
Wet Chemistry								
Karl Fischer Water								
KF Water	46.33	%	0.01	09/27/95	ASTM E203	GMF		

REPORT OF LABORATORY ANALYSIS

PACE Project Number: 606577
Client Project ID: OHM

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
PRL	PACE Reporting Limit

9608 Loiret Blvd.
Lenexa, KS 66219
TEL: 913-599-5665
FAX: 913-599-1759

REPORT OF LABORATORY ANALYSIS

PACE Project Number: 606577
Client Project ID: OHM

QUALITY CONTROL DATA PARAMETER FOOTNOTES

The Quality Control Sample Final Results listed above have been rounded to reflect an appropriate number of significant figures. Consistent with EPA guidelines unrounded concentrations have been used to calculate % Rec and RPD values.

ND	Not Detected
NC	Not Calculable
PRL	PACE Reporting Limit
RPD	Relative Percent Difference

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Lenexa, KS 66219
TEL: 913-599-5665
FAX: 913-599-1759

OHM Remediation Services Corp.

TRANSFER 2

Form 0019
Field Technical Services
Rev. 08/89

CHAIN-OF-CUSTODY RECORD

166686

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Camp Lejeune D.O. 78
PROJECT LOCATION: Camp Lejeune NC
PROJ. NO.: 17418
PROJECT CONTACT: Rakesh Mishra
PROJECT TELEPHONE NO.: 910-451-2549
CLIENT'S REPRESENTATIVE:
PROJECT MANAGER/SUPERVISOR: Jim Dunn

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): VOA, SVOA, Pest/PCB; TAL Metals, Spec CN; Reac S, Ignitability; Oil o/o Water, BTU; Total Halogen, Total TCLP

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	VOA, SVOA, Pest/PCB	TAL Metals, Spec CN	Reac S, Ignitability	Oil o/o Water, BTU	Total Halogen, Total TCLP				REMARKS 45417
1	CLJ78-WT-001	9/20			X	Liquid From Tank 1	12	X	X	X	X	X				45417-21 60 477858
2	CLJ78-WT-002	9/20			X	Liquid From Tank 2	12	X	X	X	X	X				45417-22 60 477866
3	CLJ78-WT-003	9/20			X	Liquid From Tank 3	12	X	X	X	X	X				45417-23 60 477874
4	CLJ78-WT-004	9/20			X	Liquid From Tank 4	12	X	X	X	X	X				45417-24 60 477882
5	CLJ78-WT-005	9/20			X	Liquid From Tank 5	12	X	X	X	X	X				45417-25 60 477890
6																
7																
8																
9																
10																

Final Page

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-5	[signature]		9/20	1500
2			[signature]	[illegible]	[illegible]
3	1-5, To Water only	Gretchen Frankheim	FedEx	9/21/95	1600
4		FedEx	[signature]	9/23	9:00

REMARKS: Send Samp to Paca Lab
TAT 7 day

SAMPLER'S SIGNATURE: [signature]

00000063

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

ANALYTICAL DIVISION

Laboratory Analysis

Report(s) #619565 VOLUME I OF I

Client: OHM Remediation Services Corp.
Southern Region (Norcross, GA)

Attn: Jim Dunn

Project: 17418N - Camp Lejeune, North Carolina

Sample(s) Received: January 19, 1996 Order Received: January 19, 1996

Reviewed and Approved by: Joseph A. Hnatow *Date:* February 29, 1996

Joseph A. Hnatow, Laboratory Manager

16406 U.S. Route 224 East ▪ P.O. Box 551 ▪ Findlay, OH 45839-0551 ▪ 419-423-3526

SUMMARY OF ANALYTICAL METHODOLOGY

Parameter	Reference	Method
Conventionals		
RCRA Characteristics		
Reactive Sulfide	SW-846	7.3.4.2
Flash Point, Seta Flash	SW-846	1020
Reactive Cyanide	SW-846	7.3.3.2
pH, Electrode (liquid)	SW-846	9040
Metals		
Total Metals	SW-846	6010
Mercury by Cold Vapor (liquid)	SW-846	7470
Organics		
Semi-volatile Compounds by GC/MS	CLP SOW	OLM03.1
Volatile Compounds by GC/MS	CLP SOW	OLM03.1
Pesticides and/or PCBs by GC	SW-846	8080

Narrative for SDG # CLJ78IW001

Laboratory: OHM Remediation Services Corp.
Analytical Division

Project #: 17418N

Project Location: Camp LeJeune Bld. 25, Camp LeJeune, NC

Samples in this Sample Delivery Group (SDG):

CLJ78IW001 CLJ78FB001 CLJ78TB001

CLP Forms and/or analytical requirements do not apply to all Level C type deliverable requirements. Every effort was made to conform to the CLP format and all applicable CLP/Level C forms have been included.

Volatile Organics by GC/MS

Zero of 27 surrogate recoveries were outside QC limits.

Two of 10 matrix spike recoveries and one of 5 matrix RPD's were outside QC limits.

Zero of 5 method spike recoveries were outside QC limits.

All target compounds were spiked for this analytical batch. Only the required CLP spiking compounds were reported on Form III.

All method blank criteria were met for this SDG.

Initial and continuing calibration criteria were met.

All internal standard criteria were met for this SDG.

All holding times were met for this SDG.

Semivolatile Organics by GC/MS

Zero of 18 surrogates were outside QC limits, 6 surrogates were diluted below detectable levels.

Matrix spike data is not available due to the insufficient sample volume supplied. QA/QC acceptance was based on blank (method) spike recoveries which were within QC limits.

Zero of 11 blank spike (method spike) recoveries were outside QC limits.

All method blank criteria were met for this SDG.

All compounds met initial and continuing calibration criteria.

All internal standard area counts and retention times were within QC limits.

All holding times were met for this SDG.

Pesticides/PCBs by GC

Multiple analytical runs were combined and reported on one CLP FORM I PEST data sheet. The chromatograms were arranged with all of the primary analysis presented first followed by the confirmation analytical runs.

Zero of 6 surrogates were outside QC limits, two surrogates were diluted below detectable levels.

Zero of 21 method spike recoveries were outside QC limits.

Matrix spike data is not available due to the insufficient sample volume supplied. QA/QC acceptance was based on blank (method) spike recoveries which were within QC limits.

All method blank criteria were met for this SDG.

All initial and continuing calibration criteria were met.

All holding times were met for this SDG.

Total Petroleum Hydrocarbons by IR

All method blank criteria were met for this SDG.

Matrix spike data is not available due to the insufficient sample volume supplied. QA/QC acceptance was based on the method spike recovery which was within QC limits.

Zero of 1 method spike recoveries was outside QC limits.

All initial and continuing calibration criteria were met for this SDG.

All sample holding times were met for this SDG.

Signature: Joseph A. Hnatow Name: Joseph A. Hnatow
Date: 2-29-96 Title: Laboratory Manager

ORGANICS

Volatile Organics by GC/MS

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLK01	96	104	82		0
02	VSPK01	97	104	84		0
03	CLJ78RB001	104	107	103		0
04	CLJ78IW001	104	107	103		0
05	CLJ78IW001MS	100	109	97		0
06	CLJ78IW001MSD	105	108	108		0
07	CLJ78TB001	98	106	103		0
08	TRIPBLANK	106	109	108		0
09	CLJ78FB001	106	107	105		0

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(88-110)
SMC2 (BFB) = Bromofluorobenzene	(86-115)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring compound diluted out

3A
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix Spike - EPA Sample No.: CLJ78IW001

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	130000	0	110000	85	61-145
Trichloroethene	130000	0	130000	100	71-120
Benzene	130000	0	170000	131 *	76-127
Toluene	130000	0	120000	92	76-125
Chlorobenzene	130000	0	120000	92	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	130000	140000	108	20 *	14	61-145
Trichloroethene	130000	120000	92	12	14	71-120
Benzene	130000	180000	138 *	2	11	76-127
Toluene	130000	130000	100	4	13	76-125
Chlorobenzene	130000	130000	100	4	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 5 outside limits
Spike Recovery: 2 out of 10 outside limits

COMMENTS: _____

3A
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix Spike - EPA Sample No.: VSPK01

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50	0	54	108	61-145
Trichloroethene	50	0	49	98	71-120
Benzene	50	0	53	106	76-127
Toluene	50	0	51	102	76-125
Chlorobenzene	50	0	51	102	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

4A
VOLATILE METHOD BLANK SUMMARY

0008 EPA SAMPLE NO.

VBLK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Lab File ID: A5813 Lab Sample ID: N1V4919V

Date Analyzed: 01/23/96 Time Analyzed: 08:17

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: SA

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	CLJ78RB001	JP2497V	A5816	10:02
02	CLJ78RB001	JP2497V	A5823	14:10
03	CLJ78IW001	JP2541V	A5818	11:14
04	CLJ78TB001	JP2543V	A5822	13:34
05	TRIPBLANK	JP2498V	A5824	14:44
06	CLJ78FB001	JP2542V	A5821	12:59
07	CLJ78IW001MSD	JP2541VR	A5820	12:24
08	VSPK01	N1V4919VS	A5814	08:52
09	CLJ78IW001MS	JP2541VS	A5819	11:49

COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: OHM Analytical Div Contract: NFESC

Lab Code: N/A Case No.: 17418 SAS No.: N/A SDG No.: CLJ78IW001

Lab File ID: A 5282 BFB Injection Date: 11/19/96

Instrument ID: MSA BFB Injection Time: 1155

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.10
75	30.0 - 66.0% of mass 95	54.44
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.20
173	Less than 2.0% of mass 174	0.17 (0.22)1
174	50.0 - 120.0% of mass 95	76.30
175	4.0 - 9.0 % of mass 174	6.13 (8.04)1
176	93.0 - 101.0% of mass 174	76.71 (100.54)1
177	5.0 - 9.0% of mass 176	4.83 (6.29)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	VSTB010	VSTB010	A5283	11/19/96	1312
02	VSTB020	VSTB020	A5284	"	1349
03	VSTB050	VSTB050	A5285	"	1424
04	VSTB100	VSTB100	A5286	"	1502
05	VSTB200	VSTB200	A5287	"	1539
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: OHM Analytical Div. Contract: NFESC

Lab Code: N/A Case No.: 17418 SAS No.: N/A SDG No.: CLJ78IW001

Lab File ID: A5810 BFB Injection Date: 1/23/96

Instrument ID: MSA BFB Injection Time: 0619

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	25.90
75	30.0 - 66.0% of mass 95	55.61
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.15
173	Less than 2.0% of mass 174	0.00 (0.00)1
174	50.0 - 120.0% of mass 95	76.90
175	4.0 - 9.0 % of mass 174	6.10 (7.93)1
176	93.0 - 101.0% of mass 174	77.43 (100.69)1
177	5.0 - 9.0% of mass 176	5.30 (6.85)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	VSTB050	VSTB050	A5811	1/23/96	0651	
02	VBLK01	N1V4919V	A5813		0817	
03	VSPIK01	N1U4919VS	A5814		0852	
04	~~CLJ78RB001~~	~~SP2499V~~	~~A5816~~		~~1002~~	RS
05	CLJ78IW001	SP2541V	A5818		1114	
06	CLJ78IW001MS	JP2541VS	A5819		1149	
07	CLJ78IW001MSD	JP2541VR	A5820		1224	
08	CLJ78FB001	JP2542V	A5821		1259	
09	CLJ78TB001	JP2543V	A5822		1339	
10	~~CLJ78RB001~~	~~JP2499V~~	~~A5823~~		1410	RS
11	~~TRIPBLANK~~	~~JP2498V~~	~~A5824~~		1444	KS
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

SA

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: OHM Analytical Div Contract: NFESC

Lab Code: N/A Case No.: 17418 SAS No.: N/A SDG No.: CLJ78IW001

Lab File ID (Standard): A5811 Date Analyzed: 1/23/96

Instrument ID: MSA Time Analyzed: 0651

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	298607	6.98	1223835	8.25	1127755	12.64
	UPPER LIMIT	597214	7.48	2447670	8.75	2255510	13.19
	LOWER LIMIT	149304	6.48	611918	7.75	563878	12.14
	EPA SAMPLE NO.						
01	VBLK01	288913	6.94	1214425	8.18	1178935	12.61
02	VSPK01	292930	6.95	1238537	8.21	1113713	12.63
03	CLJ78IW001MS	337377	7.01	1225126	8.29	1066826	12.65
04	CLJ78IW001MSD	282969	6.98	1194467	8.25	1076396	12.66
05	CLJ78IW001	282764	6.99	1203205	8.27	1068680	12.66
06	CLJ78FB001	318141	7.02	1174146	8.29	1043828	12.66
07	CLJ78TB001	259177	7.07	975386	8.33	892783	12.65
08	~~TRIPBLANK~~	~~268930~~	~~6.97~~	~~1136823~~	~~8.24~~	~~1023365~~	~~12.65~~
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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 used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

0012 EPA SAMPLE NO.

CLJ78IW001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: JP2541V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5818

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: not dec. Date Analyzed: 01/23/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 2500.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	13000	U
74-83-9	Bromomethane	13000	U
75-01-4	Vinyl Chloride	13000	U
75-00-3	Chloroethane	13000	U
75-09-2	Methylene Chloride	13000	U
67-64-1	Acetone	25000	U
75-15-0	Carbon Disulfide	13000	U
75-35-4	1,1-Dichloroethene	13000	U
75-34-3	1,1-Dichloroethane	13000	U
540-59-0	1,2-Dichloroethene (total)	17000	
67-66-3	Chloroform	13000	U
107-06-2	1,2-Dichloroethane	13000	U
78-93-3	2-Butanone	13000	U
71-55-6	1,1,1-Trichloroethane	13000	U
56-23-5	Carbon Tetrachloride	13000	U
75-27-4	Bromodichloromethane	13000	U
78-87-5	1,2-Dichloropropane	13000	U
10061-01-5	cis-1,3-Dichloropropene	13000	U
79-01-6	Trichloroethene	13000	U
124-48-1	Dibromochloromethane	13000	U
79-00-5	1,1,2-Trichloroethane	13000	U
71-43-2	Benzene	13000	U
10061-02-6	trans-1,3-Dichloropropene	13000	U
75-25-2	Bromoform	13000	U
108-10-1	Methyl-iso-butyl ketone	25000	U
591-78-6	2-Hexanone	13000	U
127-18-4	Tetrachloroethylene	49000	
79-34-5	1,1,2,2-Tetrachloroethane	13000	U
108-88-3	Toluene	13000	U
108-90-7	Chlorobenzene	13000	U
100-41-4	Ethylbenzene	13000	U
100-42-5	Styrene	13000	U
1330-20-7	Xylene (total)	13000	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0013 EPA SAMPLE NO.

CLJ78IW001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: JP2541V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5818

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: not dec. Date Analyzed: 01/23/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 2500.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

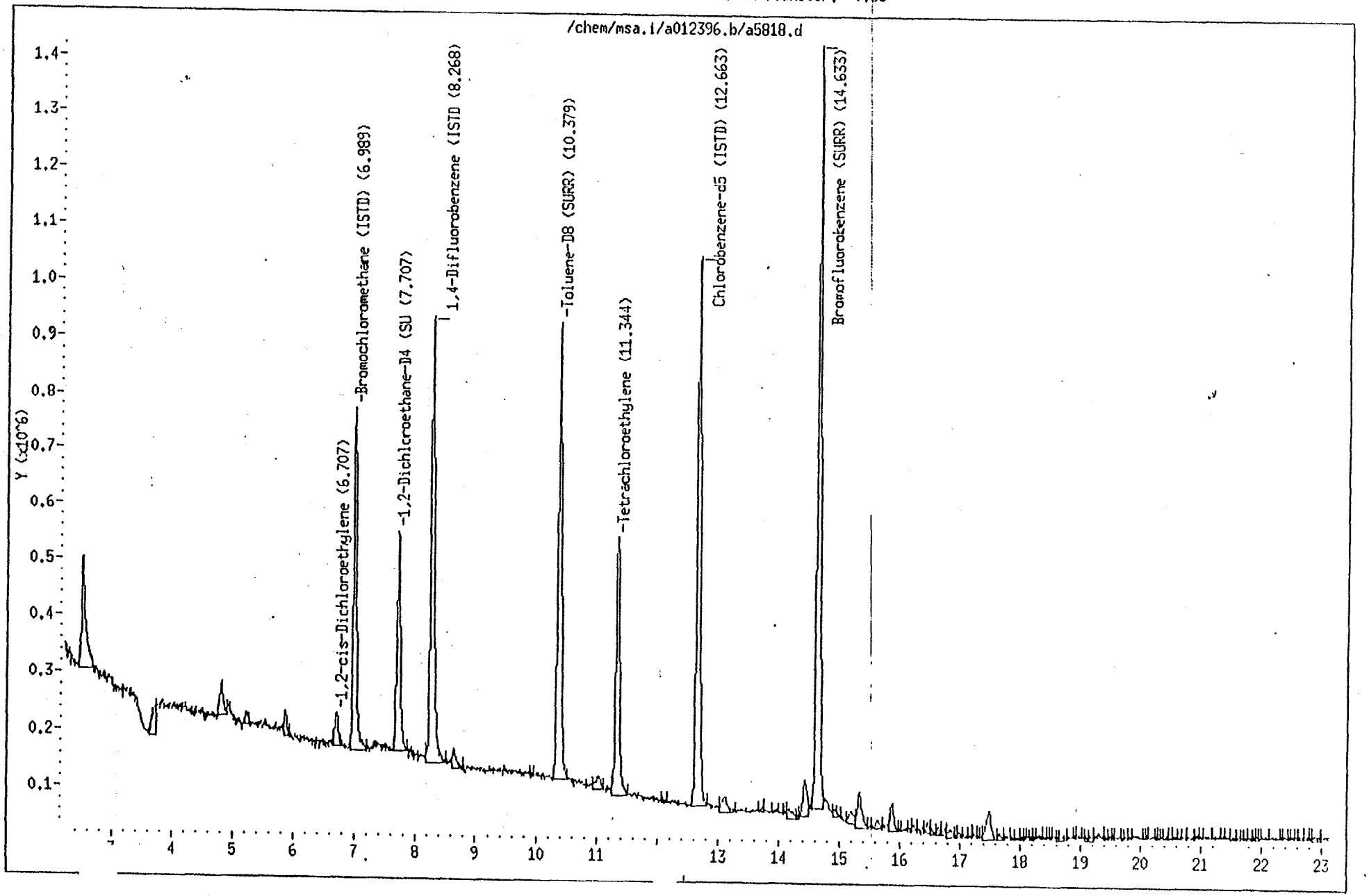
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0014

Data File: /chem/msa.i/a012396.b/a5818.d
Date : 23-JAN-96 11:14
Client ID: 17418n clj78iw001
Sample Info: 17418n clj78iw001 20ul/50ml = 2500x
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msa.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msa.i/a012396.b/a5818.d
Report Date: 24-Jan-1996 11:37

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 + Screen

Data file : /chem/msa.i/a012396.b/a5818.d
Lab Smp Id: Client Smp ID: 17418n clj78iw001
Inj Date : 23-JAN-96 11:14
Operator : jk Inst ID: msa.i
Smp Info : 17418n clj78iw001 20ul/50ml = 2500x
Misc Info : jp2541v,n1v4919,m2,5000,2500,5.0,5.0,960123,
Comment :
Method : /chem/msa.i/a012396.b/011996_ambia.m
Meth Date : 24-Jan-1996 11:22 glenn Quant Type: ISTD
Cal Date : 23-JAN-96 07:25 Cal File: a5812.d
Als bottle: 6
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 1/24/96 #5790

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	1,2-cis-Dichloroethylene	96.00	6.699	6.655	(0.959)	47309	6.93	6.93
*	22 Bromochloromethane (ISTD)	128.00	6.989	6.976	(1.000)	282764	50.0	
S	27 1,2-Dichloroethane-D4 (SURR)	65.00	7.707	7.696	(0.932)	563921	51.4	51.4
*	30 1,4-Difluorobenzene (ISTD)	114.00	8.268	8.249	(1.000)	1203205	50.0	
S	38 Toluene-D8 (SURR)	98.00	10.379	10.363	(0.820)	1170316	52.1	52.1
	42 Tetrachloroethylene	164.00	11.344	11.298	(0.896)	226482	19.6	19.6
*	47 Chlorobenzene-d5 (ISTD)	117.00	12.663	12.641	(1.000)	1068680	50.0	
S	56 Bromofluorobenzene (SURR)	95.00	14.633	14.622	(1.156)	939745	53.4	53.4

6.93

Data File: /chem/msa.i/a012396.b/a5818.d

Date : 23-JAN-96 11:14

Client ID: 17418n clj78iw001

Instrument: msa.i

Sample Info: 17418n clj78iw001 20ul/50ml = 2500x

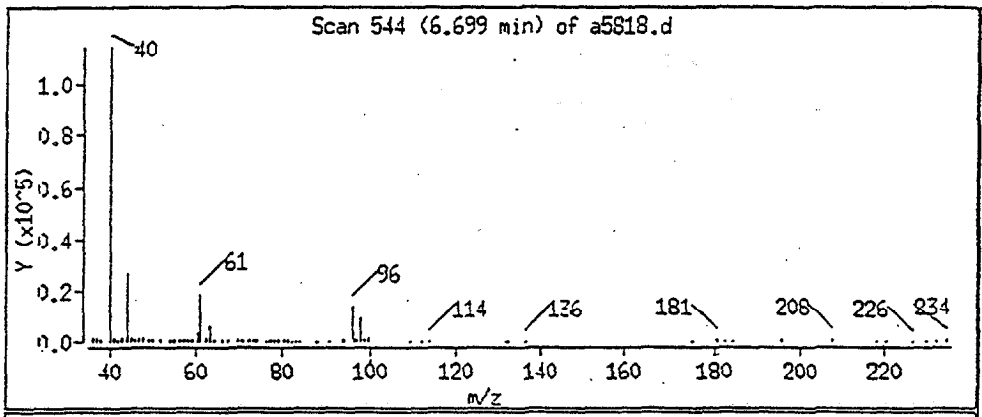
Purge Volume: 1.0

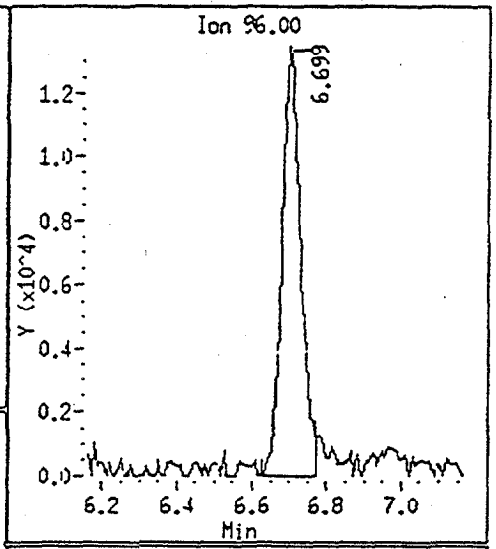
Operator: jk

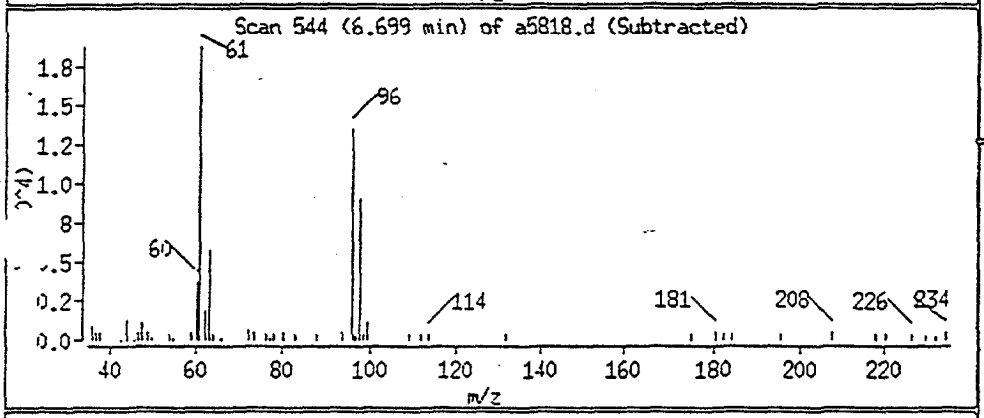
Column phase: J&W DB_624

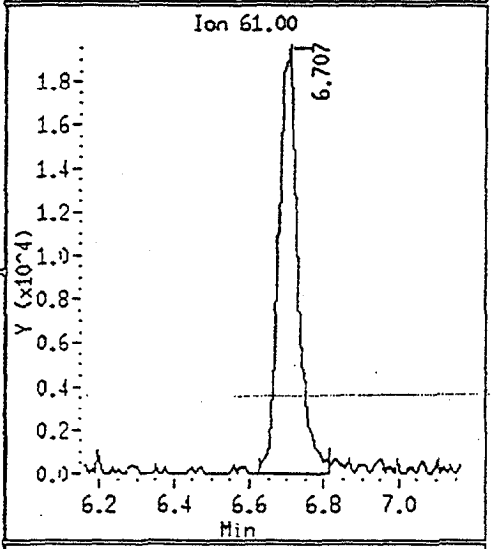
Column diameter: 0.53

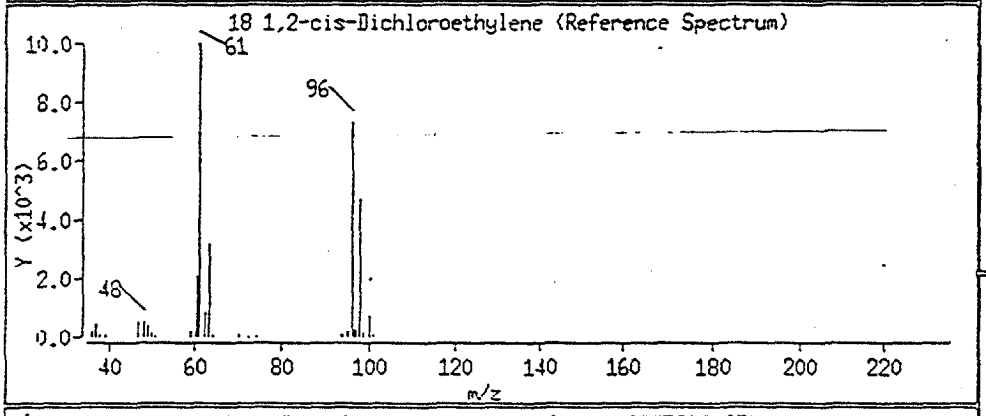
18 1,2-cis-Dichlorcethylene

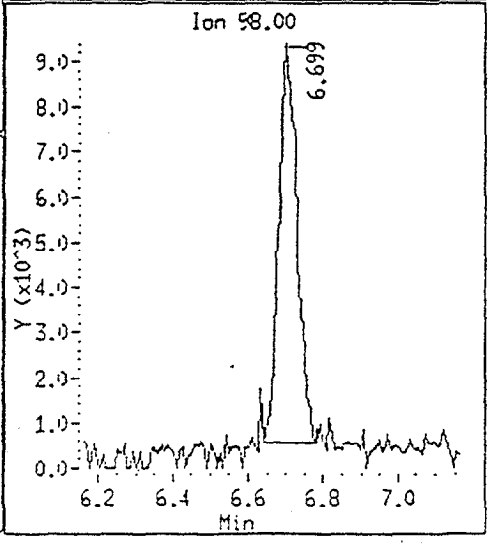


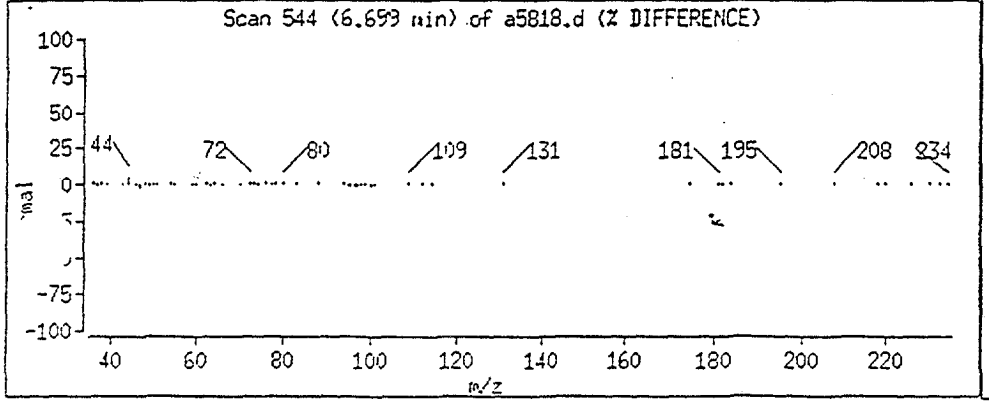












Data File: /chem/msa.i/a012396.b/a5818.d

Date : 23-JAN-96 11:14

Client ID: 17418n clj78iw001

Instrument: msa.i

Sample Info: 17418n clj78iw001 20ul/50ml = 2500x

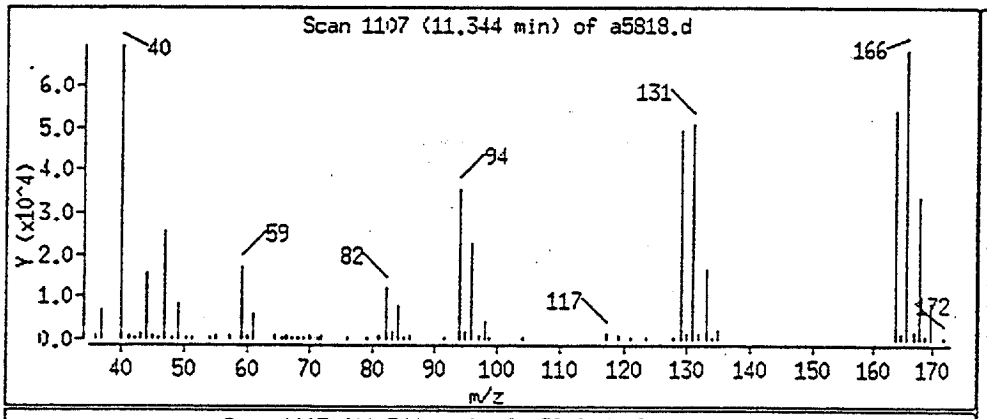
Purge Volume: 1.0

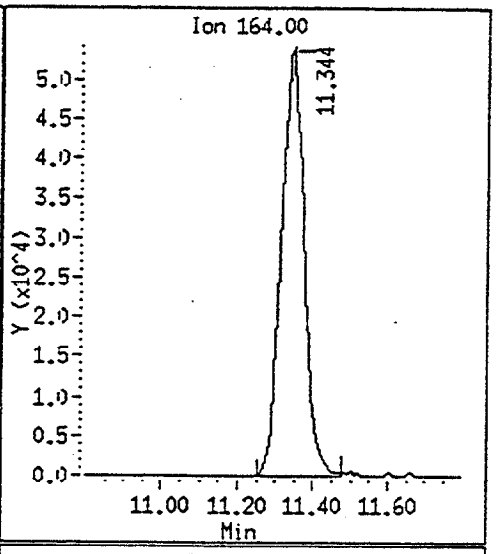
Operator: jk

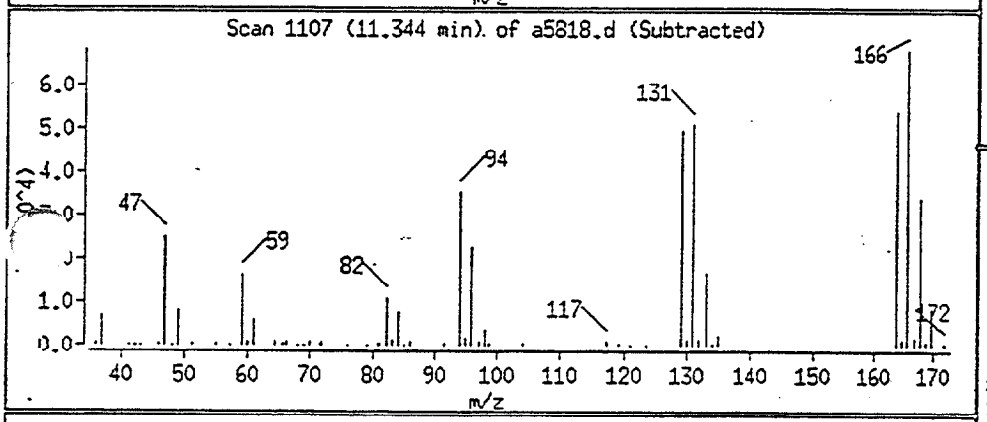
Column phase: J&W DB_624

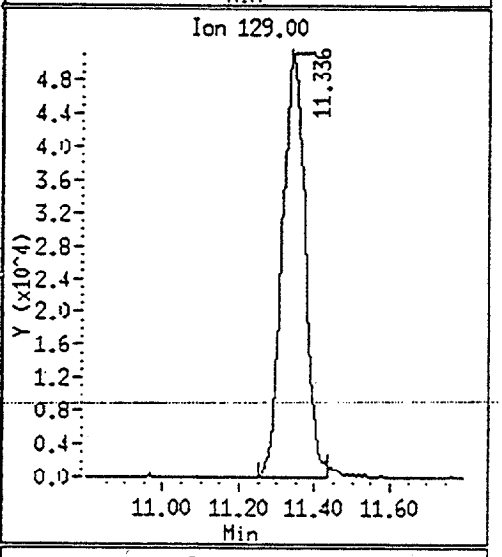
Column diameter: 0.53

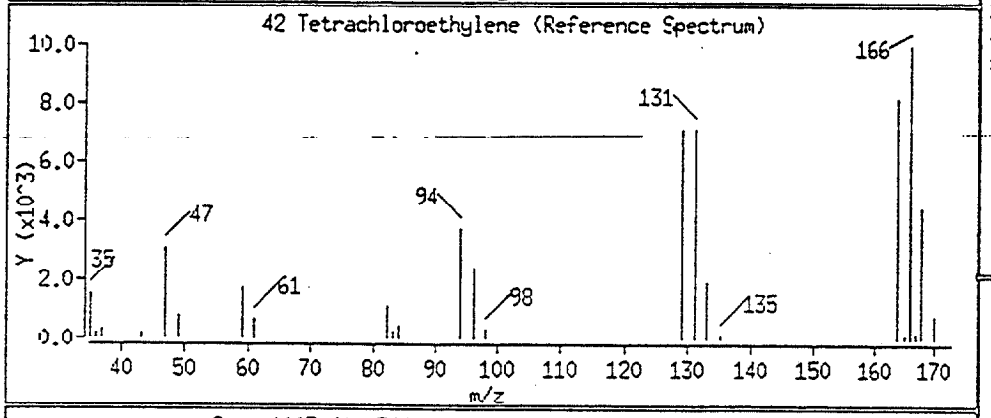
42 Tetrachloroethylene

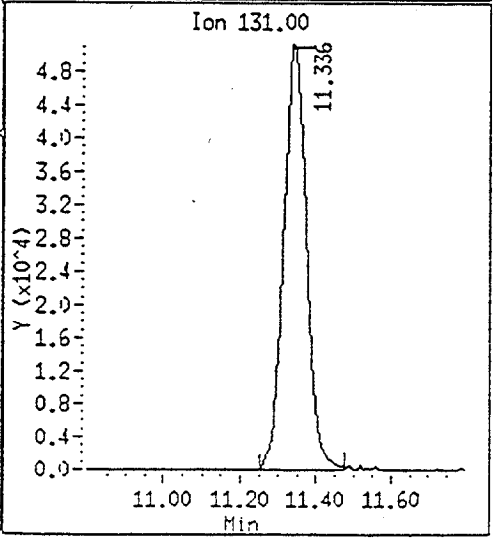


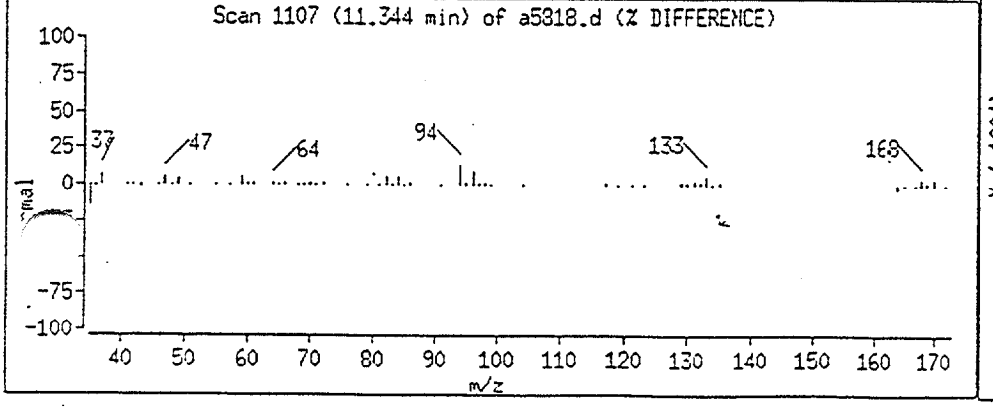












1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

0018 EPA SAMPLE NO.

CLJ78FB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: JP2542V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5821

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: not dec. _____ Date Analyzed: 01/23/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	Methyl-iso-butyl ketone	10	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethylene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0019 EPA SAMPLE NO.

CLJ78FB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: JP2542V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5821

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: not dec. Date Analyzed: 01/23/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 4

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

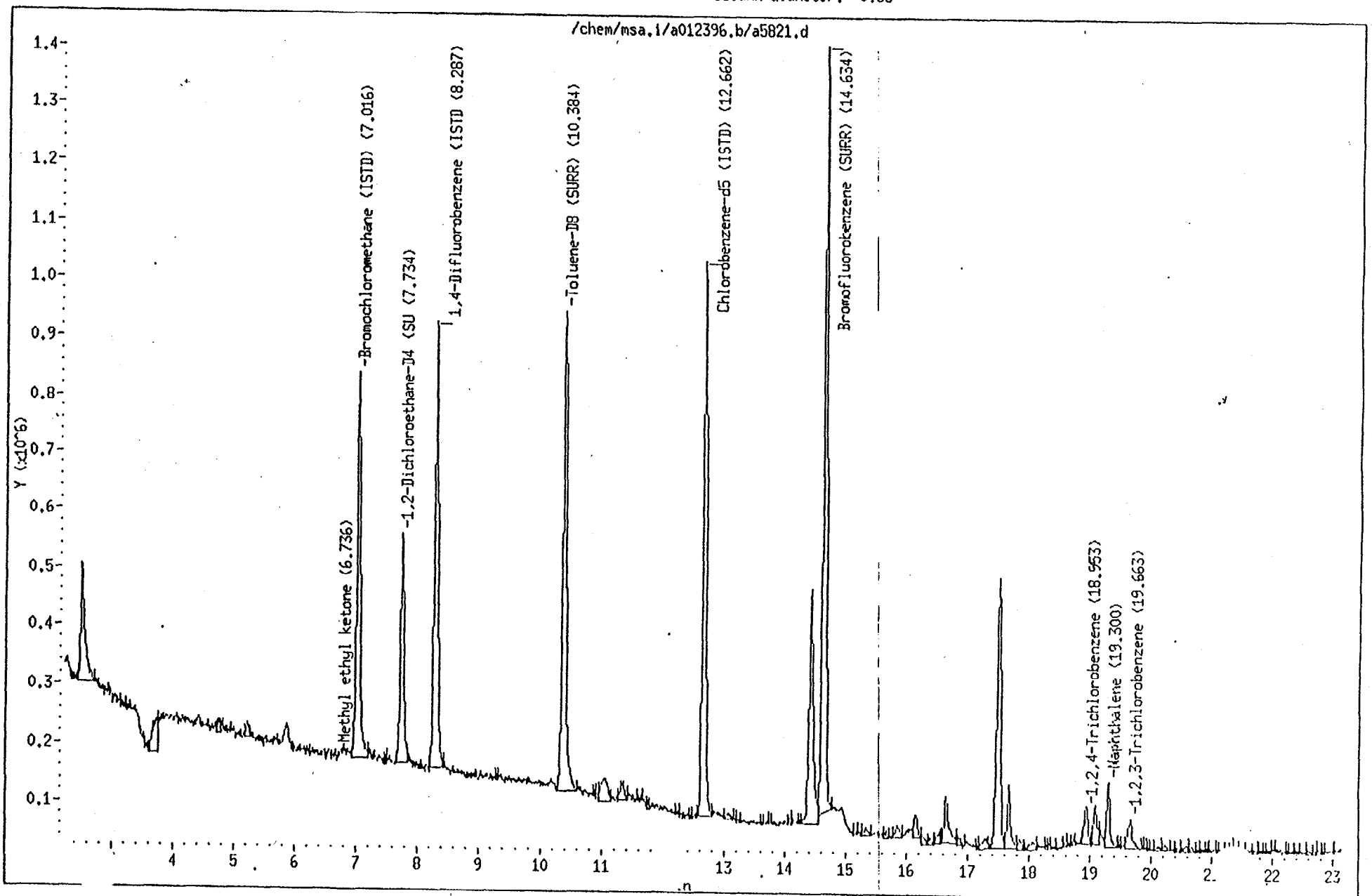
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unk alcohol	14.42	26	J
2.		Unk alcohol	16.64	5	J
3.		unknown	17.49	28	J
4.	124-19-6	Nonanal	17.67	5	JN

0020

Data File: /chem/msa.i/a012396.b/a5821.d
Date : 23-JAN-96 12:59
Client ID: 17418n clj78fb001
Sample Info: 17418n clj78fb001
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msa.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msa.i/a012396.b/a5821.d
Report Date: 24-Jan-1996 11:43

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 # Screen

Data file : /chem/msa.i/a012396.b/a5821.d
Lab Smp Id: Client Smp ID: 17418n clj78fb001
Inj Date : 23-JAN-96 12:59
Operator : jk Inst ID: msa.i
Smp Info : 17418n clj78fb001
Misc Info : jp2542v,n1v4919,m2,5000,1,5.0,5.0,960123,
Comment :
Method : /chem/msa.i/a012396.b/011996_ambia.m
Meth Date : 24-Jan-1996 11:22 glenn Quant Type: ISTD
Cal Date : 23-JAN-96 07:25 Cal File: a5812.d
Als bottle: 11
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 1/24/96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	Methyl ethyl ketone	72.00	6.736	6.699	(0.813)	1715	2.77	~~2.77~~ MS
* 22	Bromochloromethane (ISTD)	128.00	7.016	6.976	(1.000)	318141	50.0	
$ 27	1,2-Dichloroethane-D4 (SURR)	65.00	7.734	7.696	(0.933)	561579	52.5	52.5
* 30	1,4-Difluorobenzene (ISTD)	114.00	8.287	8.249	(1.000)	1174146	50.0	
$ 38	Toluene-D8 (SURR)	98.00	10.384	10.363	(0.820)	1160136	52.9	52.9
* 47	Chlorobenzene-d5 (ISTD)	117.00	12.662	12.641	(1.000)	1043928	50.0	
$ 56	Bromofluorobenzene (SURR)	95.00	14.634	14.622	(1.156)	922214	53.7	53.7
73	1,2,4-Trichlorobenzene	180.00	18.953	18.964	(1.497)	23923	1.20	~~1.20~~ MS
75	Naphthalene	128.00	19.300	19.305	(1.524)	155765	5.83	5.83
76	1,2,3-Trichlorobenzene	180.00	19.663	19.669	(1.553)	29593	1.55	~~1.55~~ MS

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/msa.i/a012396.b/a5821.d

Date : 23-JAN-96 12:59

Client ID: 17418n clj78fb001

Instrument: msa.i

Sample Info: 17418n clj78fb001

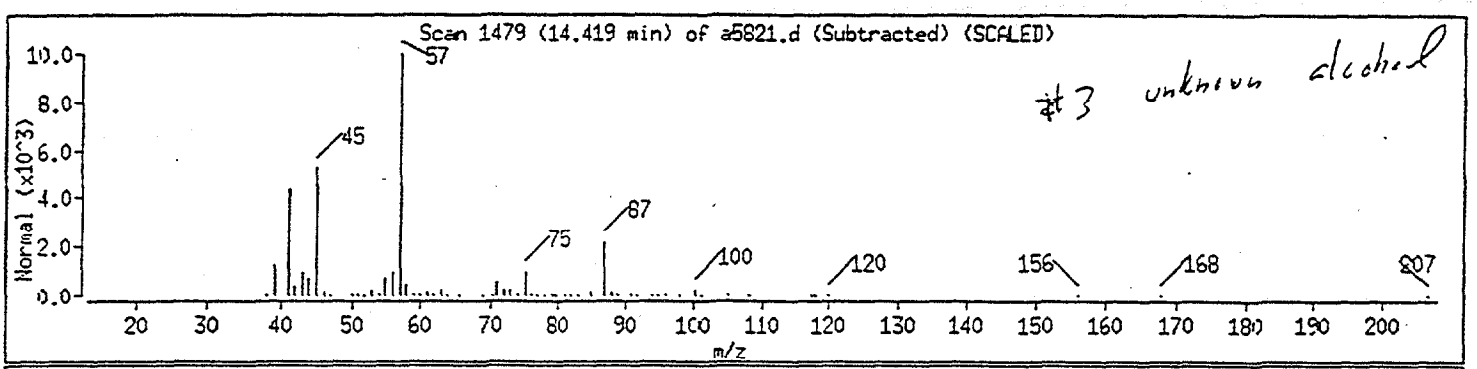
Purge Volume: 1.0

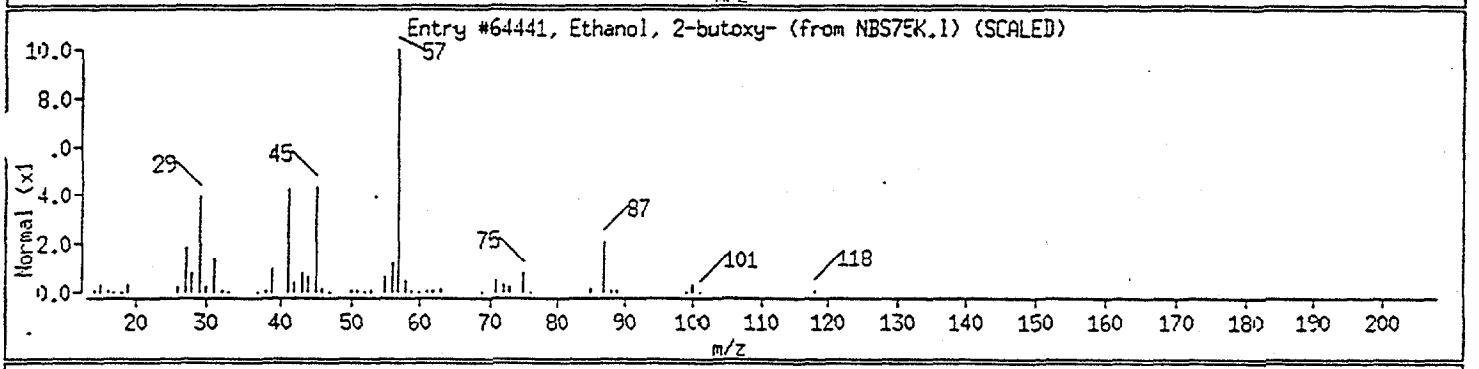
Operator: jk

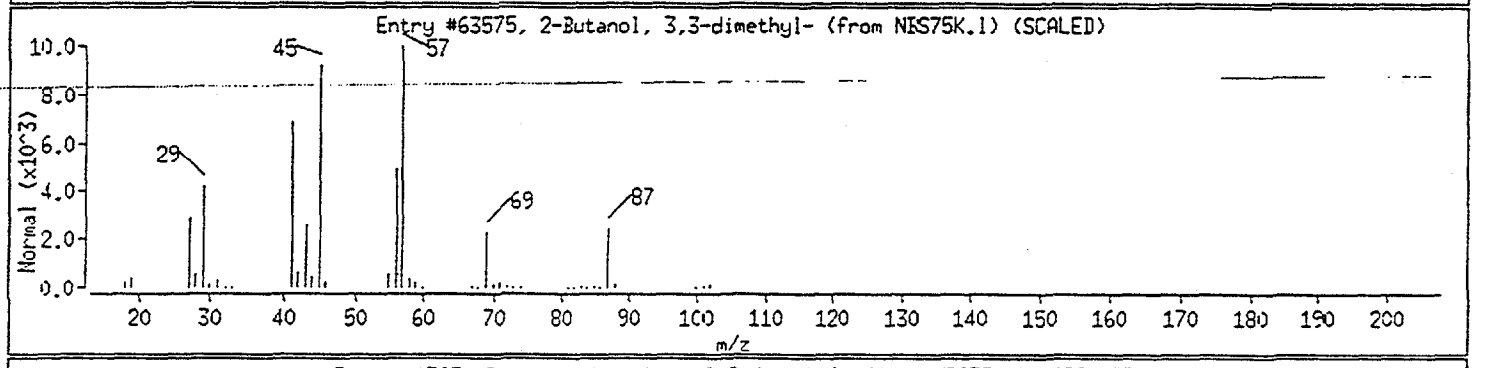
Column phase: J&W DB_624

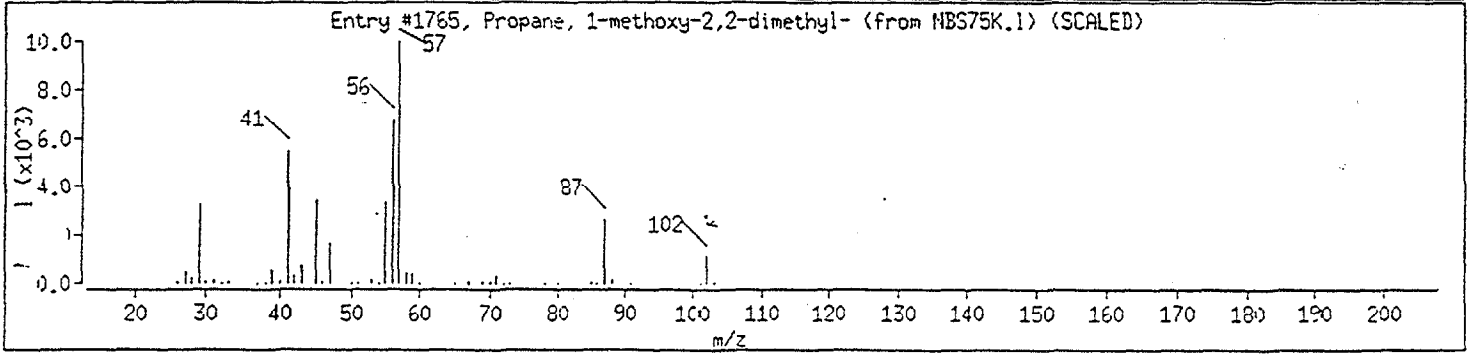
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethanol, 2-butoxy-	111-76-2	NBS75K.1	64441	78	C6H14O2	118
2-Butanol, 3,3-dimethyl-	464-07-3	NBS75K.1	63575	59	C6H14O	102
Propane, 1-methoxy-2,2-dimethyl-	1118-00-9	NBS75K.1	1765	38	C6H14O	102









Data File: /chem/msa.i/a012396.b/a5821.d

Date : 23-JAN-96 12:59

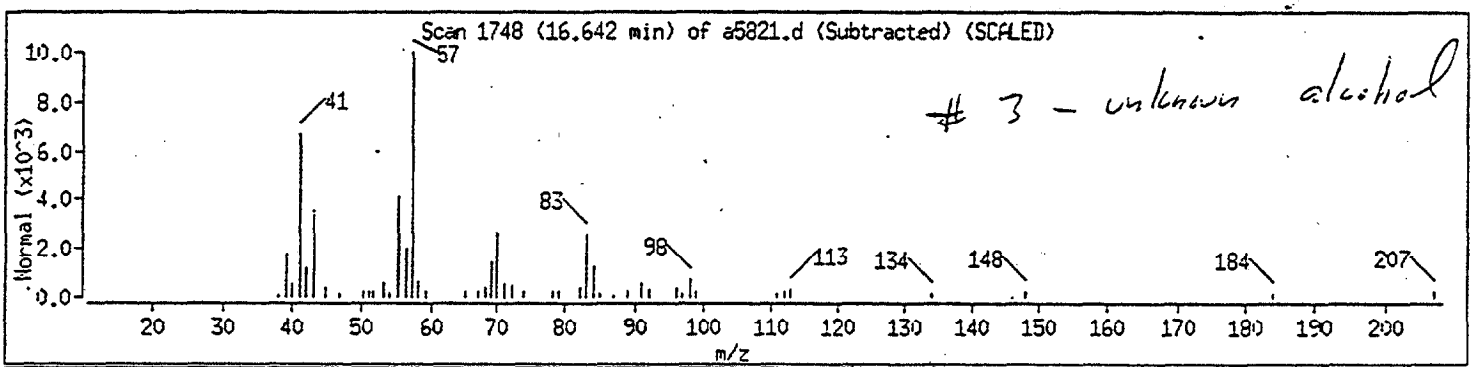
Client ID: 17418n clj78fb001 Instrument: msa.i

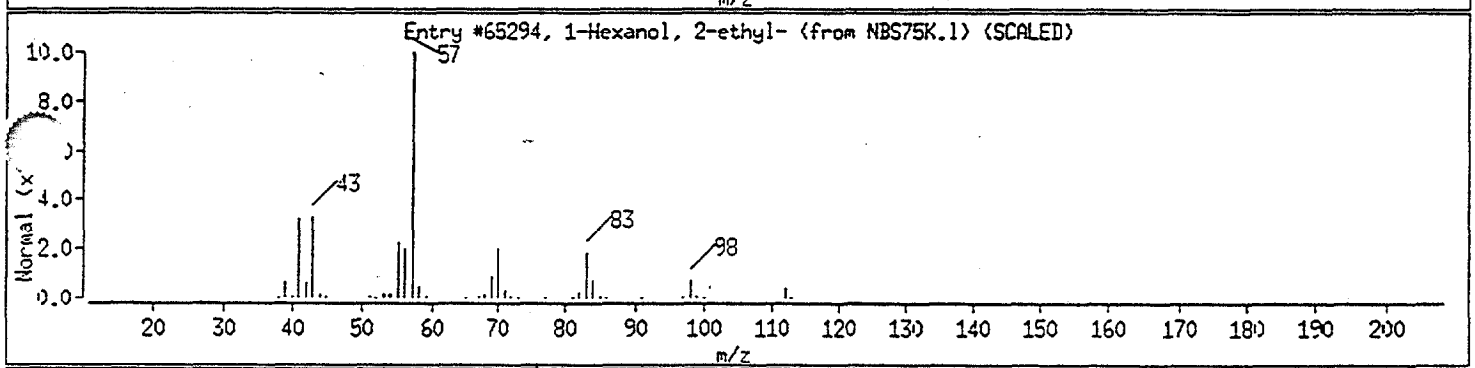
Sample Info: 17418n clj78fb001

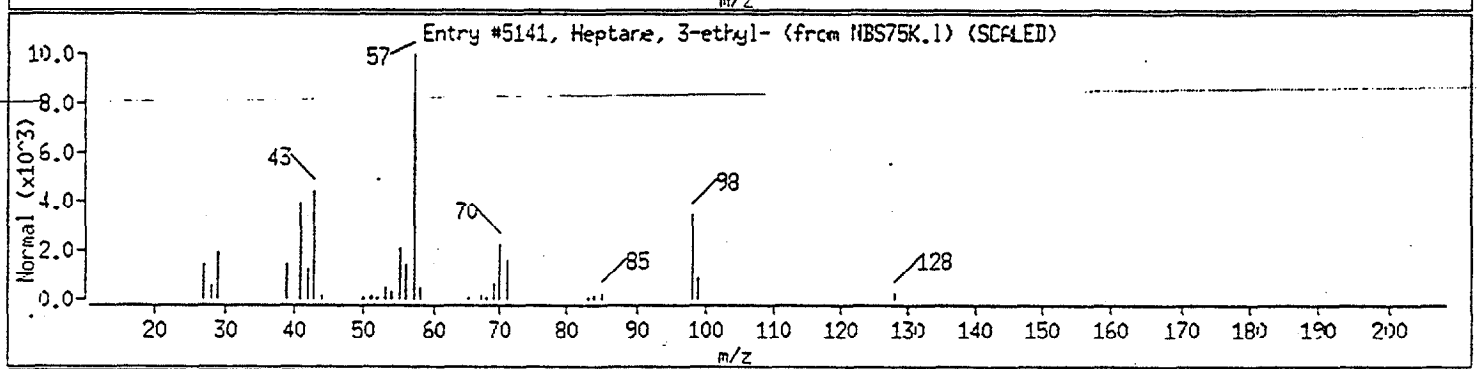
Purge Volume: 1.0 Operator: jk

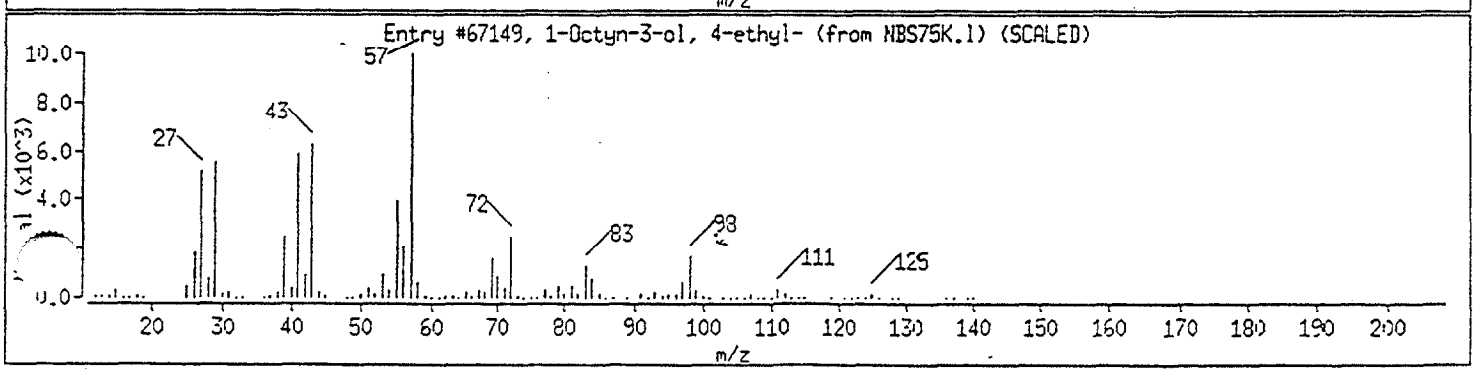
Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.l	65294	72	C8H18O	130
Heptane, 3-ethyl-	15869-80-4	NBS75K.l	5141	47	C9H20	128
1-Octyn-3-ol, 4-ethyl-	5877-42-9	NBS75K.l	67149	43	C10H18O	154









Data File: /chem/msa.i/a012396.b/a5821.d

Date : 23-JAN-96 12:59

Client ID: 17418n clj78fb001

Instrument: msa.i

Sample Info: 17418n clj78fb001

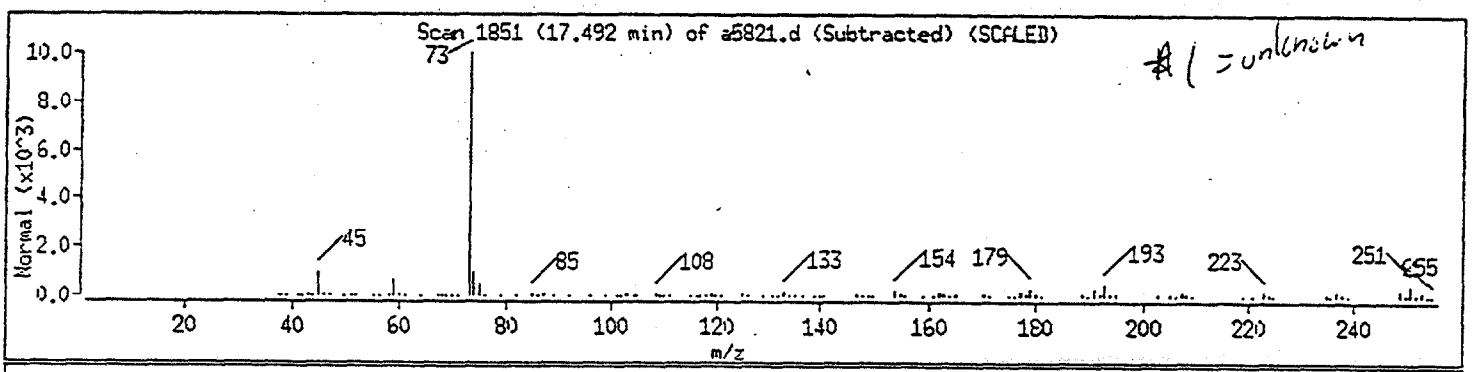
Purge Volume: 1.0

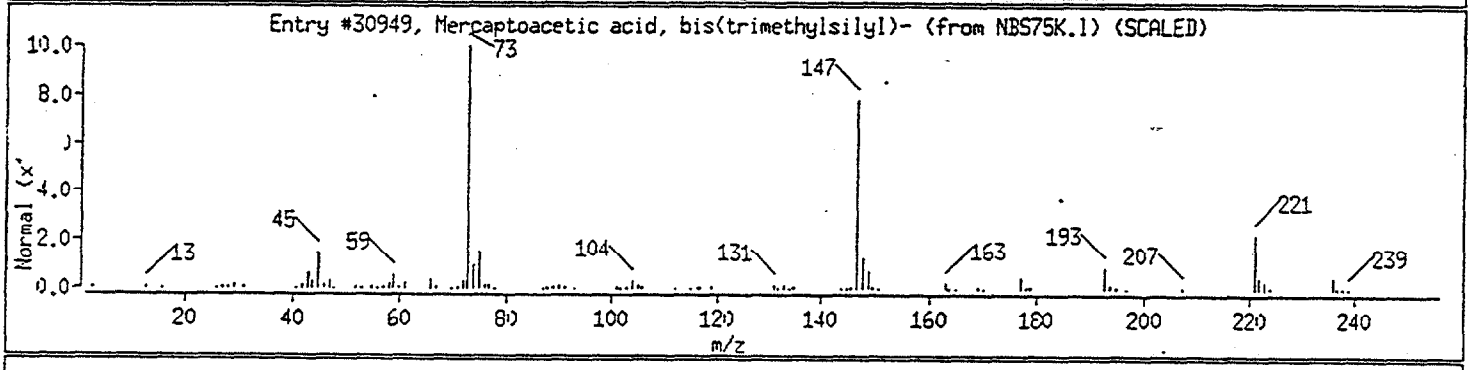
Operator: jk

Column phase: J&W DB_624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Mercaptoacetic acid, bis(trimethylsilyl)	6398-62-5	NBS75K.1	30949	28	C8H20O2SSi2	236





Data File: /chem/msa.i/a012396.b/a5821.d

Date : 23-JAN-96 12:59

Client ID: 17418n clj78fb001

Instrument: msa.i

Sample Info: 17418n clj78fb001

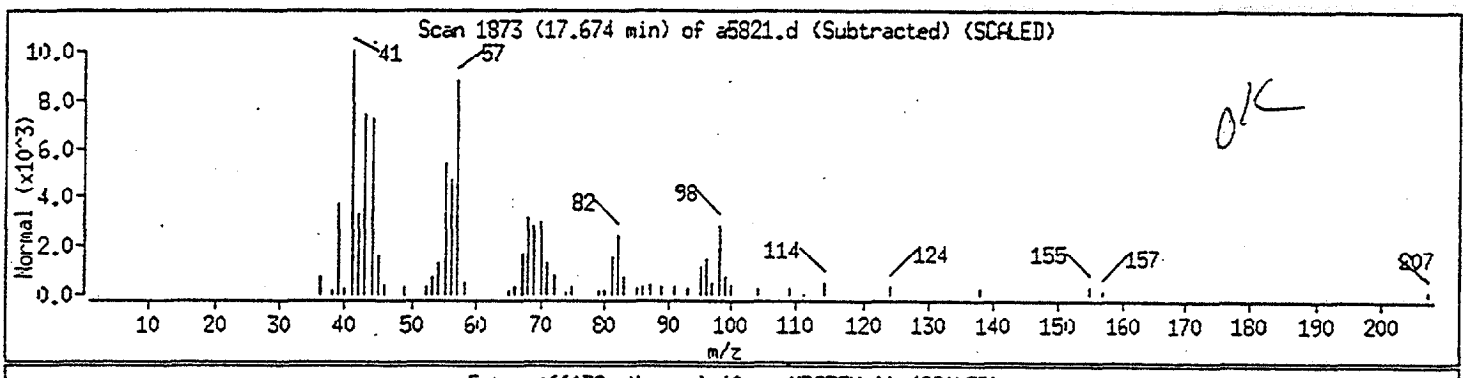
Purge Volume: 1.0

Operator: jk

Column phase: J&W DB_624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonanal	124-19-6	NBS75K.l	66172	80	C9H18O	142
Piperidine, 3-methyl-	626-56-2	NBS75K.l	1419	38	C6H13N	99
Cyclobutanol, 2-ethyl-	35301-43-0	NBS75K.l	1521	35	C6H12O	100



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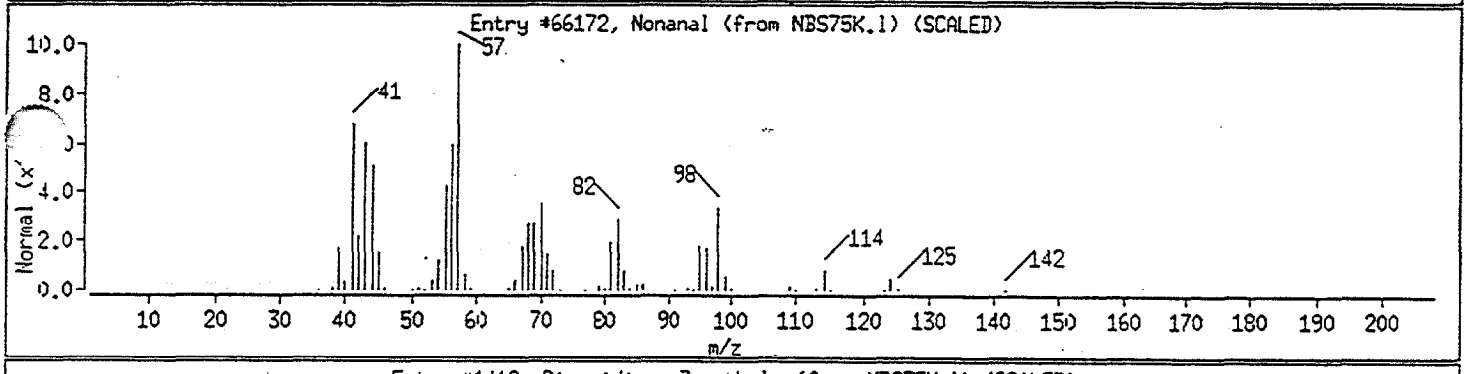
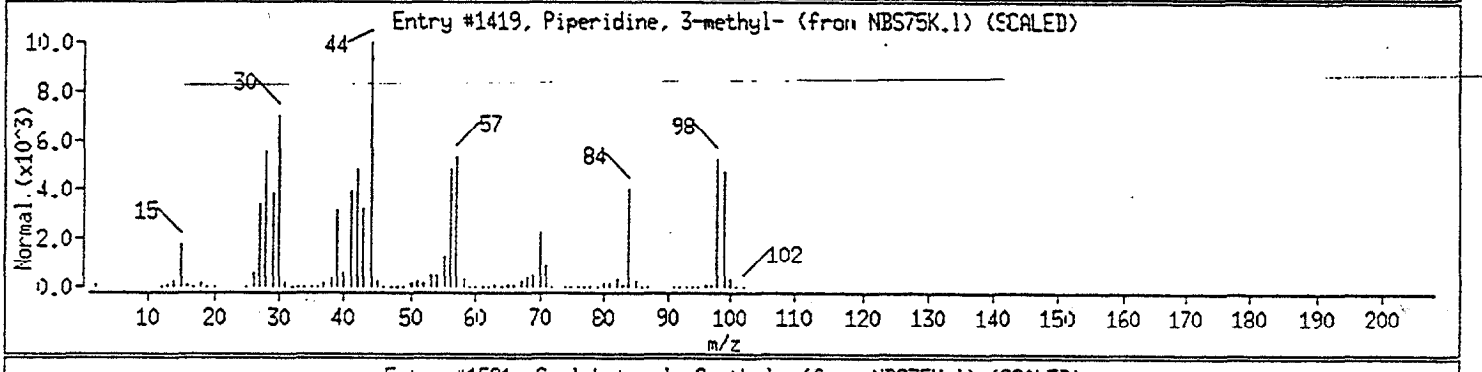
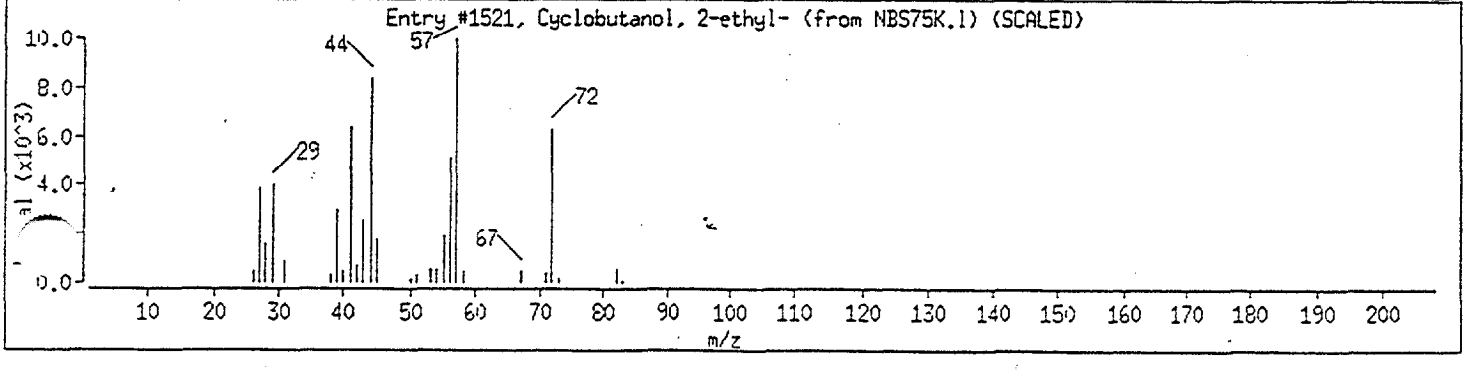






1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

0026 EPA SAMPLE NO.

CLJ78TB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: JP2543V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5822

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: not dec. _____ Date Analyzed: 01/23/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	Methyl-iso-butyl ketone	10	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethylene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0027 EPA SAMPLE NO.

CLJ78TB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: JP2543V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5822

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: not dec. _____ Date Analyzed: 01/23/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

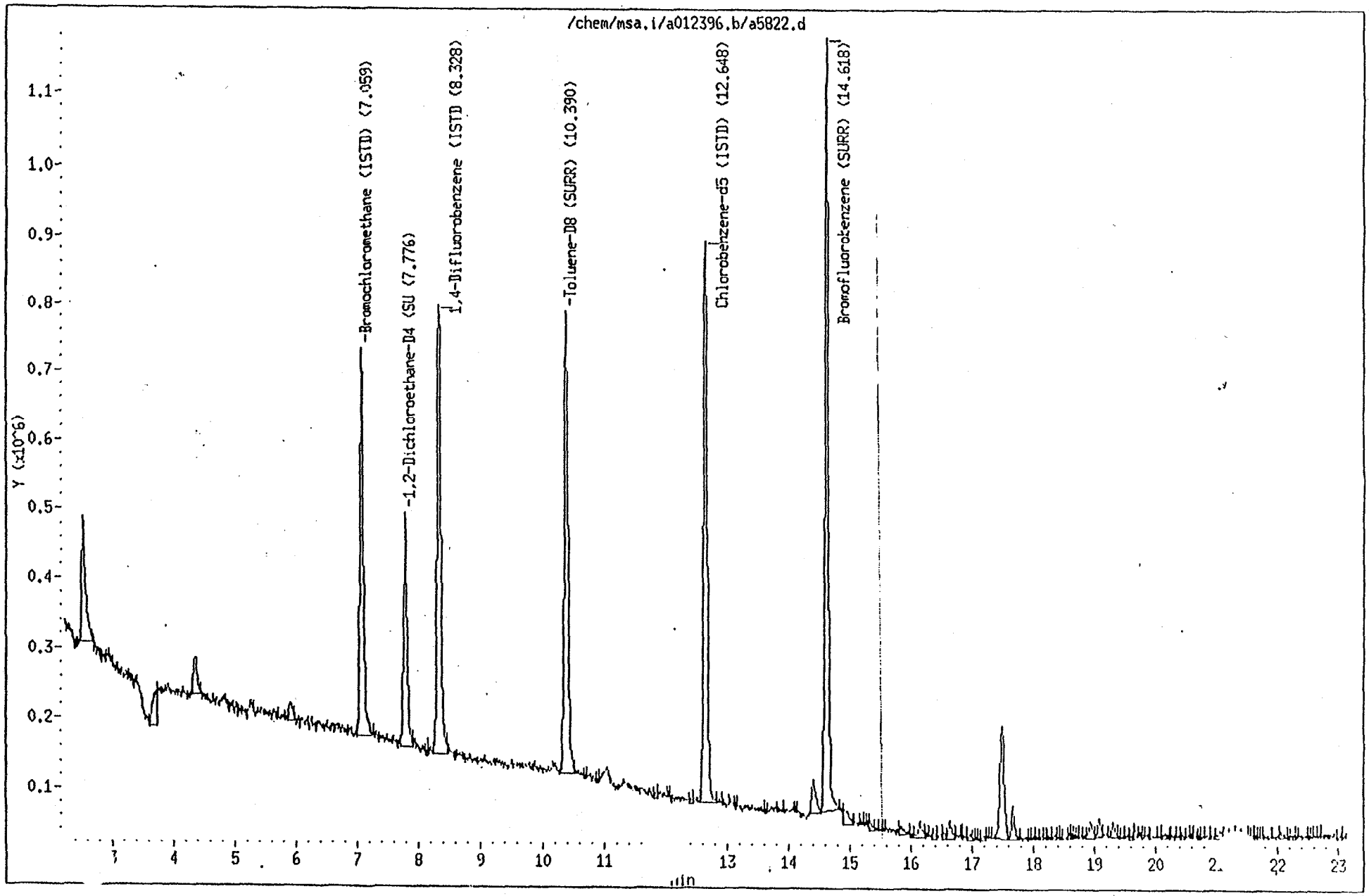
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unk alcohol	4.36	5	J
2.		unknown	17.49	12	J

0028

Data File: /chem/msa.i/a012396.b/a5822.d
Date : 23-JAN-96 13:34
Client ID: 17418n clj78tb001
Sample Info: 17418n clj78tb001
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msa.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msa.i/a012396.b/a5822.d
Report Date: 24-Jan-1996 11:45

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 & Screen

Data file : /chem/msa.i/a012396.b/a5822.d
Lab Smp Id:
Client Smp ID: 17418n clj78tb001
Inj Date : 23-JAN-96 13:34
Operator : jk
Inst ID: msa.i
Smp Info : 17418n clj78tb001
Misc Info : jp2543v,n1v4919,m2,5000,1,5.0,5.0,960123,
Comment :
Method : /chem/msa.i/a012396.b/011996_ambia.m
Meth Date : 24-Jan-1996 11:22 glenn
Quant Type: ISTD
Cal Date : 23-JAN-96 07:25
Cal File: a5812.d
Als bottle: 12
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 3.10

jmk 1/24/96

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
		Bromochloromethane (ISTD)	128.00	7.067	6.976	(1.000)	259177	50.0	
$	27	1,2-Dichloroethane-D4 (SURR)	65.00	7.776	7.696	(0.934)	456068	51.3	51.3
*	30	1,4-Difluorobenzene (ISTD)	114.00	8.328	8.249	(1.000)	975386	50.0	
$	38	Toluene-D8 (SURR)	98.00	10.390	10.363	(0.821)	917948	48.9	48.9
*	47	Chlorobenzene-d5 (ISTD)	117.00	12.648	12.641	(1.000)	892743	50.0	
$	56	Bromofluorobenzene (SURR)	95.00	14.627	14.622	(1.156)	777554	52.9	52.9

Data File: /chem/msa.i/a012396.b/a5822.d

Date : 23-JAN-96 13:34

Client ID: 17418n clj78tb001

Instrument: msa.i

Sample Info: 17418n clj78tb001

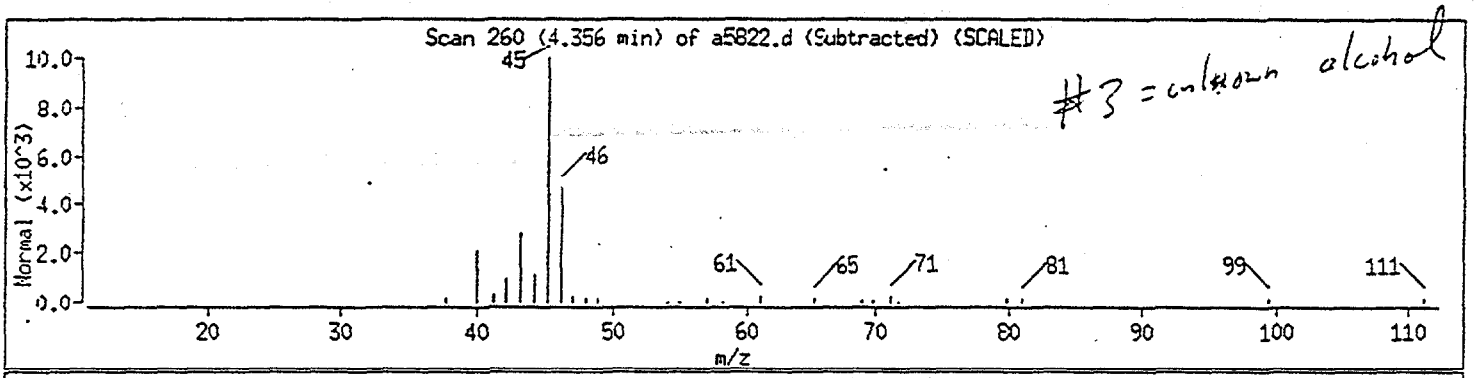
Purge Volume: 1.0

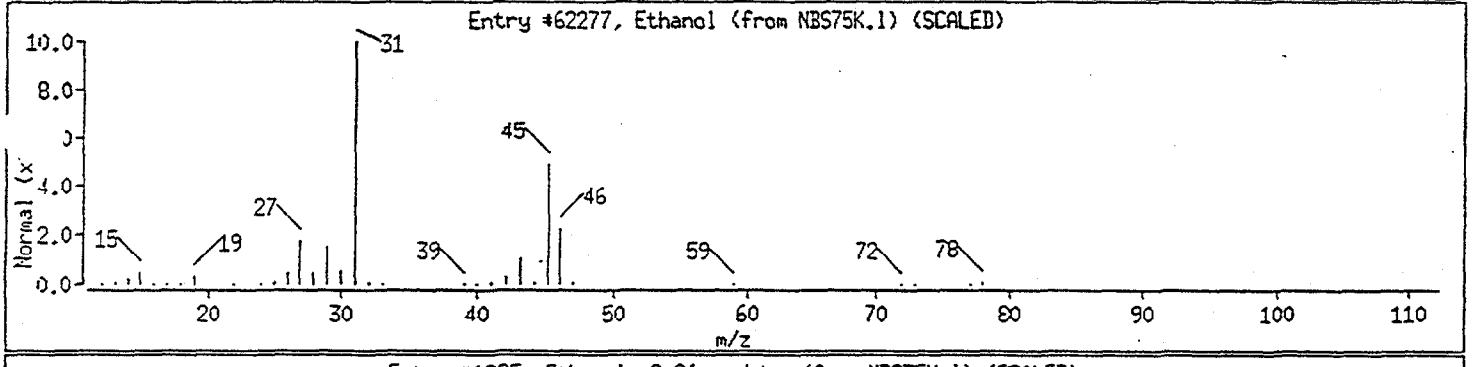
Operator: jk

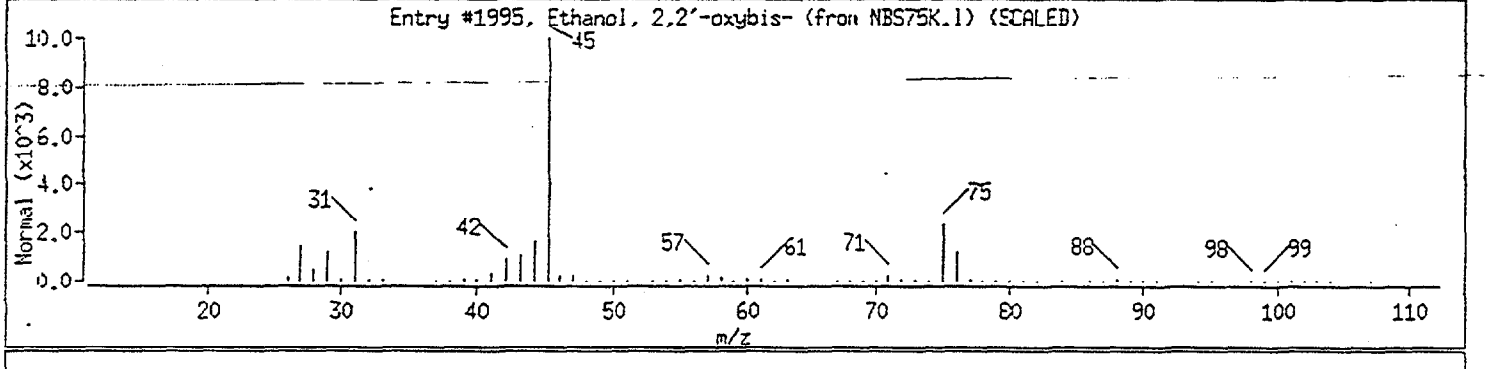
Column phase: J&W DB_624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethanol	64-17-5	NBS75K.l	62277	72	C2H6O	46
Ethanol, 2,2'-oxybis-	111-46-6	NBS75K.l	1995	40	C4H10O3	106







Data File: /chem/msa.i/a012396.b/a5822.d

Date : 23-JAN-96 13:34

Client ID: 17418n clj78tb001

Instrument: msa.i

Sample Info: 17418n clj78tb001

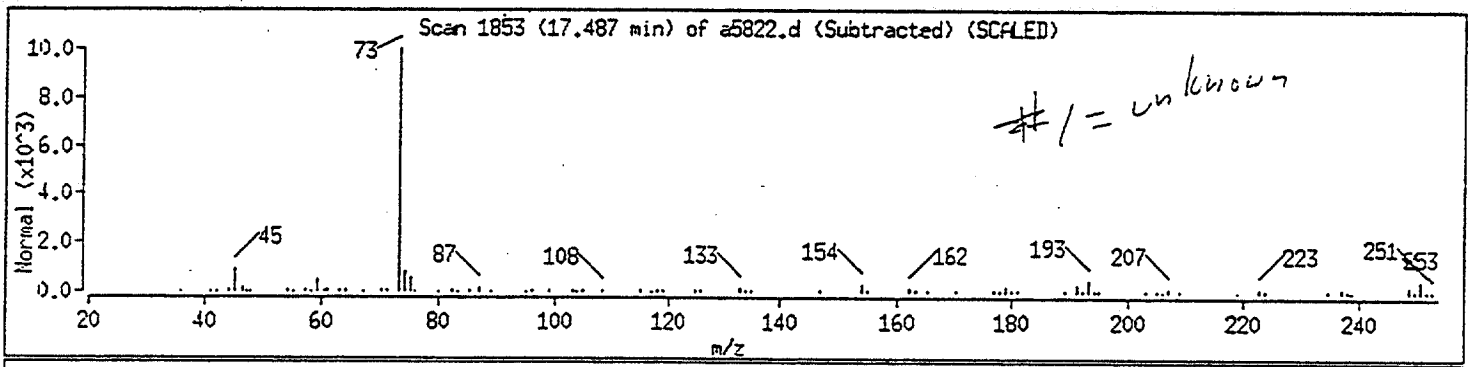
Purge Volume: 1.0

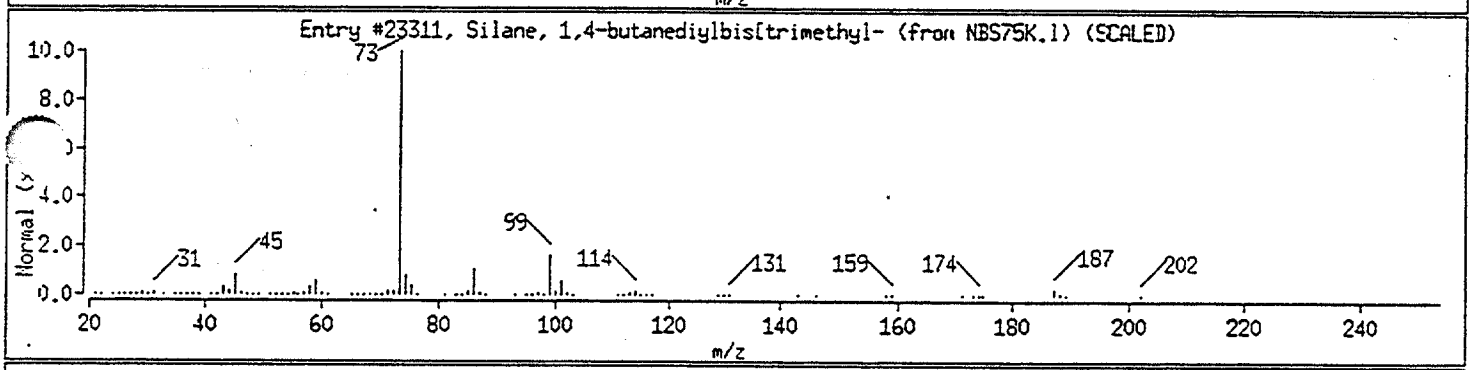
Operator: jk

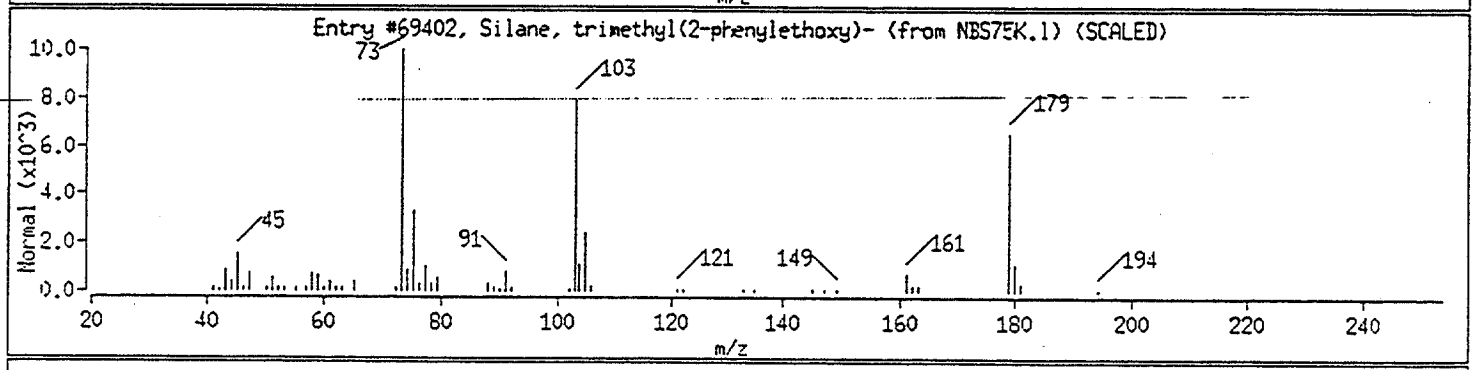
Column phase: J&W DB_624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Silane, 1,4-butanediylbis[trimethyl-	18001-81-5	NBS75K.1	23311	23	C10H26Si2	202
Silane, trimethyl(2-phenylethoxy)-	14629-58-4	NBS75K.1	69402	10	C11H18OSi	194







Report Date : 24-Jan-1996 09:59

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 19-JAN-96 13:12
End Cal Date : 19-JAN-96 15:39
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msa.i/a011996.b/011996_ambia.m
Cal Date : 24-Jan-1996 09:59 glenn
Curve Type : Average

CLP, 8240, 8260

MK

no -2-chloroethyl vinyl ether

Calibration File Names:
Level 1: /chem/msa.i/a011996.b/a5783.d
Level 2: /chem/msa.i/a011996.b/a5784.d
Level 3: /chem/msa.i/a011996.b/a5785.d
Level 4: /chem/msa.i/a011996.b/a5786.d
Level 5: /chem/msa.i/a011996.b/a5787.d

	10	20	50	100	200		
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD
1 Dichlorodifluoromethane	2.69408	2.03158	2.63145	2.63728	2.50896	2.50067	10.828
2 Methyl chloride	0.83322	0.69254	0.90460	0.84208	0.86465	0.82742	9.704
3 Vinyl chloride	0.83551	0.73490	0.98058	0.95947	0.96298	0.89469	11.891
4 Methyl bromide	0.92859	0.60381	0.71016	0.69676	0.51130	0.71014	18.497
5 Chloroethane	+++++	0.35336	0.27877	0.22618	0.20830	0.26660	24.408
6 Trichlorofluoromethane	3.53214	2.81353	3.54346	2.97920	+++++	3.21708	11.703
7 Ethyl ether	0.61694	0.67074	0.59665	0.55685	0.50163	0.58856	10.808
8 Acrolein	0.65925	0.69813	0.72649	0.68307	0.67652	0.68869	3.676
9 1,1,2-Trichlorotrifluoroethan	2.67292	2.92126	2.51664	2.42732	2.14483	2.53659	11.364
10 1,1-Dichloroethylene	1.02356	1.25682	1.08802	1.05938	0.93275	1.07210	11.067
11 Acetone	0.45479	0.38432	0.30854	0.28083	0.27702	0.34110	22.515
12 Carbon disulfide	3.00283	3.55327	3.08688	3.02527	2.93046	3.11974	7.972
13 Methylene chloride	1.55081	1.48520	1.23284	1.26685	1.23714	1.35457	11.188
14 Acrylonitrile	0.23156	0.29769	0.28383	0.28847	0.25947	0.27220	9.830
15 1,2-Trans-dichloroethylene	1.15768	1.43353	1.20421	1.13720	1.09368	1.20526	11.089
16 Tert-Butyl Methyl Ether	2.41932	3.07367	2.53671	2.74711	2.50170	2.65570	9.906
17 1,1-Dichloroethane	2.10599	2.25853	2.05047	1.96327	1.93888	2.06343	6.206
18 1,2-cis-Dichloroethylene	1.19295	1.33956	1.16463	1.08706	1.07649	1.17214	9.040
19 2,2-Dichloropropane	1.74144	1.58030	1.69335	1.54232	1.59199	1.62988	5.136
20 Methyl ethyl ketone	0.03287	0.03440	0.02742	0.03524	0.02853	0.03169	11.103
21 Ethyl acetate	2.50158	3.08590	2.61857	2.53386	2.48840	2.64568	9.497
23 Chloroform	2.70109	3.08290	2.68830	2.61238	2.50886	2.71871	8.000
24 1,1,1-Trichloroethane	0.64356	0.81036	0.61577	0.78901	0.59348	0.69043	14.712
25 1,1-Dichloropropene	0.52281	0.58609	0.46413	0.48330	0.34331	0.47993	18.647
26 Carbon tetrachloride	0.77635	0.90380	0.75415	0.85959	0.63446	0.78567	13.252
Benzene	0.82006	0.91134	0.76524	0.92910	0.53378	0.79190	20.088
29 1,2-Dichloroethane	2.26584	2.29127	2.03528	1.86749	1.50679	1.99333	16.205

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 19-JAN-96 13:12
End Cal Date : 19-JAN-96 15:39
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msa.i/a011996.b/011996_ambia.m
Cal Date : 24-Jan-1996 09:59 glenn
Curve Type : Average

	Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	RRF	% RSD	
31	Trichloroethylene	0.51882	0.62288	0.50845	0.62566	0.32409	0.51998	23.605	
32	1,2-Dichloropropane	0.39966	0.42884	0.38362	0.50554	0.36012	0.41556	13.516	
33	Dibromomethane	0.58881	0.64449	0.54564	0.72181	0.52802	0.60575	13.028	
34	Dichlorobromomethane	1.01361	1.05890	0.92570	1.24124	0.88948	1.02578	13.461	
35	2-Chloroethylvinyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
36	cis-1,3-Dichloropropylene	0.67628	0.68511	0.63758	0.79619	0.57389	0.67381	12.059	
37	Methyl-iso-butyl ketone	0.48754	0.51760	0.48021	0.45812	0.43909	0.47651	6.263	
39	Toluene	1.16734	1.18254	1.12498	1.07524	0.99715	1.10945	6.792	
40	trans-1,3-Dichloropropylene	0.61622	0.60371	0.55085	0.72481	0.53272	0.60766	12.099	
41	1,1,2-Trichloroethane	0.47726	0.47290	0.41046	0.54003	0.39122	0.45838	12.926	
42	Tetrachloroethylene	0.59257	0.71332	0.54460	0.51932	0.48856	0.57168	15.370	
43	1,3-Dichloropropane	0.75128	0.75215	0.66955	0.62334	0.59303	0.67787	10.727	
44	2-Hexanone	0.33886	0.39223	0.32866	0.31790	0.33833	0.34319	8.366	
45	Chlorodibromomethane	1.06100	1.13605	0.97840	1.29700	0.95213	1.08492	12.800	
46	Ethylene dibromide	0.93238	0.94659	0.85119	0.83466	0.84768	0.88250	5.963	
48	Chlorobenzene	1.05846	1.12090	0.99070	0.95020	0.93823	1.01170	7.613	
49	1,1,1,2-Tetrachloroethane	0.69926	0.71003	0.62684	0.61273	0.59228	0.64823	8.189	
50	Ethylbenzene	0.47410	0.50648	0.43183	0.40120	0.38257	0.43924	11.637	
51	m+p-Xylenes	0.54958	0.58047	0.50468	0.48297	0.44716	0.51297	10.314	
52	o-Xylene	0.56819	0.58759	0.49831	0.49511	0.46288	0.52262	10.107	
53	Styrene	1.04941	1.05083	0.91395	0.89219	0.83608	0.94849	10.230	
54	Bromoform	0.90378	0.95704	0.83669	1.12033	0.81871	0.92731	13.064	
55	Isopropylbenzene	1.65081	1.75062	1.51557	1.52127	1.44607	1.57687	7.742	
57	1,1,2,2-Tetrachloroethane	0.97859	0.96107	0.80551	0.86416	0.79620	0.88111	9.682	
58	1,2,3-Trichloropropane	0.76453	0.79746	0.67854	0.68609	0.64956	0.71524	8.759	
59	Bromobenzene	0.75251	0.76017	0.65163	0.64194	0.59072	0.67939	10.893	
60	n-Propylbenzene	2.06159	2.23154	1.93093	1.94450	1.84178	2.00207	7.503	
61	o-Chlorotoluene	1.49641	1.54596	1.36696	1.34331	1.21665	1.39386	9.377	
62	1,3,5-Trimethylbenzene	1.45178	1.51668	1.32045	1.29581	1.19831	1.35681	9.368	
63	p-Chlorotoluene	1.63401	1.77087	1.54375	1.50121	1.40931	1.57183	8.750	
64	tert-Butylbenzene	1.50663	1.61833	1.40708	1.41104	1.31019	1.45066	8.043	
66	1,2,4-Trimethylbenzene	1.50176	1.56211	1.40778	1.38972	1.32135	1.43654	6.632	
	sec-Butylbenzene	2.02684	2.15807	1.90417	1.87700	1.76232	1.94568	7.784	
67	4-Isopropyltoluene	1.64878	1.76718	1.53752	1.50952	1.37801	1.56820	9.385	

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 19-JAN-96 13:12
End Cal Date : 19-JAN-96 15:39
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msa.i/a011996.b/011996_ambia.m
Cal Date : 24-Jan-1996 09:59 glenn
Curve Type : Average

	Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	RRF	% RSD
68	1,3-Dichlorobenzene	1.14978	1.17056	1.02169	1.03260	0.93500	1.06193	9.192
69	1,4-Dichlorobenzene	1.06556	0.97315	1.08109	1.07364	1.01012	1.04071	4.515
70	n-Butylbenzene	1.68926	1.83060	1.58150	1.54179	1.36480	1.60159	10.823
71	1,2-Dichlorobenzene	1.12133	1.12534	0.99945	0.97815	0.87647	1.02015	10.297
72	1,2-Dibromo-3-chloropropane	0.28632	0.27974	0.24661	0.27356	0.28278	0.27380	5.809
73	1,2,4-Trichlorobenzene	1.04371	1.07272	0.96107	0.96609	0.88374	0.98547	7.581
74	Hexachlorobutadiene	0.82213	0.87885	0.76711	0.74965	0.66581	0.77671	10.304
5	Naphthalene	1.92002	1.61273	1.32277	1.54986	1.50220	1.58152	13.774
76	1,2,3-Trichlorobenzene	1.04040	1.05092	0.90498	0.94084	0.87237	0.96190	8.347
S 27	1,2-Dichloroethane-D4 (SURR)	0.47792	0.52379	0.45600	0.54437	0.35963	0.47234	15.281
S 38	Toluene-D8 (SURR)	1.17114	1.11363	1.06665	1.05730	0.98214	1.07817	6.507
S 56	Bromofluorobenzene (SURR)	1.04543	1.01401	0.88801	0.90617	0.84924	0.94057	9.002

Data File: /chem/msa.i/a012396.b/a5811.d
Report Date: 24-Jan-1996 10:48

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msa.i
Lab File ID: a5811.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 23-JAN-96 06:51
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 13:12 15:39
Method File: /chem/msa.i/a012396.b/011996_ambia.m

CCB-OK

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	1 Dichlorodifluoromethane	2.501	2.115	0.100	15.4	30.0	
	2 Methyl chloride	0.827	0.752	0.300	9.2	30.0	
	3 Vinyl chloride	0.895	0.848	0.100	5.2	20.0	
	4 Methyl bromide	0.710	0.586	0.100	17.4	30.0	
	5 Chloroethane	0.267	0.227	0.100	14.7	30.0	
	6 Trichlorofluoromethane	3.217	3.152	0.100	2.0	30.0	
	7 Ethyl ether	0.589	0.635	0.100	7.9	30.0	
	8 Acrolein	0.689	0.731	0.100	6.1	30.0	
	9 1,1,2-Trichlorotrifluoroetha	2.537	2.505	0.100	1.3	30.0	
	10 1,1-Dichloroethylene	1.072	1.046	0.100	2.4	20.0	
	11 Acetone	0.341	0.291	0.100	14.6	30.0	
	12 Carbon disulfide	3.120	2.896	0.100	7.2	30.0	
	13 Methylene chloride	1.355	1.217	0.100	10.2	30.0	
	14 Acrylonitrile	0.272	0.285	0.100	4.6	30.0	
	15 1,2-Trans-dichloroethylene	1.205	1.240	0.100	2.9	30.0	
	16 Tert-Butyl Methyl Ether	2.656	2.729	0.100	2.7	30.0	
	17 1,1-Dichloroethane	2.063	2.169	0.300	5.1	30.0	
	18 1,2-cis-Dichloroethylene	1.172	1.207	0.100	3.0	30.0	
	19 2,2-Dichloropropane	1.630	1.703	0.100	4.5	30.0	
	20 Methyl ethyl ketone	0.032	0.026	0.010	16.7	30.0	
	21 Ethyl acetate	2.646	2.664	0.100	0.7	30.0	
	23 Chloroform	2.719	2.721	0.200	0.1	20.0	
	24 1,1,1-Trichloroethane	0.690	0.618	0.100	10.5	30.0	
	25 1,1-Dichloropropene	0.480	0.386	0.100	19.6	30.0	
	26 Carbon tetrachloride	0.786	0.650	0.100	17.2	30.0	
$	27 1,2-Dichloroethane-D4 (SURR)	0.472	0.364	0.100	22.9	30.0	— see CSF12
	28 Benzene	0.792	0.554	0.500	30.1	30.0	<- <402
	29 1,2-Dichloroethane	1.993	1.578	0.100	20.8	30.0	
	31 Trichloroethylene	0.520	0.499	0.300	4.1	30.0	
	32 1,2-Dichloropropane	0.416	0.401	0.100	3.5	20.0	
	33 Dibromomethane	0.606	0.563	0.100	7.1	30.0	
	34 Dichlorobromomethane	1.026	0.934	0.200	8.9	30.0	
	35 2-Chloroethylvinyl ether	++++	++++	0.100	++++	30.0	<-
	36 cis-1,3-Dichloropropylene	0.674	0.645	0.200	4.2	30.0	
	37 Methyl-iso-butyl ketone	0.477	0.472	0.100	1.0	30.0	
$	38 Toluene-D8 (SURR)	1.078	1.047	0.100	2.9	30.0	— see CSF12
	39 Toluene	1.109	1.106	0.400	0.3	20.0	
	40 trans-1,3-Dichloropropylene	0.608	0.571	0.100	6.0	30.0	
	41 1,1,2-Trichloroethane	0.458	0.448	0.100	2.2	30.0	
	42 Tetrachloroethylene	0.572	0.541	0.200	5.3	30.0	

Data File: /chem/msa.i/a012396.b/a5811.d
Report Date: 24-Jan-1996 10:48

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msa.i
Lab File ID: a5811.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 23-JAN-96 06:51
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 13:12 15:39
Method File: /chem/msa.i/a012396.b/011996_ambia.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	43 1,3-Dichloropropane	0.678	0.678	0.100	0.0	30.0	
	44 2-Hexanone	0.343	0.350	0.100	1.9	30.0	
	45 Chlorodibromomethane	1.085	1.063	0.100	2.0	30.0	
	46 Ethylene dibromide	0.882	0.864	0.100	2.1	30.0	
	48 Chlorobenzene	1.012	0.990	0.500	2.2	30.0	
	49 1,1,1,2-Tetrachloroethane	0.648	0.625	0.100	3.5	30.0	
	50 Ethylbenzene	0.439	0.429	0.100	2.3	20.0	
	51 m+p-Xylenes	0.513	0.504	0.300	1.8	30.0	
	52 o-Xylene	0.523	0.496	0.300	5.2	30.0	
	53 Styrene	0.948	0.904	0.300	4.7	30.0	
	54 Bromoform	0.927	0.893	0.100	3.7	30.0	
	55 Isopropylbenzene	1.577	1.583	0.100	0.4	30.0	
$	56 Bromofluorobenzene (SURR)	0.941	0.875	0.200	6.9	30.0	-see C5812
	57 1,1,2,2-Tetrachloroethane	0.881	0.923	0.300	4.8	30.0	
	58 1,2,3-Trichloropropane	0.715	0.702	0.100	1.9	30.0	
	59 Bromobenzene	0.679	0.662	0.100	2.6	30.0	
	60 n-Propylbenzene	2.002	1.945	0.100	2.9	30.0	
	61 o-Chlorotoluene	1.394	1.352	0.100	3.0	30.0	
	62 1,3,5-Trimethylbenzene	1.357	1.331	0.100	1.9	30.0	
	63 p-Chlorotoluene	1.572	1.515	0.100	3.6	30.0	
	64 tert-Butylbenzene	1.451	1.428	0.100	1.6	30.0	
	65 1,2,4-Trimethylbenzene	1.437	1.369	0.100	4.7	30.0	
	66 sec-Butylbenzene	1.946	1.906	0.100	2.0	30.0	
	67 4-Isopropyltoluene	1.568	1.580	0.100	0.7	30.0	
	68 1,3-Dichlorobenzene	1.062	1.043	0.100	1.7	30.0	
	69 1,4-Dichlorobenzene	1.041	1.093	0.100	5.1	30.0	
	70 n-Butylbenzene	1.602	1.576	0.100	1.6	30.0	
	71 1,2-Dichlorobenzene	1.020	1.001	0.100	1.9	30.0	
	72 1,2-Dibromo-3-chloropropane	0.274	0.289	0.100	5.4	30.0	
	73 1,2,4-Trichlorobenzene	0.985	0.954	0.100	3.2	30.0	
	74 Hexachlorobutadiene	0.777	0.820	0.100	5.6	30.0	
	75 Naphthalene	1.582	1.279	0.100	19.1	30.0	
	76 1,2,3-Trichlorobenzene	0.962	0.914	0.100	4.9	30.0	

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msa.i
Lab File ID: a5812.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 23-JAN-96 07:25
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 13:12 15:39
Method File: /chem/msa.i/a012396.b/011996_ambia.m

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
$ 27 1,2-Dichloroethane-D4 (SURR)	0.472	0.455	0.100	3.6	30.0
$ 38 Toluene-D8 (SURR)	1.078	1.051	0.100	2.5	30.0
$ 56 Bromofluorobenzene (SURR)	0.941	0.823	0.200	12.5	30.0

C 5-9/2

Data File: /chem/msa.i/a011996.b/a5782.d

Date : 19-JAN-96 11:55

Client ID:

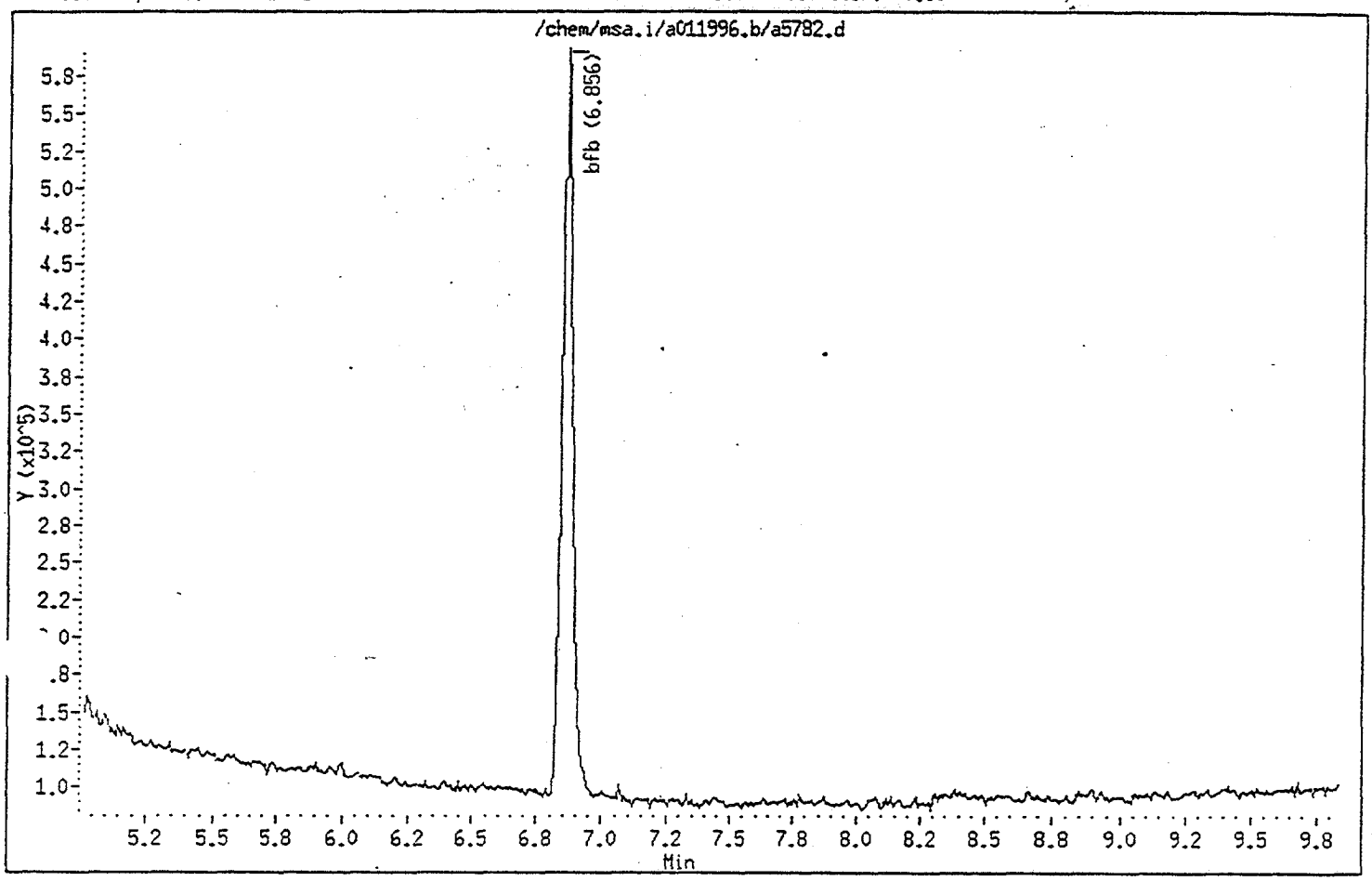
Instrument: msa.i

Sample Info: 50ng bfb direct inj

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53



Data File: /chem/msa.i/a011996.b/a5782.d

Date : 19-JAN-96 11:55

Client ID:

Instrument: msa.i

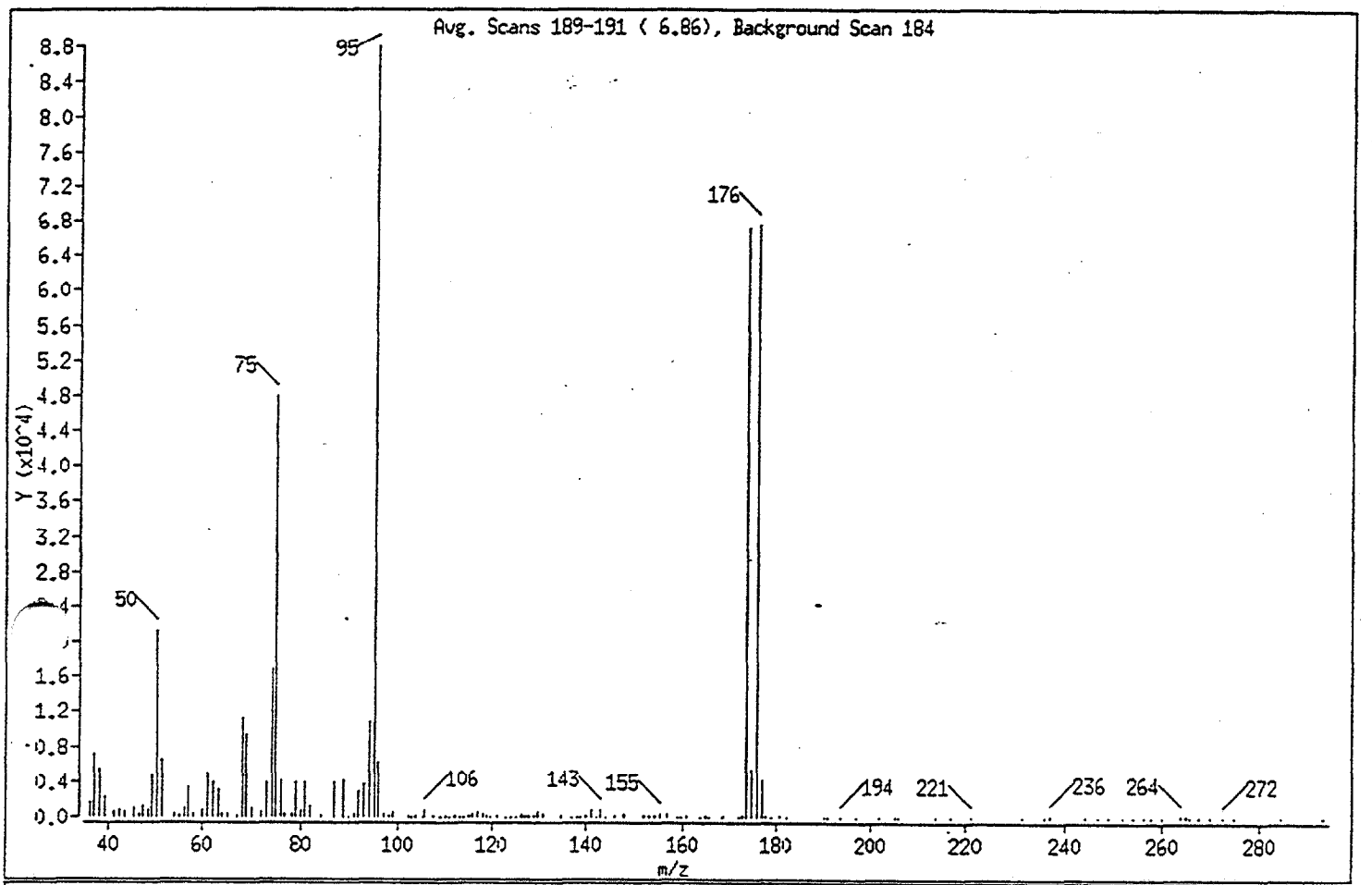
Sample Info: 50ng bfb direct inj

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.10
75	30.00 - 60.00% of mass 95	54.44
96	5.00 - 9.00% of mass 95	7.20
173	Less than 2.00% of mass 174	0.17 (0.22)
174	50.00 - 100.00% of mass 95	76.30
175	5.00 - 9.00% of mass 174	6.13 (8.04)
176	95.00 - 101.00% of mass 174	76.71 (100.54)
177	5.00 - 9.00% of mass 176	4.83 (6.29)

Data File: /chem/msa.i/a011996.b/a5782.d

Date : 19-JAN-96 11:55

Client ID:

Instrument: msa.i

Sample Info: 50ng bfb direct inj

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

Data File: a5782.d

Spectrum : Avg. Scans 189-191 (6.86), Background Scan 184

Largest m/z: 95.05

Number of peaks: 147

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.05	1594	79.95	879	124.00	65	176.90	4249
37.05	7140	80.95	4061	125.10	101	178.00	184
38.05	5398	81.85	1170	126.30	328	178.90	81
39.05	2243	84.15	243	127.00	208	181.00	206
41.05	536	86.95	3925	127.90	308	182.30	50
42.05	770	88.65	4087	129.00	273	190.10	52
43.15	534	88.85	192	129.80	555	191.00	1
45.05	988	89.75	50	130.90	511	193.70	89
46.15	369	91.05	379	134.80	187	196.90	58
46.95	1294	91.95	2940	136.90	85	201.80	84
48.10	828	93.05	3821	138.00	60	205.30	50
49.00	4708	94.05	10896	138.90	40	206.15	54
50.00	21216	95.05	88032	139.90	140	213.95	61
51.10	6482	95.95	6338	140.90	758	216.85	58
54.00	409	97.05	370	142.20	73	221.15	97
55.00	255	98.15	111	142.95	783	231.05	70
56.00	1050	99.05	595	143.85	58	235.65	53
57.00	3354	102.35	145	145.95	248	236.65	113
58.10	319	102.95	61	147.95	352	244.00	56
60.00	882	103.95	117	151.95	232	246.40	56
61.00	5002	105.15	26	152.95	153	248.70	51
62.00	4049	105.85	852	154.25	181	251.90	64
63.10	3161	107.65	255	155.45	437	254.20	55
64.00	350	109.05	55	156.95	315	256.40	51
65.00	392	110.15	156	158.95	68	257.90	77
67.00	159	111.00	101	159.85	52	260.20	50
68.00	11182	112.10	250	160.95	296	264.00	230
69.00	9443	113.10	4	164.05	5	264.90	157
70.00	1071	113.90	80	165.05	145	265.70	51
72.00	693	115.10	168	165.95	81	267.60	67
73.00	3995	116.00	385	168.25	75	269.85	54
74.00	16840	116.90	681	168.95	236	272.65	75
75.00	47928	118.00	465	172.25	62	274.65	53
76.00	4076	118.90	304	172.85	148	284.55	54
76.90	368	119.70	54	173.85	67176	293.45	52

Data File: /chem/msa.i/a011996.b/a5782.d

Date : 19-JAN-96 11:55

Client ID:

Instrument: msa.i

Sample Info: 50ng bfb direct inj

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

Data File: a5782.d
Spectrum : Avg. Scans 189-191 (6.86), Background Scan 184
Largest m/z: 95.05
Number of peaks: 147

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.10	504	121.10	125	175.00	5401	294.05	53
78.90	4012	122.90	63	175.90	67536		

Data File: /chem/msa.i/a012396.b/a5810.d

Date : 23-JAN-96 06:19

Client ID:

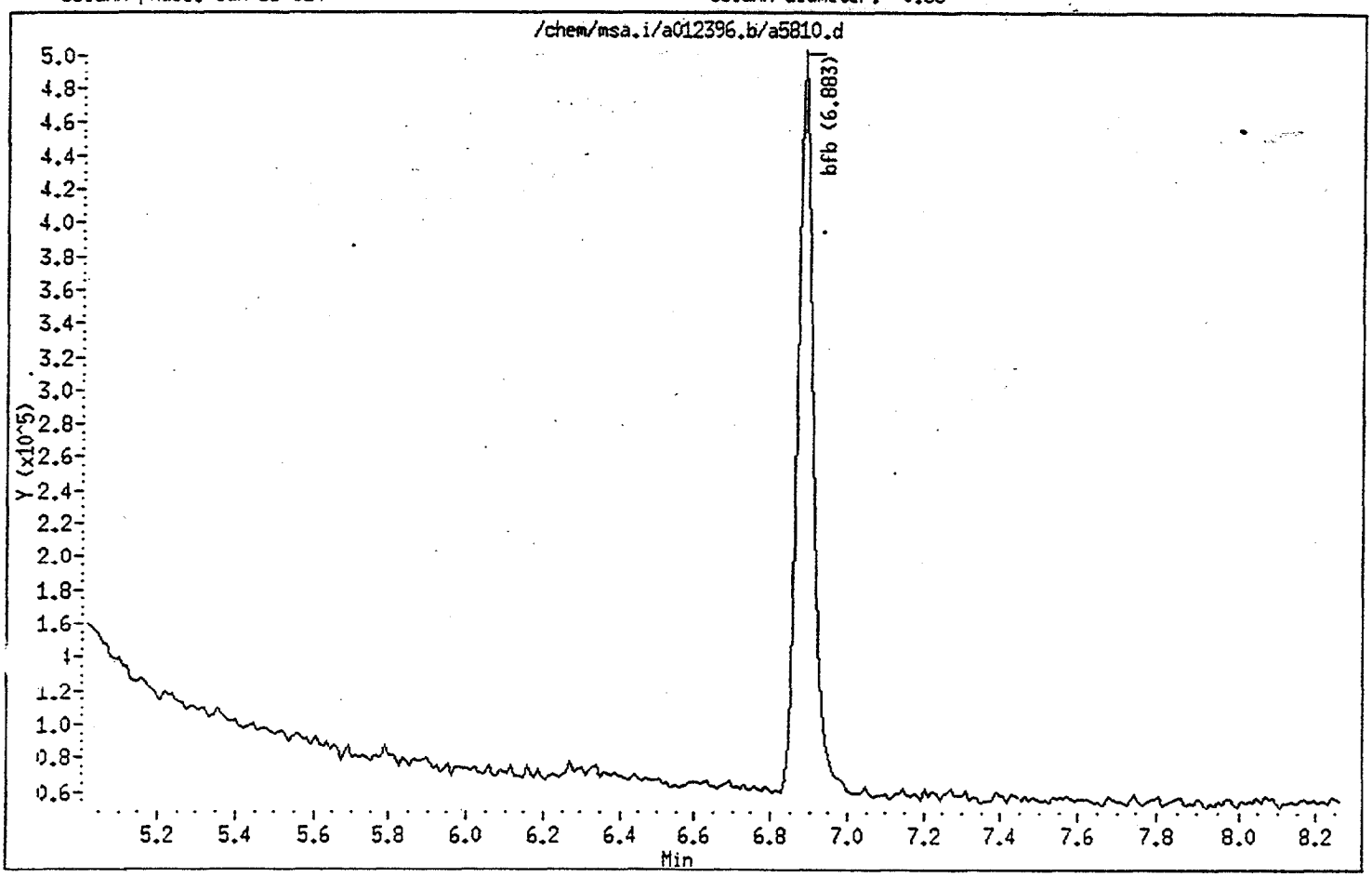
Instrument: msa.i

Sample Info: bfb 50ng ma2855

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53



Data File: /chem/msa.i/a012396.b/a5810.d

Date : 23-JAN-96 06:19

Client ID:

Instrument: msa.i

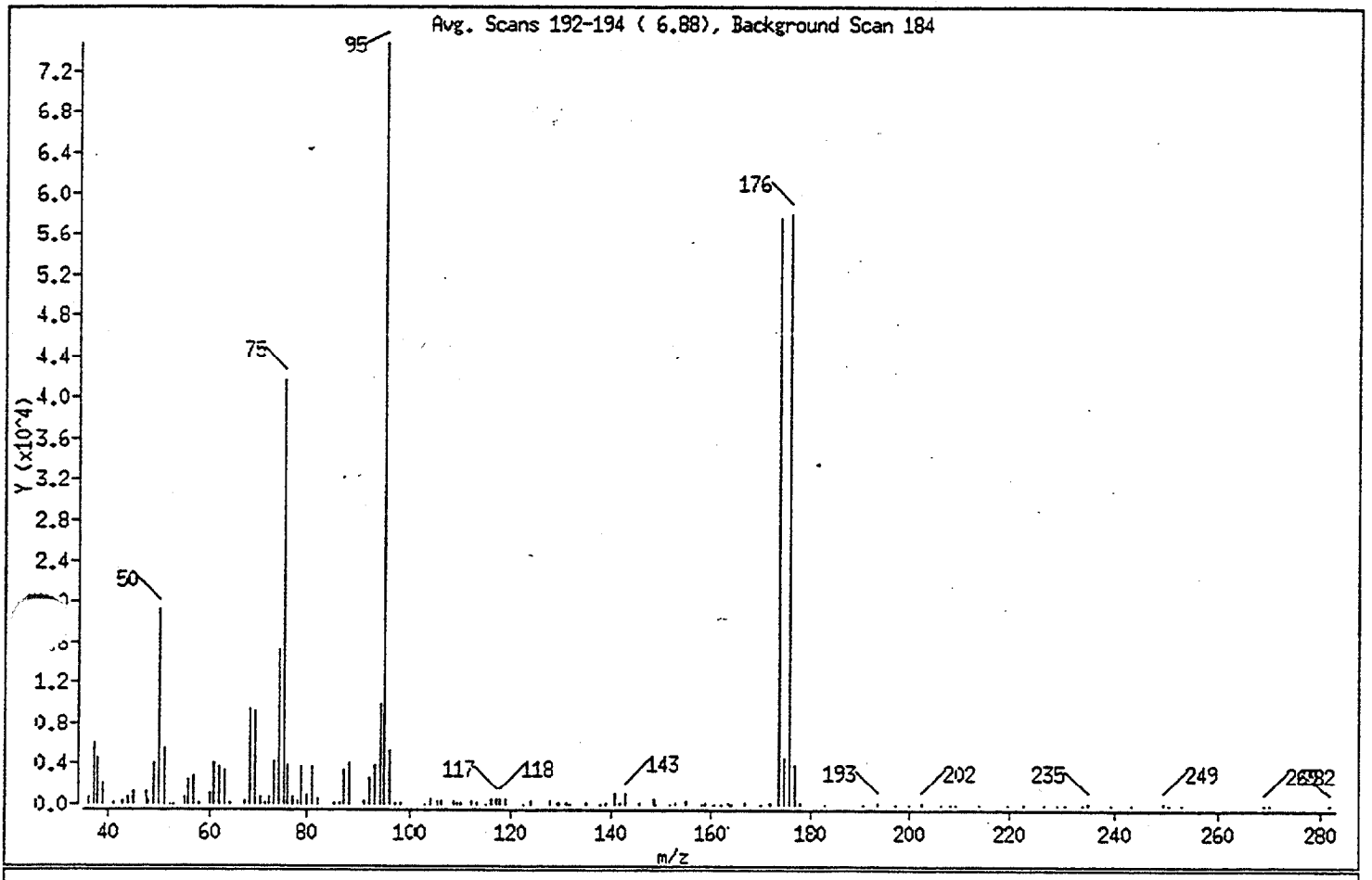
Sample Info: bfb 50ng ma2855

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.70
75	30.00 - 60.00% of mass 95	55.61
96	5.00 - 9.00% of mass 95	7.15
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	76.90
175	5.00 - 9.00% of mass 174	6.10 (7.93)
176	95.00 - 101.00% of mass 174	77.43 (100.69)
177	5.00 - 9.00% of mass 176	5.30 (6.85)

Data File: /chem/msa.i/a012396.b/a5810.d

Date : 23-JAN-96 06:19

Client ID:

Instrument: msa.i

Sample Info: bfb 50ng ma2855

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

Data File: a5810.d

Spectrum : Avg. Scans 192-194 (6.88), Background Scan 184

Largest m/z: 95.05

Number of peaks: 124

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.05	733	75.00	41600	117.90	491	175.90	57928
37.05	5954	76.00	3956	119.00	458	176.90	3967
38.05	4667	76.90	629	122.40	63	178.00	226
39.05	2047	78.00	397	124.00	341	183.10	50
41.05	108	78.90	3786	127.90	272	190.60	57
43.05	351	79.95	960	129.10	220	193.50	253
43.95	791	80.95	3749	129.80	184	196.90	54
45.05	1223	82.05	482	131.20	111	199.90	51
47.65	1296	85.05	113	131.90	63	202.20	110
48.00	394	86.25	191	135.00	143	206.25	71
49.10	3994	86.95	3397	138.00	65	208.05	59
50.10	19224	87.95	4124	138.90	157	209.05	53
51.10	5417	90.95	338	140.80	995	213.85	69
52.10	62	91.95	2642	141.90	237	219.65	55
53.00	86	92.95	3952	142.85	1053	222.75	52
55.10	742	94.05	9950	145.65	106	226.75	72
56.00	2428	95.05	74808	148.45	520	229.05	63
57.00	2822	96.05	5352	148.95	26	230.55	52
58.10	230	97.05	201	151.85	72	233.95	64
60.00	1113	97.95	116	152.95	209	234.85	93
61.00	4063	102.85	80	154.95	319	239.10	75
62.00	3756	103.85	495	158.15	57	243.20	51
63.10	3384	105.15	402	158.85	92	249.20	123
63.90	184	105.95	291	160.95	51	250.40	87
67.00	425	108.45	314	162.15	58	253.00	59
68.00	9456	109.05	209	163.65	177	269.05	75
69.00	9305	110.05	100	164.45	55	269.95	58
70.00	783	112.10	373	166.95	152	281.95	55
71.10	218	113.30	134	170.25	60		
72.00	764	114.80	32	171.95	156		
73.00	4190	116.00	453	173.85	57528		
74.00	15244	117.00	577	174.90	4565		

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

0045 EPA SAMPLE NO.

VBLK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: N1V4919V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5813

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: not dec. Date Analyzed: 01/23/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	Methyl-iso-butyl ketone	10	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethylene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0046 EPA SAMPLE NO.

VBLK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: N1V4919V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5813

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: not dec. Date Analyzed: 01/23/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

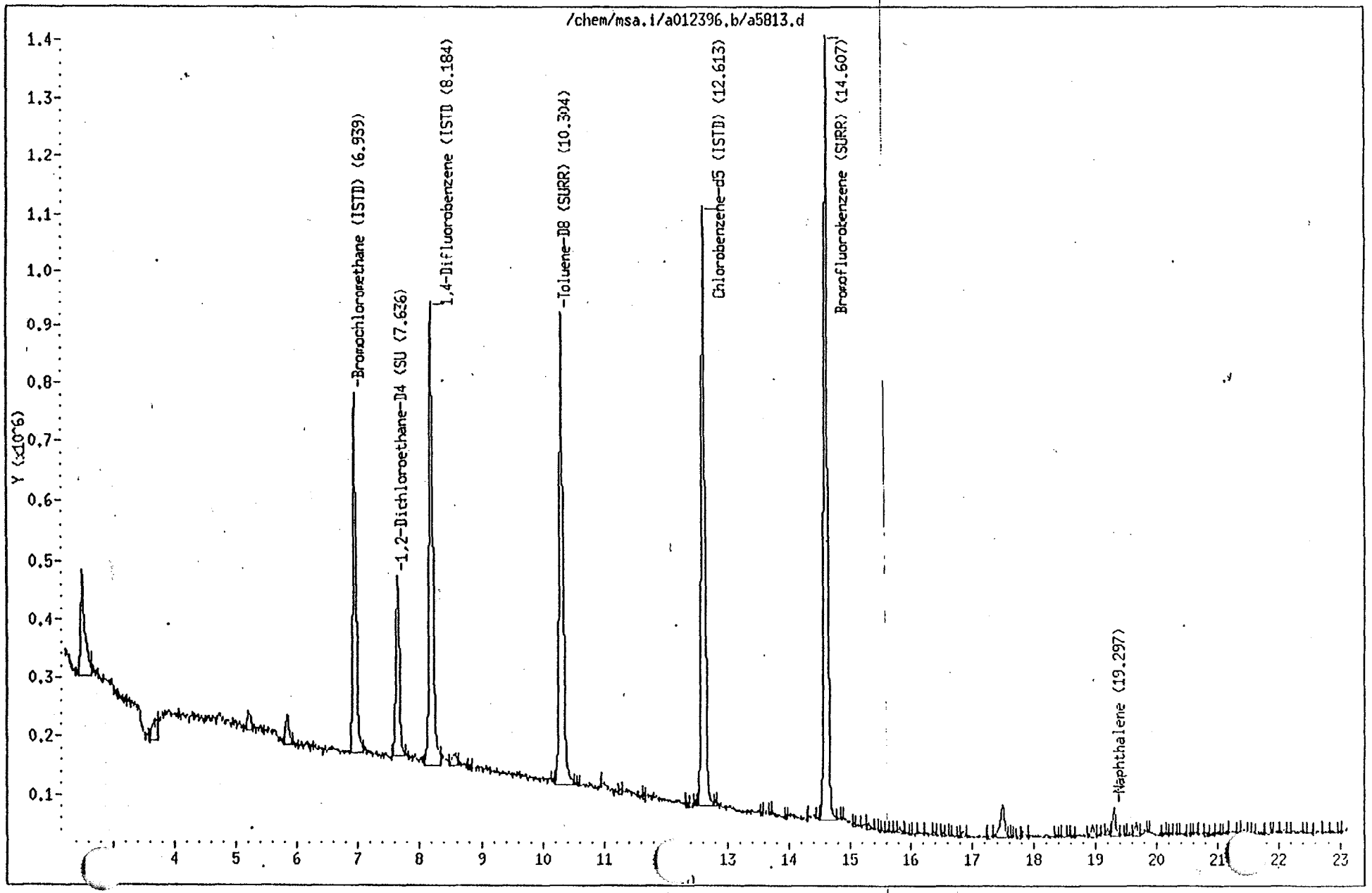
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0047

Data File: /chem/msa.i/a012396.b/a5813.d
Date : 23-JAN-96 08:17
Client ID: n1v4919 blk
Sample Info: n1v4919 blk (1)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msa.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msa.i/a012396.b/a5813.d
Report Date: 24-Jan-1996 11:22

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 + Screen

Data file : /chem/msa.i/a012396.b/a5813.d
Lab Smp Id:
Client Smp ID: n1v4919 blk
Inj Date : 23-JAN-96 08:17
Operator : jk
Inst ID: msa.i
Smp Info : n1v4919 blk (1)
Misc Info : n1v4919v,n1v4919,m2,5000,1,5.0,5.0,960123,
Comment :
Method : /chem/msa.i/a012396.b/011996_ambia.m
Meth Date : 24-Jan-1996 11:22 glenn
Quant Type: ISTD
Cal Date : 23-JAN-96 07:25
Cal File: a5812.d
Als bottle: 3
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	Bromochloromethane (ISTD)	128.00	6.939	6.976	(1.000)	288913	50.0	
$ 27	1,2-Dichloroethane-D4 (SURR)	65.00	7.636	7.695	(0.933)	456060	41.2	41.2
* 30	1,4-Difluorobenzene (ISTD)	114.00	8.184	8.249	(1.000)	1214425	50.0	
$ 38	Toluene-D8 (SURR)	98.00	10.304	10.363	(0.817)	1161480	48.1	48.1
* 47	Chlorobenzene-d5 (ISTD)	117.00	12.613	12.641	(1.000)	1148935	50.0	
$ 56	Bromofluorobenzene (SURR)	95.00	14.607	14.622	(1.158)	983400	52.0	52.0
75	Naphthalene	128.00	19.305	19.305	(1.531)	67620	2.30	2.30

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

0049 EPA SAMPLE NO.

CLJ78IW001MS

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: JP2541VS

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5819

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: not dec. _____ Date Analyzed: 01/23/96

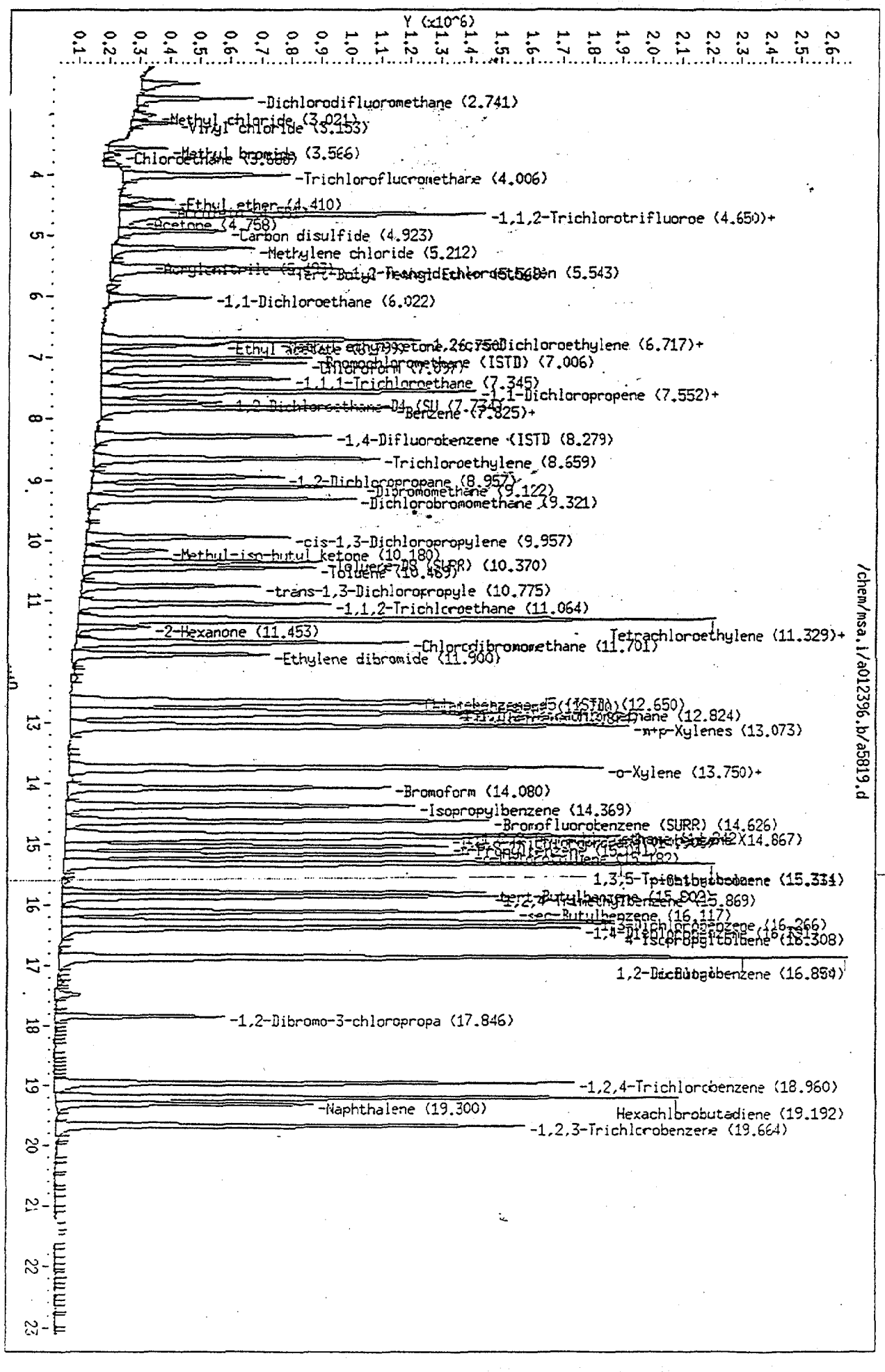
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 2500.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	120000	
74-83-9	Bromomethane	130000	
75-01-4	Vinyl Chloride	110000	
75-00-3	Chloroethane	120000	
75-09-2	Methylene Chloride	110000	
67-64-1	Acetone	110000	
75-15-0	Carbon Disulfide	110000	
75-35-4	1,1-Dichloroethene	110000	
75-34-3	1,1-Dichloroethane	110000	
540-59-0	1,2-Dichloroethene (total)	250000	
67-66-3	Chloroform	140000	
107-06-2	1,2-Dichloroethane	160000	
78-93-3	2-Butanone	160000	
71-55-6	1,1,1-Trichloroethane	150000	
56-23-5	Carbon Tetrachloride	150000	
75-27-4	Bromodichloromethane	120000	
78-87-5	1,2-Dichloropropane	130000	
10061-01-5	cis-1,3-Dichloropropene	120000	
79-01-6	Trichloroethene	130000	
124-48-1	Dibromochloromethane	120000	
79-00-5	1,1,2-Trichloroethane	120000	
71-43-2	Benzene	170000	
10061-02-6	trans-1,3-Dichloropropene	110000	
75-25-2	Bromoform	120000	
108-10-1	Methyl-iso-butyl ketone	120000	
591-78-6	2-Hexanone	120000	
127-18-4	Tetrachloroethylene	170000	
79-34-5	1,1,2,2-Tetrachloroethane	110000	
108-88-3	Toluene	120000	
108-90-7	Chlorobenzene	120000	
100-41-4	Ethylbenzene	120000	
100-42-5	Styrene	120000	
1330-20-7	Xylene (total)	370000	

Data File: /chem/msa.i/a012396.b/a5819.d
Date : 23-JAN-96 11:49
Client ID: n1v4919 mtx spk
Sample Info: 17418n clj781w001 ms 20ul/50ml (n1v4919 mtx)
Purge Volume: 1.0
Column phase: J&W DB-624

Instrument: msa.i
Operator: jk
Column diameter: 0.53



Data File: /chem/msa.i/a012396.b/a5819.d
Report Date: 24-Jan-1996 11:11

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msa.i/a012396.b/a5819.d
Lab Smp Id:
Client Smp ID: n1v4919 mtx spk
Inj Date : 23-JAN-96 11:49
Operator : jk
Inst ID: msa.i
Smp Info : 17418n clj78iw001 ms 20ul/50ml (n1v4919 mtx)
Misc Info : jp2541vs,n1v4919,m2,5000,2500,5.0,5.0,960123
Comment :
Method : /chem/msa.i/a012396.b/011996_ambia.m
Meth Date : 24-Jan-1996 11:06
Quant Type: ISTD
Cal Date : 23-JAN-96 07:25
Cal File: a5812.d
Als bottle: 7
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	1 Dichlorodifluoromethane	85.00	2.741	2.732	(0.391)	643072	45.1	45.1
	2 Methyl chloride	50.00	3.013	3.013	(0.430)	237514	46.8	46.8
	3 Vinyl chloride	62.00	3.153	3.144	(0.450)	258464	45.2	45.2
	4 Methyl bromide	94.00	3.566	3.557	(0.509)	202293	51.1	51.1
	5 Chloroethane	64.00	3.674	3.666	(0.524)	73210	47.7	47.7
	6 Trichlorofluoromethane	101.00	4.006	3.997	(0.572)	985390	46.3	46.3
	7 Ethyl ether	59.00	4.402	4.402	(0.628)	189817	44.3	44.3
	8 Acrolein	56.00	4.551	4.550	(0.650)	218128	44.2	44.2
	9 1,1,2-Trichlorotrifluoroethan	101.00	4.642	4.633	(0.663)	765373	45.3	45.3
	10 1,1-Dichloroethylene	96.00	4.650	4.641	(0.664)	320051	45.3	45.3
	11 Acetone	43.00	4.758	4.749	(0.679)	88455	45.0	45.0
	12 Carbon disulfide	76.00	4.923	4.922	(0.703)	871959	44.6	44.6
	13 Methylene chloride	84.00	5.212	5.203	(0.744)	365509	44.5	44.5
	14 Acrylonitrile	53.00	5.493	5.484	(0.784)	90759	47.2	47.2
	15 1,2-Trans-dichloroethylene	96.00	5.543	5.525	(0.791)	351597	42.0	42.0
	16 Tert-Butyl Methyl Ether	73.00	5.568	5.558	(0.795)	762865	41.4	41.4
	17 1,1-Dichloroethane	63.00	6.022	6.004	(0.860)	644793	44.1	44.1
	18 1,2-cis-Dichloroethylene	96.00	6.717	6.665	(0.959)	459723	56.4	56.4
	19 2,2-Dichloropropane	77.00	6.717	6.665	(0.959)	609884	53.1	53.1
	20 Methyl ethyl ketone	72.00	6.750	6.699	(0.814)	40446	62.5	62.5(Q)
	21 Ethyl acetate	43.00	6.799	6.748	(0.971)	974969	54.2	54.2
	22 Bromochloromethane (ISTD)	128.00	7.006	6.976	(1.000)	337377	50.0	
	23 Chloroform	83.00	7.097	7.030	(1.013)	998254	54.4	54.4
	24 1,1,1-Trichloroethane	97.00	7.353	7.271	(0.887)	937022	61.9	61.9
	1,1-Dichloropropene	75.00	7.552	7.470	(0.911)	589210	62.3	62.3
	Carbon tetrachloride	117.00	7.560	7.487	(0.912)	952453	59.8	59.8
S	27 1,2-Dichloroethane-D4 (SURR)	65.00	7.734	7.696	(0.933)	541558	48.5	48.5
	28 Benzene	78.00	7.816	7.736	(0.943)	924350	68.1	68.1
	29 1,2-Dichloroethane	62.00	7.833	7.736	(1.113)	659790	62.0	62.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
*	30 1,4-Difluorobenzene (ISTD)	114.00	8.287	8.249	(1.000)	1225126	50.0	
	31 Trichloroethylene	130.00	8.659	8.580	(1.045)	630988	51.6	51.6
	32 1,2-Dichloropropane	63.00	8.957	8.894	(1.081)	495978	50.4	50.4
	33 Dibromomethane	93.00	9.122	9.059	(1.101)	665977	48.3	48.3
	34 Dichlorobromomethane	83.00	9.329	9.266	(1.126)	1126442	49.2	49.2
	36 cis-1,3-Dichloropropylene	75.00	9.957	9.910	(1.201)	754311	47.7	47.7
	37 Methyl-iso-butyl ketone	43.00	10.188	10.149	(0.805)	485558	48.2	48.2
$	38 Toluene-D8 (SURR)	98.00	10.370	10.363	(0.820)	1123202	50.1	50.1
	39 Toluene	91.00	10.469	10.430	(0.828)	1145192	48.5	48.5
	40 trans-1,3-Dichloropropylene	75.00	10.775	10.736	(1.300)	618258	44.2	44.2
	41 1,1,2-Trichloroethane	97.00	11.064	11.034	(1.335)	516755	47.0	47.0
	42 Tetrachloroethylene	164.00	11.329	11.298	(0.896)	772093	66.9	66.9
	43 1,3-Dichloropropane	76.00	11.329	11.307	(0.896)	717129	49.6	49.6
	44 2-Hexanone	43.00	11.453	11.439	(0.905)	357205	47.9	47.9
	45 Chlorodibromomethane	129.00	11.701	11.679	(1.412)	1206980	46.3	46.3
	46 Ethylene dibromide	107.00	11.900	11.869	(0.941)	887322	48.1	48.1
*	47 Chlorobenzene-d5 (ISTD)	117.00	12.650	12.641	(1.000)	1066826	50.0	
	48 Chlorobenzene	112.00	12.700	12.678	(1.004)	1053543	49.9	49.9
	49 1,1,1,2-Tetrachloroethane	133.00	12.824	12.810	(1.014)	672724	50.4	50.4
	50 Ethylbenzene	106.00	12.874	12.852	(1.018)	455627	49.8	49.8
	m+p-Xylenes	106.00	13.073	13.051	(1.033)	1042574	97.0	97.0
	o-Xylene	106.00	13.741	13.728	(1.086)	532738	50.4	50.4
	53 Styrene	104.00	13.758	13.744	(1.088)	940916	48.8	48.8
	54 Bromoform	173.00	14.080	14.067	(1.699)	1011769	46.2	46.2
	55 Isopropylbenzene	105.00	14.378	14.356	(1.137)	1683191	49.8	49.8
$	56 Bromofluorobenzene (SURR)	95.00	14.626	14.622	(1.156)	955451	54.4	54.4
	57 1,1,2,2-Tetrachloroethane	83.00	14.842	14.828	(1.173)	833444	42.3	42.3
	58 1,2,3-Trichloropropane	75.00	14.908	14.894	(1.178)	729498	48.7	48.7
	59 Bromobenzene	156.00	14.867	14.861	(1.175)	706210	50.0	50.0
	60 n-Propylbenzene	91.00	15.041	15.035	(1.189)	2119733	51.1	51.1
	61 o-Chlorotoluene	91.00	15.182	15.168	(1.200)	1506387	52.2	52.2
	62 1,3,5-Trimethylbenzene	105.00	15.314	15.309	(1.211)	1439413	50.7	50.7
	63 p-Chlorotoluene	91.00	15.339	15.334	(1.213)	1629597	50.4	50.4
	64 tert-Butylbenzene	119.00	15.794	15.789	(1.249)	1498821	49.2	49.2
	65 1,2,4-Trimethylbenzene	105.00	15.869	15.863	(1.254)	1518801	52.0	52.0
	66 sec-Butylbenzene	105.00	16.117	16.111	(1.274)	2056603	50.6	50.6
	67 4-Isopropyltoluene	119.00	16.316	16.310	(1.290)	1671577	49.6	49.6
	68 1,3-Dichlorobenzene	146.00	16.266	16.261	(1.286)	1102966	49.5	49.5
	69 1,4-Dichlorobenzene	146.00	16.391	16.385	(1.296)	1163405	49.9	49.9
	70 n-Butylbenzene	91.00	16.854	16.849	(1.332)	1686497	50.2	50.2
	71 1,2-Dichlorobenzene	146.00	16.879	16.874	(1.334)	1071334	50.2	50.2
	72 1,2-Dibromo-3-chloropropane	75.00	17.846	17.849	(1.411)	249175	40.4	40.4
	73 1,2,4-Trichlorobenzene	180.00	18.960	18.964	(1.499)	994178	48.8	48.8
	74 Hexachlorobutadiene	225.00	19.200	19.196	(1.518)	846379	48.4	48.4
	75 Naphthalene	128.00	19.309	19.305	(1.526)	1198901	43.9	43.9
	,2,3-Trichlorobenzene	180.00	19.673	19.669	(1.555)	951029	48.7	48.7

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

0053 EPA SAMPLE NO.

CLJ78IW001MSD

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: JP2541VR

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5820

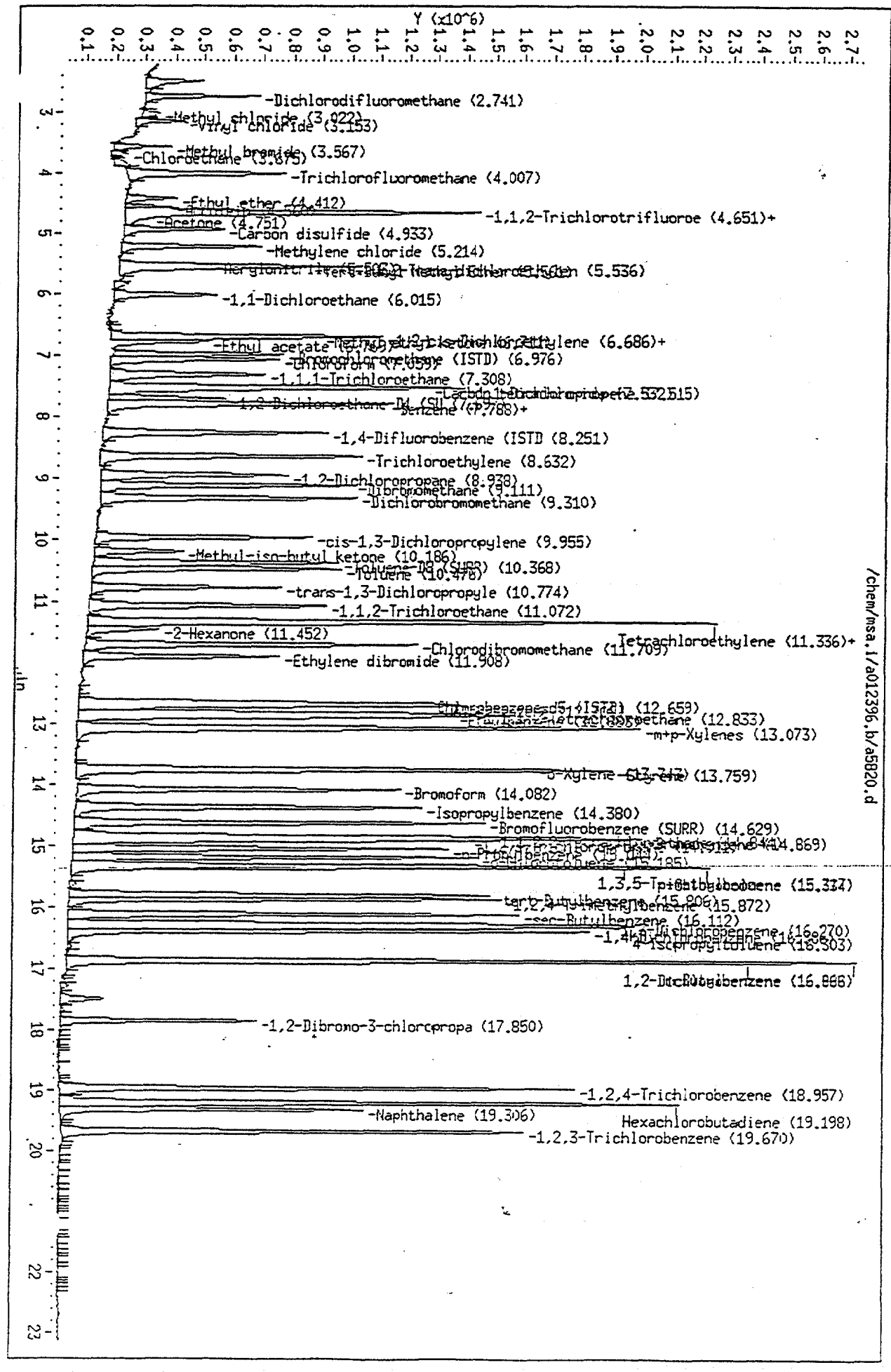
Level: (low/med) LOW Date Received: 01/19/96

% Moisture: not dec. Date Analyzed: 01/23/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 2500.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	140000	
74-83-9	Bromomethane	150000	
75-01-4	Vinyl Chloride	140000	
75-00-3	Chloroethane	150000	
75-09-2	Methylene Chloride	130000	
67-64-1	Acetone	140000	
75-15-0	Carbon Disulfide	140000	
75-35-4	1,1-Dichloroethene	140000	
75-34-3	1,1-Dichloroethane	130000	
540-59-0	1,2-Dichloroethene (total)	280000	
67-66-3	Chloroform	140000	
107-06-2	1,2-Dichloroethane	190000	
78-93-3	2-Butanone	140000	
71-55-6	1,1,1-Trichloroethane	140000	
56-23-5	Carbon Tetrachloride	150000	
75-27-4	Bromodichloromethane	130000	
78-87-5	1,2-Dichloropropane	130000	
10061-01-5	cis-1,3-Dichloropropene	130000	
79-01-6	Trichloroethene	120000	
124-48-1	Dibromochloromethane	120000	
79-00-5	1,1,2-Trichloroethane	120000	
71-43-2	Benzene	180000	
10061-02-6	trans-1,3-Dichloropropene	120000	
75-25-2	Bromoform	120000	
108-10-1	Methyl-iso-butyl ketone	130000	
591-78-6	2-Hexanone	130000	
127-18-4	Tetrachloroethylene	170000	
79-34-5	1,1,2,2-Tetrachloroethane	120000	
108-88-3	Toluene	130000	
108-90-7	Chlorobenzene	130000	
100-41-4	Ethylbenzene	130000	
100-42-5	Styrene	130000	
1330-20-7	Xylene (total)	380000	



Data File: /chem/msa.i/a012396.b/a5820.d
Date : 23-JAN-96 12:24
Client ID: n1v4919 mtx dup
Sample Info: 17418n clj78lw001 msd 20ul/50ml (n1v4919 msd)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msa.i
Operator: jk
Column diameter: 0.53

Data File: /chem/msa.i/a012396.b/a5820.d
Report Date: 24-Jan-1996 11:11

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msa.i/a012396.b/a5820.d
Lab Smp Id:
Client Smp ID: n1v4919 mtx dup
Inj Date : 23-JAN-96 12:24
Operator : jk
Inst ID: msa.i
Smp Info : 17418n clj78iw001 msd 20ul/50ml (n1v4919 msd)
Misc Info : jp2541vr,n1v4919,m2,5000,2500,5.0,5.0,960123
Comment :
Method : /chem/msa.i/a012396.b/011996_ambia.m
Meth Date : 24-Jan-1996 11:06
Quant Type: ISTD
Cal Date : 23-JAN-96 07:25
Cal File: a5812.d
Als bottle: 9
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 3.10

1/24/96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
1	Dichlorodifluoromethane	85.00	2.741	2.732	(0.393)	632021	52.8	52.8
2	Methyl chloride	50.00	3.013	3.013	(0.432)	238838	56.2	56.2
3	Vinyl chloride	62.00	3.153	3.144	(0.452)	264855	55.2	55.2
4	Methyl bromide	94.00	3.567	3.557	(0.511)	195779	59.0	59.0
5	Chloroethane	64.00	3.675	3.666	(0.527)	75579	58.8	58.8
6	Trichlorofluoromethane	101.00	3.999	3.997	(0.573)	982217	55.1	55.1
7	Ethyl ether	59.00	4.420	4.402	(0.634)	184765	51.4	51.4
8	Acrolein	56.00	4.552	4.550	(0.653)	213659	51.7	51.7
9	1,1,2-Trichlorotrifluoroethan	101.00	4.651	4.633	(0.667)	760855	53.7	53.7
10	1,1-Dichloroethylene	96.00	4.651	4.641	(0.667)	320013	54.0	54.0
11	Acetone	43.00	4.751	4.749	(0.681)	89249	54.2	54.2
12	Carbon disulfide	76.00	4.933	4.922	(0.707)	891814	54.4	54.4
13	Methylene chloride	84.00	5.214	5.203	(0.747)	366621	53.2	53.2
14	Acrylonitrile	53.00	5.503	5.484	(0.789)	89168	55.4	55.4
15	1,2-Trans-dichloroethylene	96.00	5.528	5.525	(0.792)	369660	52.7	52.7
16	Tert-Butyl Methyl Ether	73.00	5.561	5.558	(0.797)	822207	53.2	53.2
17	1,1-Dichloroethane	63.00	6.015	6.004	(0.862)	655528	53.4	53.4
18	1,2-cis-Dichloroethylene	96.00	6.686	6.665	(0.958)	402280	58.9	58.9
19	2,2-Dichloropropane	77.00	6.686	6.665	(0.958)	536617	55.7	55.7
20	Methyl ethyl ketone	72.00	6.711	6.699	(0.813)	35995	57.1	57.1(Q)
21	Ethyl acetate	43.00	6.769	6.748	(0.970)	792920	52.6	52.6
22	Bromochloromethane (ISTD)	128.00	6.976	6.976	(1.000)	282909	50.0	
23	Chloroform	83.00	7.067	7.030	(1.013)	832073	54.0	54.0
24	1,1,1-Trichloroethane	97.00	7.308	7.271	(0.886)	798408	54.1	54.1
	1,1-Dichloropropene	75.00	7.515	7.470	(0.911)	593226	64.4	64.4
	Carbon tetrachloride	117.00	7.532	7.487	(0.913)	934239	60.1	60.1
$ 27	1,2-Dichloroethane-D4 (SURR)	65.00	7.697	7.696	(0.933)	589426	54.2	54.2
28	Benzene	78.00	7.780	7.736	(0.943)	928589	70.2	70.2
29	1,2-Dichloroethane	62.00	7.796	7.735	(1.113)	662507	74.2	74.2

Data File: /chem/msa.i/a012396.b/a5820.d
Report Date: 24-Jan-1996 11:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
*	30 1,4-Difluorobenzene (ISTD)	114.00	8.251	8.249	(1.000)	1194467	50.0	
	31 Trichloroethylene	130.00	8.632	8.580	(1.046)	587140	49.3	49.3
	32 1,2-Dichloropropane	63.00	8.938	8.894	(1.083)	496820	51.8	51.8
	33 Dibromomethane	93.00	9.111	9.059	(1.104)	675435	50.2	50.2
	34 Dichlorobromomethane	83.00	9.310	9.266	(1.128)	1130927	50.7	50.7
	36 cis-1,3-Dichloropropylene	75.00	9.955	9.910	(1.206)	816090	52.9	52.9
	37 Methyl-iso-butyl ketone	43.00	10.186	10.149	(0.805)	546615	53.8	53.8
$	38 Toluene-D8 (SURR)	98.00	10.368	10.363	(0.819)	1187664	52.5	52.5
	39 Toluene	91.00	10.476	10.430	(0.828)	1246619	52.3	52.3
	40 trans-1,3-Dichloropropylene	75.00	10.774	10.736	(1.306)	672133	49.3	49.3
	41 1,1,2-Trichloroethane	97.00	11.063	11.034	(1.341)	528158	49.3	49.3
	42 Tetrachloroethylene	164.00	11.336	11.298	(0.896)	771354	66.2	66.2
	43 1,3-Dichloropropane	76.00	11.336	11.307	(0.896)	743588	50.9	50.9
	44 2-Hexanone	43.00	11.452	11.439	(0.905)	382328	50.8	50.8
	45 Chlorodibromomethane	129.00	11.709	11.679	(1.419)	1262587	49.7	49.7
	46 Ethylene dibromide	107.00	11.899	11.869	(0.940)	946727	50.9	50.9
*	47 Chlorobenzene-d5 (ISTD)	117.00	12.659	12.641	(1.000)	1076346	50.0	
	48 Chlorobenzene	112.00	12.709	12.678	(1.004)	1091828	51.2	51.2
	49 1,1,1,2-Tetrachloroethane	133.00	12.833	12.810	(1.014)	701486	52.1	52.1
	50 Ethylbenzene	106.00	12.883	12.852	(1.018)	478599	51.8	51.8
	m+p-Xylenes	106.00	13.073	13.051	(1.033)	1108550	102	102
	o-Xylene	106.00	13.743	13.728	(1.086)	548866	51.4	51.4
	53 Styrene	104.00	13.768	13.744	(1.089)	987345	50.7	50.7
	54 Bromoform	173.00	14.082	14.067	(1.707)	1044507	49.0	49.0
	55 Isopropylbenzene	105.00	14.380	14.356	(1.136)	1729933	50.8	50.8
$	56 Bromofluorobenzene (SURR)	95.00	14.637	14.622	(1.156)	958032	54.1	54.1
	57 1,1,2,2-Tetrachloroethane	83.00	14.844	14.828	(1.173)	989159	49.8	49.8
	58 1,2,3-Trichloropropane	75.00	14.911	14.894	(1.178)	773283	51.2	51.2
	59 Bromobenzene	156.00	14.878	14.861	(1.175)	710753	49.9	49.9
	60 n-Propylbenzene	91.00	15.044	15.035	(1.188)	2153620	51.4	51.4
	61 o-Chlorotoluene	91.00	15.185	15.168	(1.200)	1521153	52.2	52.2
	62 1,3,5-Trimethylbenzene	105.00	15.317	15.309	(1.210)	1461238	51.0	51.0
	63 p-Chlorotoluene	91.00	15.342	15.334	(1.212)	1686245	51.7	51.7
	64 tert-Butylbenzene	119.00	15.806	15.789	(1.249)	1530970	49.8	49.8
	65 1,2,4-Trimethylbenzene	105.00	15.872	15.863	(1.254)	1546983	52.5	52.5
	66 sec-Butylbenzene	105.00	16.112	16.111	(1.273)	2079586	50.7	50.7
	67 4-Isopropyltoluene	119.00	16.311	16.310	(1.288)	1702343	50.1	50.1
	68 1,3-Dichlorobenzene	146.00	16.270	16.261	(1.285)	1106695	49.3	49.3
	69 1,4-Dichlorobenzene	146.00	16.395	16.385	(1.295)	1184570	50.3	50.3
	70 n-Butylbenzene	91.00	16.858	16.849	(1.332)	1743491	51.4	51.4
	71 1,2-Dichlorobenzene	146.00	16.883	16.874	(1.334)	1092286	50.7	50.7
	72 1,2-Dibromo-3-chloropropane	75.00	17.842	17.849	(1.409)	294690	47.4	47.4
	73 1,2,4-Trichlorobenzene	180.00	18.957	18.964	(1.497)	978925	47.7	47.7
	74 Hexachlorobutadiene	225.00	19.198	19.196	(1.516)	857965	48.6	48.6
	75 Naphthalene	128.00	19.305	19.305	(1.525)	1420714	51.6	51.6
	',2,3-Trichlorobenzene	180.00	19.670	19.669	(1.554)	967724	49.2	49.2

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

0057 EPA SAMPLE NO.

VSPK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: N1V4919VS

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: A5814

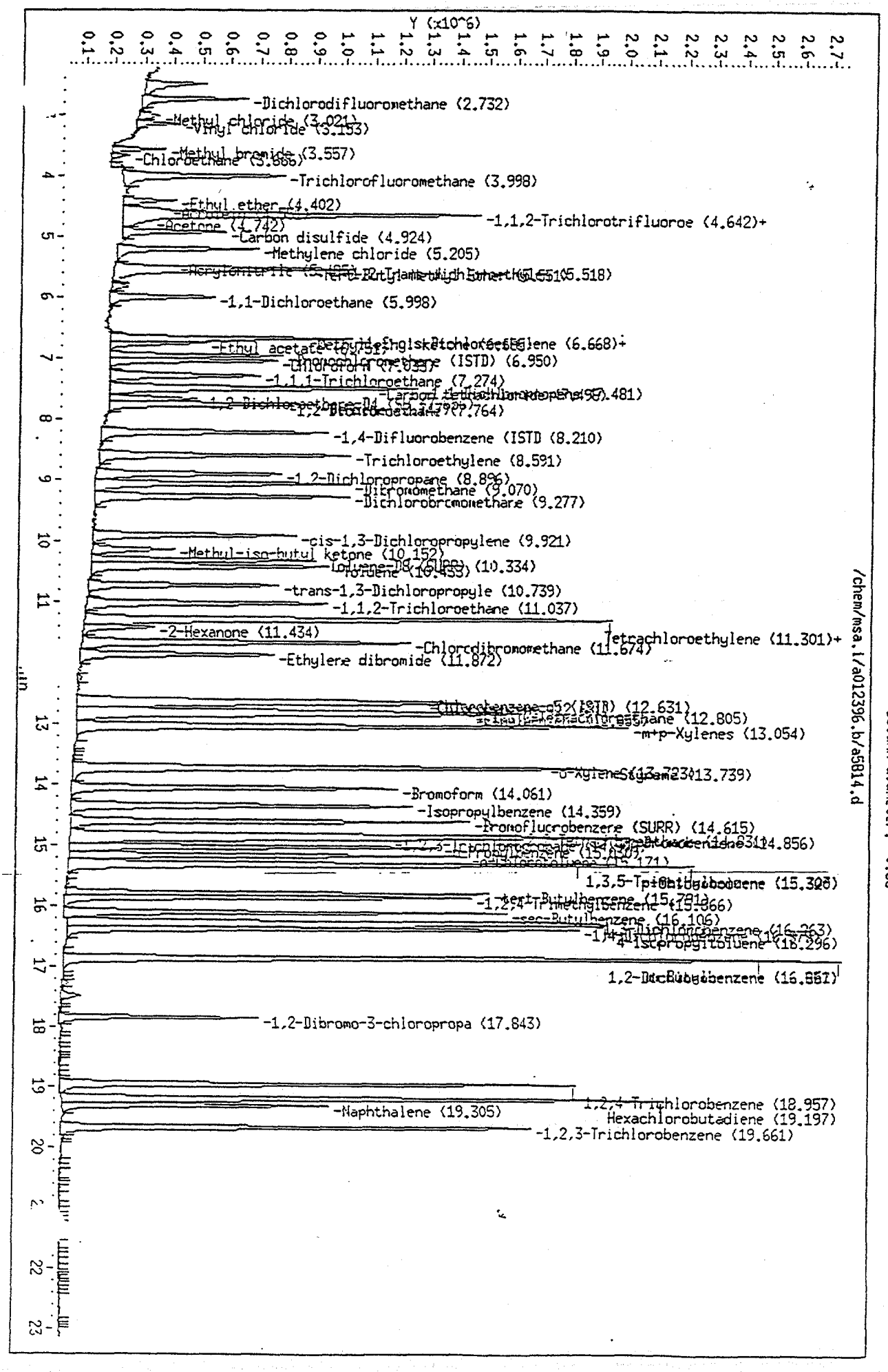
Level: (low/med) LOW Date Received: 01/19/96

% Moisture: not dec. Date Analyzed: 01/23/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	55	
74-83-9	Bromomethane	59	
75-01-4	Vinyl Chloride	57	
75-00-3	Chloroethane	57	
75-09-2	Methylene Chloride	52	
67-64-1	Acetone	61	
75-15-0	Carbon Disulfide	53	
75-35-4	1,1-Dichloroethene	54	
75-34-3	1,1-Dichloroethane	53	
540-59-0	1,2-Dichloroethene (total)	110	
67-66-3	Chloroform	55	
107-06-2	1,2-Dichloroethane	59	
78-93-3	2-Butanone	60	
71-55-6	1,1,1-Trichloroethane	51	
56-23-5	Carbon Tetrachloride	51	
75-27-4	Bromodichloromethane	51	
78-87-5	~~1,2-~~Dichloropropane	52	
10061-01-5	cis-1,3-Dichloropropene	50	
79-01-6	Trichloroethene	49	
124-48-1	Dibromochloromethane	50	
79-00-5	1,1,2-Trichloroethane	50	
71-43-2	Benzene	53	
10061-02-6	trans-1,3-Dichloropropene	50	
75-25-2	Bromoform	49	
108-10-1	Methyl-iso-butyl ketone	50	
591-78-6	2-Hexanone	52	
127-18-4	Tetrachloroethylene	51	
79-34-5	1,1,2,2-Tetrachloroethane	48	
108-88-3	Toluene	51	
108-90-7	Chlorobenzene	51	
100-41-4	Ethylbenzene	51	
100-42-5	Styrene	51	
1330-20-7	Xylene (total)	150	



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Date : 23-JAN-96 08:52
Client ID: n1v4919 blk spk
Sample Info: n1v4919 blk spk (2)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msa.i
Operator: jk
Column diameter: 0.53

Data File: /chem/msa.i/a012396.b/a5814.d
Report Date: 24-Jan-1996 11:11

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msa.i/a012396.b/a5814.d
Lab Smp Id:
Client Smp ID: n1v4919 blk spk
Inj Date : 23-JAN-96 08:52
Operator : jk
Inst ID: msa.i
Smp Info : n1v4919 blk spk (2)
Misc Info : n1v4919vs,n1v4919,m2,5000,1,5.0,5.0,960123,
Comment :
Method : /chem/msa.i/a012396.b/011996_ambia.m
Meth Date : 24-Jan-1996 11:06
Quant Type: ISTD
Cal Date : 23-JAN-96 07:25
Cal File: a5812.d
Als bottle: 4
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	Dichlorodifluoromethane	85.00	2.732	2.732	(0.393)	680663	54.9	54.9
2	Methyl chloride	50.00	3.021	3.013	(0.435)	243209	55.2	55.2
3	Vinyl chloride	62.00	3.153	3.144	(0.454)	280723	56.5	56.5
4	Methyl bromide	94.00	3.557	3.557	(0.512)	203305	59.2	59.2
5	Chloroethane	64.00	3.674	3.666	(0.529)	76307	57.3	57.3
6	Trichlorofluoromethane	101.00	3.998	3.997	(0.575)	1027799	55.6	55.6
7	Ethyl ether	59.00	4.402	4.402	(0.633)	194386	52.2	52.2
8	Acrolein	56.00	4.551	4.550	(0.655)	217684	50.8	50.8
9	1,1,2-Trichlorotrifluoroethan	101.00	4.634	4.633	(0.667)	804671	54.8	54.8
10	1,1-Dichloroethylene	96.00	4.642	4.641	(0.668)	330179	53.9	53.9
11	Acetone	43.00	4.742	4.749	(0.682)	103373	60.6	60.6
12	Carbon disulfide	76.00	4.915	4.922	(0.707)	905065	53.3	53.3
13	Methylene chloride	84.00	5.205	5.203	(0.749)	367580	51.6	51.6
14	Acrylonitrile	53.00	5.485	5.484	(0.789)	84316	50.6	50.6
15	1,2-Trans-dichloroethylene	96.00	5.518	5.525	(0.794)	383717	52.8	52.8
16	Tert-Butyl Methyl Ether	73.00	5.551	5.558	(0.799)	854744	53.5	53.5
17	1,1-Dichloroethane	63.00	5.998	6.004	(0.863)	679182	53.4	53.4
18	1,2-cis-Dichloroethylene	96.00	6.668	6.665	(0.959)	369435	52.2	52.2
19	2,2-Dichloropropane	77.00	6.668	6.665	(0.959)	494311	49.6	49.6
20	Methyl ethyl ketone	72.00	6.685	6.699	(0.814)	39289	60.0	60.0(Q)
21	Ethyl acetate	43.00	6.751	6.748	(0.971)	826182	52.9	52.9
* 22	Bromochloromethane (ISTD)	128.00	6.950	6.976	(1.000)	292930	50.0	
23	Chloroform	83.00	7.033	7.030	(1.012)	872267	54.7	54.7
24	1,1,1-Trichloroethane	97.00	7.274	7.271	(0.886)	780918	51.0	51.0
	1,1-Dichloropropene	75.00	7.473	7.470	(0.910)	490556	51.3	51.3
	Carbon tetrachloride	117.00	7.498	7.487	(0.913)	824171	51.1	51.1
S 27	1,2-Dichloroethane-D4 (SURR)	65.00	7.656	7.696	(0.932)	476397	42.2	42.2
28	Benzene	78.00	7.739	7.736	(0.943)	729028	53.1	53.1
29	1,2-Dichloroethane	62.00	7.764	7.736	(1.117)	546781	59.1	59.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	30 1,4-Difluorobenzene (ISTD)	114.00	8.210	8.249	(1.000)	1239537	50.0	
	31 Trichloroethylene	130.00	8.599	8.580	(1.047)	600252	48.5	48.5
	32 1,2-Dichloropropane	63.00	8.896	8.894	(1.084)	513641	51.6	51.6
	33 Dibromomethane	93.00	9.070	9.059	(1.105)	697729	50.0	50.0
	34 Dichlorobromomethane	83.00	9.277	9.266	(1.130)	1176879	50.8	50.8
	36 cis-1,3-Dichloropropylene	75.00	9.921	9.910	(1.208)	795349	49.7	49.7
	37 Methyl-iso-butyl ketone	43.00	10.152	10.149	(0.804)	528594	50.3	50.3
$	38 Toluene-D8 (SURR)	98.00	10.334	10.363	(0.818)	1138473	48.6	48.6
	39 Toluene	91.00	10.433	10.430	(0.826)	1263019	51.2	51.2
	40 trans-1,3-Dichloropropylene	75.00	10.739	10.736	(1.308)	701297	49.5	49.5
	41 1,1,2-Trichloroethane	97.00	11.037	11.034	(1.344)	553589	49.8	49.8
	42 Tetrachloroethylene	164.00	11.301	11.298	(0.895)	618215	51.3	51.3
	43 1,3-Dichloropropane	76.00	11.301	11.307	(0.895)	769790	51.0	51.0
	44 2-Hexanone	43.00	11.434	11.439	(0.905)	402363	51.7	51.7
	45 Chlorodibromomethane	129.00	11.682	11.679	(1.423)	1309945	49.7	49.7
	46 Ethylene dibromide	107.00	11.872	11.869	(0.940)	977154	50.8	50.8
*	47 Chlorobenzene-d5 (ISTD)	117.00	12.631	12.641	(1.000)	1113713	50.0	
	48 Chlorobenzene	112.00	12.681	12.678	(1.004)	1114893	50.6	50.6
	49 1,1,1,2-Tetrachloroethane	133.00	12.805	12.810	(1.014)	715441	51.4	51.4
	50 Ethylbenzene	106.00	12.855	12.852	(1.018)	491135	51.4	51.4
	m+p-Xylenes	106.00	13.054	13.051	(1.033)	1118280	99.6	99.6
	o-Xylene	106.00	13.723	13.728	(1.086)	577886	52.3	52.3
	53 Styrene	104.00	13.747	13.744	(1.088)	1018436	50.6	50.6
	54 Bromoform	173.00	14.061	14.067	(1.713)	1088407	49.2	49.2
	55 Isopropylbenzene	105.00	14.359	14.356	(1.137)	1742021	49.4	49.4
$	56 Bromofluorobenzene (SURR)	95.00	14.607	14.622	(1.156)	953122	52.0	52.0
	57 1,1,2,2-Tetrachloroethane	83.00	14.831	14.828	(1.174)	989018	48.1	48.1
	58 1,2,3-Trichloropropane	75.00	14.906	14.894	(1.180)	771737	49.4	49.4
	59 Bromobenzene	156.00	14.864	14.861	(1.177)	732437	49.7	49.7
	60 n-Propylbenzene	91.00	15.030	15.035	(1.190)	2165270	50.0	50.0
	61 o-Chlorotoluene	91.00	15.171	15.168	(1.201)	1523695	50.6	50.6
	62 1,3,5-Trimethylbenzene	105.00	15.303	15.309	(1.212)	1465017	49.4	49.4
	63 p-Chlorotoluene	91.00	15.328	15.334	(1.214)	1683380	49.9	49.9
	64 tert-Butylbenzene	119.00	15.791	15.789	(1.250)	1540866	48.4	48.4
	65 1,2,4-Trimethylbenzene	105.00	15.866	15.863	(1.256)	1518617	49.8	49.8
	66 sec-Butylbenzene	105.00	16.106	16.111	(1.275)	2082369	49.0	49.0
	67 4-Isopropyltoluene	119.00	16.305	16.310	(1.291)	1719169	48.9	48.9
	68 1,3-Dichlorobenzene	146.00	16.263	16.261	(1.288)	1140896	49.1	49.1
	69 1,4-Dichlorobenzene	146.00	16.379	16.385	(1.297)	1192682	49.0	49.0
	70 n-Butylbenzene	91.00	16.851	16.849	(1.334)	1741964	49.6	49.6
	71 1,2-Dichlorobenzene	146.00	16.876	16.874	(1.336)	1109423	49.8	49.8
	72 1,2-Dibromo-3-chloropropane	75.00	17.843	17.849	(1.413)	303330	47.2	47.2
	73 1,2,4-Trichlorobenzene	180.00	18.957	18.964	(1.501)	1021060	48.0	48.0
	74 Hexachlorobutadiene	225.00	19.197	19.196	(1.520)	847945	46.4	46.4
	75 Naphthalene	128.00	19.305	19.305	(1.528)	1366364	48.0	48.0
	1,2,3-Trichlorobenzene	180.00	19.670	19.669	(1.557)	1013470	49.8	49.8

ORGANICS

Semi-volatile Organics by GC/MS

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLK01	75	77	82	62	71	77			0
02	SSPK01	79	77	79	60	74	88			0
03	~~CLJ78RB001~~	~~68~~	~~72~~	~~79~~	~~62~~	~~67~~	~~88~~			0
04	CLJ78FB001	70	71	82	46	61	83			0
05	CLJ78IW001	0 D	0 D	0 D	0 D	0 D	0 D			0

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 2-Chlorophenol-d4		(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4		(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring compound diluted out

3D

WATER SEMIVOLATILE BLANK SPIKE RECOVERY

0063

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix Spike - EPA Sample No.: SSPK01

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
Phenol	150	0	88	59	12-110
2-Chlorophenol	150	0	96	64	27-123
1,4-Dichlorobenzene	100	0	49	49	36- 97
N-Nitroso-di-n-propylami	100	0	75	75	41-116
1,2,4-Trichlorobenzene	100	0	55	55	39- 98
4-Chloro-3-methylphenol	150	0	110	73	23- 97
Acenaphthene	100	0	65	65	46-118
4-Nitrophenol	150	0	100	67	10- 80
2,4-Dinitrotoluene	100	0	82	82	24- 96
Pentachlorophenol	150	0	140	93	9-103
Pyrene	100	0	82	82	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

0064 EPA SAMPLE NO.

SBLK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Lab File ID: B9542 Lab Sample ID: N1C60123C

Instrument ID: SB Date Extracted: 01/19/96

Matrix: (soil/water) WATER Date Analyzed: 01/20/96

Level: (low/med) LOW Time Analyzed: 14:47

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	~~CLJ78RB001~~	~~JP2497C~~	~~B9544~~	~~01/20/96~~
02	~~CLJ78RB001~~	~~JP2497C~~	~~B9556~~	~~01/22/96~~
03	CLJ78FB001	JP2542C	B9545	01/20/96
04	CLJ78IW001	JP2541C	B9559	01/22/96
05	SSPK01	N1C60123CS	B9543	01/20/96

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

0065

Lab Name: OHM Analytical Div. Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001 ~~SLJ78IW001A~~

Lab File ID: 69399 DFTPP Injection Date: 01-12-96

Instrument ID: ms6.i DFTPP Injection Time: 1532

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	49.59
68	Less than 2.0% of mass 69	0.00 (0.00) 1
69	Mass 69 relative abundance	64.24
70	Less than 2.0% of mass 69	0.34 (0.52) 1
127	25.0 - 75.0% of mass 198	42.73
197	Less than 1.0% of mass 198	0.00
198	Base Peak, 100% relative abundance	100.00
199	5.0 to 9.0% of mass 198	7.63
275	10.0 - 30.0% of mass 198	15.94
365	Greater than 0.75% of mass 198	1.61
441	Present, but less than mass 443	7.99
442	40.0 - 110.0% of mass 198	52.47
443	15.0 - 24.0% of mass 442	10.78 (20.55) 2

1-Value is % mass 69 2-Value is % mass 442

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	SSTD020	SSTD020	b9401a	01-12-96	1640
02	SSTD050	SSTD050	b9402a	01-12-96	1726
03	SSTD080	SSTD080	b9403a	01-12-96	1811
04	SSTD120	SSTD120	b9404a	01-12-96	1857
05	SSTD160	SSTD160	b9405a	01-12-96	1942
06					
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

0066

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78I

Lab File ID: b9536 DFTPP Injection Date: 01-20-96

Instrument ID: MSb.i DFTPP Injection Time: 1033

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	53.23
68	Less than 2.0% of mass 69	0.00 (0.00) 1
69	Mass 69 relative abundance	64.06
70	Less than 2.0% of mass 69	0.15 (0.24) 1
127	25.0 - 75.0% of mass 198	41.78
197	Less than 1.0% of mass 198	0.00
198	Base Peak, 100% relative abundance	100.00
199	5.0 to 9.0% of mass 198	6.96
275	10.0 - 30.0% of mass 198	15.80
365	Greater than 0.75% of mass 198	1.78
441	Present, but less than mass 443	8.88
442	40.0 - 110.0% of mass 198	55.63
443	15.0 - 24.0% of mass 442	11.55 (20.77) 2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	b9537	01-20-96	1052
02	SBLK01	NIC60123C	b9542	01-20-96	1447
03	SSPK01	NIC60123CS	b9543	01-20-96	1534
04	CLJ78FB001	JP2542C	b9545	01-20-96	1708
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22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

0067

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW00

Lab File ID: b9554 DFTPP Injection Date: 01-22-96

Instrument ID: MS6.i DFTPP Injection Time: 0858

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	52.65
68	Less than 2.0% of mass 69	0.00 (0.00) 1
69	Mass 69 relative abundance	65.33
70	Less than 2.0% of mass 69	0.20 (0.31) 1
127	25.0 - 75.0% of mass 198	43.51
197	Less than 1.0% of mass 198	0.00
198	Base Peak, 100% relative abundance	100.00
199	5.0 to 9.0% of mass 198	7.25
275	10.0 - 30.0% of mass 198	18.79
365	Greater than 0.75% of mass 198	2.06
441	Present, but less than mass 443	10.38
442	40.0 - 110.0% of mass 198	65.23
443	15.0 - 24.0% of mass 442	13.09 (20.06) 2

1-Value is % mass 69 2-Value is % mass 442

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	SSTD050	SSTD050	b9555	01-22-96	0917
02	CLJ78IW001	JP2541C	b9559	01-22-96	1214
03					
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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: OHM Analytical DIV. Contract: NFESC

Lab Code: N/A Case No.: 17419N SAS No.: N/A SDG No.: ~~CLJ78I~~ CLJ78IW001

Lab File ID (Standard): 69537a Date Analyzed: 01-20-96

Instrument ID: ms6.i Time Analyzed: 1052

	EPA SAMPLE NO.	IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
	12 HOUR STD	1988974		7.50		6716315		9.35		3678453		12.58	
	UPPER LIMIT	3977948		8.00		13432630		9.85		7356906		13.08	
	LOWER LIMIT	994487		7.00		3358158		8.85		1839226		12.08	
01	SBLK01	2022931		7.50		6475164		9.35		3375472		12.58	
02	SSPK01	2063295		7.50		6937974		9.36		3691780		12.59	
03	CLJ78FB001	2121086		7.50		6760304		9.34		3646492		12.58	
04													
05													
06													
07													
08													
09													
10													
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22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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 used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0069

Lab Name: OHM Analytical Div. Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: ~~CLJ78IW001~~ CLJ78IW001

Lab File ID (Standard): b9537a Date Analyzed: 01-20-96

Instrument ID: .ms6.i Time Analyzed: 1052

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	5727188		15.57		4441405		21.09		4319755		24.97	
	UPPER LIMIT	11454376		16.07		8882810		21.59		8639510		25.47	
	LOWER LIMIT	2863594		15.07		2220702		20.59		2159878		24.47	
	EPA SAMPLE NO.												
01	SBLK01	5216496		15.56		3890230		21.09		4217547		24.97	
02	SSPK01	5884256		15.58		4273357		21.10		4117050		24.98	
03	CLJ78FB001	5427949		15.56		3949237		21.09		4136534		24.97	
04													
05													
06													
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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 used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0070

Lab Name: OHM Analytical Div. Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: ~~CLJ78IW001~~ CLJ78IW001

Lab File ID (Standard): b9555 Date Analyzed: 01-22-96

Instrument ID: ms6.i Time Analyzed: 0917

	EPA SAMPLE NO.	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	1665829	7.52	5635021	9.36	3215354	12.59
	UPPER LIMIT	3331658	8.02	11270042	9.86	6430708	13.09
	LOWER LIMIT	832914	7.02	2817510	8.86	1607677	12.09
01	CLJ78IW001	1671585	7.52	5379615	9.36	2954179	12.60
02							
03							
04							
05							
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22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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 used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

SC

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0071

Lab Name: OHM Analytical Div. Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: ~~CLJ78IW001~~ CLJ78IW001A2

Lab File ID (Standard): b9555 Date Analyzed: 01-22-96

Instrument ID: msb.i Time Analyzed: 0917

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	4905964		15.58		3586338		21.10		2970379		24.99	
	UPPER LIMIT	9811928		16.08		7172676		21.60		5940758		25.49	
	LOWER LIMIT	2452982		15.08		1793169		20.68		1485190		24.49	
	EPA SAMPLE NO.												
01	CLJ78IW001	4427035		15.58		3166251		21.09		2912420		24.98	
02													
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22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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 used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0072 EPA SAMPLE NO.

CLJ78IW001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: JP2541C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B9559

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/22/96

Injection Volume: 1.00 (uL) Dilution Factor: 250.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	13000	U
111-44-4	bis(2-Chloroethyl)ether	13000	U
95-57-8	2-Chlorophenol	13000	U
541-73-1	1,3-Dichlorobenzene	13000	U
106-46-7	1,4-Dichlorobenzene	13000	U
95-50-1	1,2-Dichlorobenzene	13000	U
95-48-7	2-Methylphenol	13000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	13000	U
106-44-5	4-Methylphenol	13000	U
621-64-7	N-Nitroso-di-n-propylamine	13000	U
67-72-1	Hexachloroethane	13000	U
98-95-3	Nitrobenzene	13000	U
78-59-1	Isophorone	13000	U
88-75-5	2-Nitrophenol	13000	U
105-67-9	2,4-Dimethylphenol	13000	U
111-91-1	bis(2-Chloroethoxy)methane	13000	U
120-83-2	2,4-Dichlorophenol	13000	U
120-82-1	1,2,4-Trichlorobenzene	13000	U
91-20-3	Naphthalene	13000	U
106-47-8	4-Chloroaniline	13000	U
87-68-3	Hexachlorobutadiene	13000	U
59-50-7	4-Chloro-3-methylphenol	13000	U
91-57-6	2-Methylnaphthalene	13000	U
77-47-4	Hexachlorocyclopentadiene	13000	U
88-06-2	2,4,6-Trichlorophenol	13000	U
95-95-4	2,4,5-Trichlorophenol	13000	U
91-58-7	2-Chloronaphthalene	13000	U
88-74-4	2-Nitroaniline	13000	U
131-11-3	Dimethylphthalate	13000	U
208-96-8	Acenaphthylene	13000	U
606-20-2	2,6-Dinitrotoluene	13000	U
99-09-2	3-Nitroaniline	13000	U
83-32-9	Acenaphthene	13000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0073 EPA SAMPLE NO.

CLJ78IW001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: JP2541C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B9559

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/22/96

Injection Volume: 1.00 (uL) Dilution Factor: 250.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	63000	U
100-02-7	4-Nitrophenol	63000	U
132-64-9	Dibenzofuran	13000	U
121-14-2	2,4-Dinitrotoluene	13000	U
84-66-2	Diethylphthalate	13000	U
7005-72-3	4-Chlorophenyl-phenylether	13000	U
86-73-7	Fluorene	13000	U
100-01-6	4-Nitroaniline	13000	U
534-52-1	4,6-Dinitro-2-methylphenol	31000	U
101-55-3	4-Bromophenyl-phenylether	13000	U
86-30-6	N-Nitrosodiphenylamine (1)	13000	U
118-74-1	Hexachlorobenzene	13000	U
87-86-5	Pentachlorophenol	13000	U
85-01-8	Phenanthrene	13000	U
120-12-7	Anthracene	13000	U
86-74-8	Carbazole	13000	U
84-74-2	Di-n-butylphthalate	13000	U
206-44-0	Fluoranthene	13000	U
129-00-0	Pyrene	13000	U
85-68-7	Butylbenzylphthalate	13000	U
91-94-1	3,3'-Dichlorobenzidine	13000	U
56-55-3	Benzo(a)anthracene	13000	U
218-01-9	Chrysene	13000	U
117-81-7	bis(2-Ethylhexyl)phthalate	13000	U
117-84-0	Di-n-octylphthalate	13000	U
205-99-2	Benzo(b)fluoranthene	13000	U
207-08-9	Benzo(k)fluoranthene	13000	U
50-32-8	Benzo(a)pyrene	13000	U
193-39-5	Indeno(1,2,3-cd)pyrene	13000	U
53-70-3	Dibenz(a,h)anthracene	13000	U
191-24-2	Benzo(g,h,i)perylene	13000	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0074

EPA SAMPLE NO.

CLJ78IW001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: JP2541C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B9559

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/22/96

Injection Volume: 1.00 (uL) Dilution Factor: 250.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs found: 19 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

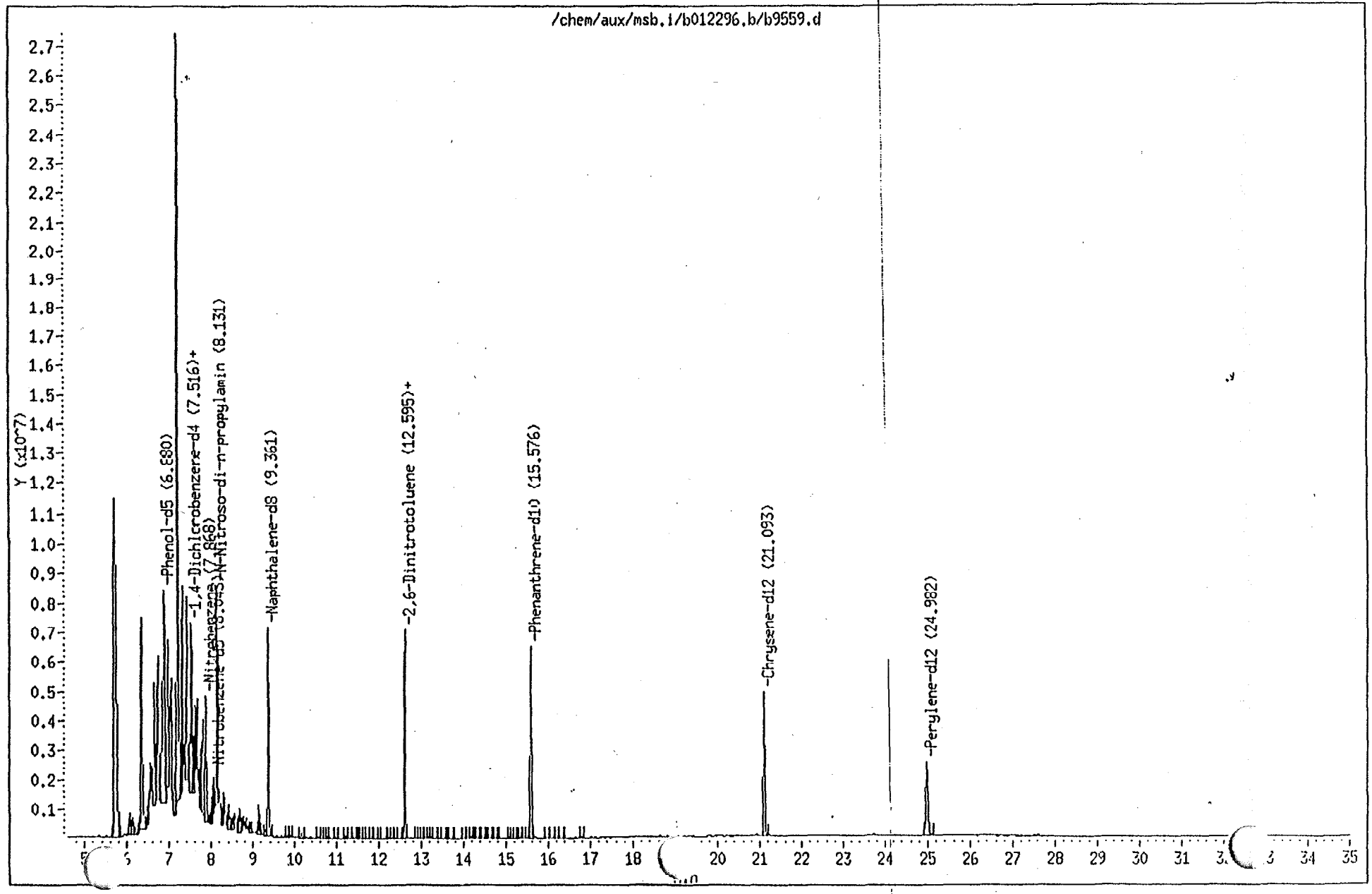
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	3221-61-2	Octane, 2-methyl-	6.05	5900	JN
2.		Unk hydrocarbon	6.11	5100	J
3.	111-84-2	Nonane	6.34	68000	JN
4.	589-43-5	Hexane, 2,4-dimethyl-	6.50	7100	JN
5.	5911-04-6	Nonane, 3-methyl-	6.64	30000	JN
6.		unknown	6.73	42000	J
7.	5911-04-6	Nonane, 3-methyl-	6.96	36000	JN
8.		unknown	7.12	13000	J
9.	124-18-5	Decane	7.20	210000	JN
10.	95-36-3	1,2,4-Trimethylbenzene	7.31	44000	JN
11.	2847-72-5	Decane, 4-methyl-	7.42	36000	JN
12.		unknown	7.58	12000	J
13.		Unk hydrocarbon	7.73	12000	J
14.		Unk substituted aromatic	7.79	36000	J
15.	1074-17-5	Benzene, 1-methyl-2-propyl-	8.01	5600	JN
16.	1120-21-4	Undecane	8.13	41000	JN
17.		Unk substituted aromatic	8.42	6600	J
18.		unknown	8.66	7500	J
19.	112-40-3	Dodecane	9.13	6800	JN

0075

Data File: /chem/aux/msb.i/b012296.b/b9559.d
Date : 22-JAN-96 12:14
Client ID:
Sample Info: 17418n clj78iw001

Instrument: msb.i

Operator: K. Bigelow
Column phase: J&W DB-5
Column diameter: 0.25



Data File: /chem/aux/msb.i/b012296.b/b9559.d
Report Date: 22-Jan-1996 13:03

OHM Analytical Division

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b012296.b/b9559.d
Lab Smp Id:
Inj Date : 22-JAN-96 12:14
Operator : K. Bigelow Inst ID: msb.i
Smp Info : 17418n clj78iw001
Misc Info : jp2541c,n1c60123,m1,1,250
Comment :
Method : /chem/aux/msb.i/b012296.b/0112996bclp.m
Meth Date : 22-Jan-1996 13:02 kathryn Quant Type: ISTD
Cal Date : 22-JAN-96 09:17 Cal File: b9555.d
Als bottle: 6
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

K Bigelow

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)	
S	Phenol-d5	99.00	6.880	6.957	(0.915)	400855	5.85	~~5.85~~(QR)	ND, MS, Rt
* 10	1,4-Dichlorobenzene-d4	152.00	7.516	7.516	(1.000)	1671585	40.0		
S 13	1,2-Dichlorobenzene-D4	152.00	7.516	7.767	(1.000)	1671585	47.1	~~47.1~~(R)	ND, Rt
17	N-Nitroso-di-n-propylamine	70.00	8.131	7.976	(1.082)	327590	6.62	~~6.62~~(Q)	ND, Rt, MS
S 19	Nitrobenzene-d5	82.00	8.043	8.249	(0.859)	178961	3.13	~~3.13~~(QR)	ND, Rt, MS
20	Nitrobenzene	77.00	7.868	8.271	(0.841)	174742	3.15	~~3.15~~(Q)	ND, Rt, MS
* 27	Naphthalene-d8	136.00	9.361	9.356	(1.000)	5379615	40.0		
41	2,6-Dinitrotoluene	165.00	12.595	12.141	(1.000)	390368	13.9	~~13.9~~(Q)	ND, Rt, MS
* 44	Acenaphthene-d10	164.00	12.595	12.591	(1.000)	2954179	40.0		
48	2,4-Dinitrotoluene	165.00	12.595	12.931	(1.000)	410624	10.9	~~10.9~~(Q)	ND, Rt, MS
* 60	Phenanthrene-d10	188.00	15.576	15.576	(1.000)	4427035	40.0		
* 73	Chrysene-d12	240.00	21.093	21.103	(1.000)	3166251	40.0		
* 79	Perylene-d12	264.00	24.982	24.986	(1.000)	2912420	40.0		

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: /chem/aux/msb.i/b012296.b/b9559.d

Date : 22-JAN-96 12:14

Client ID:

Instrument: msb.i

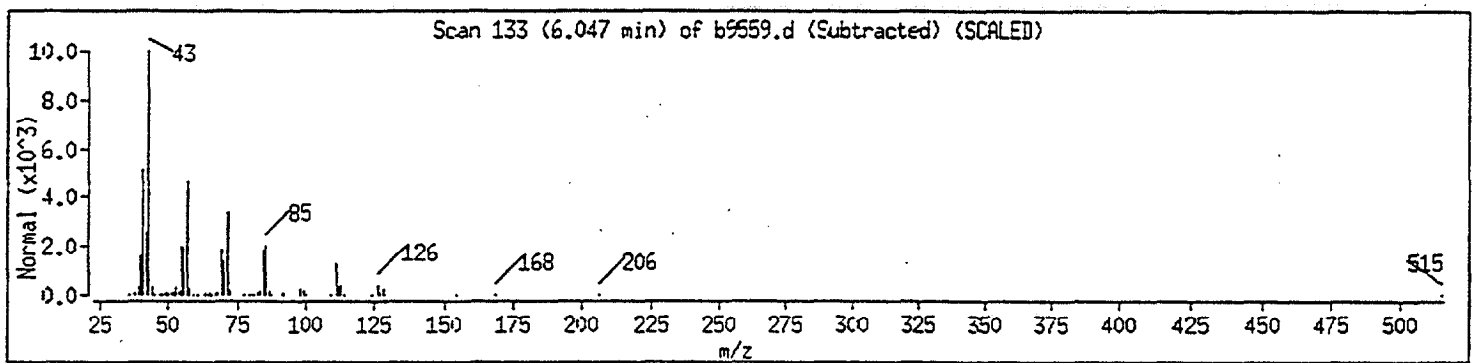
Sample Info: 17418n clj78iw001

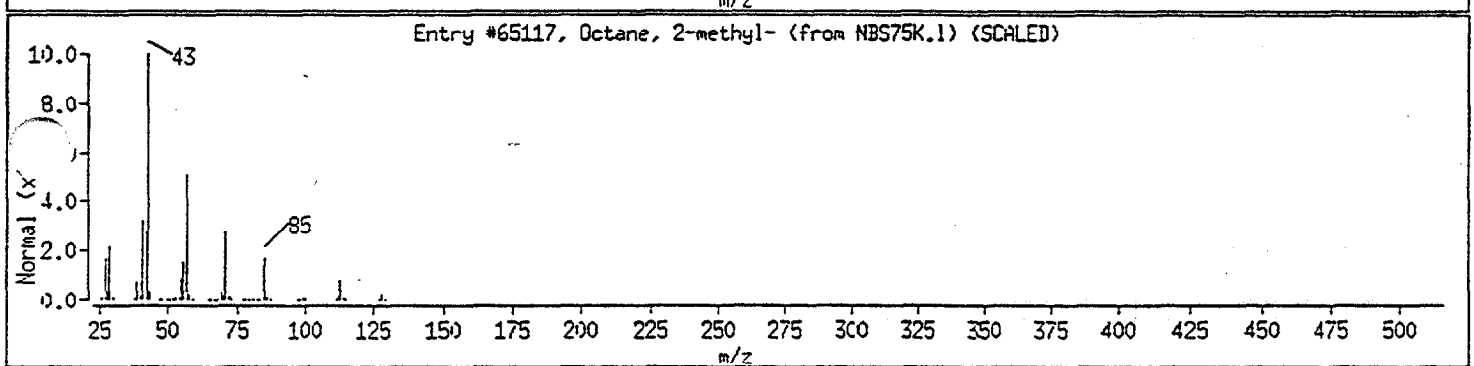
Operator: K. Bigelow

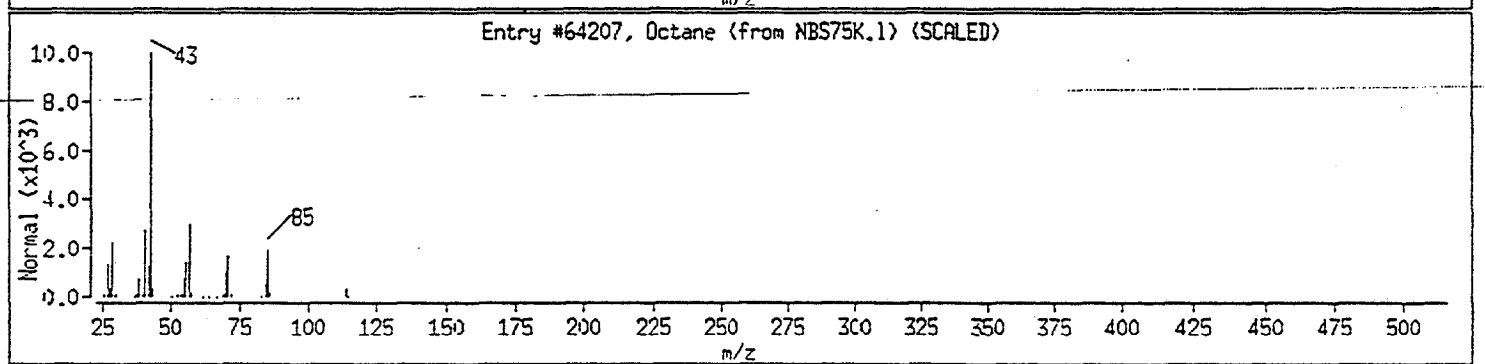
Column phase: J&W DB-5

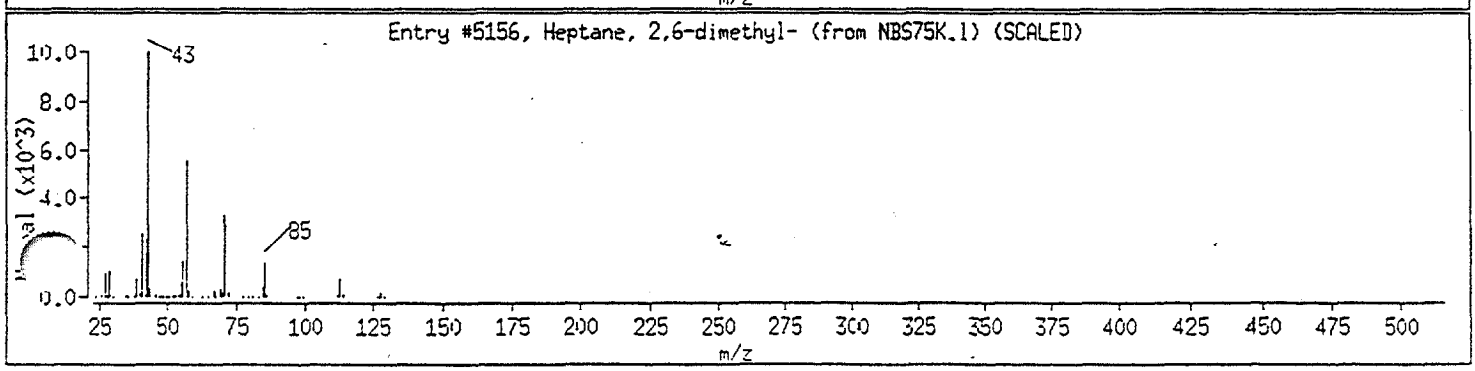
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Octane, 2-methyl-	3221-61-2	NBS75K.l	65117	70	C9H20	128
Octane	111-65-9	NBS75K.l	64207	50	C8H18	114
Heptane, 2,6-dimethyl-	1072-05-5	NBS75K.l	5156	50	C9H20	128









Data File: /chem/aux/msb.i/b012296.b/b9559.d

Date : 22-JAN-96 12:14

Client ID:

Instrument: msb.i

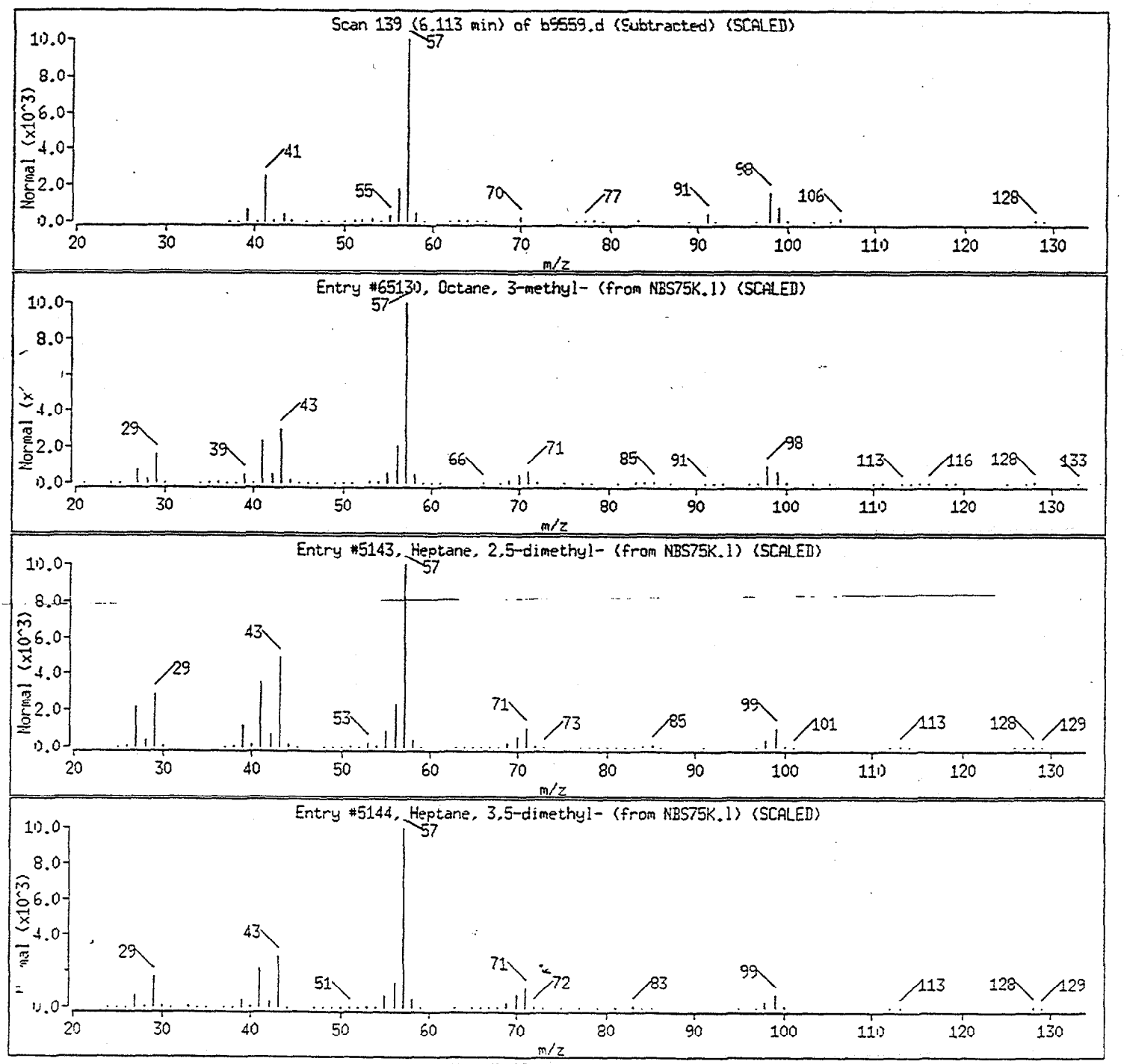
Sample Info: 17418n clj78iw001

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Octane, 3-methyl-	2216-33-3	NBS75K.1	65130	64	C9H20	128
Heptane, 2,5-dimethyl-	2216-30-0	NBS75K.1	5143	53	C9H20	128
Heptane, 3,5-dimethyl-	926-82-9	NBS75K.1	5144	42	C9H20	128



Data File: /chem/aux/msb.i/b012296.b/b9559.d

Date : 22-JAN-96 12:14

Client ID:

Instrument: msb.i

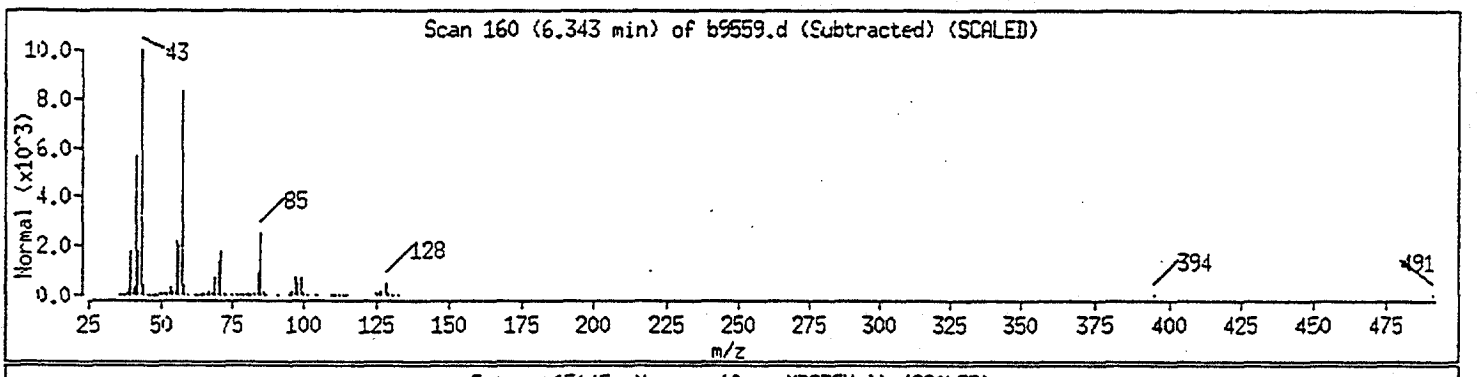
Sample Info: 17418n clj78iw001

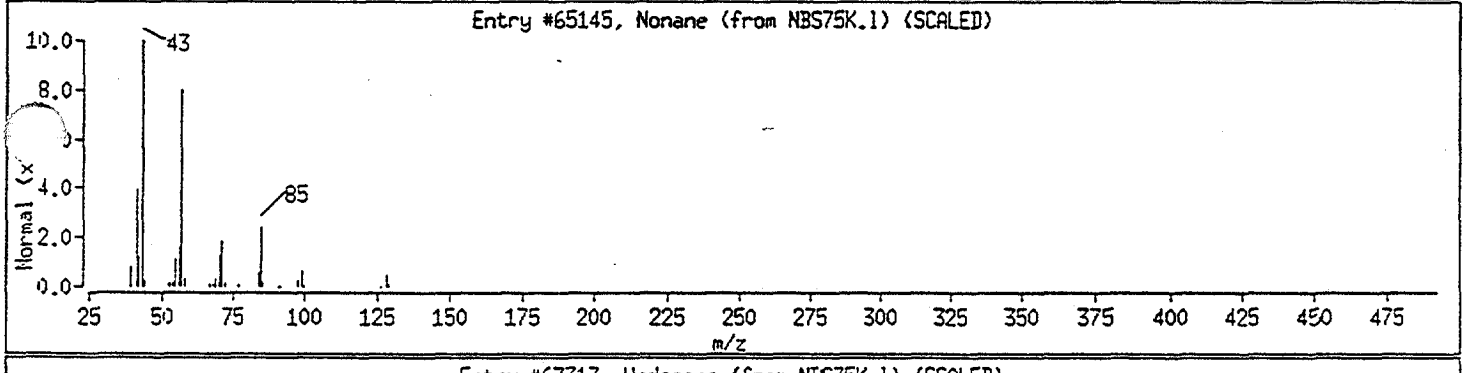
Operator: K. Bigelow

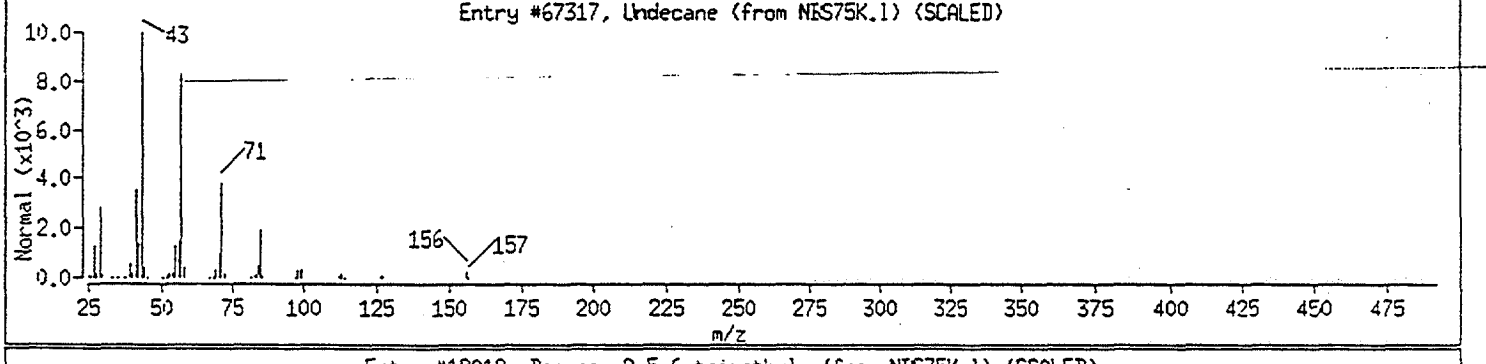
Column phase: J&W DB-5

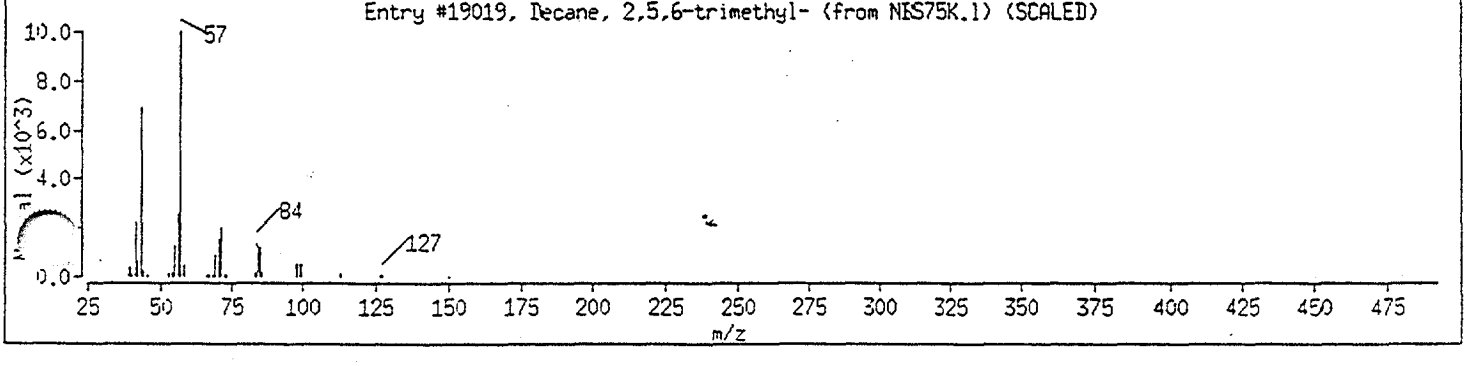
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane	111-84-2	NBS75K.l	65145	94	C9H20	128
Undecane	1120-21-4	NBS75K.l	67317	64	C11H24	156
Decane, 2,5,6-trimethyl-	62108-23-0	NBS75K.l	19019	59	C13H28	184









Data File: /chem/aux/msb.i/b012296.b/b9559.d

Date : 22-JAN-96 12:14

Client ID:

Instrument: msb.i

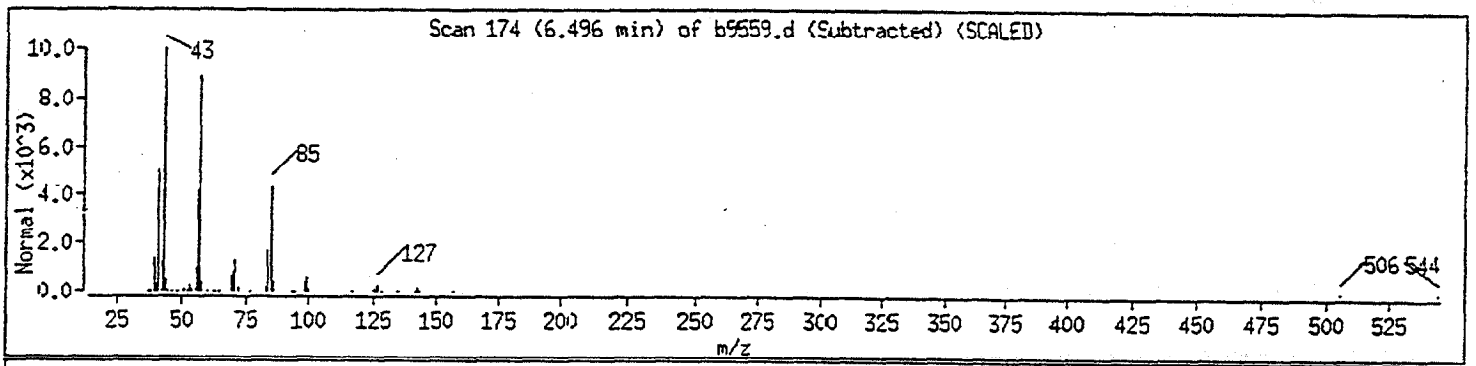
Sample Info: 17418n clj78iw001

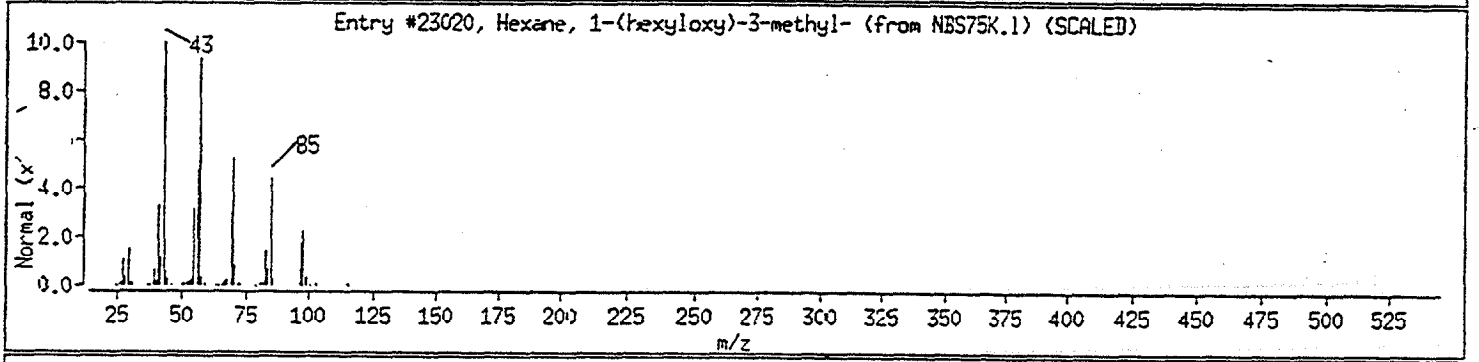
Operator: K. Bigelow

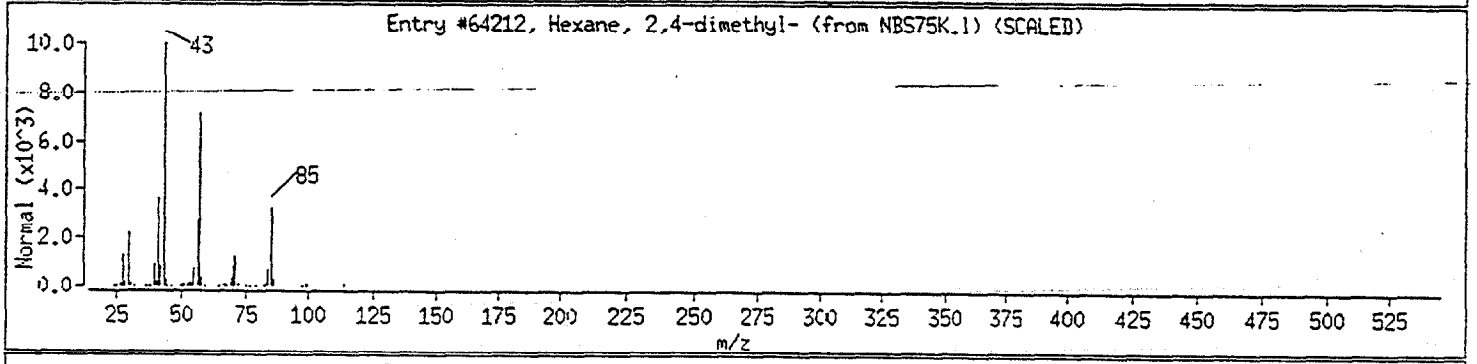
Column phase: J&W DB-5

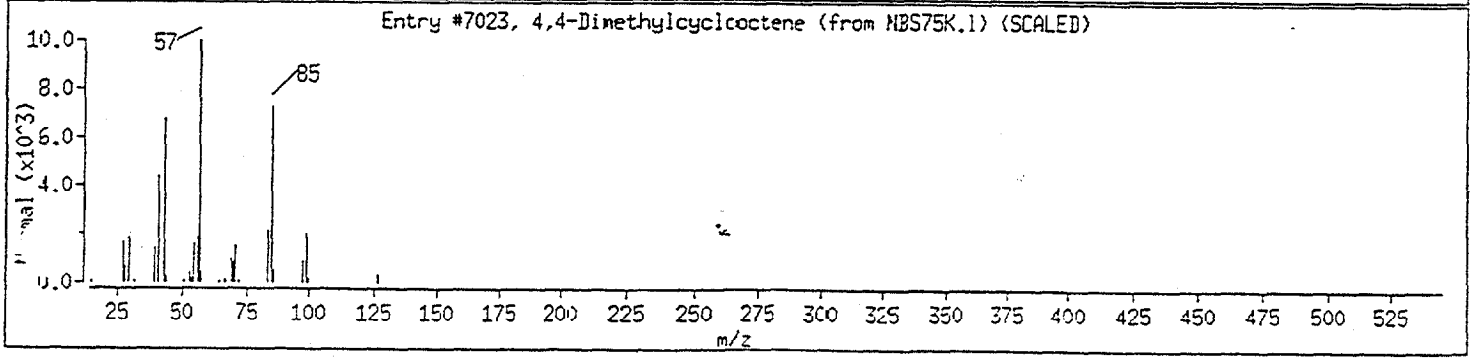
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexane, 1-(hexyloxy)-3-methyl-	74421-18-4	NBS75K.1	23020	78	C13H28O	200
Hexane, 2,4-dimethyl- KB	589-43-5	NBS75K.1	64212	59	C8H18	114
4,4-Dimethylcyclooctene	0-00-0	NBS75K.1	7023	53	C10H18	138









Data File: /chem/aux/msb.i/b012296.b/b9559.d

Date : 22-JAN-96 12:14

Client ID:

Instrument: msb.i

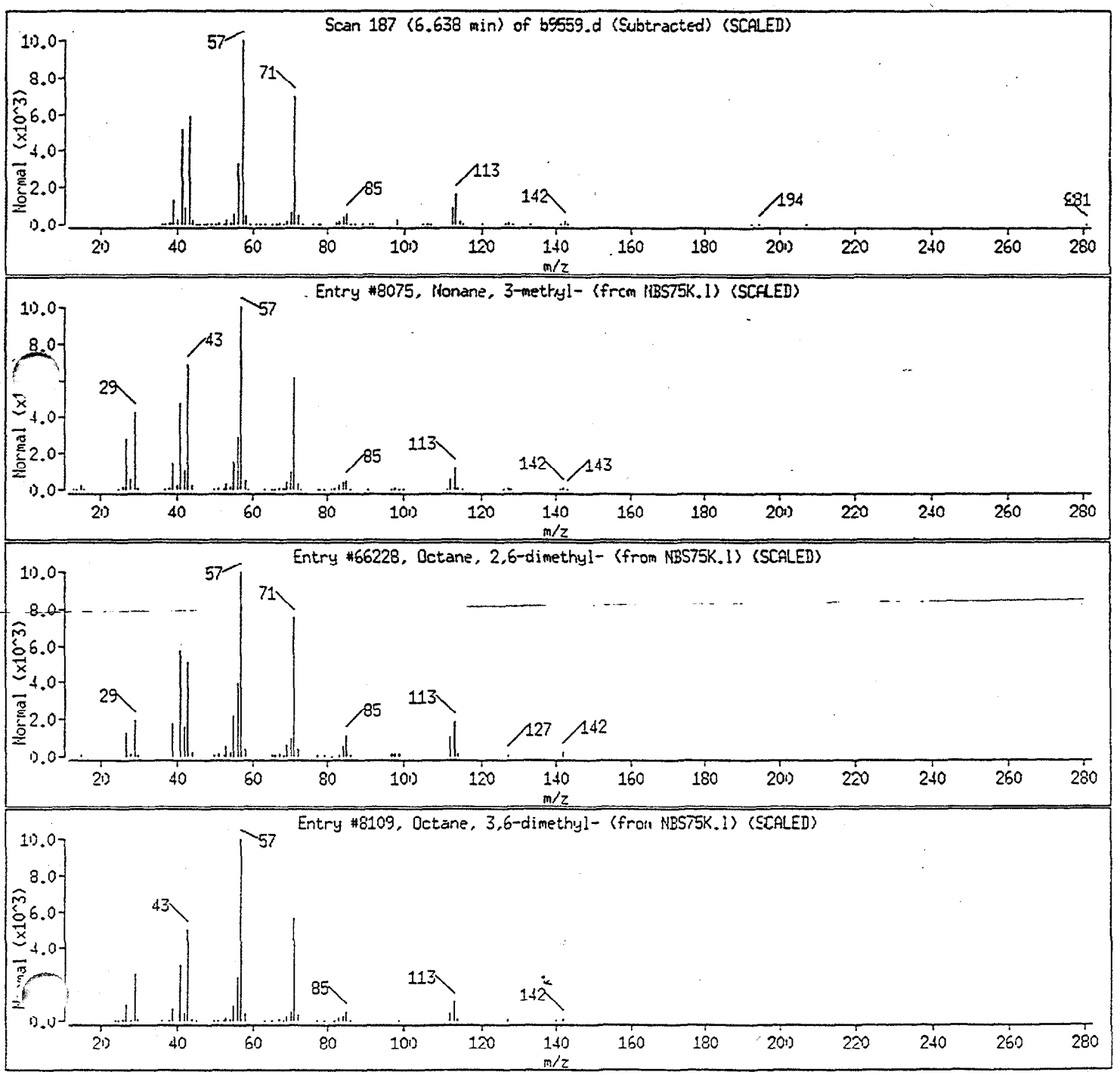
Sample Info: 17418n clj78iw001

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane, 3-methyl-	5911-04-6	NBS75K.l	8075	91	C10H22	142
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.l	66228	91	C10H22	142
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.l	8109	90	C10H22	142



Data File: /chem/aux/msb.i/b012296.b/b9559.d

Date : 22-JAN-96 12:14

Client ID:

Instrument: msb.i

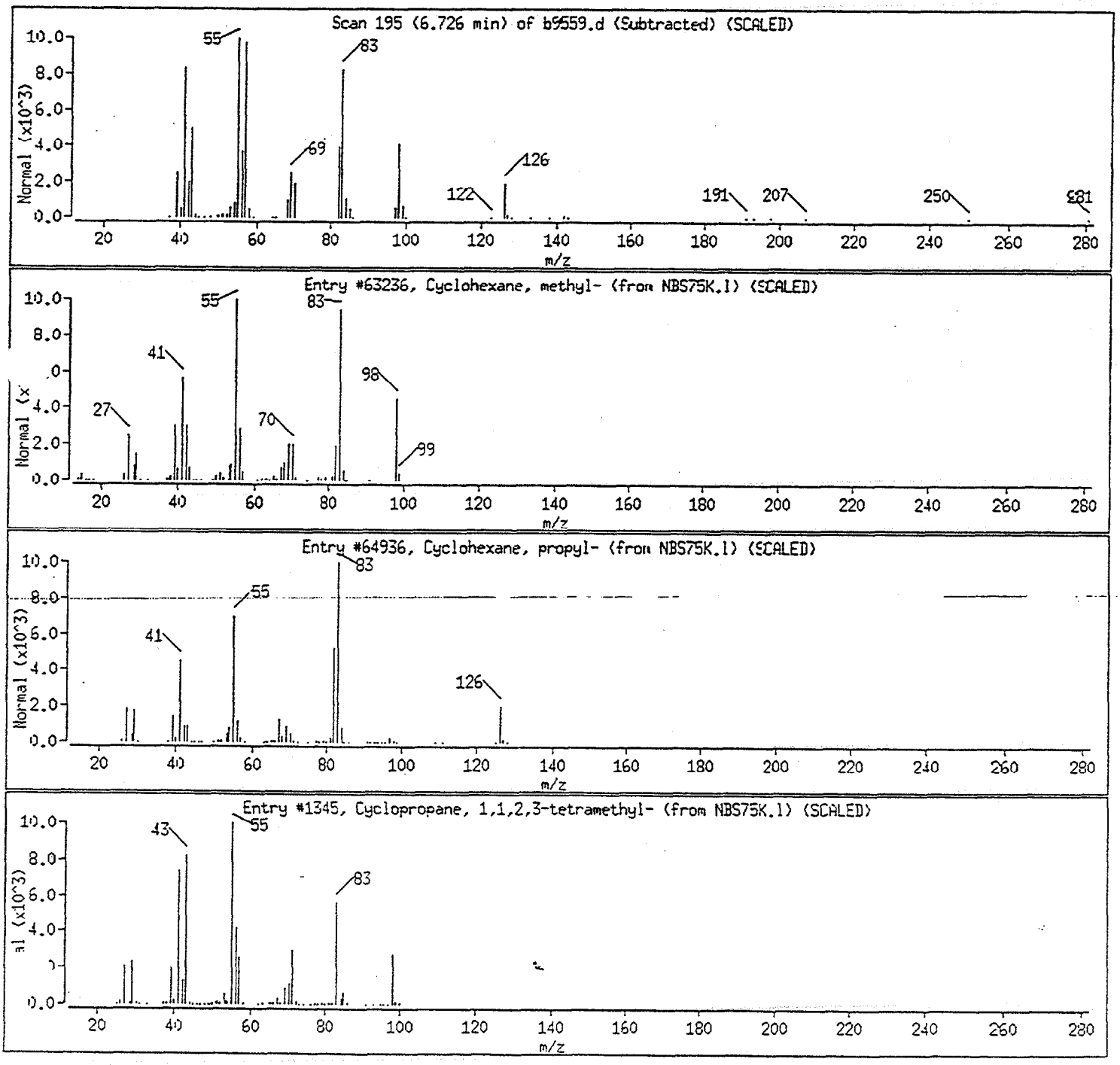
Sample Info: 17418n clj78iw001

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, methyl-	108-87-2	NBS75K.l	63236	70	C7H14	98
Cyclohexane, propyl-	1678-92-8	NBS75K.l	64936	49	C9H18	126
Cyclopropane, 1,1,2,3-tetramethyl-	74752-93-5	NBS75K.l	1345	47	C7H14	98



Data File: /chem/aux/msb.i/b012296.b/b9559.d

Date : 22-JAN-96 12:14

Client ID:

Instrument: msb.i

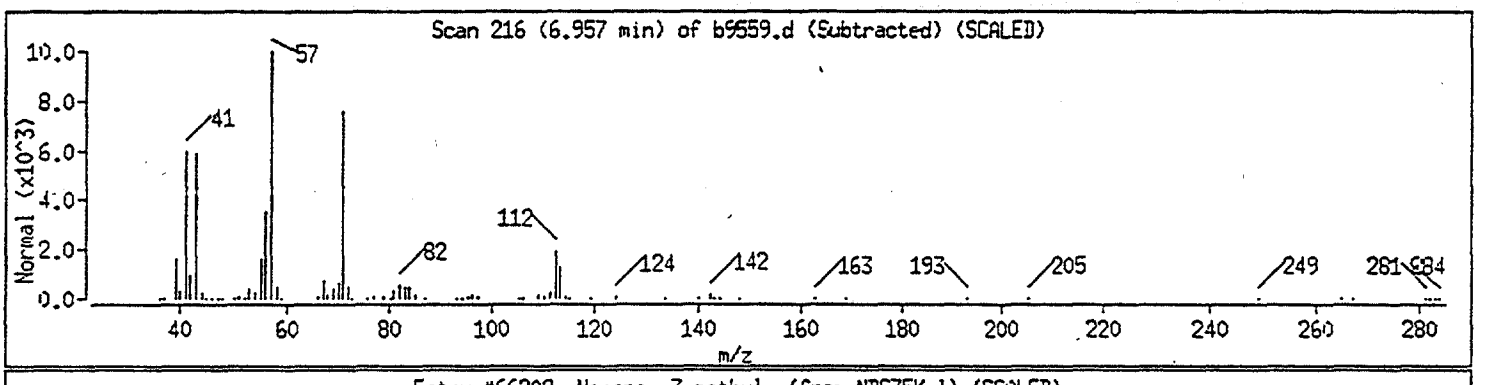
Sample Info: 17418n clj78iw001

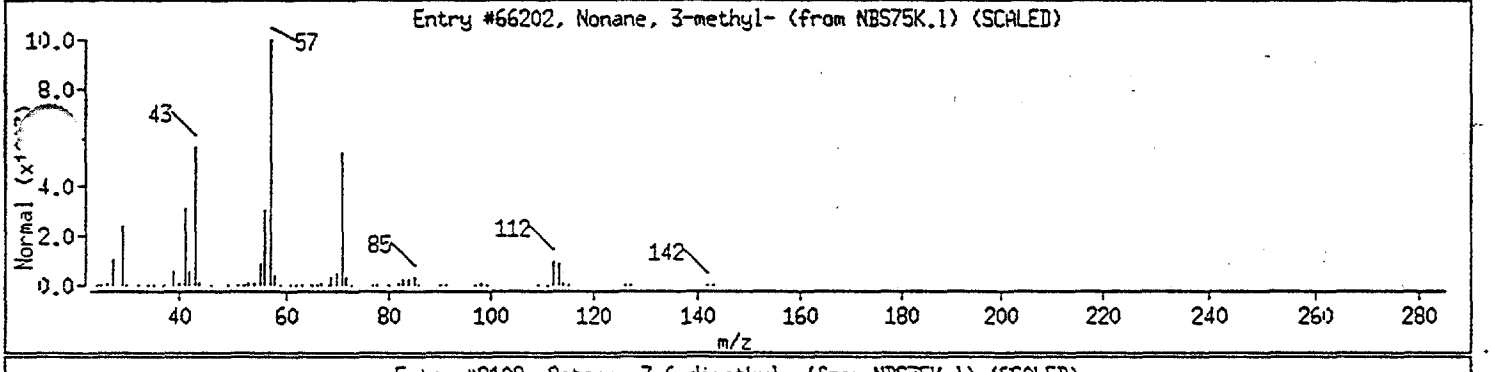
Operator: K. Bigelow

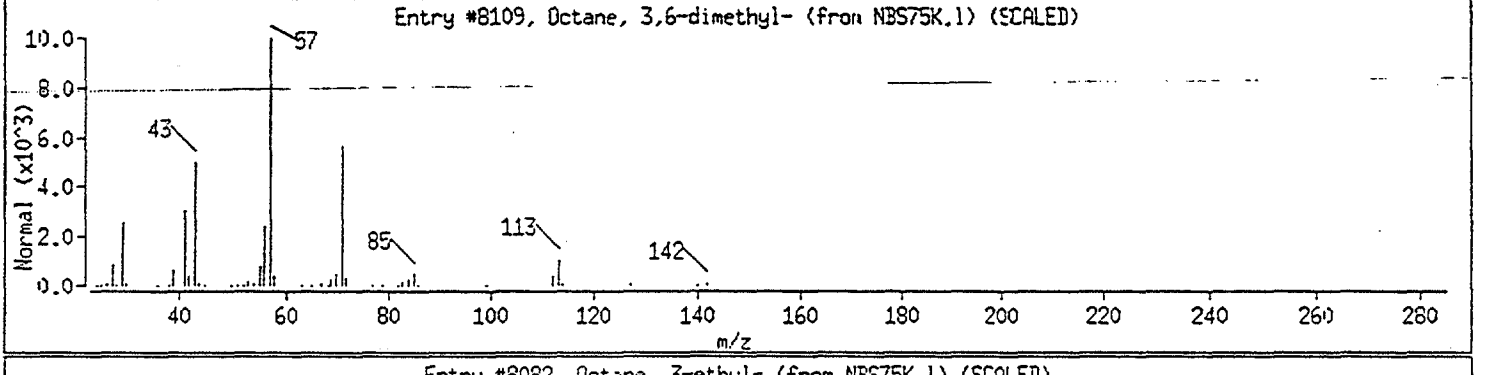
Column phase: J&W DB-5

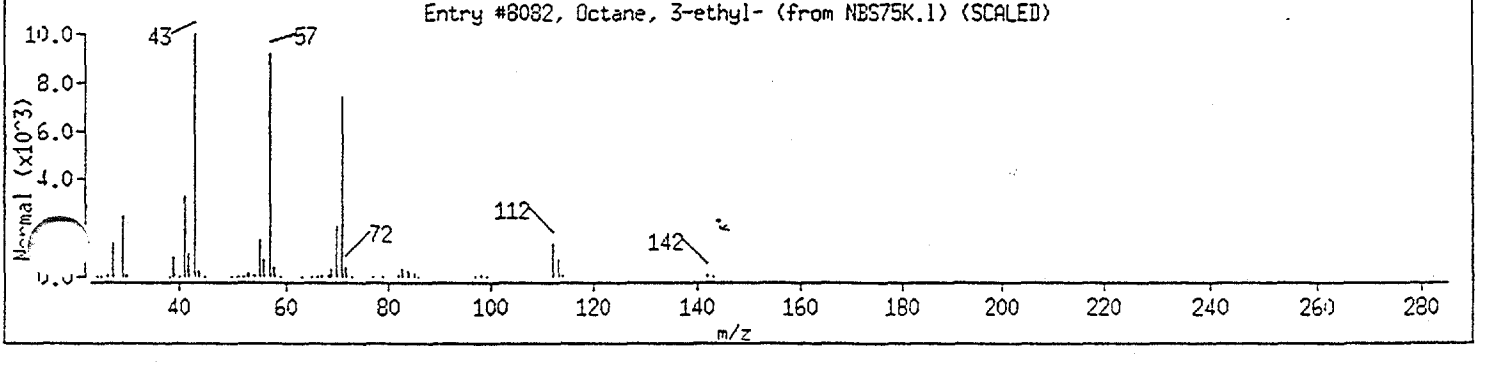
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane, 3-methyl-	5911-04-6	NBS75K.l	66202	87	C10H22	142
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.l	8109	87	C10H22	142
Octane, 3-ethyl-	5881-17-4	NBS75K.l	8082	78	C10H22	142









Data File: /chem/aux/msb.i/b012296.b/b9559.d

Date : 22-JAN-96 12:14

Client ID:

Instrument: msb.i

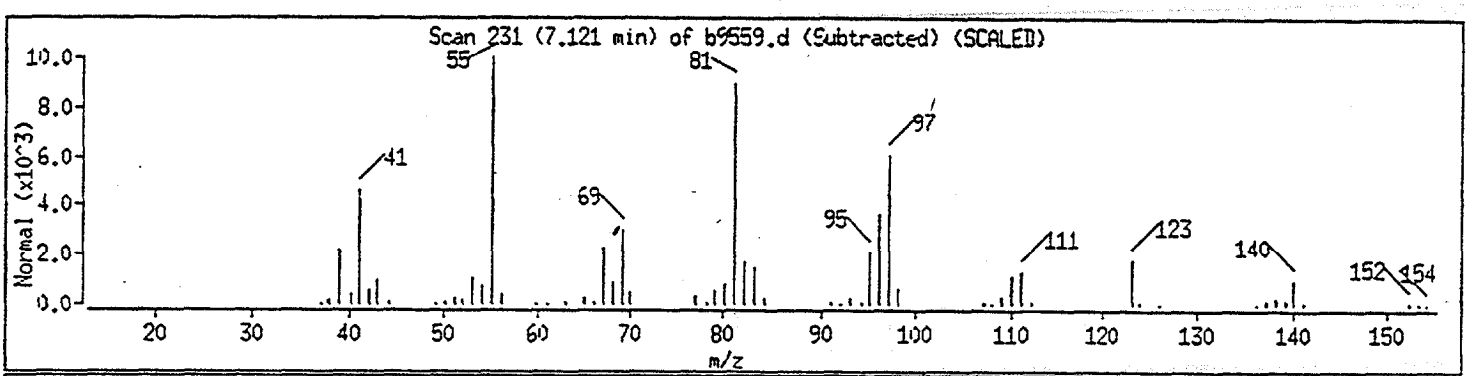
Sample Info: 17418n clj78iw001

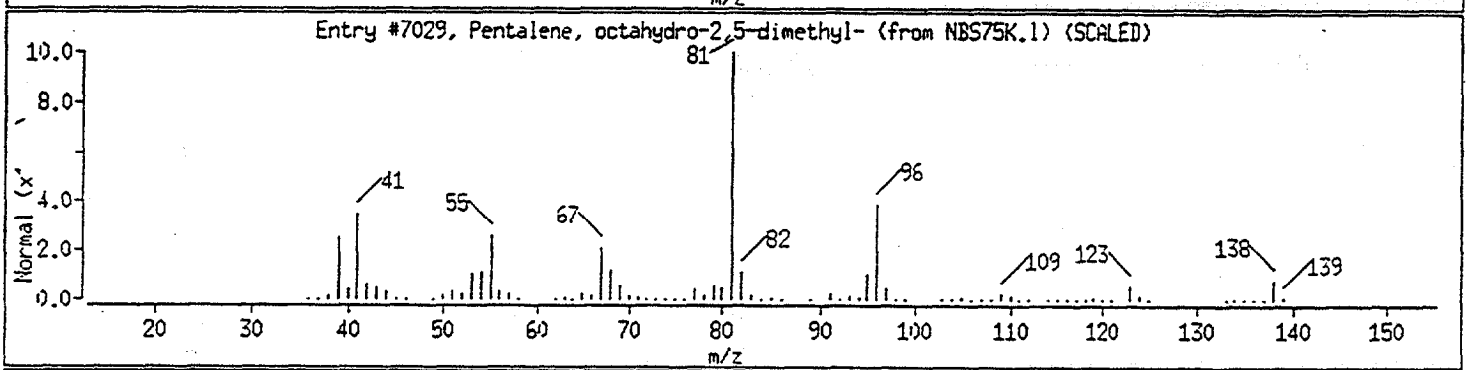
Operator: K. Bigelow

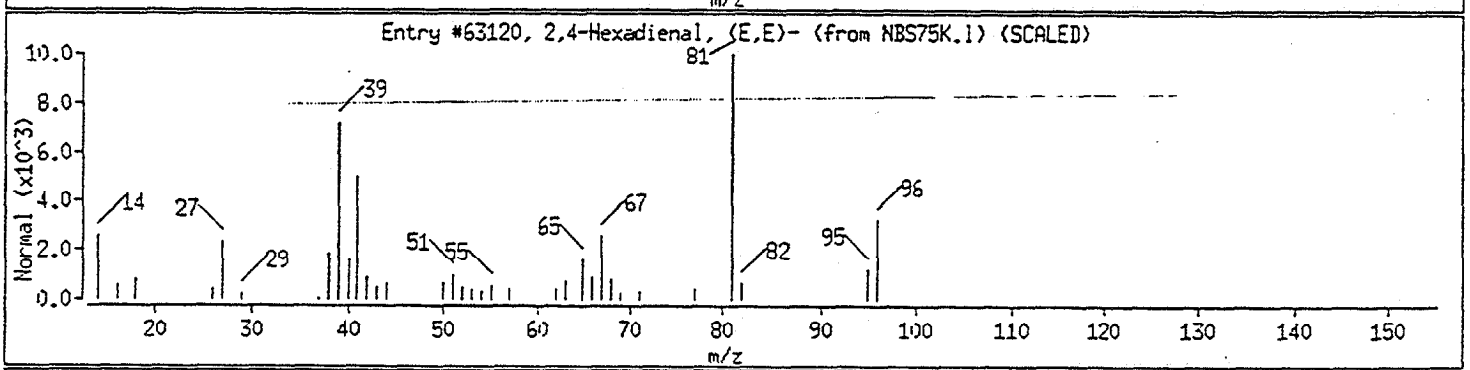
Column phase: J&W DB-5

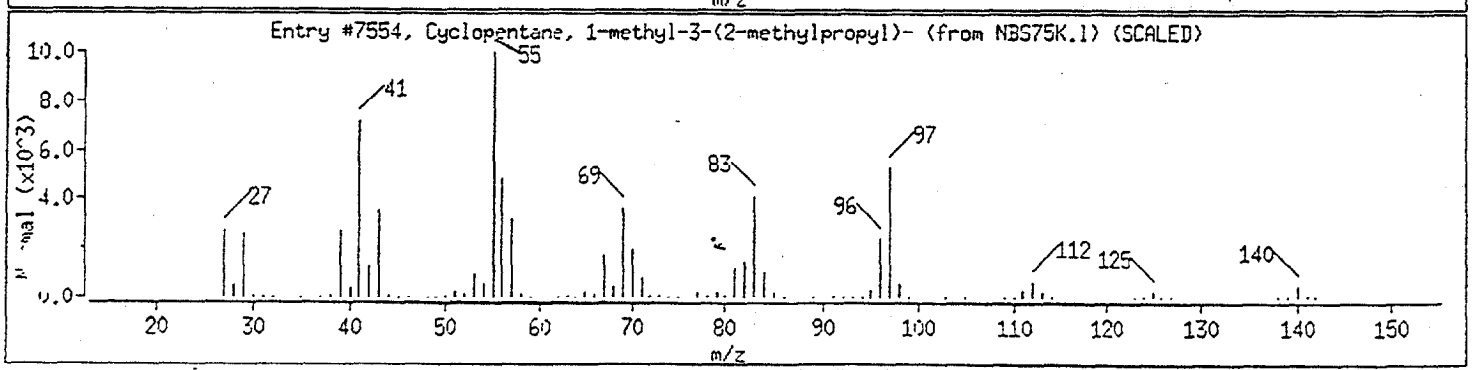
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pentalene, octahydro-2,5-dimethyl-	28588-55-8	NBS75K.l	7029	43	C10H18	138
2,4-Hexadienal, (E,E)-	142-83-6	NBS75K.l	63120	43	C6H8O	96
Cyclopentane, 1-methyl-3-(2-methylpropyl	29053-04-1	NBS75K.l	7554	38	C10H20	140









Data File: /chem/aux/msb.i/b012296.b/b9559.d

Date : 22-JAN-96 12:14

Client ID:

Instrument: msb.i

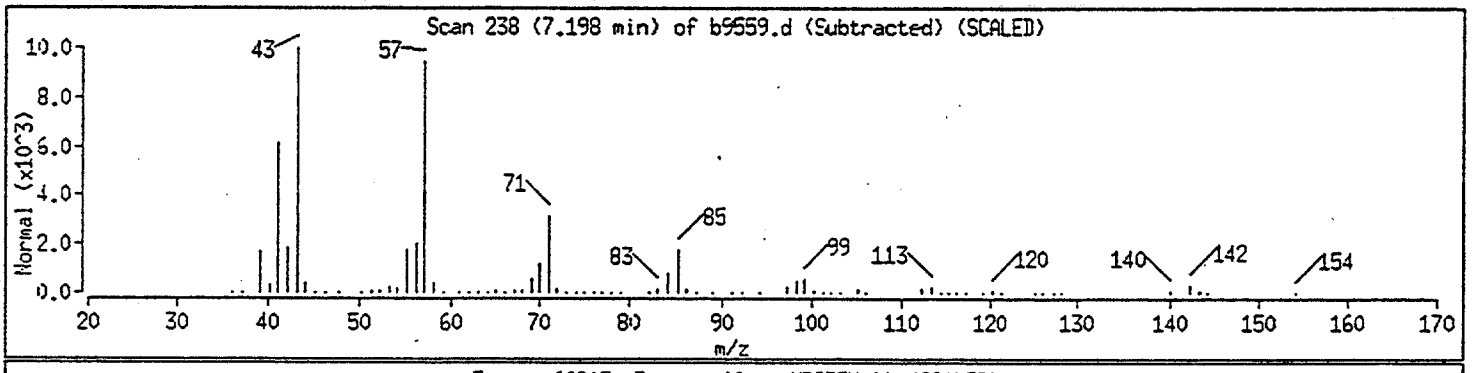
Sample Info: 17418n clj78iw001

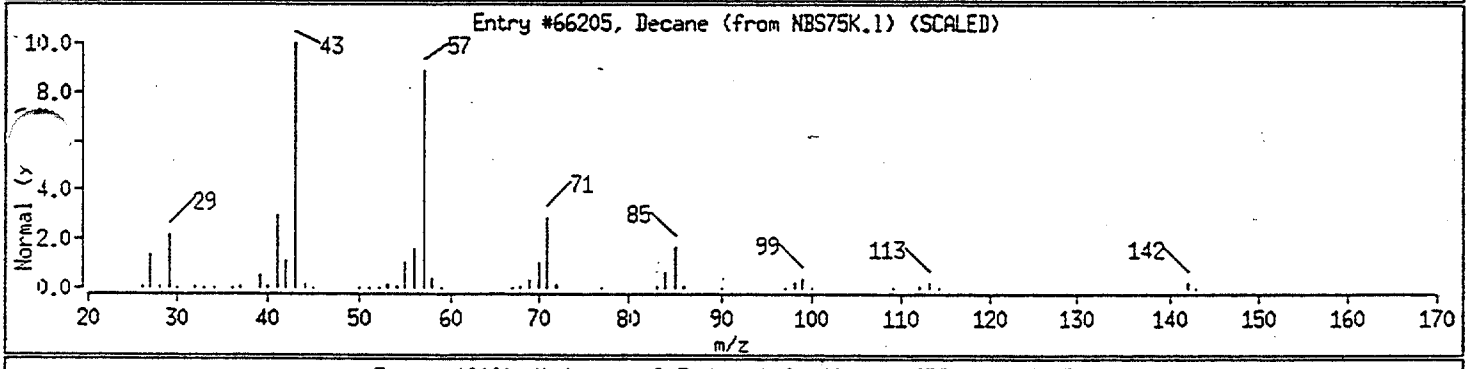
Operator: K. Bigelow

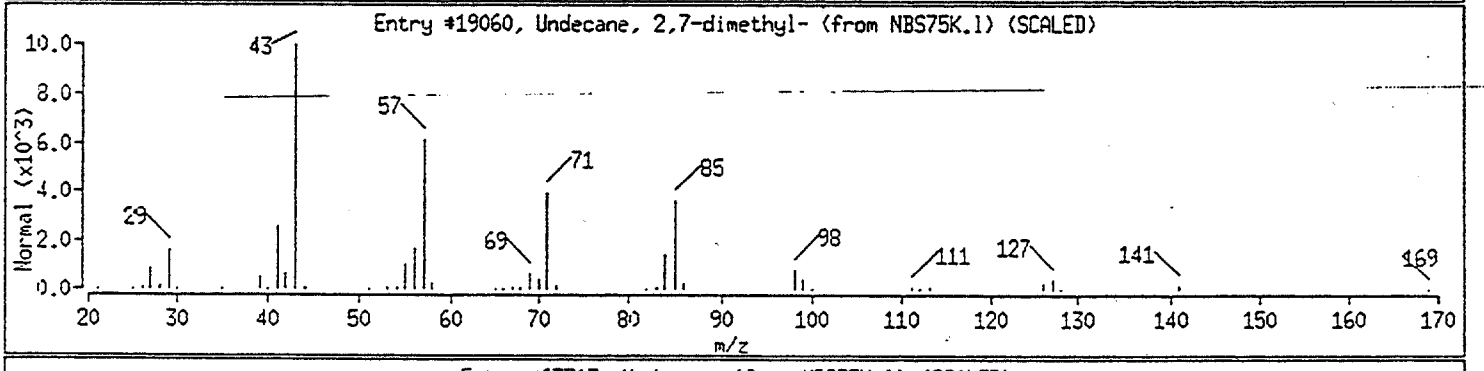
Column phase: J&W DB-5

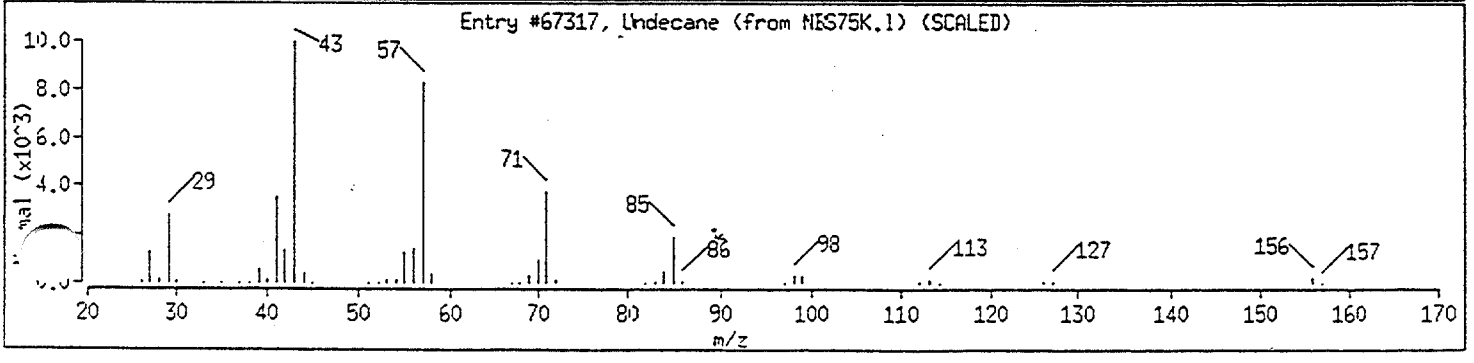
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane	124-18-5	NBS75K.l	66205	94	C10H22	142
Undecane, 2,7-dimethyl-	17301-24-5	NBS75K.l	19060	64	C13H28	184
Undecane	1120-21-4	NBS75K.l	67317	64	C11H24	156









Data File: /chem/aux/msb.i/b012296.b/b9559.d

Date : 22-JAN-96 12:14

Client ID:

Instrument: msb.i

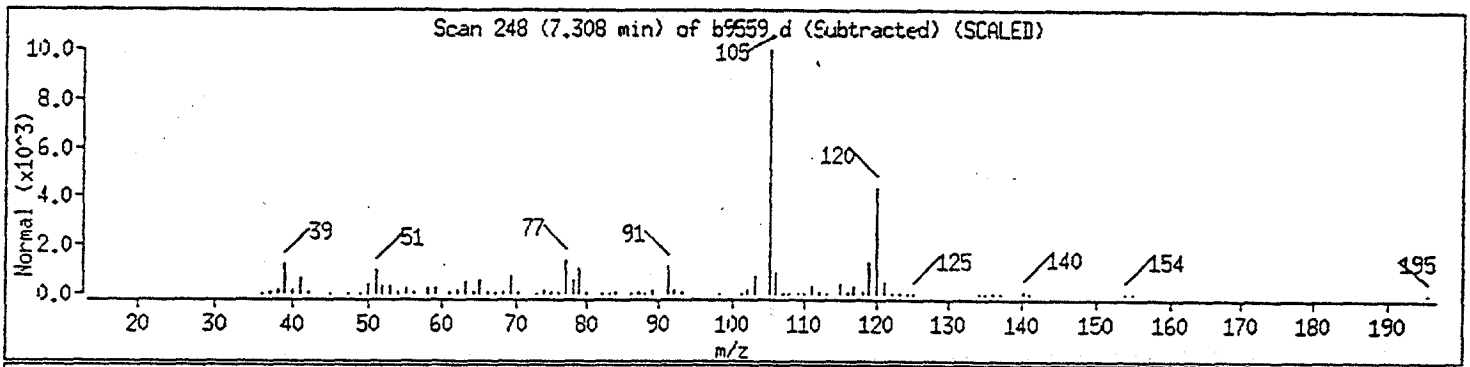
Sample Info: 17418n clj78iw001

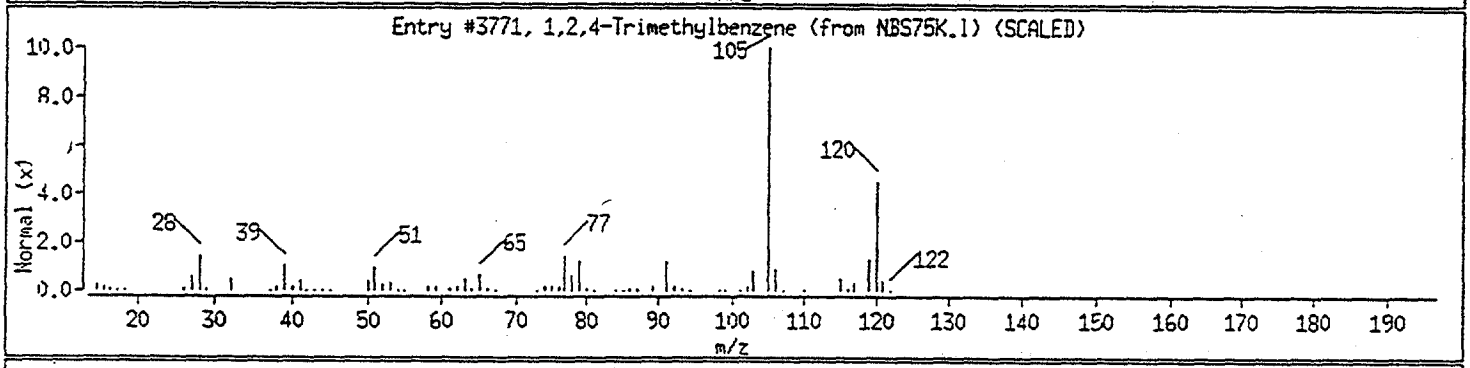
Operator: K. Bigelow

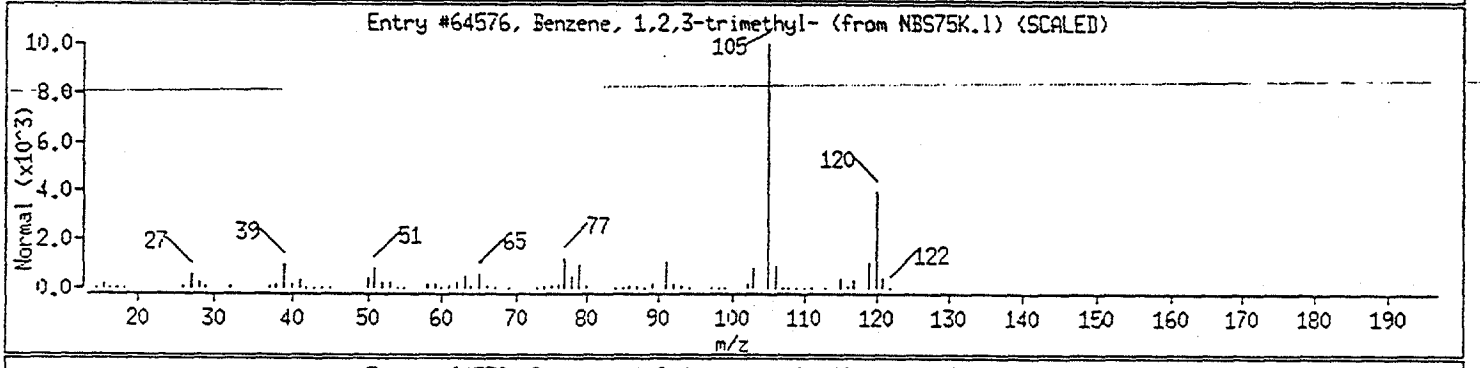
Column phase: J&W DB-5

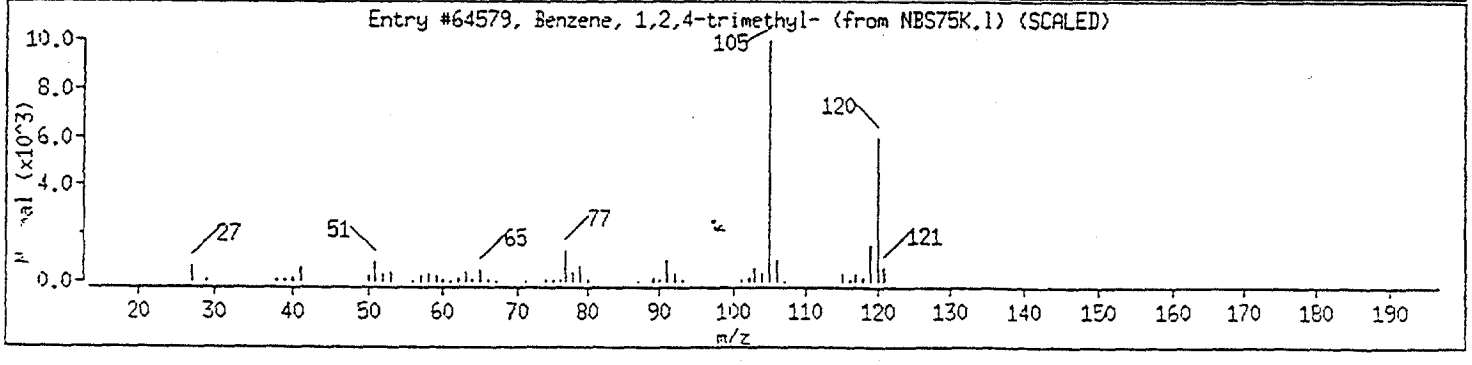
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,2,4-Trimethylbenzene	95-36-3	NBS75K.l	3771	96	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.l	64576	95	C9H12	120
Benzene, 1,2,4-trimethyl-	95-63-6	NBS75K.l	64579	93	C9H12	120









Data File: /chem/aux/msb.i/b012296.b/b9559.d

Date : 22-JAN-96 12:14

Client ID:

Instrument: msb.i

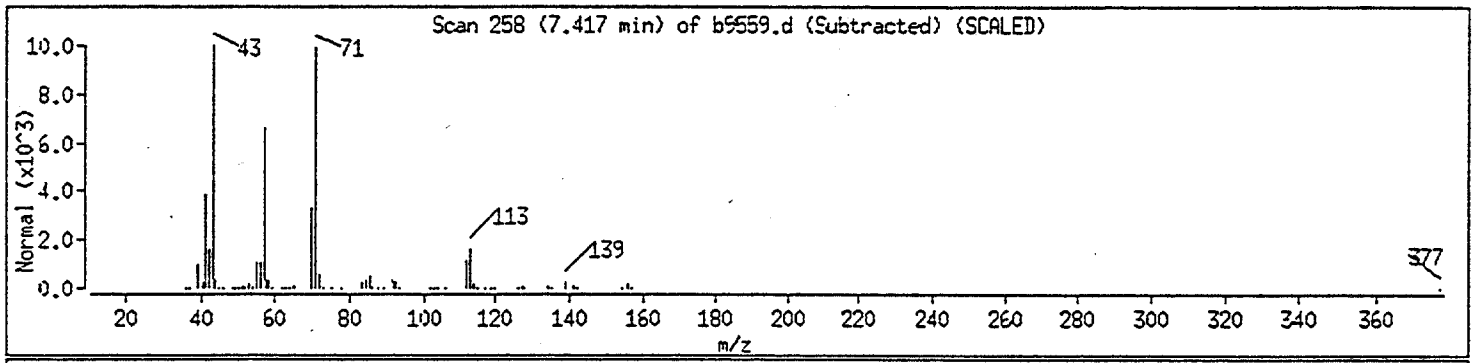
Sample Info: 17418n clj78iw001

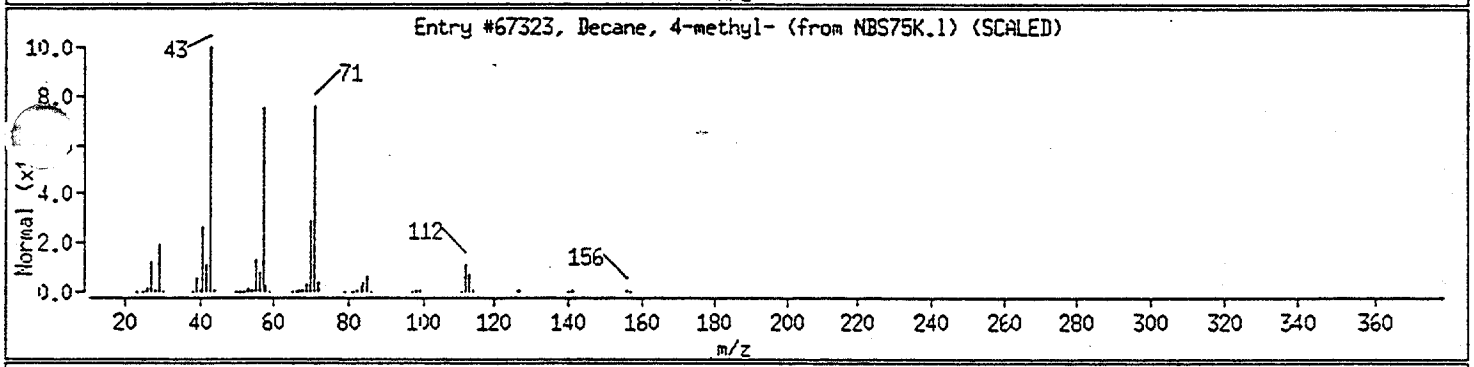
Operator: K. Bigelow

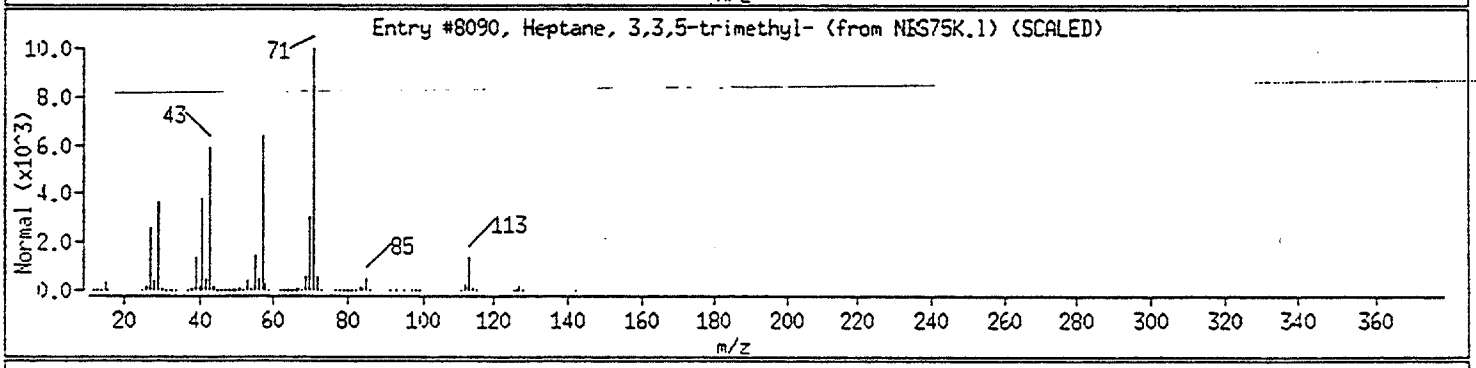
Column phase: J&W DB-5

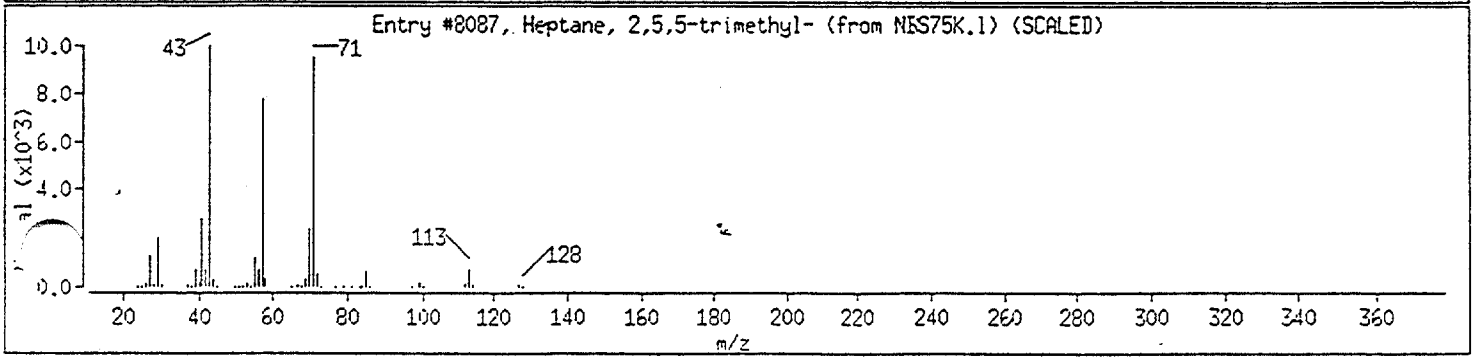
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane, 4-methyl-	2847-72-5	NBS75K.l	67323	87	C11H24	156
Heptane, 3,3,5-trimethyl-	7154-80-5	NBS75K.l	8090	78	C10H22	142
Heptane, 2,5,5-trimethyl-	1189-99-7	NBS75K.l	8087	64	C10H22	142









Data File: /chem/aux/msb.i/b012296.b/b9559.d

Date : 22-JAN-96 12:14

Client ID:

Instrument: msb.i

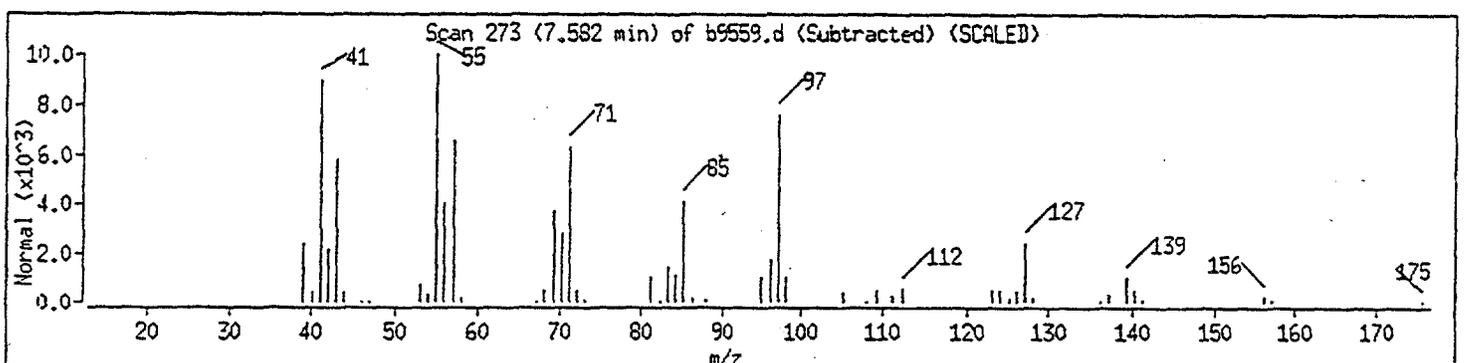
Sample Info: 17418n clj78iw001

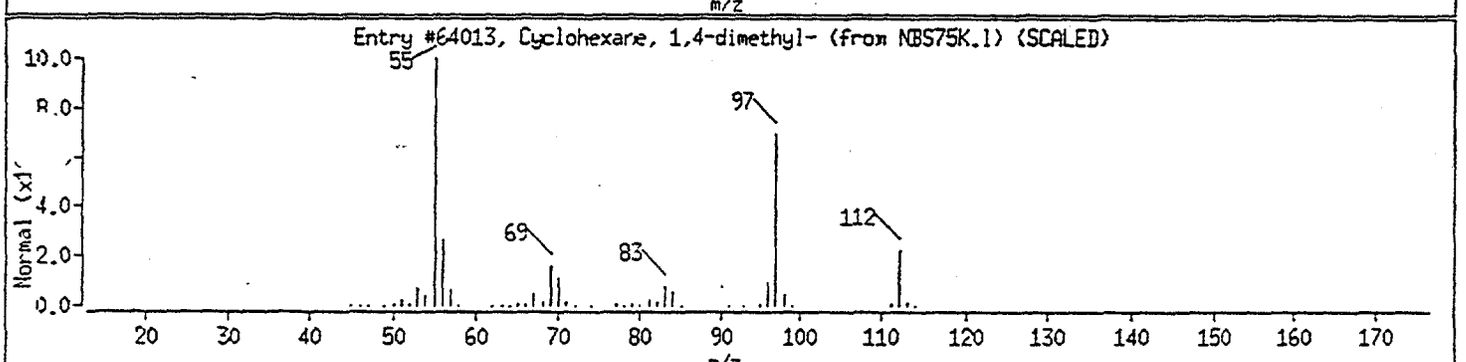
Operator: K. Bigelow

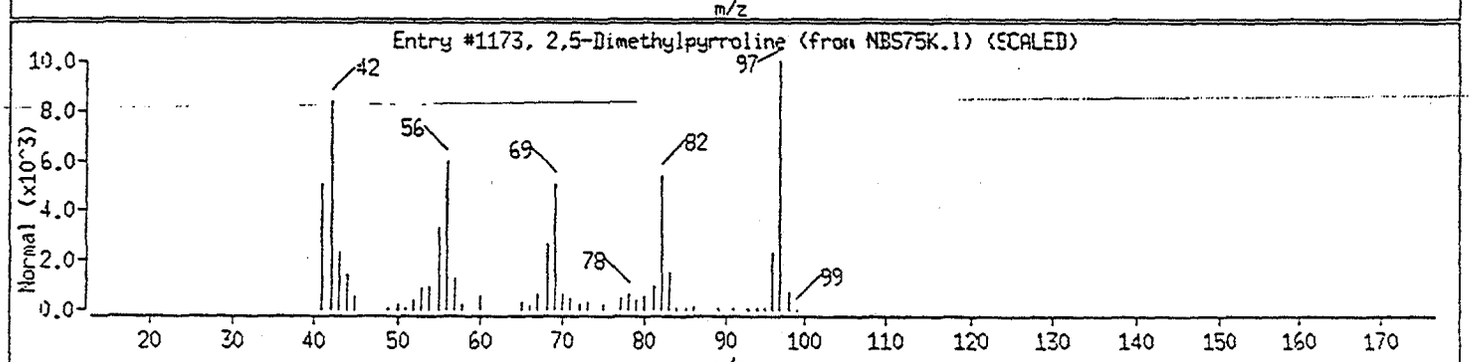
Column phase: J&W DB-5

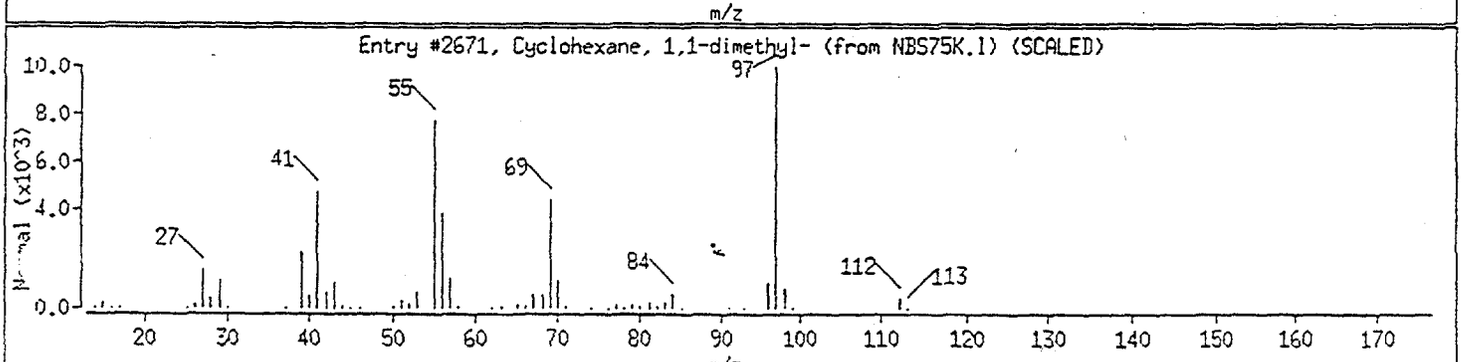
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, 1,4-dimethyl-	589-90-2	NBS75K.l	64013	46	C8H16	112
2,5-Dimethylpyrroline	0-00-0	NBS75K.l	1173	45	C6H11N	97
Cyclohexane, 1,1-dimethyl-	590-66-9	NBS75K.l	2671	43	C8H16	112









Data File: /chem/aux/msb.i/b012296.b/b9559.d

Date : 22-JAN-96 12:14

Client ID:

Instrument: msb.i

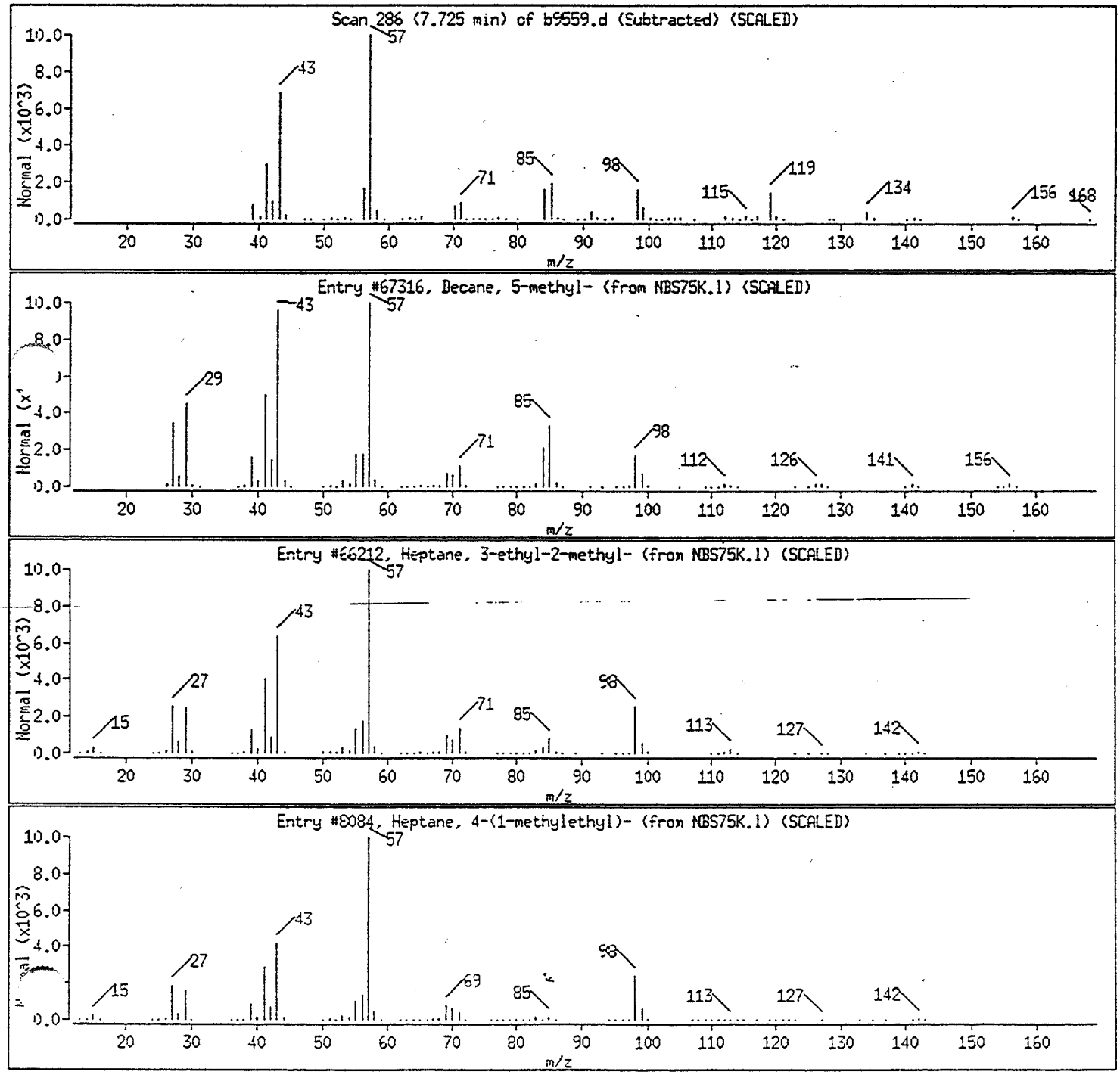
Sample Info: 17418n clj78iw001

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane, 5-methyl-	13151-35-4	NBS75K.l	67316	58	C11H24	156
Heptane, 3-ethyl-2-methyl-	14676-29-0	NBS75K.l	66212	50	C10H22	142
Heptane, 4-(1-methylethyl)-	52896-87-4	NBS75K.l	8084	47	C10H22	142



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Date : 22-JAN-96 12:14

Client ID:

Instrument: msb.i

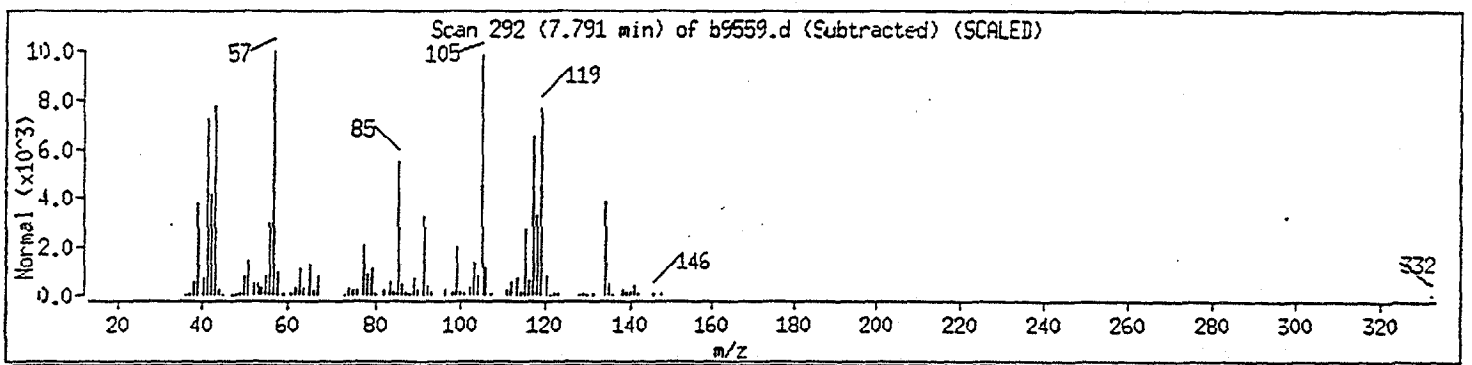
Sample Info: 17418n clj78iw001

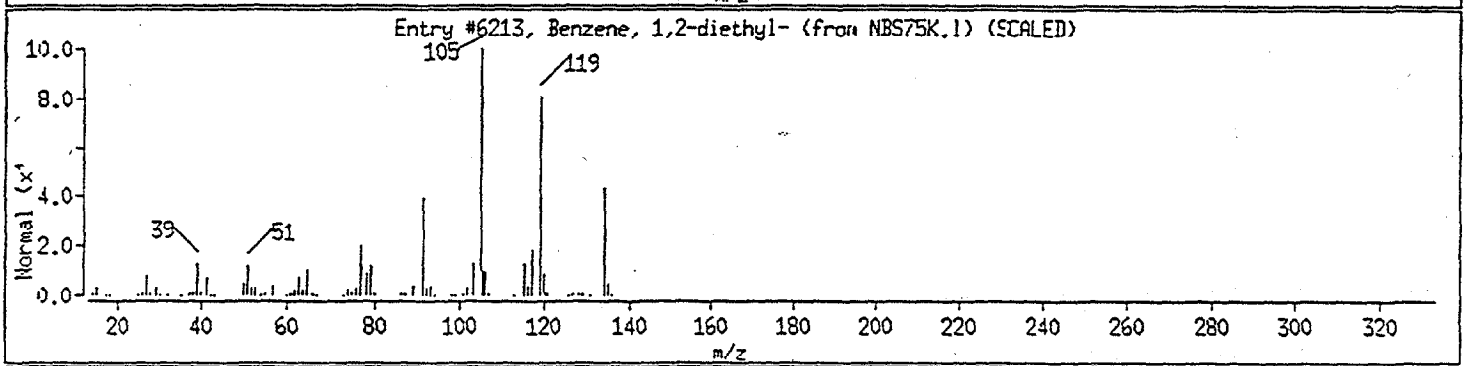
Operator: K. Bigelow

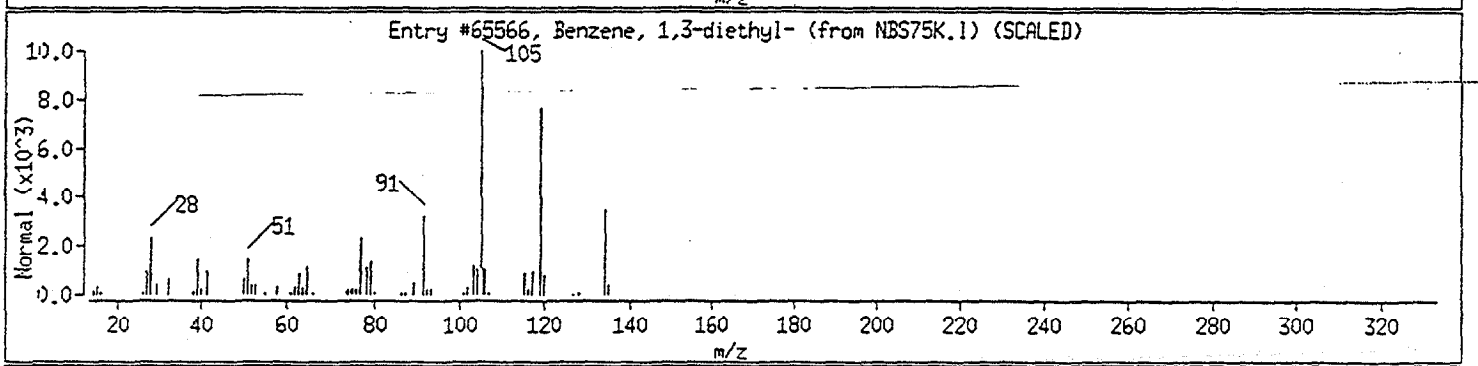
Column phase: J&W DB-5

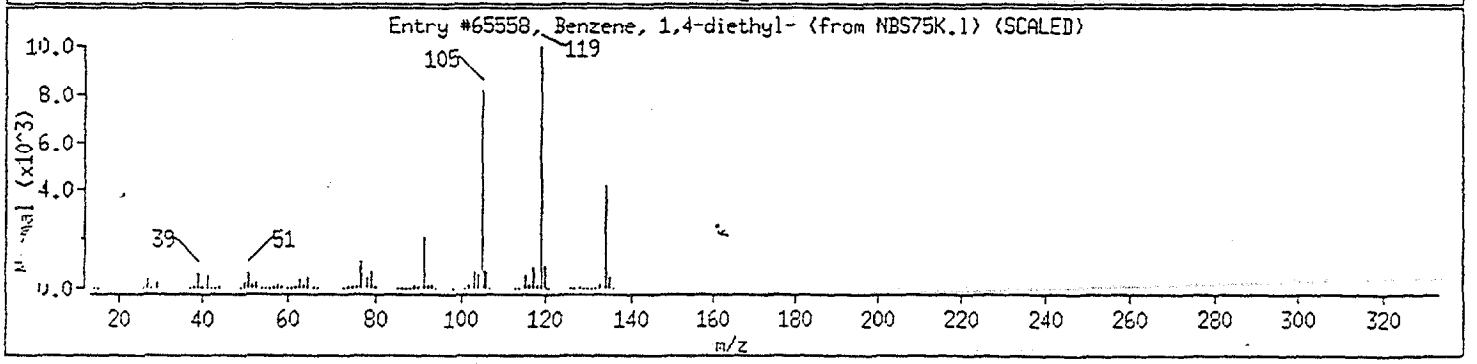
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2-diethyl-	135-01-3	NBS75K.1	6213	90	C10H14	134
Benzene, 1,3-diethyl-	141-93-5	NBS75K.1	65566	87	C10H14	134
Benzene, 1,4-diethyl-	105-05-5	NBS75K.1	65558	43	C10H14	134









Data File: /chem/aux/msb.i/b012296.b/b9559.d

Date : 22-JAN-96 12:14

Client ID:

Instrument: msb.i

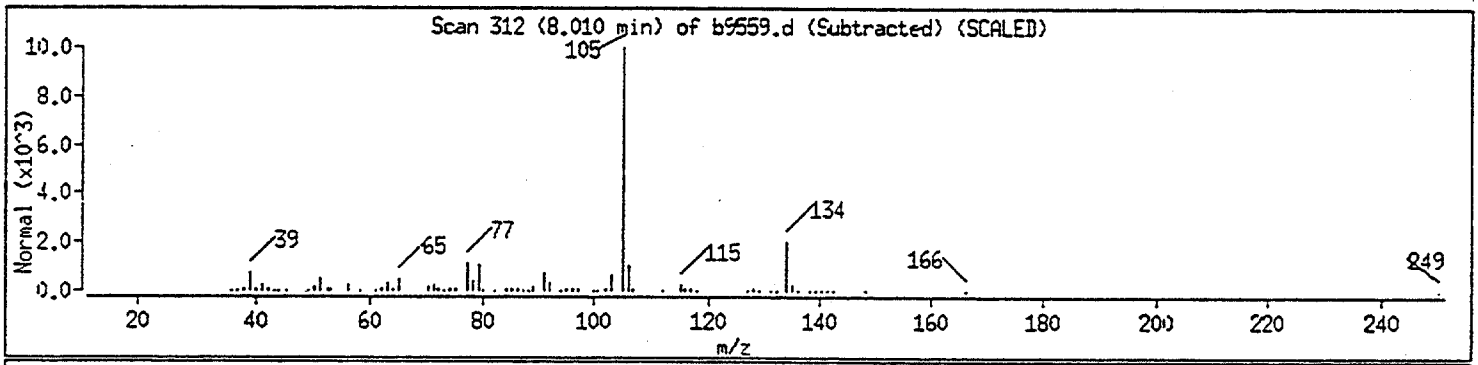
Sample Info: 17418n clj78iw001

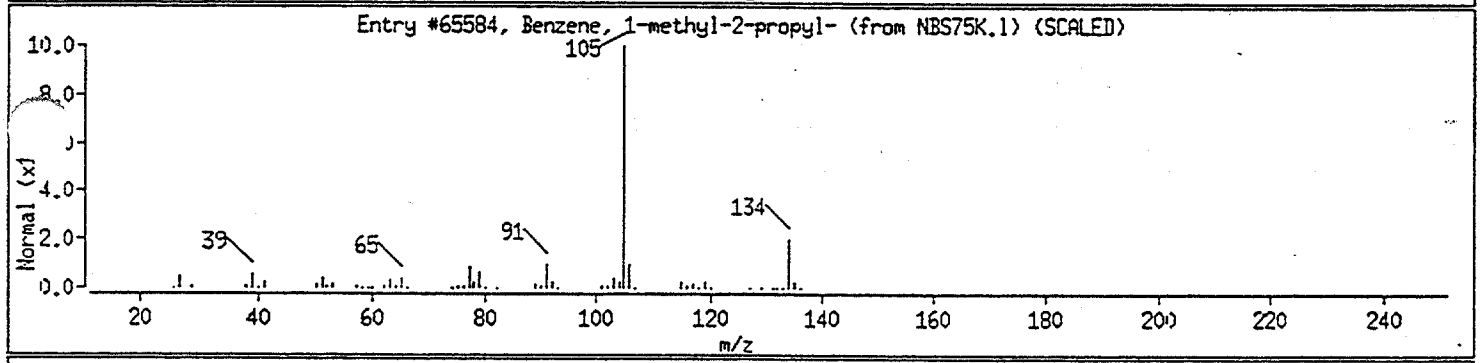
Operator: K. Bigelow

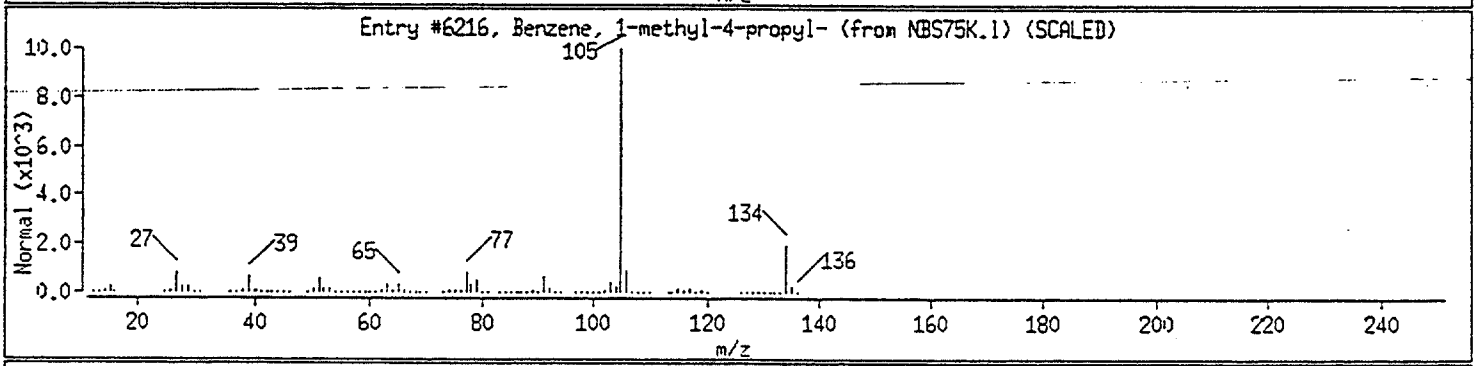
Column phase: J&W DB-5

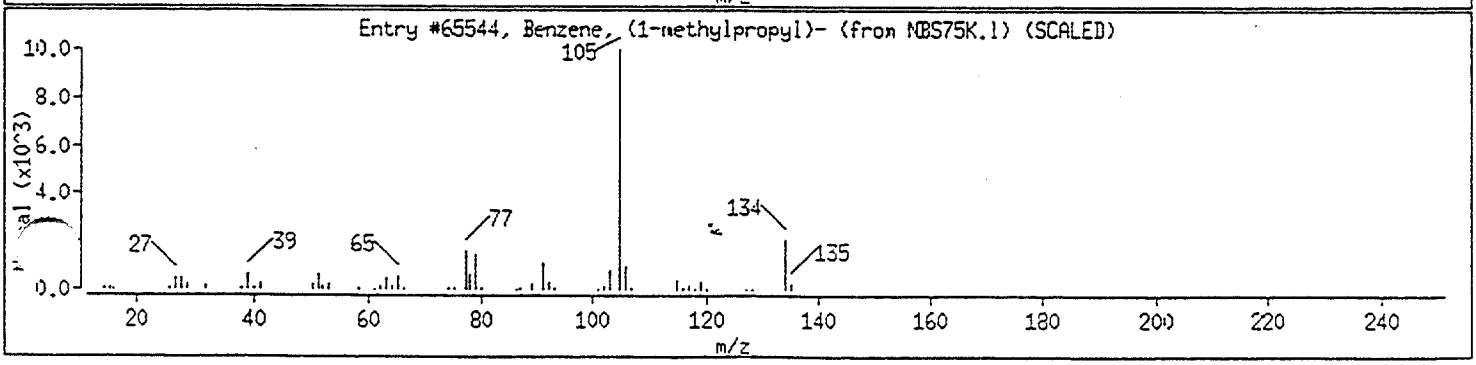
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-2-propyl-	1074-17-5	NBS75K.l	65584	90	C10H14	134
Benzene, 1-methyl-4-propyl-	1074-55-1	NBS75K.l	6216	87	C10H14	134
Benzene, (1-methylpropyl)-	135-98-8	NBS75K.l	65544	87	C10H14	134









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Injection Date: 22-JAN-96 12:14
Instrument: msb.i
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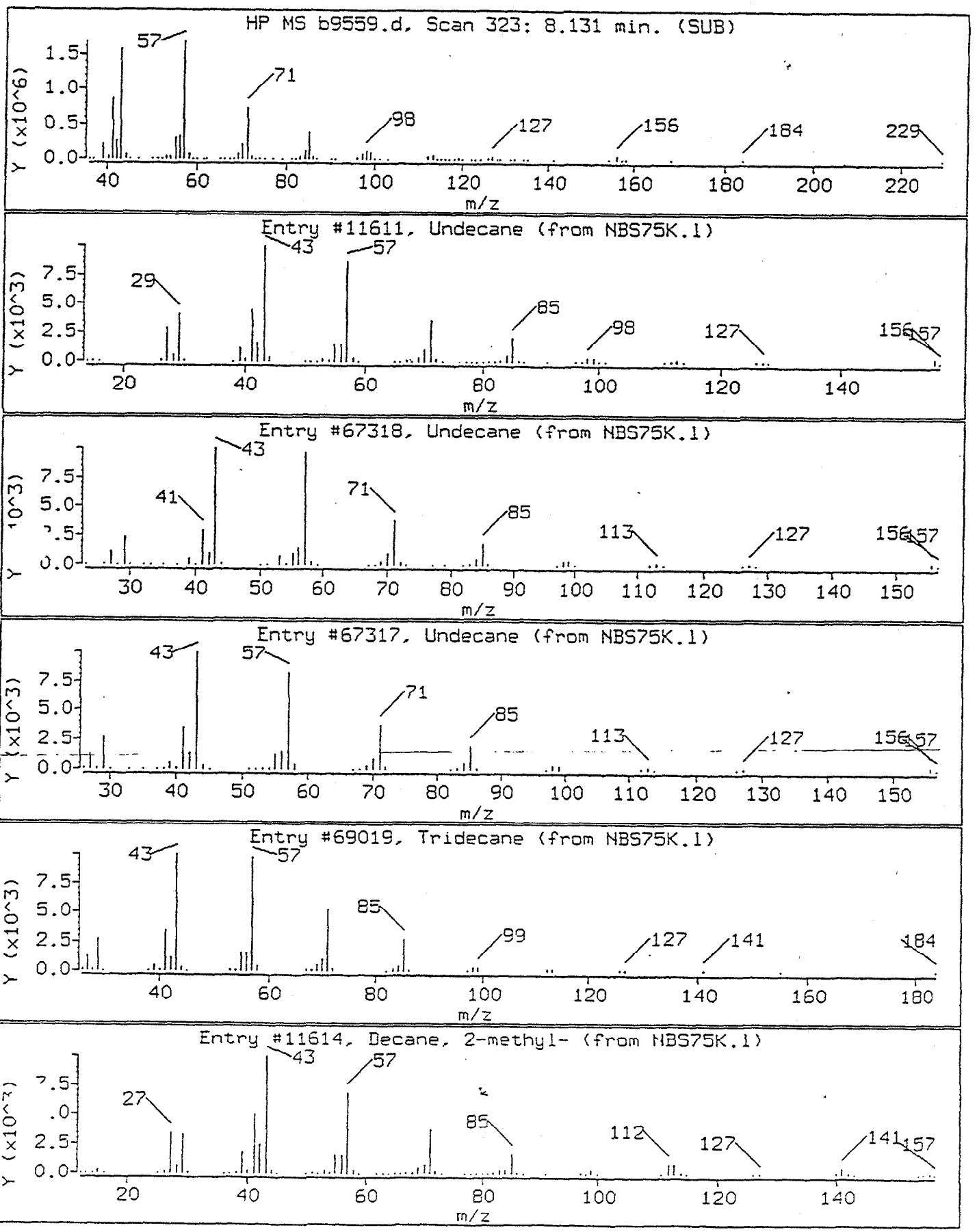


Data File: /chem/aux/msb.i/b012296.b/b9559.d

Date : 22-JAN-96 12:14

Client ID:

Instrument: msb.i

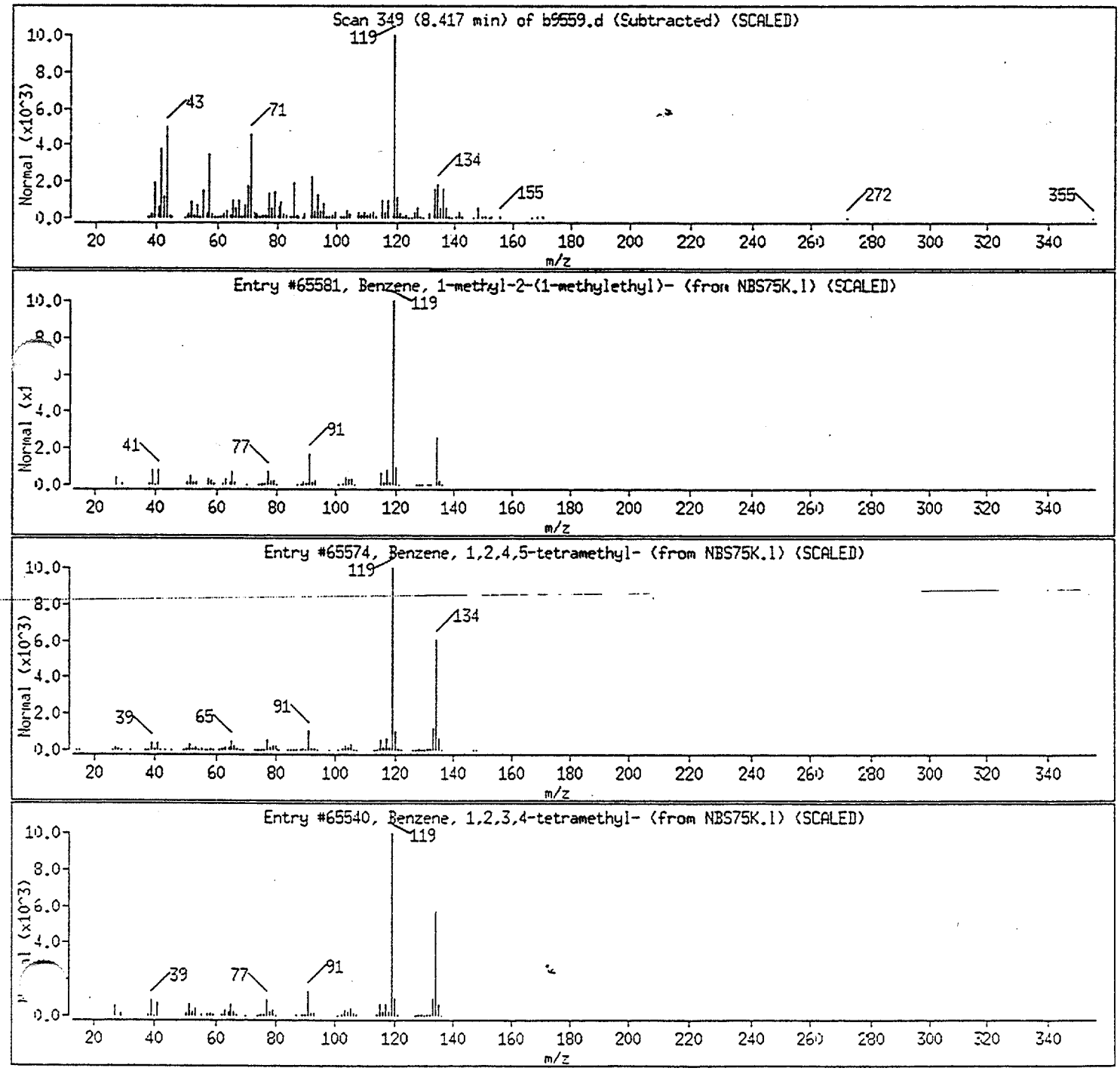
Sample Info: 17418n clj78iw001

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NBS75K.l	65581	55	C10H14	134
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NBS75K.l	65574	55	C10H14	134
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NBS75K.l	65540	49	C10H14	134



Data File: /chem/aux/msb.i/b012296.b/b9559.d

Date : 22-JAN-96 12:14

Client ID:

Instrument: msb.i

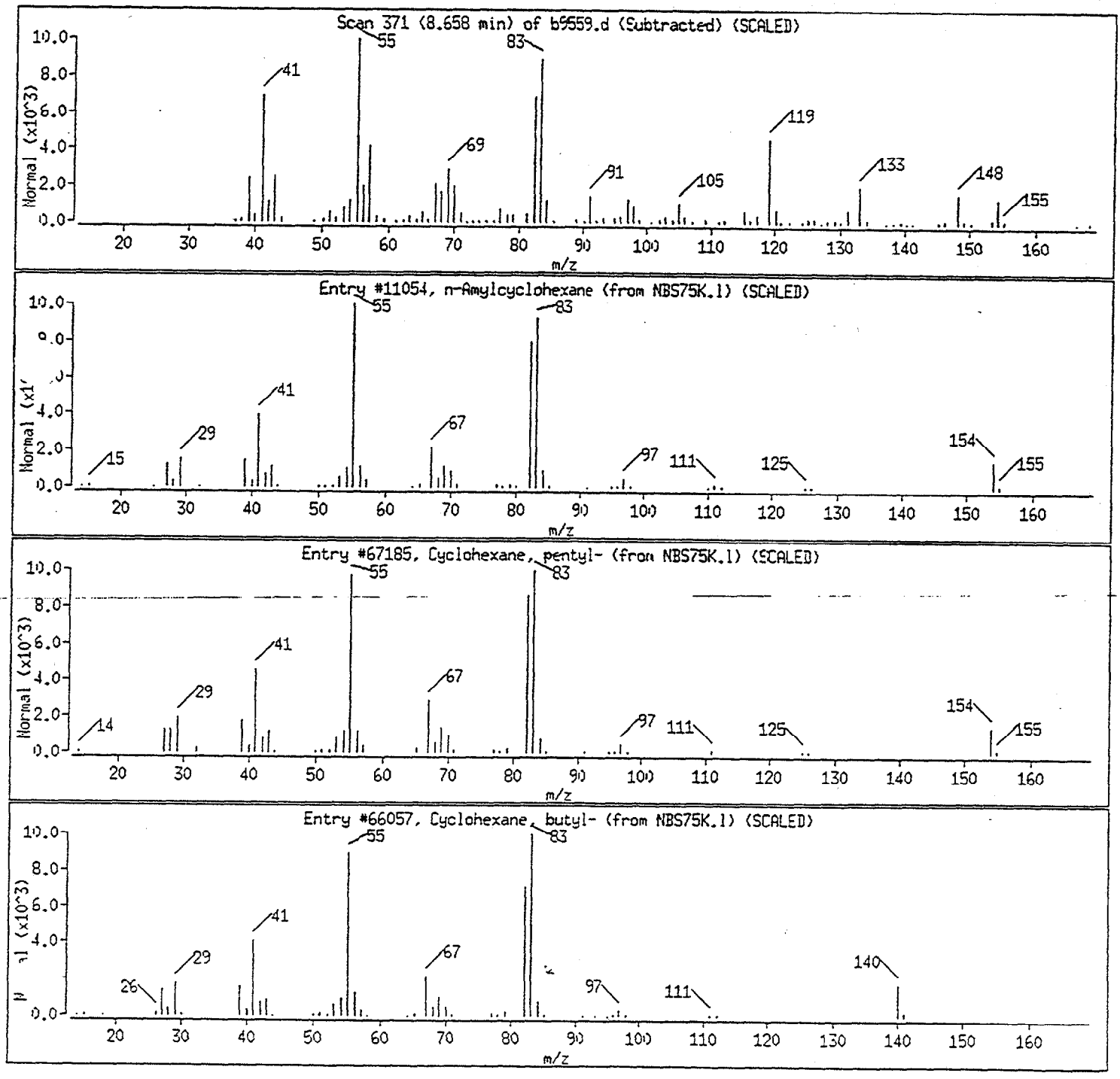
Sample Info: 17418n clj78iw001

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
n-Amylcyclohexane	29949-27-7	NBS75K.l	11054	53	C11H22	154
Cyclohexane, pentyl-	4292-92-6	NBS75K.l	67185	53	C11H22	154
Cyclohexane, butyl-	1678-93-9	NBS75K.l	66057	43	C10H20	140



Data File: /chem/aux/msb.i/b012296.b/b9559.d

Date : 22-JAN-96 12:14

Client ID:

Instrument: msb.i

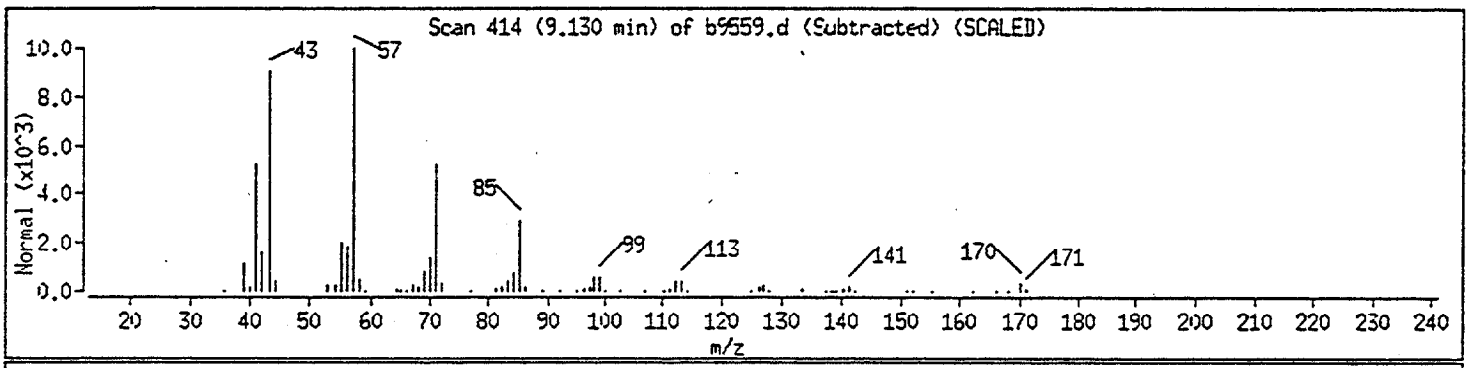
Sample Info: 17418n clj78iw001

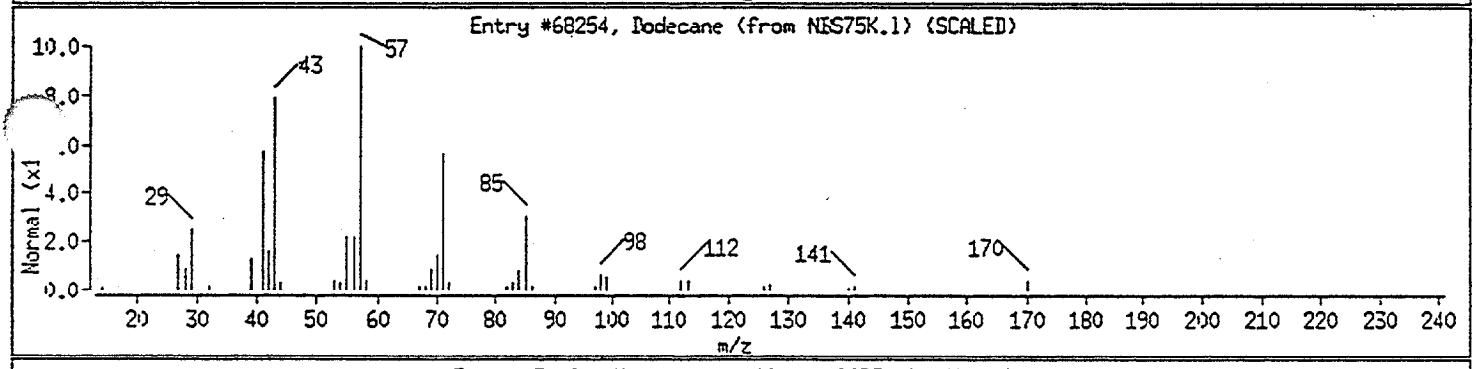
Operator: K. Bigelow

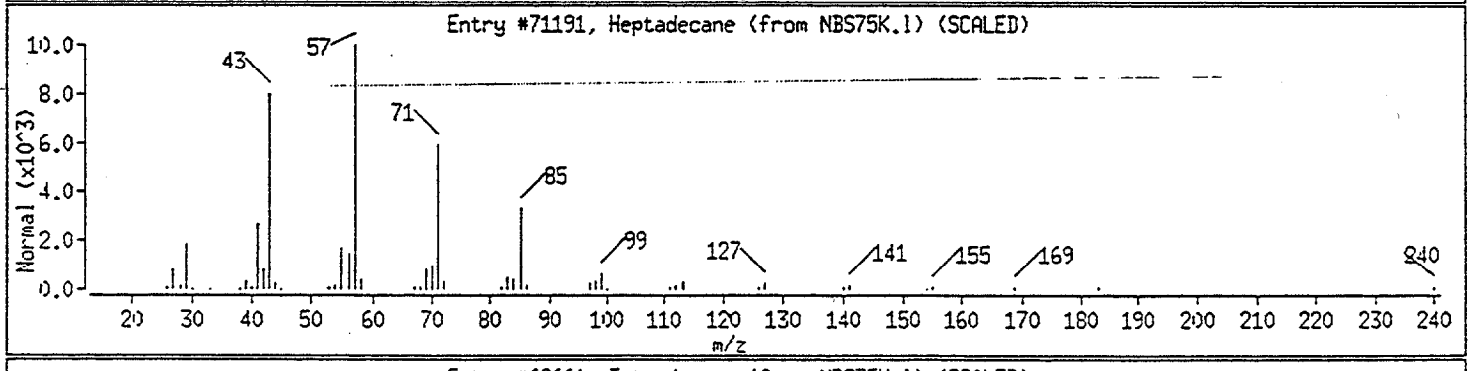
Column phase: J&W DB-5

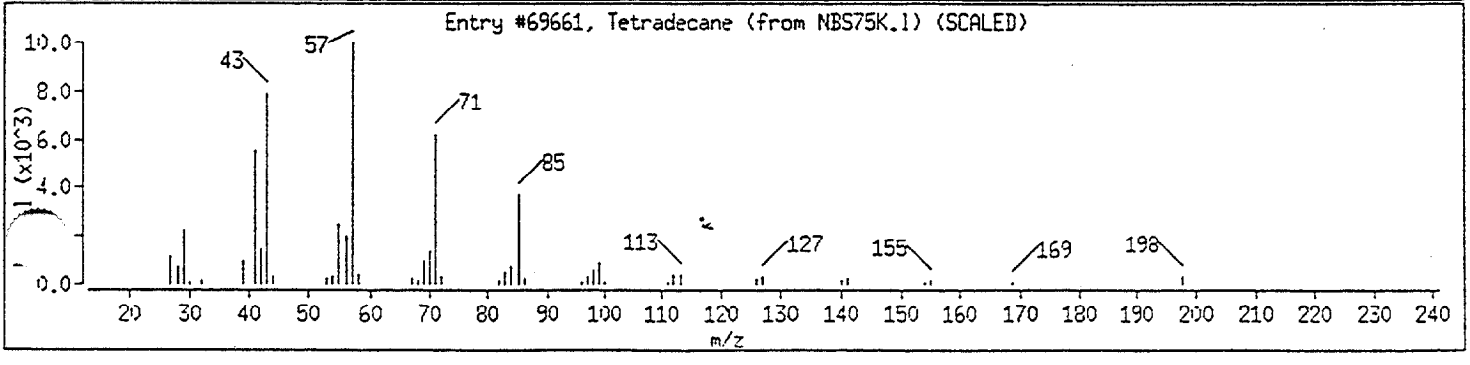
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Dodecane	112-40-3	NBS75K.l	68254	96	C12H26	170
Heptadecane	629-78-7	NBS75K.l	71191	91	C17H36	240
Tetradecane	629-59-4	NBS75K.l	69661	90	C14H30	198









1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0096 EPA SAMPLE NO.

CLJ78FB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: JP2542C

Sample wt/vol: 610 (g/mL) ML Lab File ID: B9545

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/20/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	16	U
111-44-4	bis(2-Chloroethyl)ether	16	U
95-57-8	2-Chlorophenol	16	U
541-73-1	1,3-Dichlorobenzene	16	U
106-46-7	1,4-Dichlorobenzene	16	U
95-50-1	1,2-Dichlorobenzene	16	U
95-48-7	2-Methylphenol	16	U
108-60-1	2,2'-oxybis(1-Chloropropane)	16	U
106-44-5	4-Methylphenol	16	U
621-64-7	N-Nitroso-di-n-propylamine	16	U
67-72-1	Hexachloroethane	16	U
98-95-3	Nitrobenzene	16	U
78-59-1	Isophorone	16	U
88-75-5	2-Nitrophenol	16	U
105-67-9	2,4-Dimethylphenol	16	U
111-91-1	bis(2-Chloroethoxy)methane	16	U
120-83-2	2,4-Dichlorophenol	16	U
120-82-1	1,2,4-Trichlorobenzene	16	U
91-20-3	Naphthalene	16	U
106-47-8	4-Chloroaniline	16	U
87-68-3	Hexachlorobutadiene	16	U
59-50-7	4-Chloro-3-methylphenol	16	U
91-57-6	2-Methylnaphthalene	16	U
77-47-4	Hexachlorocyclopentadiene	16	U
88-06-2	2,4,6-Trichlorophenol	16	U
95-95-4	2,4,5-Trichlorophenol	16	U
91-58-7	2-Chloronaphthalene	16	U
88-74-4	2-Nitroaniline	16	U
131-11-3	Dimethylphthalate	16	U
208-96-8	Acenaphthylene	16	U
606-20-2	2,6-Dinitrotoluene	16	U
99-09-2	3-Nitroaniline	16	U
83-32-9	Acenaphthene	16	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0097 EPA SAMPLE NO.

CLJ78FB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: JP2542C

Sample wt/vol: 610 (g/mL) ML Lab File ID: B9545

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/20/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	82	U
100-02-7	4-Nitrophenol	82	U
132-64-9	Dibenzofuran	16	U
121-14-2	2,4-Dinitrotoluene	16	U
84-66-2	Diethylphthalate	16	U
7005-72-3	4-Chlorophenyl-phenylether	16	U
86-73-7	Fluorene	16	U
100-01-6	4-Nitroaniline	16	U
534-52-1	4,6-Dinitro-2-methylphenol	41	U
101-55-3	4-Bromophenyl-phenylether	16	U
86-30-6	N-Nitrosodiphenylamine (1)	16	U
118-74-1	Hexachlorobenzene	16	U
87-86-5	Pentachlorophenol	16	U
85-01-8	Phenanthrene	16	U
120-12-7	Anthracene	16	U
86-74-8	Carbazole	16	U
84-74-2	Di-n-butylphthalate	16	U
206-44-0	Fluoranthene	16	U
129-00-0	Pyrene	16	U
85-68-7	Butylbenzylphthalate	16	U
91-94-1	3,3'-Dichlorobenzidine	16	U
56-55-3	Benzo(a)anthracene	16	U
218-01-9	Chrysene	16	U
117-81-7	bis(2-Ethylhexyl)phthalate	16	U
117-84-0	Di-n-octylphthalate	16	U
205-99-2	Benzo(b)fluoranthene	16	U
207-08-9	Benzo(k)fluoranthene	16	U
50-32-8	Benzo(a)pyrene	16	U
193-39-5	Indeno(1,2,3-cd)pyrene	16	U
53-70-3	Dibenz(a,h)anthracene	16	U
191-24-2	Benzo(g,h,i)perylene	16	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0098 EPA SAMPLE NO.

CLJ78FB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: JP2542C

Sample wt/vol: 610 (g/mL) ML Lab File ID: B9545

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/20/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	123-42-2	2-Pentanone, 4-hydroxy-4-met	5.86	9	JNA
2.	2313-65-7	2-Hexanol, 3-methyl-	6.06	20	JN
3.	111-76-2	Ethanol, 2-butoxy-	6.39	12	JN
4.	90-05-1	Phenol, 2-methoxy-	8.17	14	JN

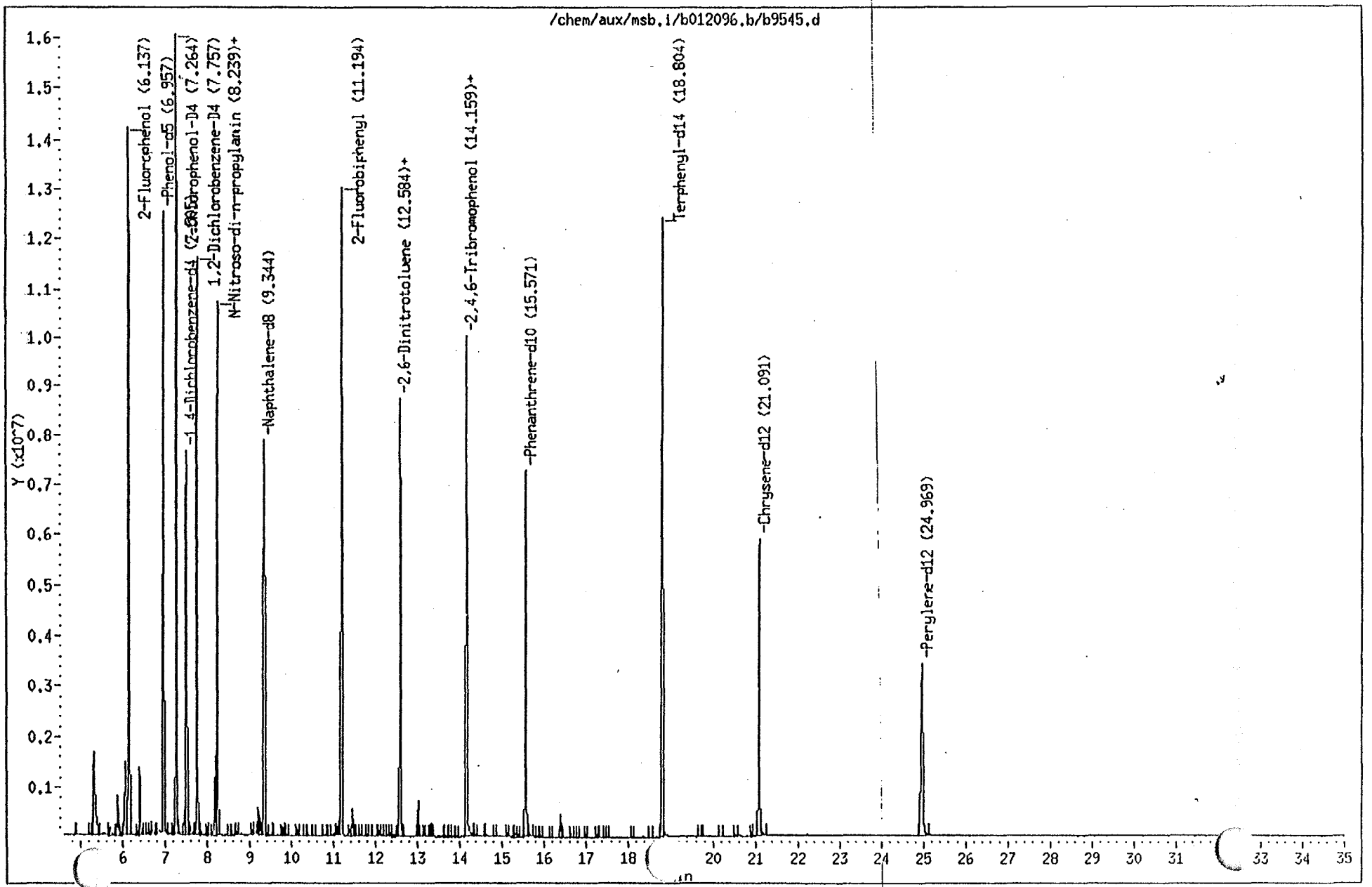
0099

Data File: /chem/aux/msb.i/b012096.b/b9545.d
Date : 20-JAN-96 17:08
Client ID:
Sample Info: 17418n clj78fb001

Column phase: J&W DB-5

Instrument: msb.i

Operator: K. Bigelow
Column diameter: 0.25



Data File: /chem/aux/msb.i/b012096.b/b9545.d
Report Date: 22-Jan-1996 07:10

OHM Analytical Division

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b012096.b/b9545.d
Lab Smp Id:
Inj Date : 20-JAN-96 17:08
Operator : K. Bigelow Inst ID: msb.i
Smp Info : 17418n clj78fb001
Misc Info : jp2542c,n1c60123,m1,1,1
Comment :
Method : /chem/aux/msb.i/b012096.b/0112996bclp.m
Meth Date : 22-Jan-1996 07:08 kathryn Quant Type: ISTD
Cal Date : 20-JAN-96 10:52 Cal File: b9537a.d
Als bottle: 10
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

K Bigelow

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)	
$	2	2-Fluorophenol	112.00	6.137	6.126	(0.813)	6397213	91.1	91.1(R)	
$	4	Phenol-d5	99.00	6.957	6.946	(0.927)	5876297	68.8	68.8(R)	
$	7	2-Chlorophenol-D4	132.00	7.264	7.263	(0.968)	7066086	105	105(R)	
*	10	1,4-Dichlorobenzene-d4	152.00	7.505	7.504	(1.000)	2121086	40.0		
$	13	1,2-Dichlorobenzene-D4	152.00	7.757	7.756	(1.034)	3098429	69.2	69.2(R)	
	17	N-Nitroso-di-n-propylamine	70.00	8.239	7.965	(1.098)	844224	13.6	~~13.6~~(Q)	ND, Rt, MS
$	19	Nitrobenzene-d5	82.00	8.239	8.239	(0.882)	5022262	69.8	69.8(R)	
*	27	Naphthalene-d8	136.00	9.344	9.346	(1.000)	6760304	40.0		
$	37	2-Fluorobiphenyl	172.00	11.205	11.200	(0.890)	8309469	71.3	71.3(R)	
	41	2,6-Dinitrotoluene	165.00	12.584	12.133	(1.000)	466175	13.0	~~13.0~~(Q)	ND, Rt, MS
*	44	Acenaphthene-d10	164.00	12.584	12.583	(1.000)	3646492	40.0		
	48	2,4-Dinitrotoluene	165.00	12.584	12.912	(1.000)	495821	10.4	~~10.4~~(Q)	ND, Rt, MS
$	56	2,4,6-Tribromophenol	330.00	14.159	14.164	(1.125)	2735747	124	124(R)	
	57	4-Bromophenyl-phenylether	248.00	14.159	14.559	(0.910)	181159	4.84	~~4.84~~(Q)	ND, Rt, MS
*	60	Phenanthrene-d10	188.00	15.560	15.569	(1.000)	5427949	40.0		
$	68	Terphenyl-d14	244.00	18.804	18.794	(0.892)	8435333	82.2	82.2(R)	
*	73	Chrysene-d12	240.00	21.091	21.089	(1.000)	3949237	40.0		
*	79	Perylene-d12	264.00	24.969	24.974	(1.000)	4136534	40.0		

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: /chem/aux/msb.i/b012096.b/b9545.d

Date : 20-JAN-96 17:08

Client ID:

Instrument: msb.i

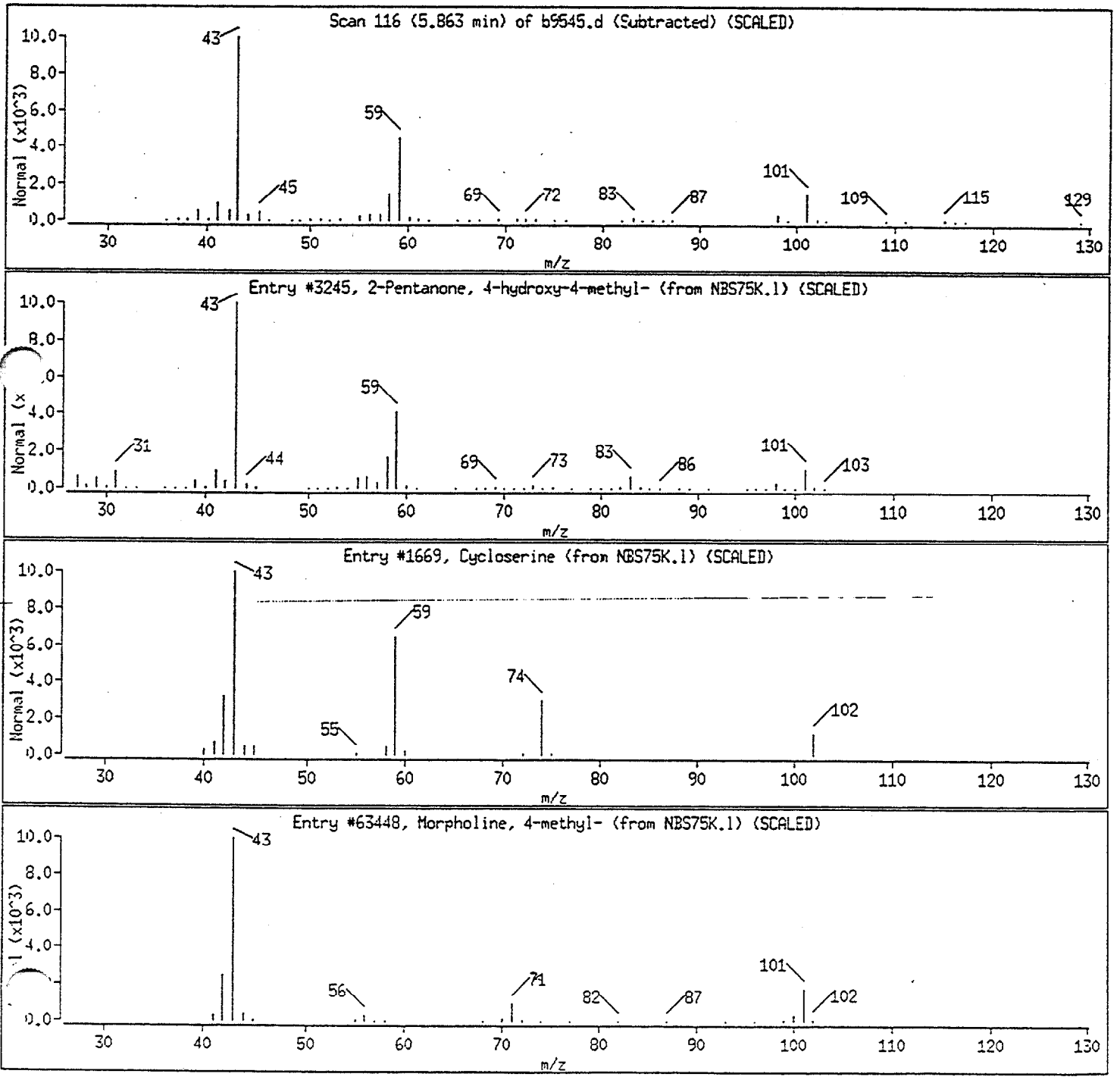
Sample Info: 17418n clj78fb001

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NBS75K.l	3245	64	C6H12O2	116
Cycloserine	68-41-7	NBS75K.l	1669	42	C3H6N2O2	102
Morpholine, 4-methyl-	109-02-4	NBS75K.l	63448	27	C5H11NO	101



Data File: /chem/aux/msb.i/b012096.b/b9545.d

Date : 20-JAN-96 17:08

Client ID:

Instrument: msb.i

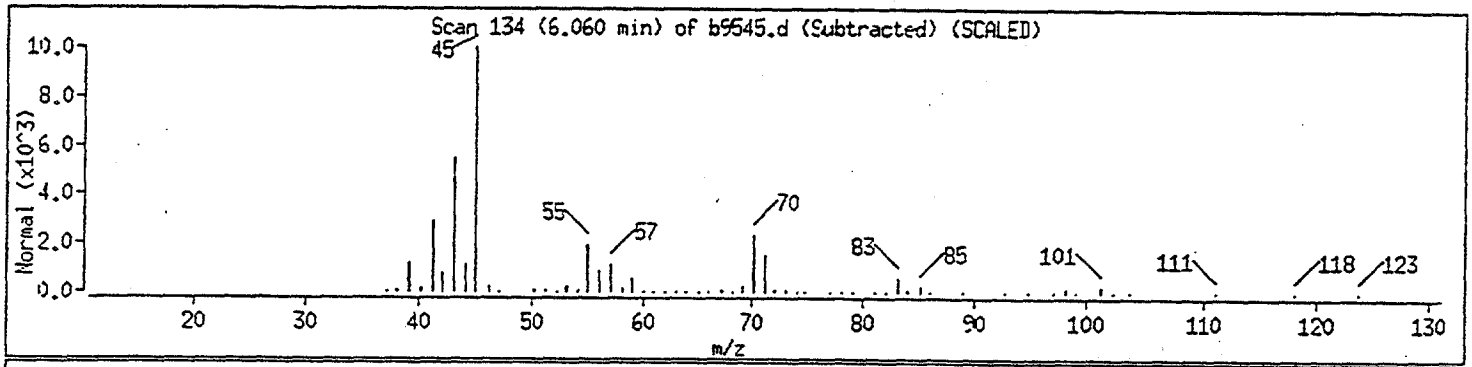
Sample Info: 17418n clj78fb001

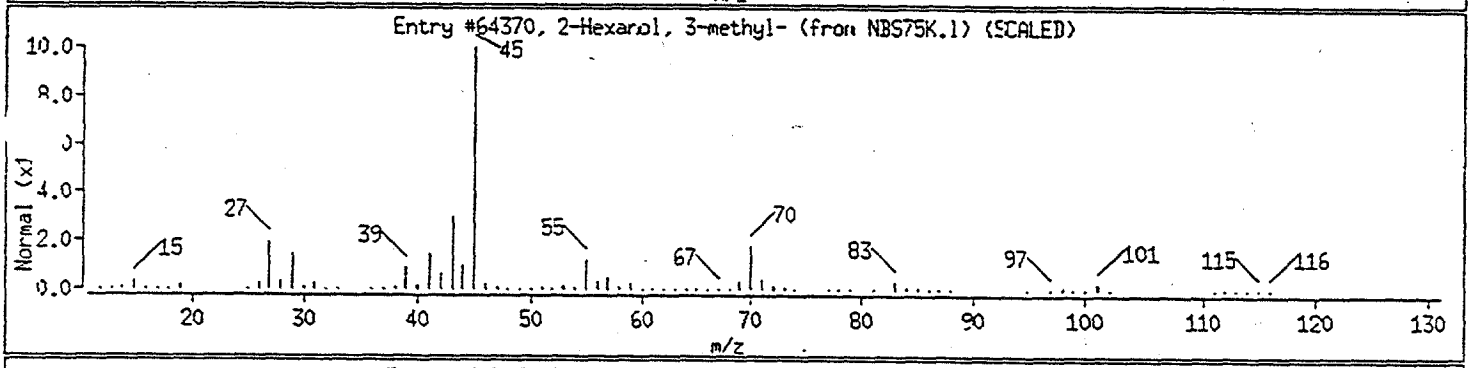
Operator: K. Bigelow

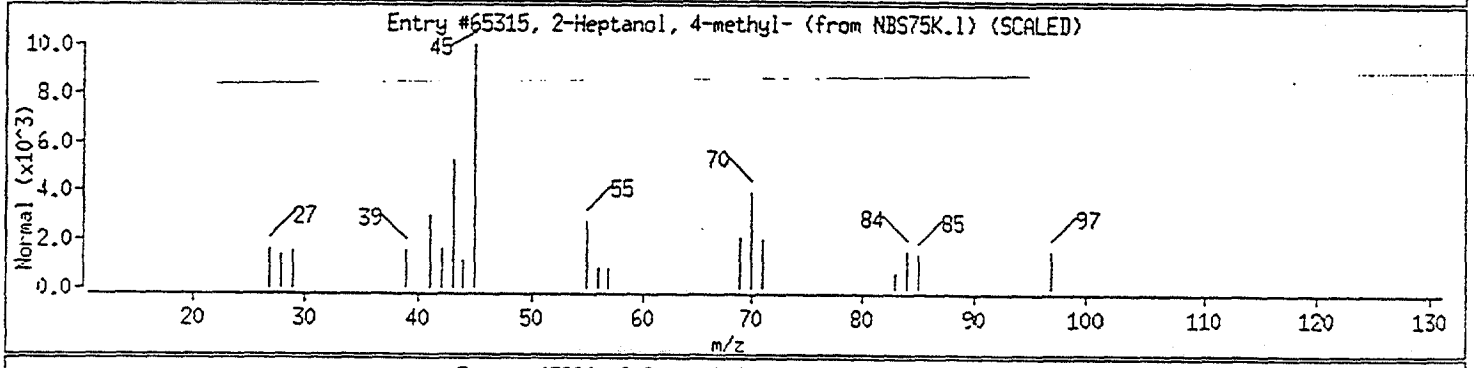
Column phase: J&W DB-5

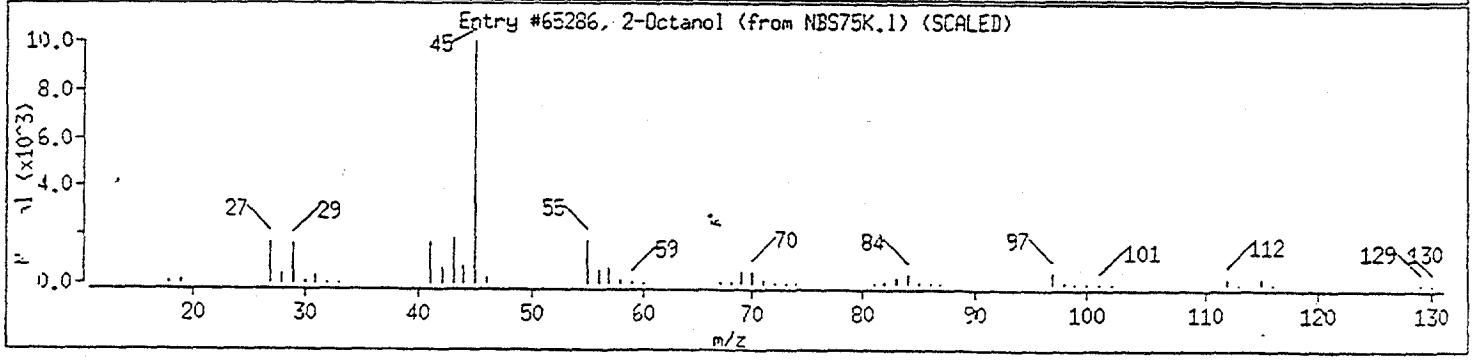
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Hexanol, 3-methyl-	2313-65-7	NBS75K.l	64370	74	C7H160	116
2-Heptanol, 4-methyl-	56298-90-9	NBS75K.l	65315	64	C8H180	130
2-Octanol	123-96-6	NBS75K.l	65286	59	C8H180	130









Data File: /chem/aux/msb.i/b012096.b/b9545.d

Date : 20-JAN-96 17:08

Client ID:

Instrument: msb.i

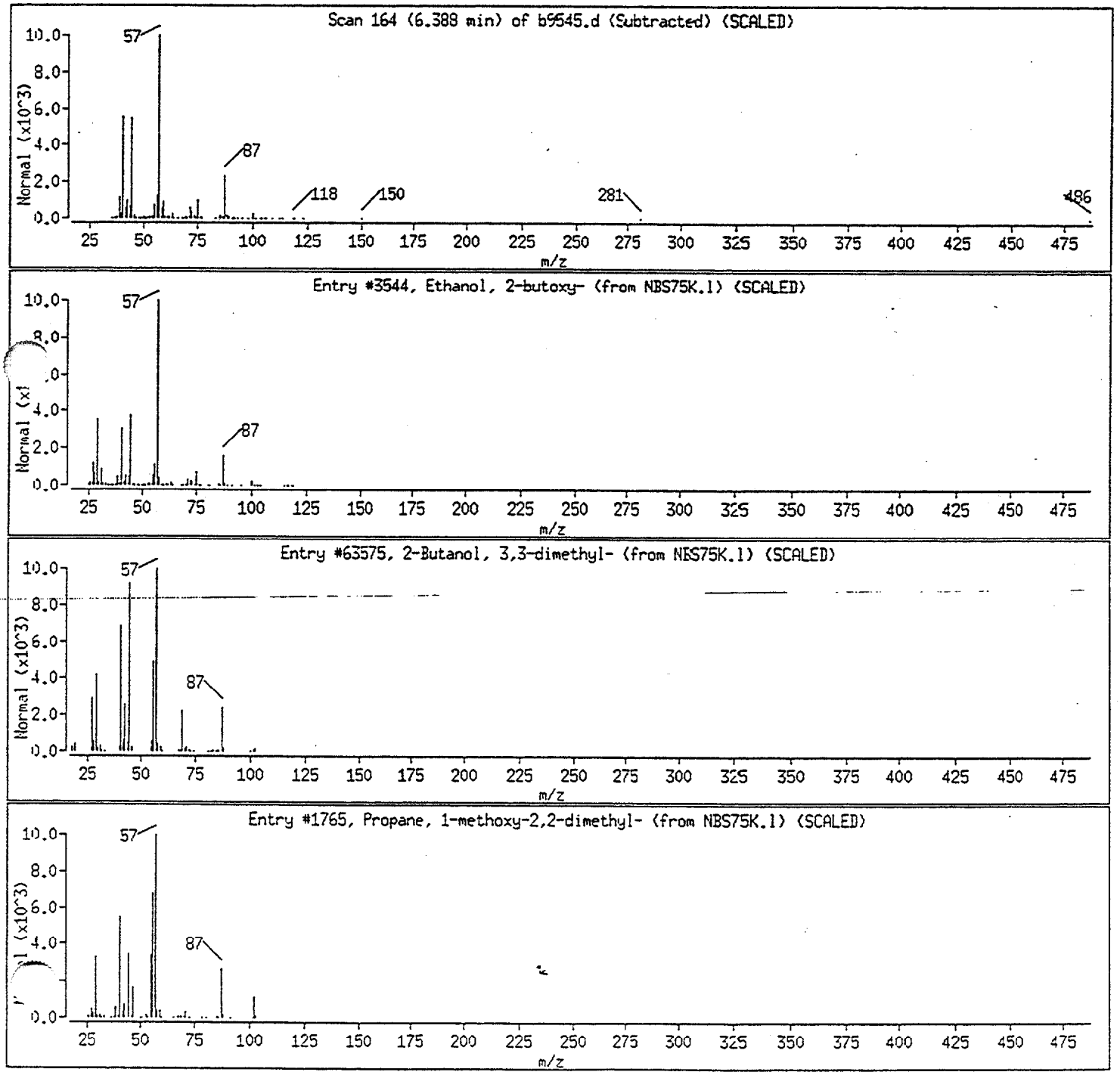
Sample Info: 17418n clj78fb001

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethanol, 2-butoxy-	111-76-2	NBS75K.l	3544	59	C6H1402	118
2-Butanol, 3,3-dimethyl-	464-07-3	NBS75K.l	63575	53	C6H140	102
Propane, 1-methoxy-2,2-dimethyl-	1118-00-9	NBS75K.l	1765	45	C6H140	102



Data File: /chem/aux/msb.i/b012096.b/b9545.d

Date : 20-JAN-96 17:08

Client ID:

Instrument: msb.i

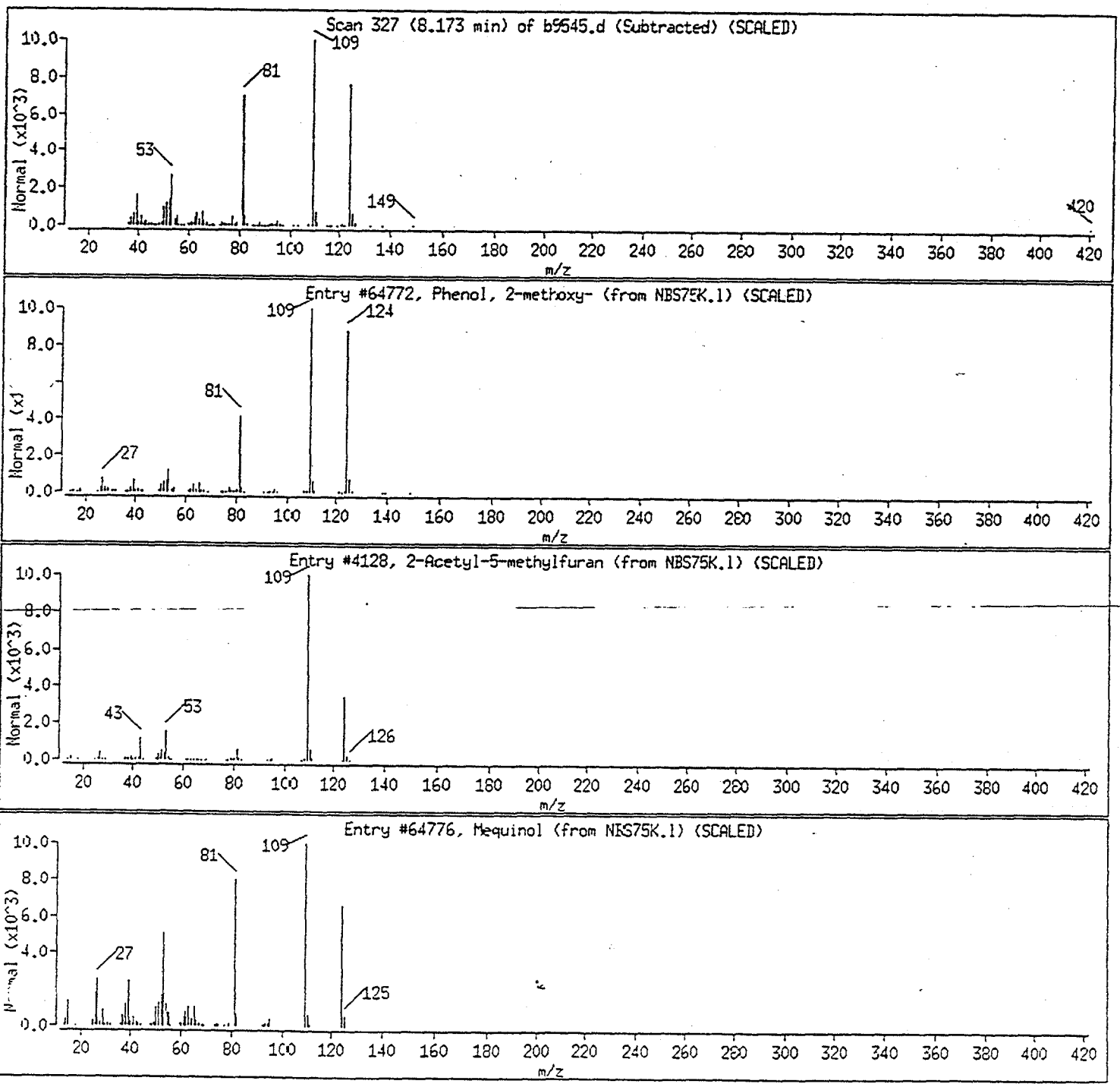
Sample Info: 17418n clj78fb001

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Phenol, 2-methoxy-	90-05-1	NBS75K.l	64772	95	C7H8O2	124
2-Acetyl-5-methylfuran	1193-79-9	NBS75K.l	4128	86	C7H8O2	124
Mequinol	150-76-5	NBS75K.l	64776	86	C7H8O2	124



Report Date : 17-Jan-1996 16:27 Page 1

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 12-JAN-96 16:40
End Cal Date : 12-JAN-96 19:42
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/aux/msb.i/b011296a.b/0112996bclp.m
Cal Date : 17-Jan-1996 16:27 kathryn
Curve Type : Average

Calibration File Names:
Level 1: /chem/aux/msb.i/b011296a.b/b9401a.d
Level 2: /chem/aux/msb.i/b011296a.b/b9402a.d
Level 3: /chem/aux/msb.i/b011296a.b/b9403a.d
Level 4: /chem/aux/msb.i/b011296a.b/b9404a.d
Level 5: /chem/aux/msb.i/b011296a.b/b9405a.d

	Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD	
1	N-Nitrosodimethylamine	0.95082	0.91734	0.96450	0.94172	0.98026	0.95093	2.498	
2	Pyridine	1.78708	1.71723	1.79509	1.72989	1.77036	1.75993	1.970	
5	Phenol	1.78787	1.65578	1.60233	1.50414	1.41719	1.59346	8.920	
6	bis(2-Chloroethyl)ether	3.62173	3.30704	3.17860	2.92879	2.67038	3.14131	11.550	
8	2-Chlorophenol	1.54961	1.40085	1.35549	1.27120	1.16880	1.34939	10.579	
9	1,3-Dichlorobenzene	1.65983	1.50594	1.49082	1.41822	1.33999	1.48296	8.015	
11	1,4-Dichlorobenzene	1.67077	1.49454	1.46220	1.38296	1.27205	1.45650	10.115	
12	2-Methylphenol	1.27635	1.19970	1.17545	1.13610	1.06904	1.17133	6.551	
14	1,2-Dichlorobenzene	1.54503	1.33576	1.21214	1.08494	0.93207	1.22199	19.202	
15	2,2'-oxybis(1-Chloropropene)	2.33286	2.17536	2.08663	2.02249	1.88685	2.10084	7.948	
16	4-Methylphenol	1.33305	1.27470	1.24457	1.22249	1.20933	1.25683	3.921	
17	N-Nitroso-di-n-propylamine	1.22128	1.20289	1.16578	1.18494	1.13131	1.18124	2.938	
18	Hexachloroethane	0.70782	0.65557	0.63738	0.61009	0.57322	0.63682	7.911	
20	Nitrobenzene	0.45317	0.41928	0.40886	0.38635	0.36609	0.40675	8.140	
21	Isophorone	1.00300	0.93541	0.89849	0.84199	0.78479	0.89273	9.412	
22	2,4-Dimethylphenol	0.44120	0.40794	0.38833	0.36887	0.34970	0.39121	9.046	
23	2-Nitrophenol	0.26567	0.26143	0.24645	0.22865	0.21939	0.24432	8.238	
24	bis(2-Chloroethoxy)methane	0.61953	0.56638	0.54655	0.49941	0.45984	0.53834	11.421	
25	2,4-Dichlorophenol	0.35205	0.33758	0.32596	0.30883	0.28814	0.32271	7.728	
26	1,2,4-Trichlorobenzene	0.40837	0.37212	0.35028	0.32297	0.29148	0.34904	12.850	
28	Naphthalene	1.11212	0.97111	0.86792	0.73046	0.63085	0.86249	22.092	<-
29	4-Chloroaniline	0.65954	0.56081	0.51007	0.45184	0.39883	0.51622	19.490	
30	Hexachlorobutadiene	0.22762	0.20222	0.19176	0.17808	0.15443	0.19082	14.282	
31	4-Chloro-3-methylphenol	0.35817	0.35291	0.34457	0.31384	0.31200	0.33632	6.513	
	2-Methylnaphthalene	0.73798	0.65777	0.61435	0.54858	0.50638	0.61301	14.849	
	1-Methylnapthalene	0.73250	0.64676	0.61014	0.53998	0.50346	0.60657	14.872	
34	Hexachlorocyclopentadiene	0.17090	0.23142	0.24272	0.23894	0.21933	0.22066	13.241	

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 12-JAN-96 16:40
End Cal Date : 12-JAN-96 19:42
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/aux/msb.i/b011296a.b/0112996bclp.m
Cal Date : 17-Jan-1996 16:27 kathryn
Curve Type : Average

	Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD	
35	2,4,6-Trichlorophenol	0.48304	0.47887	0.44931	0.43651	0.39271	0.44809	8.178	
36	2,4,5-Trichlorophenol	0.51006	0.50686	0.46524	0.45257	0.40460	0.46787	9.283	
38	2-Chloronaphthalene	1.35697	1.26354	1.16259	1.09160	0.94605	1.16415	13.574	
39	2-Nitroaniline	0.48566	0.48428	0.46624	0.46668	0.44611	0.46979	3.440	
40	Dimethylphthalate	1.80240	1.66143	1.55551	1.45042	1.25073	1.54410	13.564	
41	2,6-Dinitrotoluene	0.44780	0.43690	0.41137	0.40307	0.37091	0.41401	7.296	
?	Acenaphthylene	2.19409	2.01151	1.84311	1.65679	1.37192	1.81548	17.515	
43	3-Nitroaniline	0.45421	0.44618	0.44247	0.43206	0.41103	0.43719	3.809	
45	2,4-Dinitrophenol	+++++	0.12148	0.15765	0.18134	0.17455	0.15880	16.863	
46	Acenaphthene	1.36094	1.20181	1.09945	1.01308	0.87136	1.10933	16.735	<-
47	4-Nitrophenol	0.15331	0.16052	0.16232	0.15705	0.14758	0.15616	3.782	
48	2,4-Dinitrotoluene	0.59919	0.57942	0.56129	0.54244	0.50108	0.55670	6.745	
49	Dibenzofuran	1.90525	1.72260	1.61377	1.47483	1.25951	1.59519	15.352	
50	Diethylphthalate	1.87220	1.66567	1.54957	1.43026	1.21115	1.54577	16.052	
51	4-Chlorophenyl-phenylether	0.79939	0.71314	0.65629	0.59953	0.52583	0.65883	15.904	
52	Fluorene	1.50569	1.28172	1.14895	1.04871	0.94290	1.18559	18.416	
53	4-Nitroaniline	0.42942	0.36544	0.35218	0.33256	0.31738	0.35939	12.030	
54	4,6-Dinitro-2-methylphenol	0.08140	0.15755	0.18796	0.18464	0.17969	0.15825	28.162	
55	N-Nitrosodiphenylamine	0.70478	0.62773	0.59849	0.52676	0.47573	0.58670	15.167	
57	4-Bromophenyl-phenylether	0.29089	0.25878	0.24703	0.22225	0.20359	0.24451	13.765	
58	Hexachlorobenzene	0.40101	0.36008	0.33603	0.30232	0.28250	0.33639	13.945	
59	Pentachlorophenol	0.13545	0.15953	0.17101	0.16591	0.16196	0.15877	8.654	
61	Phenanthrene	1.32801	1.16723	1.06965	0.95889	0.82841	1.07044	17.893	
62	Anthracene	1.30681	1.16889	1.06875	0.94649	0.82000	1.06219	17.820	
63	Carbazole	1.21592	1.07670	1.02091	0.94365	0.85917	1.02327	13.224	
64	Di-n-butylphthalate	2.00889	1.82065	1.48284	1.18735	0.98473	1.49689	28.447	
65	Fluoranthene	1.38812	1.25284	1.14958	1.00489	0.88288	1.13566	17.537	
66	Benzidine	0.51227	0.43685	0.42920	0.42072	0.38207	0.43622	10.877	
67	Pyrene	1.74330	1.55409	1.41627	1.29956	1.16098	1.43484	15.701	
69	Butylbenzylphthalate	1.11376	1.00542	0.94897	0.85517	0.78389	0.94144	13.656	
70	bis(2-Ethylhexyl)phthalate	1.55083	1.36986	1.27910	1.15342	1.03143	1.27693	15.623	
	3,3'-Dichlorobenzidine	0.60051	0.54343	0.52284	0.47565	0.46402	0.52129	10.565	
2	Benzo(a)anthracene	1.49360	1.27456	1.21054	1.13536	1.03864	1.23054	13.923	
74	Chrysene	1.40979	1.26793	1.14974	1.07101	0.98348	1.17639	14.217	

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 12-JAN-96 16:40
End Cal Date : 12-JAN-96 19:42
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/aux/msb.i/b011296a.b/0112996bclp.m
Cal Date : 17-Jan-1996 16:27 kathryn
Curve Type : Average

	Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD
75	Di-n-octylphthalate	2.58191	2.45777	2.25098	2.04036	1.79808	2.22582	14.182
76	Benzo(b)fluoranthene	1.40389	1.31086	1.25365	1.32310	1.23635	1.30557	5.065
77	Benzo(k)fluoranthene	1.34974	1.25228	1.23460	1.16122	1.00949	1.20146	10.540
78	Benzo(a)pyrene	1.17833	1.13943	1.09963	1.10388	1.05308	1.11487	4.207
80	Dibenzo(a,h)anthracene	0.98095	0.90821	0.91044	0.85304	0.81854	0.89423	6.940
81	Indeno(1,2,3-cd)pyrene	1.15533	1.04884	1.04468	1.01484	0.92435	1.03761	7.973
	Benzo(g,h,i)perylene	0.88925	0.86823	0.84095	0.78708	0.72647	0.82240	8.011
S 3	2-Fluorophenol	1.42752	1.36502	1.39941	1.35139	1.32718	1.37410	2.887
S 4	Phenol-d5	1.77455	1.64553	1.60734	1.52424	1.44498	1.59933	7.807
S 7	2-Chlorophenol-D4	1.49317	1.37788	1.32843	1.24601	1.16407	1.32191	9.507
S 13	1,2-Dichlorobenzene-D4	0.98151	0.88864	0.82120	0.75370	0.67600	0.82421	14.336
S 19	Nitrobenzene-d5	0.47831	0.43815	0.42064	0.40147	0.38699	0.42511	8.344
S 37	2-Fluorobiphenyl	1.55416	1.42336	1.27825	1.17865	1.01010	1.28891	16.387
S 56	2,4,6-Tribromophenol	0.25046	0.25757	0.25182	0.24730	0.22899	0.24723	4.389
S 68	Terphenyl-d14	1.20610	1.04044	0.93534	0.86874	0.77245	0.95481	17.265

Data File: /chem/aux/msb.i/b012096.b/b9537a.d
Report Date: 20-Jan-1996 11:10

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

K Bagelow

Instrument ID: msb.i
Lab File ID: b9537a.d
Analysis Type:
Lab Sample ID:
Quant Type: ISTD

Injection Date: 20-JAN-96 10:52
Init. Calibration Date(s): JAN/12/96 JAN/12/96
Init. Calibration Times: 16:40 19:42
Method File: /chem/aux/msb.i/b012096.b/0112996bclp.

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	1 N-Nitrosodimethylamine	0.951	0.980	0.010	3.1	30.0
	2 Pyridine	1.760	1.665	0.010	5.4	30.0
S	3 2-Fluorophenol	1.374	1.324	0.500	3.6	25.0
S	4 Phenol-d5	1.599	1.611	0.800	0.7	25.0
	5 Phenol	1.593	1.632	0.800	2.4	25.0
	6 bis(2-Chloroethyl)ether	3.141	3.254	0.700	3.6	25.0
S	7 2-Chlorophenol-D4	1.322	1.264	0.800	4.4	25.0
	8 2-Chlorophenol	1.349	1.365	0.800	1.2	25.0
	9 1,3-Dichlorobenzene	1.483	1.425	0.500	3.9	25.0
	11 1,4-Dichlorobenzene	1.457	1.475	0.500	1.3	25.0
	12 2-Methylphenol	1.171	1.146	0.700	2.1	25.0
S	13 1,2-Dichlorobenzene-D4	0.824	0.844	0.400	2.4	25.0
	14 1,2-Dichlorobenzene	1.222	1.238	0.400	1.3	25.0
	15 2,2'-oxybis(1-Chloropropene)	2.101	2.390	0.010	13.8	30.0
	16 4-Methylphenol	1.257	1.221	0.600	2.8	25.0
	17 N-Nitroso-di-n-propylamine	1.181	1.166	0.500	1.3	25.0
	18 Hexachloroethane	0.537	0.613	0.300	3.8	25.0
S	19 Nitrobenzene-d5	0.425	0.425	0.200	0.1	25.0
	20 Nitrobenzene	0.407	0.415	0.200	1.9	25.0
	21 Isophorone	0.893	0.867	0.400	2.9	25.0
	22 2,4-Dimethylphenol	0.391	0.389	0.200	0.5	25.0
	23 2-Nitrophenol	0.244	0.256	0.100	4.8	25.0
	24 bis(2-Chloroethoxy)methane	0.538	0.522	0.300	3.0	25.0
	25 2,4-Dichlorophenol	0.323	0.339	0.200	5.0	25.0
	26 1,2,4-Trichlorobenzene	0.349	0.350	0.200	0.2	25.0
	28 Naphthalene	0.862	0.945	0.700	9.6	25.0
	29 4-Chloroaniline	0.516	0.571	0.010	10.7	30.0
	30 Hexachlorobutadiene	0.191	0.179	0.010	6.1	30.0
	31 4-Chloro-3-methylphenol	0.336	0.342	0.200	1.8	25.0
	32 2-Methylnaphthalene	0.613	0.642	0.400	4.7	25.0
	33 1-Methylnapthalene	0.607	0.577	0.010	4.8	30.0
	34 Hexachlorocyclopentadiene	0.221	0.209	0.010	5.4	30.0
	35 2,4,6-Trichlorophenol	0.448	0.452	0.200	0.9	25.0
	36 2,4,5-Trichlorophenol	0.468	0.473	0.200	1.1	25.0
S	37 2-Fluorobiphenyl	1.289	1.278	0.700	0.9	25.0
	38 2-Chloronaphthalene	1.164	1.156	0.800	0.7	25.0
	39 2-Nitroaniline	0.470	0.455	0.010	3.1	30.0
	40 Dimethylphthalate	1.544	1.551	0.010	0.4	30.0
	41 2,6-Dinitrotoluene	0.414	0.393	0.200	5.2	25.0
	42 Acenaphthylene	1.815	1.852	0.900	2.0	25.0

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msb.i
Lab File ID: b9537a.d
Analysis Type:
Lab Sample ID:
Quant Type: ISTD

Injection Date: 20-JAN-96 10:52
Init. Calibration Date(s): JAN/12/96 JAN/12/96
Init. Calibration Times: 16:40 19:42
Method File: /chem/aux/msb.i/b012096.b/0112996bclp.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	43 3-Nitroaniline	0.437	0.408	0.010	6.7	30.0
	45 2,4-Dinitrophenol	0.159	0.122	0.010	22.9	30.0
	46 Acenaphthene	1.109	1.076	0.900	3.0	25.0
	47 4-Nitrophenol	0.156	0.135	0.010	13.8	30.0
	48 2,4-Dinitrotoluene	0.557	0.524	0.200	5.9	25.0
	49 Dibenzofuran	1.595	1.659	0.800	4.0	25.0
	50 Diethylphthalate	1.546	1.537	0.010	0.6	30.0
	51 4-Chlorophenyl-phenylether	0.659	0.674	0.400	2.3	25.0
	52 Fluorene	1.186	1.195	0.900	0.8	25.0
	53 4-Nitroaniline	0.359	0.320	0.010	11.0	30.0
	54 4,6-Dinitro-2-methylphenol	0.158	0.162	0.010	2.1	30.0
	55 N-Nitrosodiphenylamine	0.587	0.583	0.010	0.6	30.0
S	56 2,4,6-Tribromophenol	0.247	0.242	0.010	2.0	30.0
	57 4-Bromophenyl-phenylether	0.245	0.276	0.100	12.8	25.0
	58 Hexachlorobenzene	0.336	0.337	0.100	0.3	25.0
	59 Pentachlorophenol	0.159	0.146	0.050	8.3	25.0
	61 Phenanthrene	1.070	1.086	0.700	1.4	25.0
	62 Anthracene	1.062	1.127	0.700	6.1	25.0
	63 Carbazole	1.023	1.005	0.010	1.8	30.0
	64 Di-n-butylphthalate	1.497	1.644	0.010	9.8	30.0
	65 Fluoranthene	1.136	1.147	0.600	1.0	25.0
	66 Benzidine	0.436	0.500	0.010	14.6	30.0
	67 Pyrene	1.435	1.505	0.600	4.9	25.0
S	68 Terphenyl-d14	0.955	1.040	0.500	7.8	25.0
	69 Butylbenzylphthalate	0.941	0.892	0.010	5.3	30.0
	70 bis(2-Ethylhexyl)phthalate	1.277	1.091	0.010	14.6	30.0
	71 3,3'-Dichlorobenzidine	0.521	0.461	0.010	11.6	30.0
	72 Benzo(a)anthracene	1.231	1.195	0.800	2.8	25.0
	74 Chrysene	1.176	1.149	0.700	2.3	25.0
	75 Di-n-octylphthalate	2.226	2.194	0.010	1.4	30.0
	76 Benzo(b)fluoranthene	1.305	1.156	0.700	11.5	25.0
	77 Benzo(k)fluoranthene	1.201	1.314	0.700	9.4	25.0
	78 Benzo(a)pyrene	1.115	1.069	0.700	4.1	25.0
	80 Dibenzo(a,h)anthracene	0.894	0.821	0.400	8.2	25.0
	81 Indeno(1,2,3-cd)pyrene	1.038	1.016	0.500	2.1	25.0
	82 Benzo(g,h,i)perylene	0.822	0.816	0.500	0.7	25.0

Data File: /chem/aux/msb.i/b012296.b/b9555.d
Report Date: 22-Jan-1996 10:01

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

K Bigelow

Instrument ID: msb.i
Lab File ID: b9555.d
Analysis Type:
Lab Sample ID:
Quant Type: ISTD

Injection Date: 22-JAN-96 09:17
Init. Calibration Date(s): JAN/12/96 JAN/12/96
Init. Calibration Times: 16:40 19:42
Method File: /chem/aux/msb.i/b012296.b/0112996bclp.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	1 N-Nitrosodimethylamine	0.951	0.993	0.010	4.4	30.0
	2 Pyridine	1.760	1.629	0.010	7.5	30.0
S	3 2-Fluorophenol	1.374	1.342	0.600	2.3	25.0
S	4 Phenol-d5	1.599	1.640	0.800	2.6	25.0
	5 Phenol	1.593	1.661	0.800	4.2	25.0
	6 bis(2-Chloroethyl)ether	3.141	3.318	0.700	5.6	25.0
S	7 2-Chlorophenol-D4	1.322	1.312	0.800	0.7	25.0
	8 2-Chlorophenol	1.349	1.395	0.800	3.4	25.0
	9 1,3-Dichlorobenzene	1.483	1.428	0.600	3.7	25.0
	11 1,4-Dichlorobenzene	1.457	1.495	0.500	2.6	25.0
	12 2-Methylphenol	1.171	1.171	0.700	0.1	25.0
S	13 1,2-Dichlorobenzene-D4	0.824	0.850	0.400	3.1	25.0
	14 1,2-Dichlorobenzene	1.222	1.256	0.400	2.8	25.0
	15 2,2'-oxybis(1-Chloropropene)	2.101	2.500	0.010	19.0	30.0
	16 4-Methylphenol	1.257	1.240	0.600	1.3	25.0
	17 N-Nitroso-di-n-propylamine	1.181	1.185	0.500	0.3	25.0
	18 Hexachloroethane	0.637	0.619	0.300	2.8	25.0
S	19 Nitrobenzene-d5	0.425	0.425	0.200	0.0	25.0
	20 Nitrobenzene	0.407	0.413	0.200	1.5	25.0
	21 Isophorone	0.893	0.876	0.400	1.8	25.0
	22 2,4-Dimethylphenol	0.391	0.392	0.200	0.1	25.0
	23 2-Nitrophenol	0.244	0.252	0.100	3.0	25.0
	24 bis(2-Chloroethoxy)methane	0.538	0.528	0.300	2.0	25.0
	25 2,4-Dichlorophenol	0.323	0.334	0.200	3.4	25.0
	26 1,2,4-Trichlorobenzene	0.349	0.349	0.200	0.1	25.0
	28 Naphthalene	0.862	0.955	0.700	10.7	25.0
	29 4-Chloroaniline	0.516	0.576	0.010	11.5	30.0
	30 Hexachlorobutadiene	0.191	0.195	0.010	2.1	30.0
	31 4-Chloro-3-methylphenol	0.336	0.343	0.200	1.9	25.0
	32 2-Methylnaphthalene	0.613	0.645	0.400	5.3	25.0
	33 1-Methylnapthalene	0.607	0.583	0.010	3.9	30.0
	34 Hexachlorocyclopentadiene	0.221	0.163	0.010	26.0	30.0
	35 2,4,6-Trichlorophenol	0.448	0.426	0.200	5.0	25.0
	36 2,4,5-Trichlorophenol	0.468	0.442	0.200	5.6	25.0
S	37 2-Fluorobiphenyl	1.289	1.252	0.700	2.8	25.0
	38 2-Chloronaphthalene	1.164	1.135	0.800	2.5	25.0
	39 2-Nitroaniline	0.470	0.440	0.010	6.4	30.0
	40 Dimethylphthalate	1.544	1.531	0.010	0.9	30.0
	41 2,6-Dinitrotoluene	0.414	0.379	0.200	8.4	25.0
	42 Acenaphthylene	1.815	1.787	0.900	1.6	25.0

Data File: /chem/aux/msb.i/b012296.b/b9555.d
Report Date: 22-Jan-1996 10:01

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msb.i
Lab File ID: b9555.d
Analysis Type:
Lab Sample ID:
Quant Type: ISTD

Injection Date: 22-JAN-96 09:17
Init. Calibration Date(s): JAN/12/96 JAN/12/96
Init. Calibration Times: 16:40 19:42
Method File: /chem/aux/msb.i/b012296.b/0112996bclp.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	43 3-Nitroaniline	0.437	0.373	0.010	14.7	30.0	
	45 2,4-Dinitrophenol	0.159	0.102	0.010	35.7	30.0	<-
	46 Acenaphthene	1.109	1.055	0.900	4.9	25.0	
	47 4-Nitrophenol	0.156	0.130	0.010	16.6	30.0	
	48 2,4-Dinitrotoluene	0.557	0.509	0.200	8.5	25.0	
	49 Dibenzofuran	1.595	1.636	0.800	2.5	25.0	
	50 Diethylphthalate	1.546	1.540	0.010	0.3	30.0	
	51 4-Chlorophenyl-phenylether	0.659	0.678	0.400	2.9	25.0	
	52 Fluorene	1.186	1.180	0.900	0.5	25.0	
	53 4-Nitroaniline	0.359	0.300	0.010	16.6	30.0	
	54 4,6-Dinitro-2-methylphenol	0.158	0.145	0.010	8.1	30.0	
	55 N-Nitrosodiphenylamine	0.587	0.599	0.010	2.0	30.0	
S	56 2,4,6-Tribromophenol	0.247	0.226	0.010	8.4	30.0	
	57 4-Bromophenyl-phenylether	0.245	0.282	0.100	15.4	25.0	
	58 Hexachlorobenzene	0.336	0.340	0.100	1.0	25.0	
	59 Pentachlorophenol	0.159	0.135	0.050	15.0	25.0	
	61 Phenanthrene	1.070	1.119	0.700	4.5	25.0	
	62 Anthracene	1.062	1.141	0.700	7.4	25.0	
	63 Carbazole	1.023	0.988	0.010	3.5	30.0	
	64 Di-n-butylphthalate	1.497	1.738	0.010	16.1	30.0	
	65 Fluoranthene	1.136	1.135	0.600	0.0	25.0	
	66 Benzidine	0.436	0.396	0.010	9.3	30.0	
	67 Pyrene	1.435	1.546	0.600	7.8	25.0	
S	68 Terphenyl-d14	0.965	1.123	0.500	16.4	25.0	
	69 Butylbenzylphthalate	0.941	0.930	0.010	1.2	30.0	
	70 bis(2-Ethylhexyl)phthalate	1.277	1.166	0.010	8.7	30.0	
	71 3,3'-Dichlorobenzidine	0.521	0.441	0.010	15.4	30.0	
	72 Benzo(a)anthracene	1.231	1.259	0.800	2.3	25.0	
	74 Chrysene	1.176	1.130	0.700	3.9	25.0	
	75 Di-n-octylphthalate	2.226	2.574	0.010	15.6	30.0	
	76 Benzo(b)fluoranthene	1.306	1.234	0.700	5.5	25.0	
	77 Benzo(k)fluoranthene	1.201	1.348	0.700	12.2	25.0	
	78 Benzo(a)pyrene	1.115	1.119	0.700	0.4	25.0	
	80 Dibenzo(a,h)anthracene	0.894	0.760	0.400	15.0	25.0	
	81 Indeno(1,2,3-cd)pyrene	1.038	0.902	0.500	13.1	25.0	
	82 Benzo(g,h,i)perylene	0.822	0.673	0.500	18.1	25.0	

Data File: /chem/aux/msb.i/b011296a.b/b9399.d

Page 1

Date : 12-JAN-96 15:32

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0

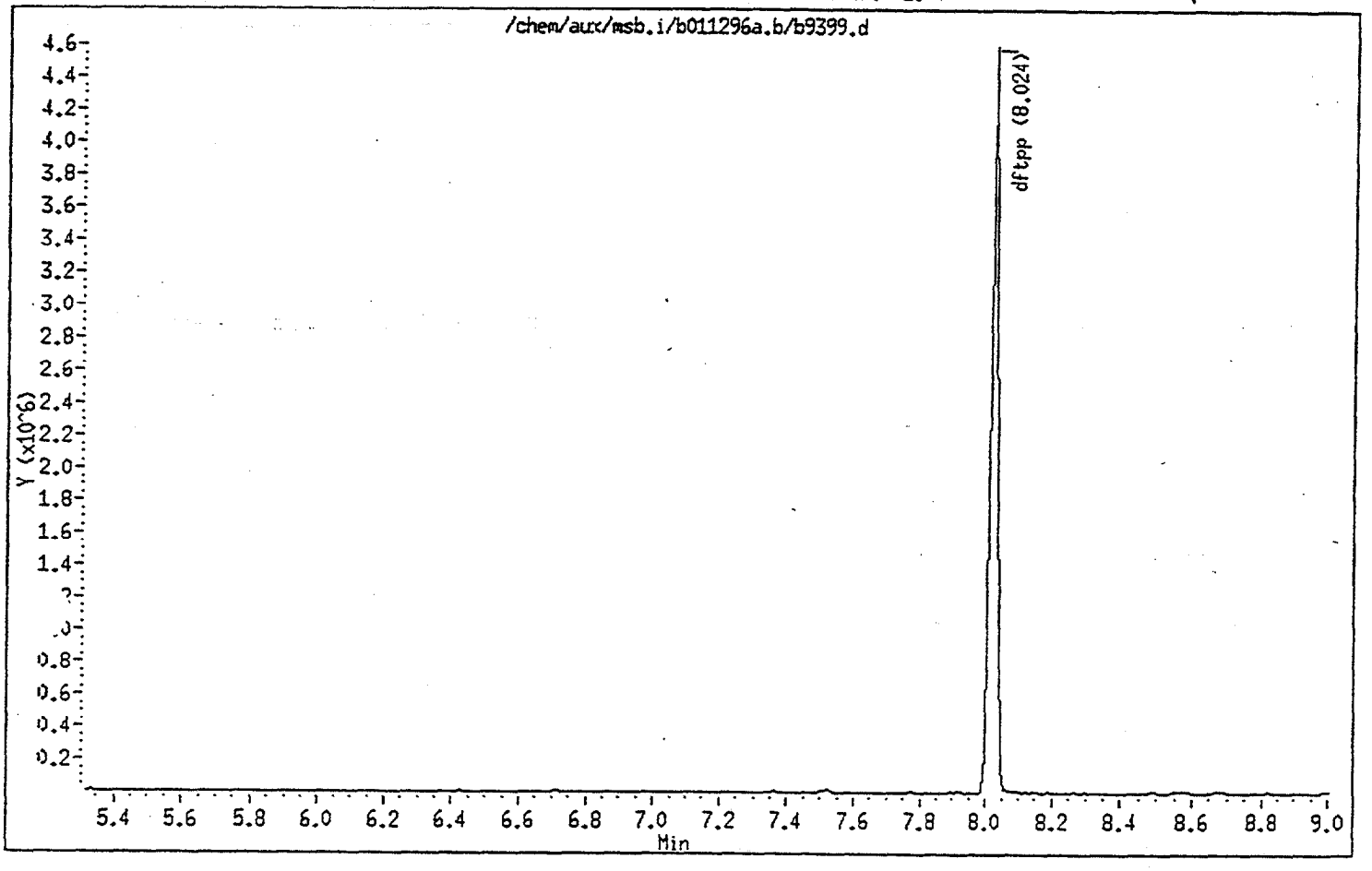
Operator: K. Bigelow

Column phase:

Column diameter: 2.00

clp

K Bigelow



Data File: /chem/aux/msb.i/b011296a.b/b9399.d

Date : 12-JAN-96 15:32

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

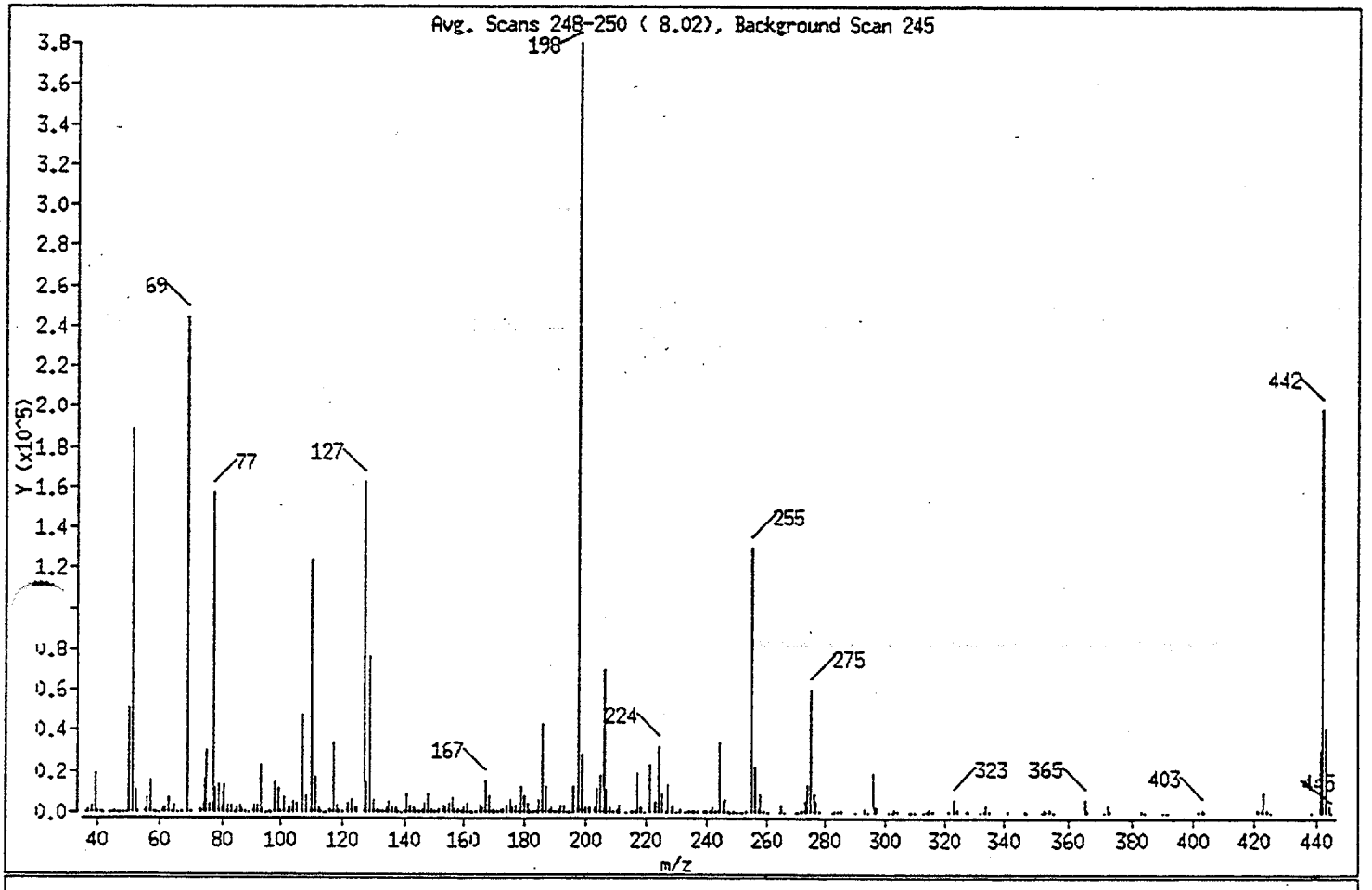
Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	49.59
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	64.24
70	Less than 2.00% of mass 69	0.34 (0.52)
127	25.00 - 75.00% of mass 198	42.73
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.63
275	10.00 - 30.00% of mass 198	15.94
365	Greater than 0.75% of mass 198	1.61
441	Present, but less than mass 443	7.99
442	40.00 - 110.00% of mass 198	52.47
443	15.00 - 24.00% of mass 442	10.78 (20.55)

Data File: /chem/aux/msb.i/b011296a.b/b9399.d

Date : 12-JAN-96 15:32

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

Data File: b9399.d

Spectrum : Avg. Scans 248-250 (8.02), Background Scan 245

Largest m/z: 197.95

Number of peaks: 280

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	51	114.90	181	188.00	1379	273.05	5622
37.00	1360	116.00	1705	189.00	2565	274.00	13546
38.10	3823	116.95	34296	190.00	511	275.00	60600
39.10	19200	117.95	3159	191.05	1732	276.00	8854
40.00	544	118.95	621	191.95	3687	277.00	5078
41.20	1028	120.05	1005	193.05	4011	278.00	807
41.80	311	122.05	4231	194.05	1014	282.00	224
43.95	409	123.05	5854	194.95	291	283.00	670
45.15	723	123.95	2903	196.05	12741	283.95	555
46.25	156	125.05	2255	197.95	380160	284.95	1044
47.05	121	127.00	162432	199.05	29024	290.05	121
48.15	131	128.00	14190	200.00	2463	293.00	1499
49.15	73	129.00	76464	201.50	2454	293.90	337
50.05	51032	130.00	6719	203.00	2352	296.00	18528
51.05	188480	131.00	1402	204.00	11262	297.00	2682
52.10	10412	132.00	783	205.10	18208	300.90	143
53.00	482	133.00	464	206.00	70464	302.15	309
55.10	1408	134.10	2451	207.00	10514	303.05	1718
56.00	7029	134.95	5284	208.00	2370	304.05	560
57.00	14953	135.95	2422	209.00	1108	308.05	166
58.00	813	136.95	2928	210.15	1728	308.85	215
59.00	148	138.05	535	210.85	3471	309.95	148
60.10	411	139.05	353	213.05	125	313.00	140
61.05	2394	139.95	745	215.05	719	314.10	867
62.05	2600	140.95	8561	215.95	606	315.00	2010
63.05	7141	142.05	3188	216.95	18936	316.10	877
64.05	1219	142.95	2596	217.95	2487	321.05	628
65.05	3274	144.05	511	219.10	300	323.05	6404
65.95	304	145.10	641	221.00	23576	324.05	1387
67.05	491	146.10	1919	223.00	5235	326.95	1131
69.05	244224	147.00	4907	224.10	32376	327.95	583
70.05	1277	148.00	9220	225.00	9118	331.90	409
73.10	1799	149.00	2029	226.10	369	333.00	776
74.00	16528	150.00	695	227.00	13623	334.00	3577
75.00	30320	151.60	2119	227.95	2445	335.00	1138

Data File: /chem/aux/msb.i/b011296a.b/b9399.d

Date : 12-JAN-96 15:32

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

Data File: b9399.d

Spectrum : Avg. Scans 248-250 (8.02), Background Scan 245

Largest m/z: 197.95

Number of peaks: 280

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.10	4576	151.70	214	228.95	3488	341.05	792
77.10	157696	153.00	3293	229.95	426	346.05	1253
78.10	11679	154.05	2391	231.05	1540	346.85	178
79.10	13890	155.05	4280	232.95	209	351.40	121
80.05	10060	156.05	6846	234.05	1256	352.00	1841
81.05	13821	157.05	2060	235.05	1122	353.00	1268
82.05	3453	157.95	1681	236.05	756	354.00	1638
83.05	3451	159.05	1171	237.00	1338	355.10	192
84.25	167	160.05	2802	238.90	767	364.95	6102
85.05	3040	161.05	4251	239.90	620	365.95	1181
86.05	4029	161.95	940	241.00	1028	371.00	435
87.05	1643	163.00	391	242.00	2443	372.10	3299
88.05	694	164.00	928	243.10	549	373.00	961
88.90	330	165.00	3347	244.10	34264	383.05	804
91.00	3954	166.00	2504	245.10	4998	383.95	276
92.00	3331	167.00	15225	246.00	5922	389.90	445
93.00	22960	168.00	8063	246.95	1246	391.10	208
94.00	1831	169.00	1619	247.75	300	392.00	254
95.10	329	169.90	951	249.05	1315	402.05	1028
96.10	1097	171.00	891	249.95	130	403.05	1818
96.90	289	172.00	1896	250.95	406	404.10	482
97.95	14753	172.95	1729	252.05	325	421.05	1416
98.95	12117	174.05	3869	253.05	910	422.10	1699
99.95	1330	175.05	6021	255.05	130416	423.00	10195
100.95	7508	175.95	2558	256.00	22656	424.00	2189
101.95	153	177.05	3334	257.00	2206	425.10	145
103.05	3087	178.05	503	258.00	8726	438.15	117
104.05	5110	179.05	12636	259.00	1245	441.10	30352
104.95	4213	180.05	8348	259.90	233	442.00	199424
107.05	47440	181.05	4304	260.90	220	443.00	41000
108.00	7838	182.00	833	264.10	174	444.00	3816
110.00	123736	183.00	480	264.95	3409	445.00	231
111.00	17440	184.10	1021	265.95	299		
112.00	2651	185.00	6276	270.25	139		
112.80	598	186.00	43112	270.95	139		

Data File: /chem/aux/msb.i/b011296a.b/b9399.d

Date : 12-JAN-96 15:32

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

Data File: b9399.d

Spectrum : Avg. Scans 248-250 (8.02), Background Scan 245

Largest m/z: 197.95

Number of peaks: 280

m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.10	117	187.00	12183	271.95	488		

Data File: /chem/aux/msb.i/b012096.b/b9536a.d

Page 1

Date : 20-JAN-96 10:33

Client ID:

Instrument: msb.i

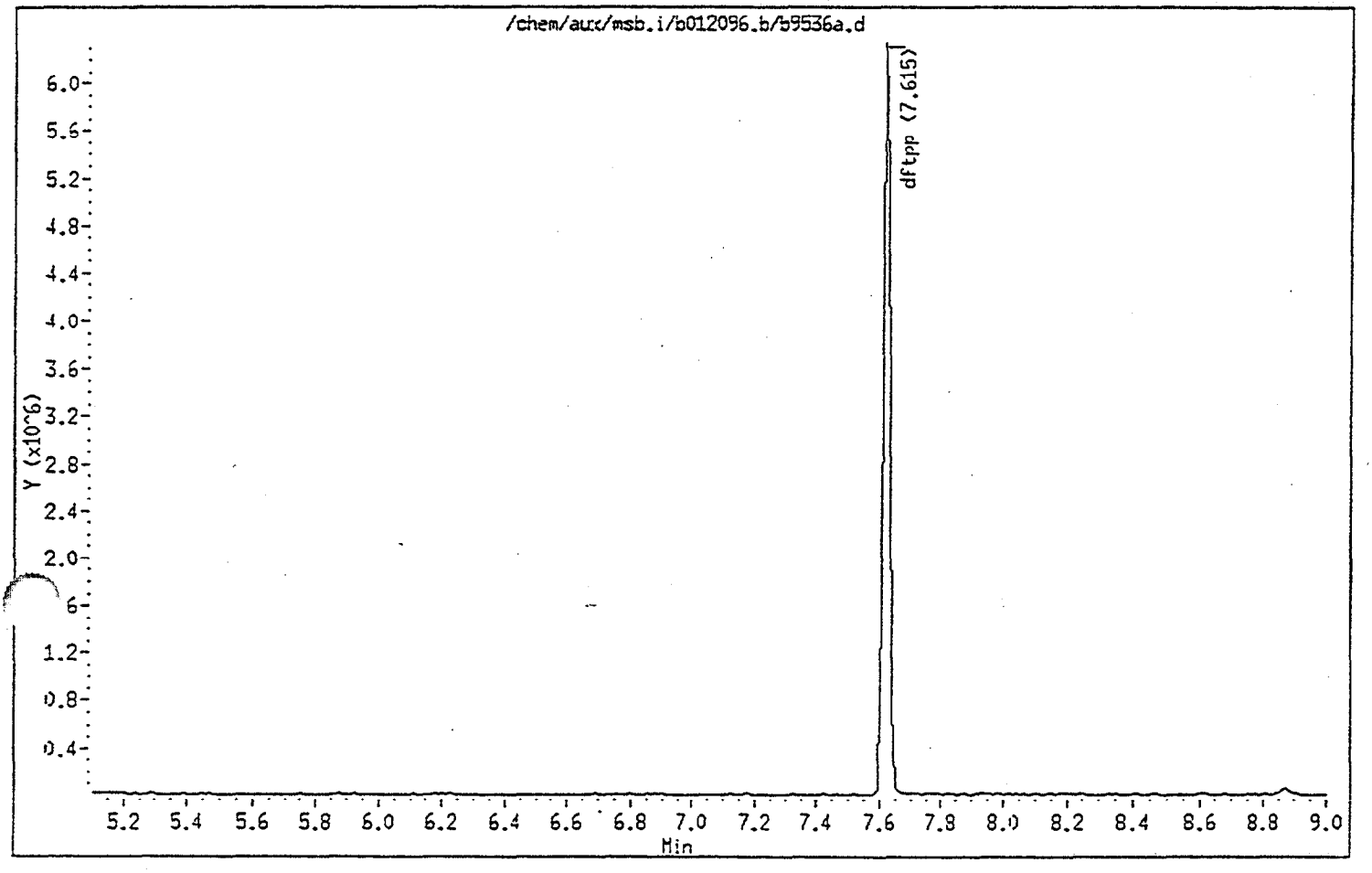
Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00



Data File: /chem/aux/msb.i/b012096.b/b9536a.d

Date : 20-JAN-96 10:33

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

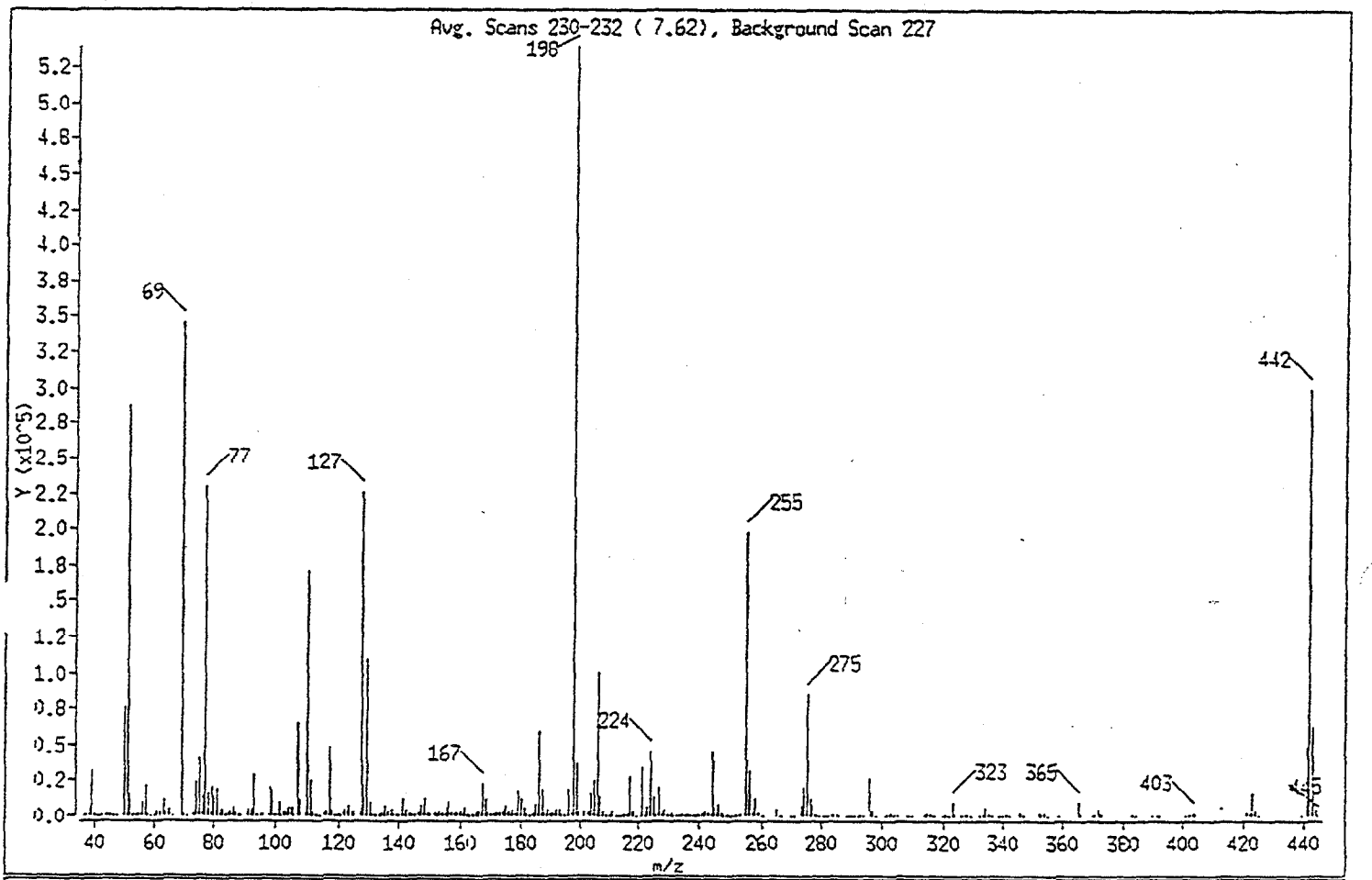
Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	53.23
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	64.06
70	Less than 2.00% of mass 69	0.15 (0.24)
127	25.00 - 75.00% of mass 198	41.78
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.96
275	10.00 - 30.00% of mass 198	15.80
365	Greater than 0.75% of mass 198	1.78
441	Present, but less than mass 443	8.88
442	40.00 - 110.00% of mass 198	55.63
443	15.00 - 24.00% of mass 442	11.55 (20.77)

Data File: /chem/aux/msb.i/b012096.b/b9536a.d

Date : 20-JAN-96 10:33

Client ID: Instrument: msb.i

Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0 Operator: K. Bigelow

Column phase: Column diameter: 2.00

Data File: b9536a.d

Spectrum : Avg. Scans 230-232 (7.62), Background Scan 227

Largest m/z: 197.95

Number of peaks: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.30	190	122.05	5338	199.90	2728	288.95	594
37.00	1541	123.05	7615	201.50	3617	290.05	483
38.10	5238	124.05	3708	203.00	3497	290.95	266
39.10	32384	125.05	3781	204.00	16273	292.25	548
40.10	1270	127.00	225280	205.00	25960	293.00	1698
41.20	386	128.00	21304	206.00	101112	294.10	388
42.30	373	129.00	109592	207.10	14170	296.00	26720
44.05	1155	130.00	10002	208.00	4055	297.00	3714
45.15	816	131.00	1882	209.00	1246	298.00	344
46.65	129	132.10	1290	210.65	532	301.10	516
47.85	477	133.00	576	210.85	4331	301.95	793
50.05	76264	134.00	3180	212.95	290	303.05	3071
51.05	286976	134.95	8044	213.85	197	304.05	730
52.00	15793	135.95	3212	214.95	1498	305.25	128
53.10	912	137.65	5106	216.15	1461	308.05	537
54.00	148	138.05	650	216.95	28232	309.05	350
55.10	1830	138.95	753	218.05	3996	310.05	123
56.00	9756	139.95	1145	219.00	575	314.00	1112
57.00	21104	141.05	12828	221.00	34624	315.00	2413
58.10	743	142.05	5103	222.00	523	316.00	1573
59.10	600	143.05	2738	223.10	7034	317.00	135
60.10	421	144.15	825	224.00	46080	320.10	142
61.05	4158	145.00	905	225.10	13669	321.05	901
62.05	4306	146.00	2723	226.00	247	321.85	209
63.05	10902	147.00	7064	227.00	20120	323.05	9707
64.05	1997	148.00	13030	227.95	3785	323.95	1709
65.05	5185	149.00	2884	228.95	4805	326.05	297
65.95	632	150.00	1075	229.95	1249	327.05	1484
69.05	345408	151.60	2406	231.05	2475	328.05	727
69.95	823	152.30	161	231.95	137	329.05	130
71.10	152	153.00	4301	233.15	429	332.10	558
73.00	1509	153.95	2944	233.95	1806	333.00	1228
74.00	24680	154.95	6364	234.95	1844	334.10	6092
75.00	41048	156.05	9573	236.05	1111	335.00	1680
76.10	14448	157.05	2584	237.00	1318	336.00	264

Data File: /chem/aux/msb.i/b012096.b/b9536a.d

Date : 20-JAN-96 10:33

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

Data File: b9536a.d

Spectrum : Avg. Scans 230-232 (7.62), Background Scan 227

Largest m/z: 197.95

Number of peaks: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.10	229376	157.95	2415	238.00	355	338.75	124
78.10	16392	158.95	2107	239.00	912	339.85	137
79.00	20904	160.05	4257	240.00	700	341.05	988
80.05	14423	161.05	5811	241.00	1266	342.05	284
81.05	18952	162.15	1708	242.00	3196	345.65	122
82.05	5244	162.90	361	243.10	2646	345.95	2145
83.05	4850	164.20	1176	244.10	46472	347.05	227
84.05	677	165.00	4223	245.10	6801	352.00	2611
85.05	4133	166.10	4173	246.00	8501	353.00	1895
86.05	5888	167.00	22568	246.95	1991	354.10	2418
87.05	2942	168.00	12219	247.95	520	355.00	594
88.05	1270	169.10	2357	249.05	1751	358.75	269
88.90	734	170.10	958	249.85	407	365.05	9622
91.00	5044	171.00	1102	251.05	439	366.05	1508
92.10	5459	172.00	2396	251.95	531	370.10	319
93.00	29864	173.05	2559	253.05	1289	370.90	726
94.00	1711	173.95	4893	255.05	197696	372.00	5011
95.00	676	175.05	8158	256.00	32208	373.10	1300
96.10	1394	176.05	3461	257.00	2929	383.05	1394
98.05	20360	176.95	4904	258.00	12791	384.05	322
99.05	18472	178.05	1631	259.00	2395	389.90	558
100.05	1546	178.95	17936	260.00	430	391.00	391
101.05	10317	180.05	12333	260.90	464	392.00	384
101.95	409	181.05	5890	264.95	5068	400.95	169
103.05	3935	182.10	897	265.95	613	402.05	1697
104.05	6018	183.00	490	267.05	152	403.05	2412
105.05	5980	184.00	1684	269.95	313	404.00	829
105.95	398	185.10	9070	270.85	146	421.05	2145
107.05	64512	186.00	59488	273.05	7768	422.00	1408
108.00	11553	187.00	18520	274.00	20968	423.00	17104
110.00	171072	188.10	1941	275.00	85200	424.00	4106
111.00	25008	189.00	4509	276.00	13165	425.00	483
112.00	3155	190.00	667	277.00	8227	439.35	152
113.00	1056	191.05	2543	278.00	1163	441.10	47680
114.20	260	192.05	5284	279.10	429	442.00	299968

Data File: /chem/aux/msb.i/b012096.b/b9536a.d

Date : 20-JAN-96 10:33

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

Data File: b9536a.d

Spectrum : Avg. Scans 230-232 (7.62), Background Scan 227

Largest m/z: 197.95

Number of peaks: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
116.10	3197	192.95	5082	281.10	331	443.00	62296
116.95	48744	194.05	1125	282.20	384	444.00	5448
117.95	4034	195.05	994	283.10	1146	445.00	208
119.05	560	196.05	18832	283.95	673		
120.05	997	197.95	539264	285.05	1424		
120.95	621	198.95	37528	286.05	235		

Data File: /chem/aux/msb.i/b012296.b/b9554.d

Page 1

Date : 22-JAN-96 08:58

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

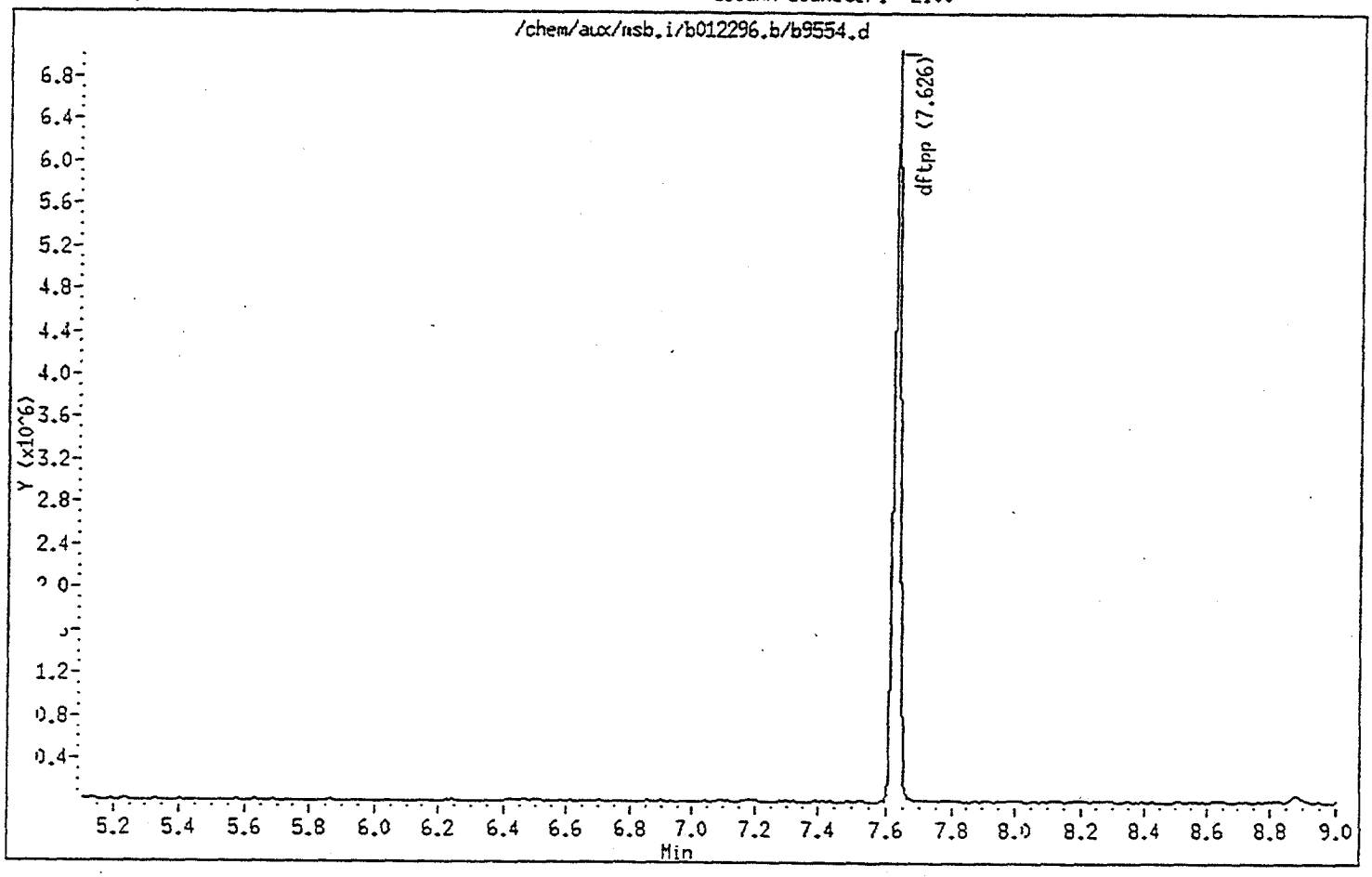
Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

clp
K Bigelow



Data File: /chem/aux/msb.i/b012296.b/b9554.d

Date : 22-JAN-96 08:58

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

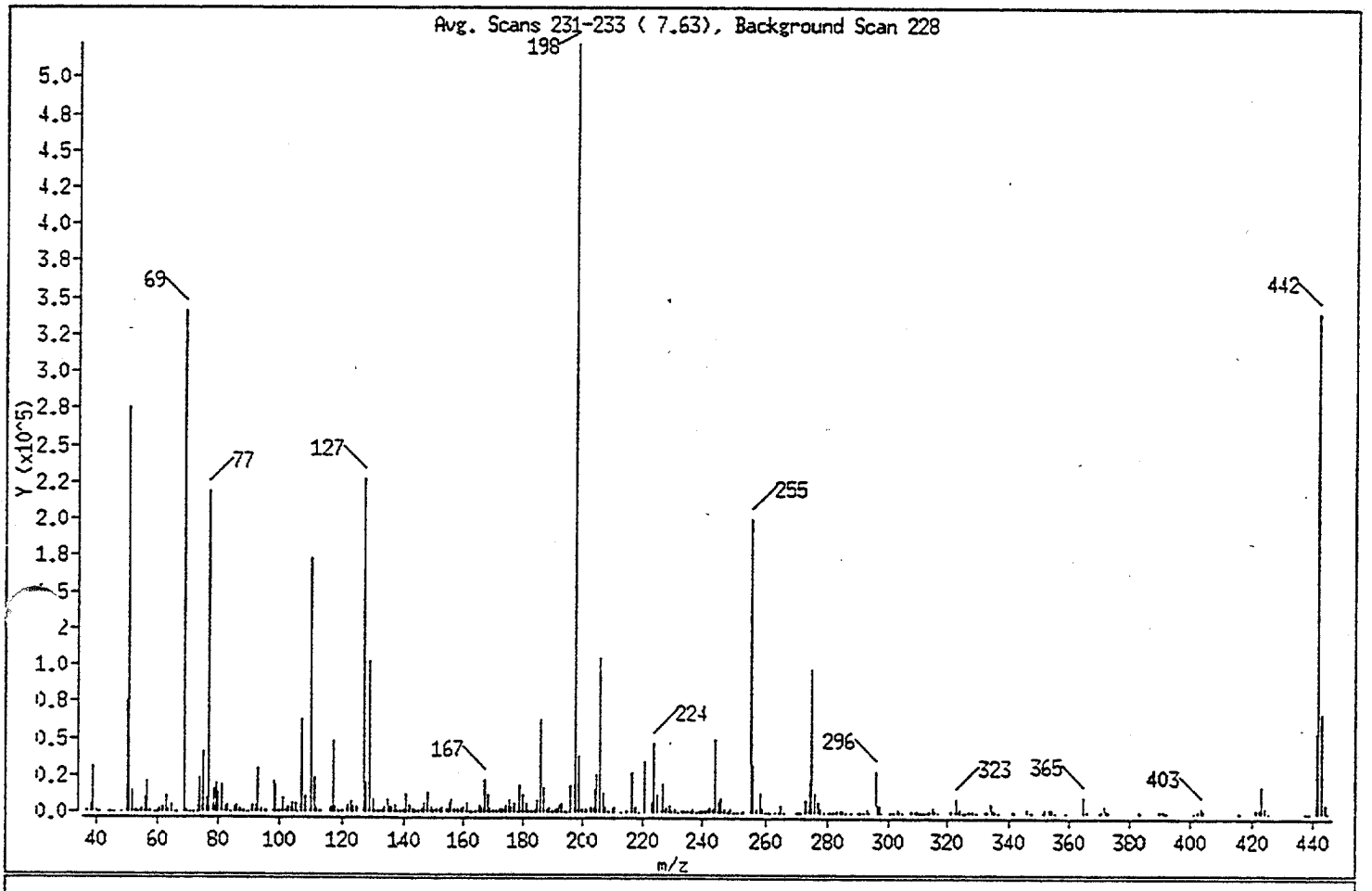
Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	52.65
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	65.33
70	Less than 2.00% of mass 69	0.20 (0.31)
127	25.00 - 75.00% of mass 198	43.51
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.25
275	10.00 - 30.00% of mass 198	18.79
365	Greater than 0.75% of mass 198	2.06
441	Present, but less than mass 443	10.38
442	40.00 - 110.00% of mass 198	65.23
443	15.00 - 24.00% of mass 442	13.09 (20.06)

Data File: /chem/aux/msb.i/b012296.b/b9554.d

Date : 22-JAN-96 08:58

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

Data File: b9554.d
Spectrum : Avg. Scans 231-233 (7.63), Background Scan 228
Largest m/z: 197.95
Number of peaks: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1705	122.95	7339	201.50	3056	293.00	2282
38.10	5021	123.95	3874	203.00	3494	294.00	516
39.10	30448	125.05	3330	204.00	15922	296.00	28416
40.10	1036	127.00	227392	205.00	25792	297.00	4591
41.20	410	128.00	20376	206.00	105136	298.00	125
44.05	49	129.00	102816	207.00	14024	301.10	211
45.05	166	130.00	8717	208.00	4273	302.05	324
46.05	122	131.00	1567	209.05	1337	303.05	2844
48.15	412	132.10	1071	210.05	2213	303.95	732
50.05	75752	133.00	1011	210.95	4252	305.05	175
51.05	275136	134.00	3252	213.05	341	307.85	646
52.00	14672	134.95	8661	215.05	1267	309.45	655
53.10	618	135.95	3288	216.95	26960	309.95	461
53.90	414	137.05	4603	218.05	4240	311.00	146
55.00	2110	137.95	1156	219.10	491	312.10	122
56.00	10299	139.05	657	221.00	33984	313.00	193
57.00	20944	140.05	927	223.00	7378	313.90	1415
58.10	1217	140.95	12914	224.00	46344	315.00	3115
58.90	434	142.05	5210	225.10	12474	315.90	1789
60.00	283	143.05	2973	227.00	20120	317.00	481
61.05	2774	143.95	956	227.95	3633	321.05	838
62.05	3855	145.00	802	228.95	5389	323.05	10121
63.05	10953	146.00	2671	229.85	848	324.05	1882
64.05	1425	147.00	6378	231.05	2262	324.85	124
65.05	5271	148.00	13052	231.95	566	325.95	229
66.15	484	149.00	3509	233.25	697	326.95	1766
66.75	67	150.00	1336	233.95	1632	327.85	844
69.05	341440	151.10	2814	235.05	1413	329.05	132
69.95	1060	152.10	2537	236.05	1436	332.00	693
71.10	384	153.00	4036	236.90	2212	333.00	1145
72.00	368	154.05	2795	238.00	173	334.00	6200
73.10	391	155.05	6785	239.00	937	335.10	1726
74.00	23312	155.95	8902	239.90	745	336.10	160
75.00	41208	157.05	2591	241.00	1481	340.95	1007
76.20	9784	157.95	2949	242.00	3255	341.95	424

Data File: /chem/aux/msb.i/b012296.b/b9554.d

Date : 22-JAN-96 08:58

Client ID: Instrument: msb.i

Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0 Operator: K. Bigelow

Column phase: Column diameter: 2.00

Data File: b9554.d

Spectrum : Avg. Scans 231-233 (7.63), Background Scan 228

Largest m/z: 197.95

Number of peaks: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.10	218816	159.05	1944	243.10	3087	345.95	2165
78.10	16246	160.05	3586	244.00	49808	346.95	285
79.10	19152	161.05	5614	245.10	7258	347.90	135
80.05	13708	161.95	1834	246.00	9387	351.10	339
80.95	19112	163.00	525	246.95	2219	352.00	2794
82.05	3698	164.00	1243	247.95	416	353.00	2042
83.05	4486	165.00	5473	248.95	2090	354.00	2776
84.05	523	166.00	3823	250.15	435	355.10	353
85.05	3675	167.00	22352	251.05	544	358.95	352
86.05	5150	168.00	12344	252.05	603	364.95	10763
87.05	2746	169.00	1858	253.05	1241	365.95	1506
88.15	1134	170.00	761	254.95	200064	370.00	223
89.50	617	171.00	1391	256.00	32304	371.00	966
90.00	152	172.00	2236	257.00	2986	372.00	5211
91.00	5345	173.05	2441	258.00	14021	373.00	1408
92.00	5167	174.05	4946	259.00	2452	383.05	1466
93.00	30008	175.05	8309	259.90	135	383.95	491
94.00	2488	175.95	3913	261.10	557	390.00	692
95.00	725	176.95	5921	262.80	122	391.10	638
96.10	818	178.15	420	264.10	590	392.00	605
97.95	21040	178.95	18208	264.95	5219	401.05	432
98.95	18256	180.05	12213	265.95	289	402.05	1744
100.05	1330	181.05	6186	270.05	129	403.05	3152
101.05	10192	181.90	702	271.05	493	404.00	1011
102.15	918	183.10	957	273.05	8266	415.05	286
103.05	4150	183.90	1636	274.00	21328	415.75	147
103.95	6261	185.00	8308	275.00	98216	421.05	2883
105.05	5617	186.00	62848	276.00	13636	422.10	2439
105.85	411	187.00	17016	277.00	7747	423.00	18976
107.05	62776	188.00	2034	278.00	1881	424.00	4042
108.00	10955	189.00	4273	279.00	170	425.10	465
110.00	172480	190.10	926	280.90	172	437.95	137
111.00	23936	191.05	2360	282.00	212	438.85	121
112.00	3015	191.95	5335	283.10	1326	441.10	54224
112.80	917	193.05	5729	284.05	942	442.00	340928

Data File: /chem/aux/msb.i/b012296.b/b9554.d

Date : 22-JAN-96 08:58

Client ID:

Instrument: msb.i

Sample Info: dftpp tune ma2697

Volume Injected (uL): 1.0

Operator: K. Bigelow

Column phase:

Column diameter: 2.00

Data File: b9554.d

Spectrum : Avg. Scans 231-233 (7.63), Background Scan 228

Largest m/z: 197.95

Number of peaks: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
116.10	3430	194.15	1151	284.95	1655	443.00	68400
116.95	47672	195.05	247	285.95	155	444.00	6626
117.95	3899	195.95	18480	288.05	194	445.00	499
119.05	909	197.95	522624	290.05	462		
120.05	1019	198.95	37912	290.95	221		
121.95	5509	200.00	2396	292.05	323		

1B - 0127 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: N1C60123C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B9542

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/20/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

- 0128 EPA SAMPLE NO.

SBLK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: N1C60123C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B9542

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/20/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
101-55-3	4-Bromophenyl-phenylether	10	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0129 EPA SAMPLE NO.

SBLK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: N1C60123C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B9542

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/20/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	5.86	7	JNA
2. 2313-65-7	2-Hexanol, 3-methyl-	6.06	9	JN

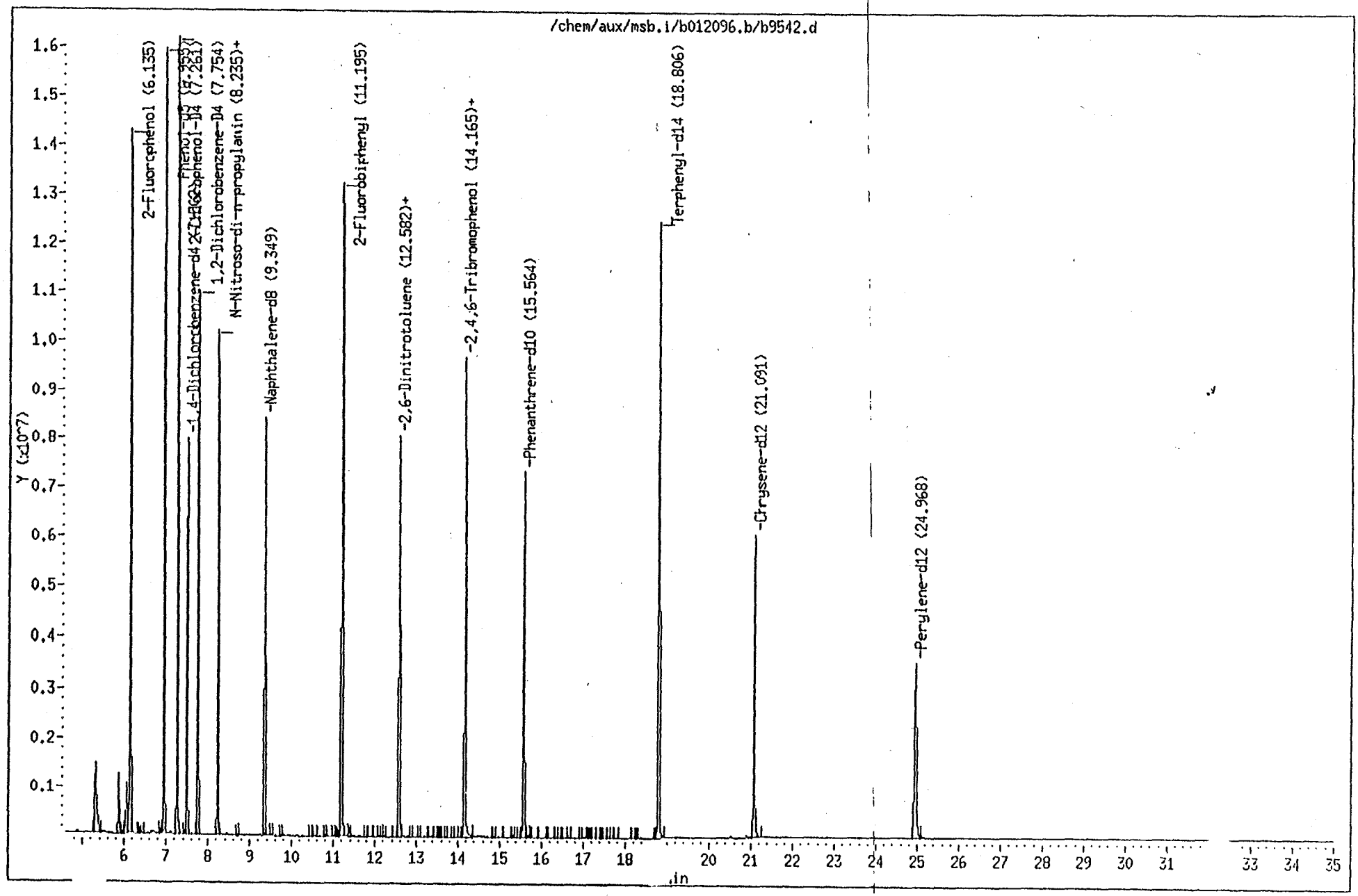
0130

Data File: /chem/aux/msb.i/b012096.b/b9542.d
Date : 20-JAN-96 14:47
Client ID:
Sample Info: method blank

Instrument: msb.i

Operator: K. Bigelow
Column diameter: 0.25

Column phase: J&W DB-5



Data File: /chem/aux/msb.i/b012096.b/b9542.d
Report Date: 22-Jan-1996 07:10

OHM Analytical Division

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b012096.b/b9542.d
Lab Smp Id:
Inj Date : 20-JAN-96 14:47
Operator : K. Bigelow Inst ID: msb.i
Smp Info : method blank
Misc Info : n1c60123c,n1c60123,m1,1,1
Comment :
Method : /chem/aux/msb.i/b012096.b/0112996bclp.m
Meth Date : 22-Jan-1996 07:08 kathryn Quant Type: ISTD
Cal Date : 20-JAN-96 10:52 Cal File: b9537a.d
Als bottle: 7
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

K Bigelow

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)	
$		2-Fluorophenol	112.00	6.146	6.126	(0.819)	7145537	107	107(R)	
$	4	Phenol-d5	99.00	6.955	6.946	(0.927)	7515746	92.3	92.3(R)	
$	7	2-Chlorophenol-D4	132.00	7.261	7.263	(0.968)	7143437	112	112(R)	
*	10	1,4-Dichlorobenzene-d4	152.00	7.502	7.504	(1.000)	2022831	40.0		
$	13	1,2-Dichlorobenzene-D4	152.00	7.754	7.756	(1.034)	3008425	70.5	70.5(R)	
	17	N-Nitroso-di-n-propylamine	70.00	8.235	7.965	(1.098)	855187	14.5	~~14.5~~(Q)	ND, Rt, MS
$	19	Nitrobenzene-d5	82.00	8.235	8.239	(0.881)	5148353	74.8	74.8(R)	
*	27	Naphthalene-d8	136.00	9.349	9.346	(1.000)	6475164	40.0		
$	37	2-Fluorobiphenyl	172.00	11.195	11.200	(0.890)	8279557	76.8	76.8(R)	
	41	2,6-Dinitrotoluene	165.00	12.582	12.133	(1.000)	420428	12.7	~~12.7~~(Q)	ND, Rt, MS
*	44	Acenaphthene-d10	164.00	12.582	12.583	(1.000)	3375472	40.0		
	48	2,4-Dinitrotoluene	165.00	12.582	12.912	(1.000)	466154	10.5	~~10.5~~(Q)	ND, Rt, MS
$	56	2,4,6-Tribromophenol	330.00	14.165	14.164	(1.125)	2351218	115	115(R)	
	57	4-Bromophenyl-phenylether	248.00	14.165	14.559	(0.910)	173408	4.82	~~4.82~~(Q)	ND, Rt, MS
*	60	Phenanthrene-d10	188.00	15.564	15.569	(1.000)	5216496	40.0		
$	68	Terphenyl-d14	244.00	18.806	18.794	(0.892)	8300854	82.1	82.1(R)	
*	73	Chrysene-d12	240.00	21.091	21.089	(1.000)	3890230	40.0		
*	79	Perylene-d12	264.00	24.968	24.974	(1.000)	4217547	40.0		

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: /chem/aux/msb.i/b012096.b/b9542.d

Date : 20-JAN-96 14:47

Client ID:

Instrument: msb.i

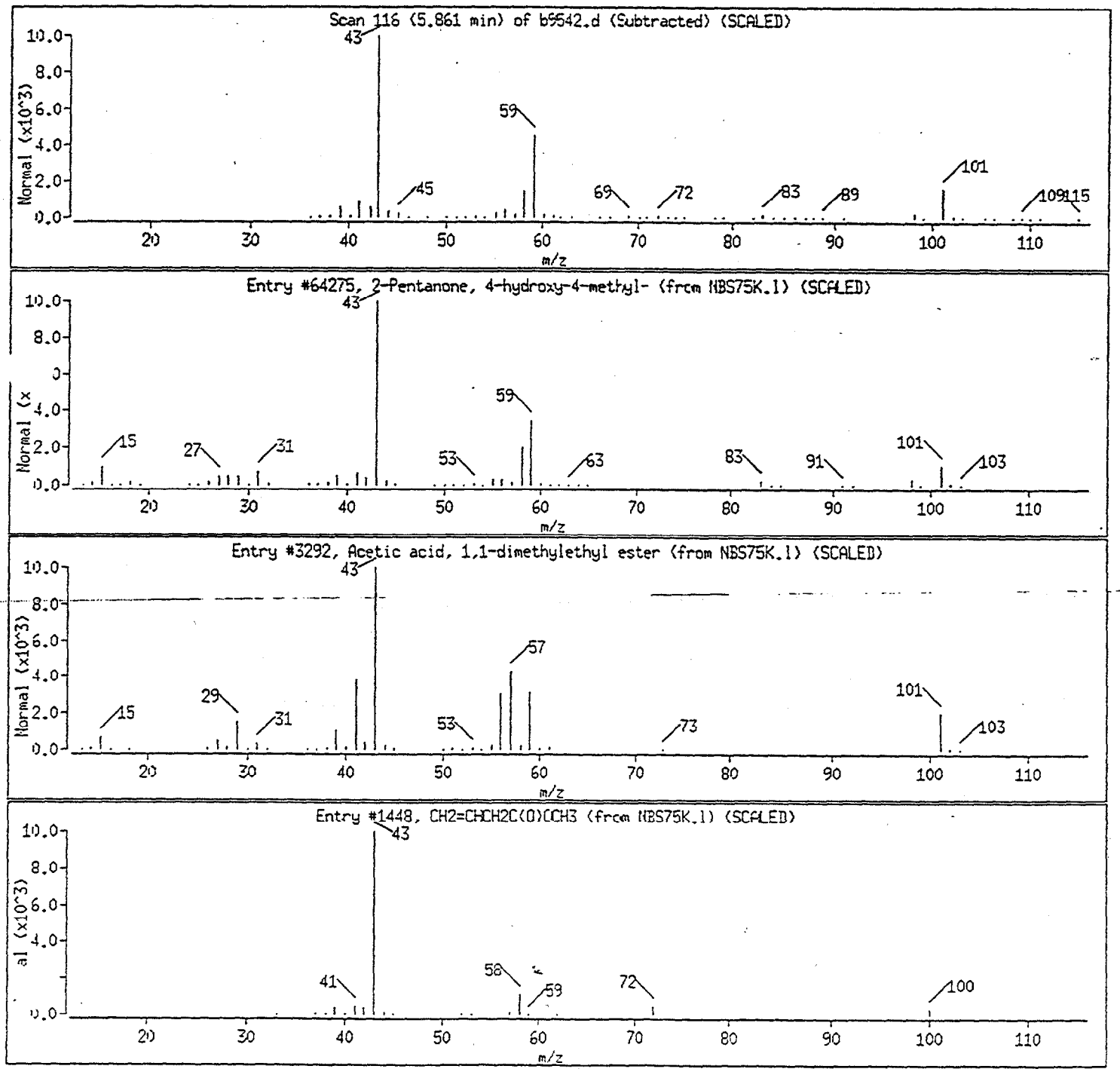
Sample Info: method blank

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NBS75K.l	64275	53	C6H12O2	116
Acetic acid, 1,1-dimethylethyl ester	540-88-5	NBS75K.l	3292	28	C6H12O2	116
CH2=CHCH2C(O)OCH3	3724-55-8	NBS75K.l	1448	10	C5H8O2	100



Data File: /chem/aux/msb.i/b012096.b/b9542.d

Date : 20-JAN-96 14:47

Client ID:

Instrument: msb.i

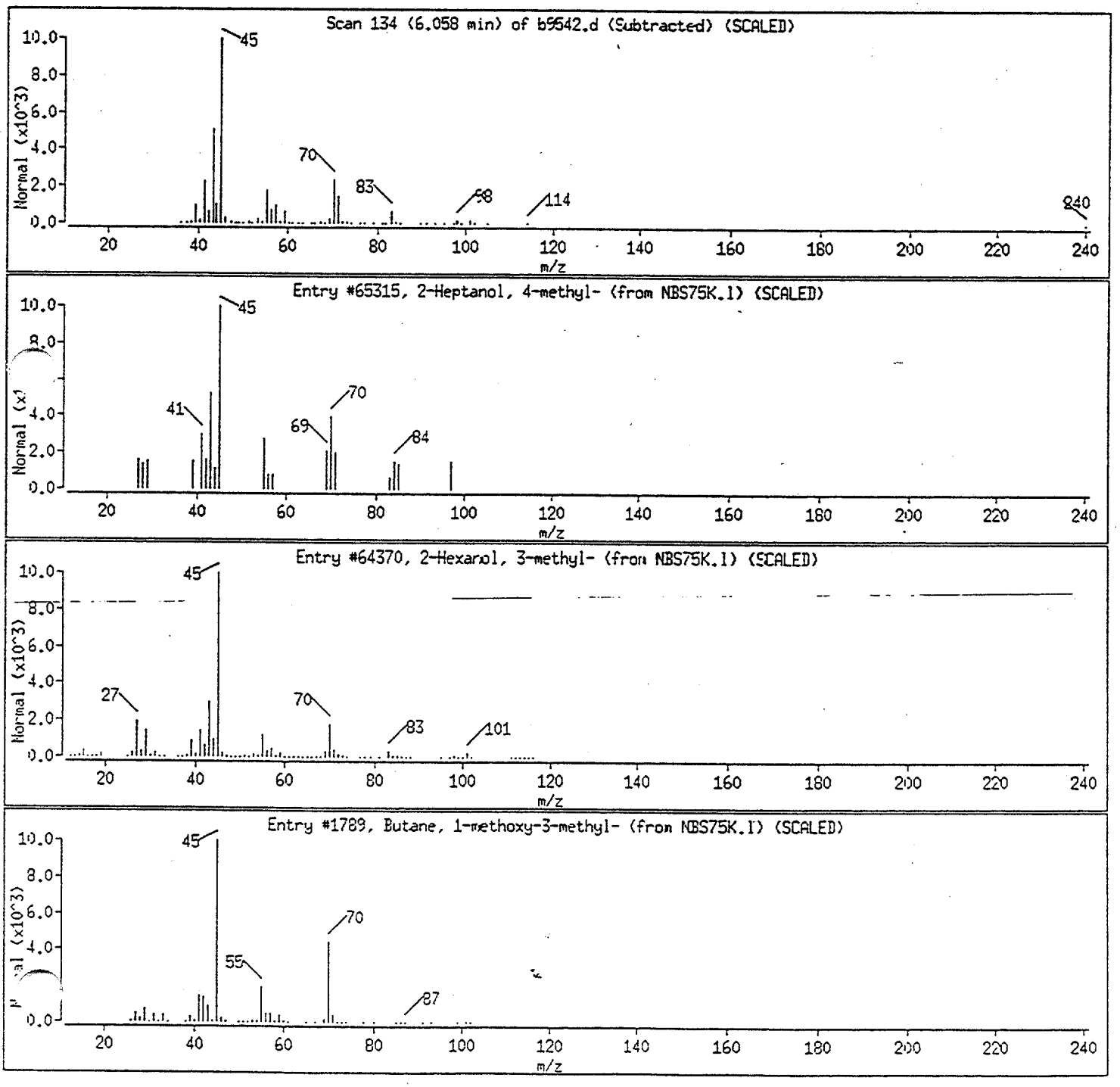
Sample Info: method blank

Operator: K. Bigelow

Column phase: J&W DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Heptanol, 4-methyl-	56298-90-9	NBS75K.1	65315	78	C8H18O	130
2-Hexanol, 3-methyl-	2313-65-7	NBS75K.1	64370	78	C7H16O	116
Butane, 1-methoxy-3-methyl-	626-91-5	NBS75K.1	1789	64	C6H14O	102



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0134 EPA SAMPLE NO.

SSPK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: N1C60123CS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B9543

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/20/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	88	
111-44-4	bis(2-Chloroethyl)ether	62	
95-57-8	2-Chlorophenol	96	
541-73-1	1,3-Dichlorobenzene	53	
106-46-7	1,4-Dichlorobenzene	49	
95-50-1	1,2-Dichlorobenzene	50	
95-48-7	2-Methylphenol	77	
108-60-1	2,2'-oxybis(1-Chloropropane)	71	
106-44-5	4-Methylphenol	78	
621-64-7	N-Nitroso-di-n-propylamine	75	
67-72-1	Hexachloroethane	45	
98-95-3	Nitrobenzene	75	
78-59-1	Isophorone	77	
88-75-5	2-Nitrophenol	110	
105-67-9	2,4-Dimethylphenol	100	
111-91-1	bis(2-Chloroethoxy)methane	75	
120-83-2	2,4-Dichlorophenol	100	
120-82-1	1,2,4-Trichlorobenzene	55	
91-20-3	Naphthalene	59	
106-47-8	4-Chloroaniline	22	
87-68-3	Hexachlorobutadiene	49	
59-50-7	4-Chloro-3-methylphenol	110	
91-57-6	2-Methylnaphthalene	63	
77-47-4	Hexachlorocyclopentadiene	52	
88-06-2	2,4,6-Trichlorophenol	110	
95-95-4	2,4,5-Trichlorophenol	82	
91-58-7	2-Chloronaphthalene	72	
88-74-4	2-Nitroaniline	76	
131-11-3	Dimethylphthalate	73	
208-96-8	Acenaphthylene	73	
606-20-2	2,6-Dinitrotoluene	81	
99-09-2	3-Nitroaniline	43	
83-32-9	Acenaphthene	65	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0135

EPA SAMPLE NO.

SSPK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: N1C60123CS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B9543

Level: (low/med) LOW Date Received: 01/19/96

% Moisture: _____ decanted: (Y/N) N Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/20/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	170	
100-02-7	4-Nitrophenol	100	
132-64-9	Dibenzofuran	71	
121-14-2	2,4-Dinitrotoluene	82	
84-66-2	Diethylphthalate	77	
7005-72-3	4-Chlorophenyl-phenylether	76	
86-73-7	Fluorene	73	
100-01-6	4-Nitroaniline	86	
534-52-1	4,6-Dinitro-2-methylphenol	150	
101-55-3	4-Bromophenyl-phenylether	76	
86-30-6	N-Nitrosodiphenylamine (1)	75	
118-74-1	Hexachlorobenzene	79	
87-86-5	Pentachlorophenol	140	
85-01-8	Phenanthrene	76	
120-12-7	Anthracene	76	
86-74-8	Carbazole	83	
84-74-2	Di-n-butylphthalate	64	
206-44-0	Fluoranthene	76	
129-00-0	Pyrene	82	
85-68-7	Butylbenzylphthalate	82	
91-94-1	3,3'-Dichlorobenzidine	34	
56-55-3	Benzo(a)anthracene	83	
218-01-9	Chrysene	81	
117-81-7	bis(2-Ethylhexyl)phthalate	84	
117-84-0	Di-n-octylphthalate	79	
205-99-2	Benzo(b)fluoranthene	90	
207-08-9	Benzo(k)fluoranthene	75	
50-32-8	Benzo(a)pyrene	85	
193-39-5	Indeno(1,2,3-cd)pyrene	81	
53-70-3	Dibenz(a,h)anthracene	84	
191-24-2	Benzo(g,h,i)perylene	78	

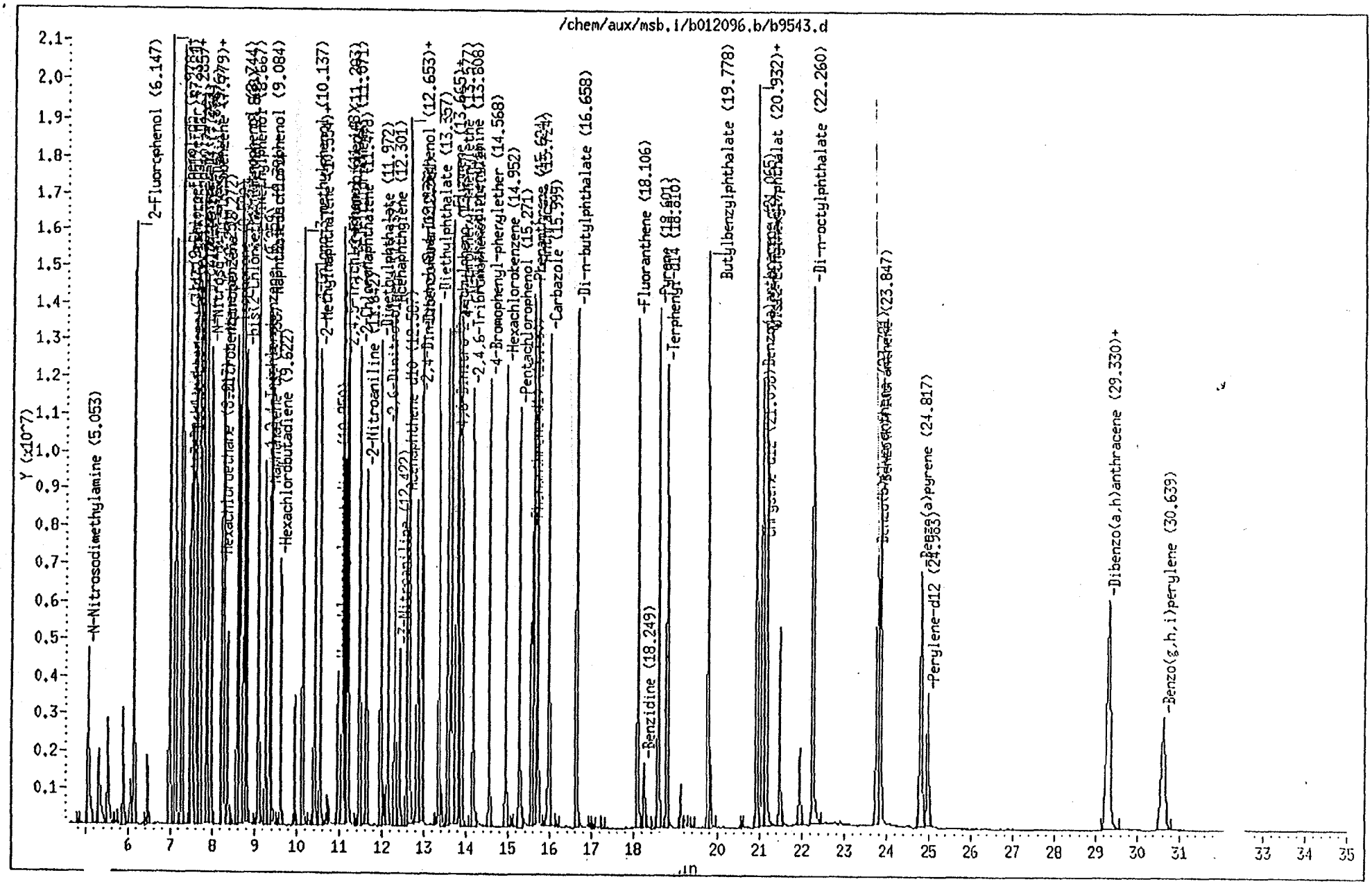
(1) - Cannot be separated from Diphenylamine

Data File: /chem/aux/msb.i/b012096.b/b9543.d
Date : 20-JAN-96 15:34
Client ID:
Sample Info: method spike

Instrument: msb.i

Operator: K. Bigelow
Column diameter: 0.25

Column phase: J&W DB-5



Data File: /chem/aux/msb.i/b012096.b/b9543.d
Report Date: 22-Jan-1996 07:07

OHM Analytical Division

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/aux/msb.i/b012096.b/b9543.d
Lab Smp Id:
Inj Date : 20-JAN-96 15:34
Operator : K. Bigelow Inst ID: msb.i
Smp Info : method spike
Misc Info : n1c60123cs,n1c60123,m1,1,1
Comment :
Method : /chem/aux/msb.i/b012096.b/0112996bclp.m
Meth Date : 22-Jan-1996 07:06 kathryn Quant Type: ISTD
Cal Date : 20-JAN-96 10:52 Cal File: b9537a.d
Als bottle: 8
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
	1	N-Nitrosodimethylamine	42.00	5.053	5.043	(0.673)	3845428	76.0	76.0
S	3	2-Fluorophenol	112.00	6.147	6.126	(0.819)	7574765	111	111(R)
S	4	Phenol-d5	99.00	6.967	6.946	(0.928)	7475920	90.0	90.0(R)
	5	Phenol	94.00	6.989	6.967	(0.931)	7426575	88.2	88.2
	6	bis(2-Chloroethyl)ether	93.00	7.121	7.110	(0.949)	10386785	61.9	61.9(Q)
S	7	2-Chlorophenol-D4	132.00	7.274	7.263	(0.969)	6905915	106	106(R)
	8	2-Chlorophenol	128.00	7.296	7.285	(0.972)	6729401	95.6	95.6
	9	1,3-Dichlorobenzene	146.00	7.472	7.471	(0.996)	3918081	53.3	53.3
*	10	1,4-Dichlorobenzene-d4	152.00	7.504	7.504	(1.000)	2063295	40.0	
	11	1,4-Dichlorobenzene	146.00	7.526	7.526	(1.003)	3756938	49.4	49.4
	12	2-Methylphenol	108.00	7.702	7.691	(1.026)	4575537	77.4	77.4
S	13	1,2-Dichlorobenzene-D4	152.00	7.757	7.756	(1.034)	3197806	73.4	73.4(R)
	14	1,2-Dichlorobenzene	146.00	7.779	7.778	(1.037)	3187580	49.9	49.9
	15	2,2'-oxybis(1-Chloropropene)	45.00	7.790	7.778	(1.038)	8718299	70.7	70.7
	16	4-Methylphenol	108.00	7.878	7.866	(1.050)	4905404	77.9	77.9
	17	N-Nitroso-di-n-propylamine	70.00	7.976	7.965	(1.063)	4533390	75.4	75.4
	18	Hexachloroethane	117.00	8.217	8.206	(1.095)	1423090	45.0	45.0
S	19	Nitrobenzene-d5	82.00	8.250	8.239	(0.882)	5804076	78.6	78.6(R)
	20	Nitrobenzene	77.00	8.272	8.261	(0.884)	5394953	75.0	75.0
	21	Isophorone	82.00	8.590	8.567	(0.918)	11628189	77.3	77.3
	22	2,4-Dimethylphenol	107.00	8.667	8.644	(0.926)	6782240	100	100
	23	2-Nitrophenol	139.00	8.744	8.732	(0.934)	4791954	108	108
	24	bis(2-Chloroethoxy)methane	93.00	8.809	8.798	(0.941)	6825294	75.4	75.4
	25	2,4-Dichlorophenol	162.00	9.084	9.071	(0.971)	6074944	103	103
		1,2,4-Trichlorobenzene	180.00	9.259	9.258	(0.989)	3324961	54.8	54.8
*		Naphthalene-d8	136.00	9.358	9.346	(1.000)	6937974	40.0	
	28	Naphthalene	128.00	9.391	9.390	(1.004)	9742053	59.4	59.4
	29	4-Chloroaniline	127.00	9.402	9.401	(1.005)	2220760	22.4	22.4
	30	Hexachlorobutadiene	225.00	9.633	9.620	(1.029)	1537055	49.4	49.4

Data File: /chem/aux/msb.i/b012096.b/b9543.d
Report Date: 22-Jan-1996 07:07

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
	31	4-Chloro-3-methylphenol	107.00	10.137	10.124	(1.093)	6298299	106	106
	32	2-Methylnaphthalene	142.00	10.554	10.551	(1.128)	7046883	63.3	63.3
	33	1-Methylnapthalene	142.00	10.554	10.760	(1.128)	7046883	70.4	~~70.4~~ ND, At
	34	Hexachlorocyclopentadiene	237.00	10.950	10.947	(0.870)	992115	51.5	51.5
	35	2,4,6-Trichlorophenol	196.00	11.071	11.057	(0.880)	4612504	110	110
	36	2,4,5-Trichlorophenol	196.00	11.148	11.145	(0.886)	3580818	82.0	82.0
S	37	2-Fluorobiphenyl	172.00	11.203	11.200	(0.890)	9086804	77.0	77.0(R)
	38	2-Chloronaphthalene	162.00	11.478	11.464	(0.912)	7668403	71.8	71.8
	39	2-Nitroaniline	65.00	11.642	11.628	(0.925)	3204452	76.3	76.3
	40	Dimethylphthalate	163.00	11.972	11.957	(0.951)	10484231	73.2	73.2
	41	2,6-Dinitrotoluene	165.00	12.148	12.133	(0.965)	2944474	81.2	81.2
	42	Acenaphthylene	152.00	12.301	12.297	(0.977)	12408322	72.6	72.6
	43	3-Nitroaniline	138.00	12.433	12.418	(0.988)	1620920	43.1	43.1
*	44	Acenaphthene-d10	164.00	12.587	12.583	(1.000)	3691780	40.0	
	45	2,4-Dinitrophenol	184.00	12.642	12.627	(1.004)	1905821	169	169(AQ)
	46	Acenaphthene	153.00	12.664	12.649	(1.006)	6476784	65.2	65.2
	47	4-Nitrophenol	109.00	12.653	12.627	(1.005)	1281211	103	103
	48	2,4-Dinitrotoluene	165.00	12.928	12.912	(1.027)	3962208	81.9	81.9
	49	Dibenzofuran	168.00	12.961	12.956	(1.030)	10858466	70.9	70.9
	50	Diethylphthalate	149.00	13.357	13.340	(1.061)	10847607	76.5	76.5
		4-Chlorophenyl-phenylether	204.00	13.577	13.571	(1.079)	4747966	76.3	76.3
	52	Fluorene	166.00	13.654	13.648	(1.085)	8049001	73.0	73.0
	53	4-Nitroaniline	138.00	13.676	13.648	(1.087)	2524024	85.5	85.5
	54	4,6-Dinitro-2-methylphenol	198.00	13.775	13.758	(0.884)	3484029	146	146
	55	N-Nitrosodiphenylamine	169.00	13.808	13.791	(0.886)	6463543	75.3	75.3
S	56	2,4,6-Tribromophenol	330.00	14.171	14.164	(1.126)	2959790	132	132(R)
	57	4-Bromophenyl-phenylether	248.00	14.568	14.559	(0.935)	3092816	76.2	76.2
	58	Hexachlorobenzene	284.00	14.952	14.943	(0.960)	3924800	79.1	79.1
	59	Pentachlorophenol	266.00	15.271	15.261	(0.980)	3000418	140	140
*	60	Phenanthrene-d10	188.00	15.580	15.569	(1.000)	5884256	40.0	
	61	Phenanthrene	178.00	15.635	15.613	(1.004)	12174945	76.2	76.2
	62	Anthracene	178.00	15.724	15.713	(1.009)	12517897	75.5	75.5
	63	Carbazole	167.00	15.999	15.987	(1.027)	12210303	82.6	82.6
	64	Di-n-butylphthalate	149.00	16.658	16.645	(1.069)	15390054	63.6	63.6
	65	Fluoranthene	202.00	18.106	18.101	(1.162)	12848892	76.1	76.1
	66	Benzidine	184.00	18.249	18.244	(0.865)	1150171	21.5	21.5
	67	Pyrene	202.00	18.601	18.585	(0.882)	13115251	81.6	81.6
S	68	Terphenyl-d14	244.00	18.810	18.794	(0.892)	8757691	78.8	78.8(R)
	69	Butylbenzylphthalate	149.00	19.778	19.771	(0.937)	7848194	82.4	82.4
	70	bis(2-Ethylhexyl)phthalate	149.00	20.932	20.923	(0.992)	9832170	84.4	84.4
	71	3,3'-Dichlorobenzidine	252.00	20.921	20.923	(0.992)	1678455	34.1	34.1
	72	Benzo(a)anthracene	228.00	21.065	21.056	(0.998)	10623003	83.1	83.1
*	73	Chrysene-d12	240.00	21.098	21.089	(1.000)	4273357	40.0	
	74	Chrysene	228.00	21.165	21.156	(1.003)	9951396	81.1	81.1
	75	Di-n-octylphthalate	149.00	22.260	22.257	(0.891)	17726753	78.5	78.5
		Benzo(b)fluoranthene	252.00	23.781	23.752	(0.952)	10660736	89.6	89.6
		Benzo(k)fluoranthene	252.00	23.847	23.829	(0.955)	10139500	75.0	75.0
	78	Benzo(a)pyrene	252.00	24.817	24.786	(0.993)	9331255	84.8	84.8
*	79	Perylene-d12	264.00	24.983	24.974	(1.000)	4117050	40.0	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
80 Dibenzo(a,h)anthracene	278.00	29.319	29.277	(1.174)	7074996	83.7	83.7
81 Indeno(1,2,3-cd)pyrene	276.00	29.330	29.300	(1.174)	8512205	81.4	81.4
82 Benzo(g,h,i)perylene	276.00	30.639	30.597	(1.226)	6547213	77.9	77.9

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

ORGANICS

Pesticides and/or PCBs by GC

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

GC Column(1): DB608 ID: 0.53 (mm) GC Column(2): DB5 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK01	78		82				0
02	PSPK01	80		87				0
~~03~~	~~CLJ78RB001~~	~~66~~		~~44~~				~~0~~ ds
04	CLJ78FB001	70		84				0
05	CLJ78IW001	0 *		0 *				2

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring compound diluted out

3E

WATER PESTICIDE BLANK SPIKE RECOVERY

0142

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix Spike - EPA Sample No.: PSPK01

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
Alpha-BHC	1.0	0	.87	87	30-130
Beta-BHC	1.0	0	.91	91	30-130
Delta-BHC	1.0	0	.85	85	30-130
Heptachlor	1.0	0	.79	79	40-131
Aldrin	1.0	0	.82	82	40-120
Heptachlor epoxide	1.0	0	.91	91	30-130
Endosulfan I	1.0	0	.91	91	30-130
Dieldrin	1.0	0	.95	95	52-126
4,4'-DDE	1.0	0	.99	99	30-130
Endrin	1.0	0	.97	97	56-121
Endosulfan II	1.0	0	.93	93	30-130
4,4'-DDD	1.0	0	.97	97	30-130
Endosulfan sulfate	1.0	0	.93	93	30-130
4,4'-DDT	1.0	0	.95	95	38-127
Methoxychlor	1.0	0	.84	84	30-130
ndrin ketone	1.0	0	.95	95	30-13
ndrin aldehyde	1.0	0	.84	84	30-130
alpha-Chlordane	1.0	0	.93	93	30-130
gamma-Chlordane	1.0	0	.91	91	30-130
Gamma-BHC (Lindane)	1.0	0	.95	95	56-120
Chlordane	2.0	0	1.8	90	30-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 21 outside limits

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

0143 EPA SAMPLE NO.

PBLK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Lab File ID: ZF2398 Lab Sample ID: N1P60124P

Instrument ID: ~~ZZ~~ Z Date Extracted: 01/19/96

Matrix: (soil/water) WATER Date Analyzed: 01/22/96

Level: (low/med) _____ Time Analyzed: 14:27

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
~~01~~	~~CLJ78RB001~~	~~JP2497P~~	~~ZF2400~~	~~01/22/96~~ ls
02	CLJ78FB001	JP2542P	ZF2401	01/22/96
03	CLJ78IW001	JP2541P	ZF2407	01/22/96
04	CLJ78IW001D.L.	JP2541P	ZF2413	01/23/96
05	PSPK01	N1P60124PS	ZF2399	01/22/96

COMMENTS:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0144 EPA SAMPLE NO.

CLJ78FB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: JP2542P

Sample wt/vol: 610 (g/mL) ML Lab File ID: ZF2401

% Moisture: N/A decanted: (Y/N) N Date Received: 01/19/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/22/96

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.16	U
319-85-7	beta-BHC	.16	U
319-86-8	delta-BHC	.16	U
76-44-8	Heptachlor	.16	U
309-00-2	Aldrin	.16	U
1024-57-3	Heptachlor epoxide	.16	U
959-98-8	Endosulfan I	.16	U
60-57-1	Dieldrin	.16	U
72-55-9	4,4'-DDE	.16	U
72-20-8	Endrin	.16	U
33213-65-9	Endosulfan II	.16	U
72-54-8	4,4'-DDD	.16	U
1031-07-8	Endosulfan sulfate	.16	U
50-29-3	4,4'-DDT	.16	U
72-43-5	Methoxychlor	.16	U
53494-70-5	Endrin ketone	.16	U
7421-93-4	Endrin aldehyde	.16	U
8001-35-2	Toxaphene	3.3	U
12674-11-2	Aroclor-1016	1.6	U
11104-28-2	Aroclor-1221	1.6	U
11141-16-5	Aroclor-1232	1.6	U
53469-21-9	Aroclor-1242	1.6	U
12672-29-6	Aroclor-1248	1.6	U
11097-69-1	Aroclor-1254	1.6	U
11096-82-5	Aroclor-1260	1.6	U
58-89-9	Gamma-BHC (Lindane)	.16	U
57-74-9	Chlordane	1.6	U

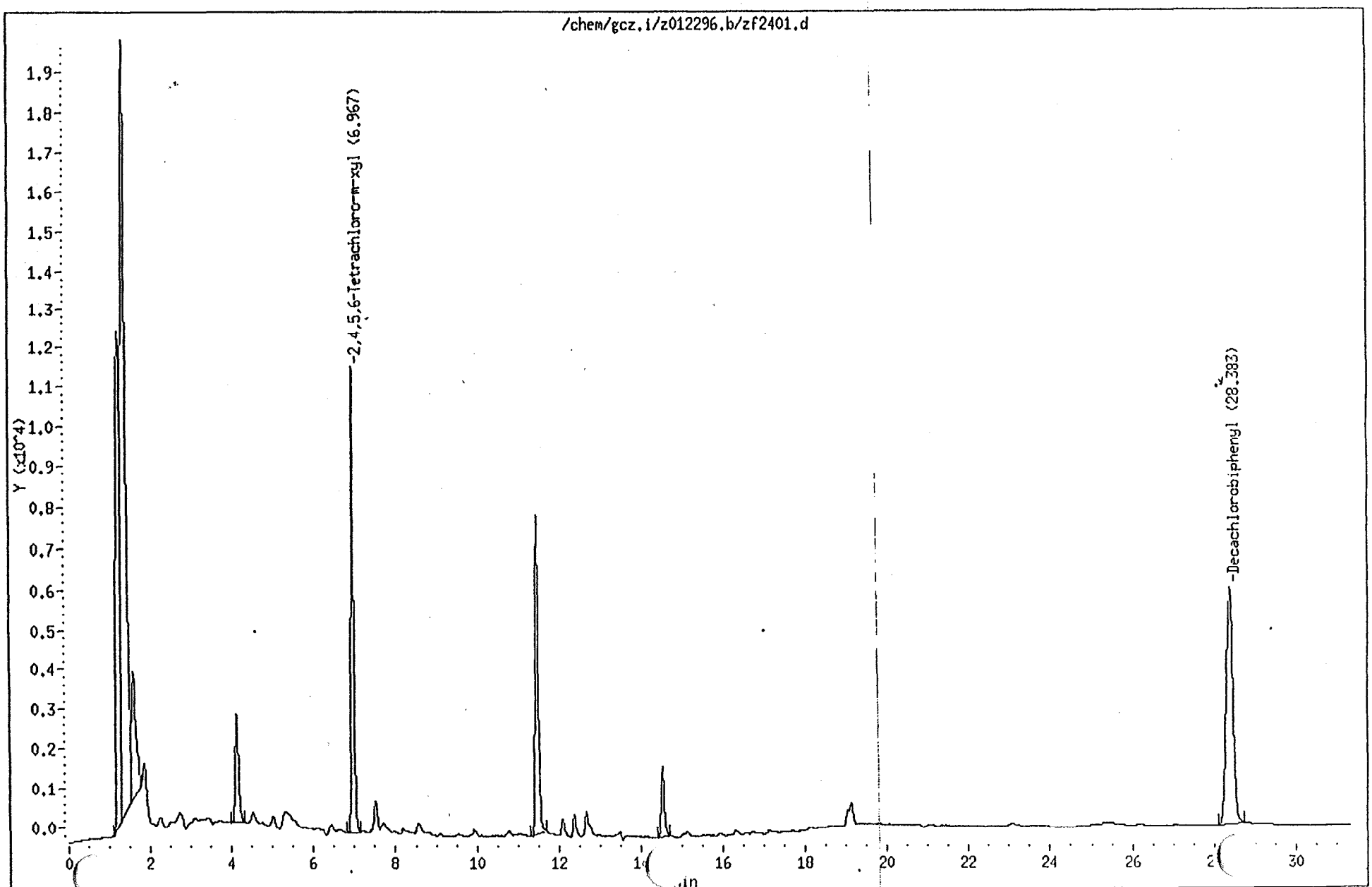
0145

Data File: /chem/gcz.i/z012296.b/zf2401.d
Date : 22-JAN-96 16:11
Client ID:
Sample Info: jp2542p,n1p60124

Column phase: DB-608

Instrument: gcz.i

Operator: art
Column diameter: 0.53



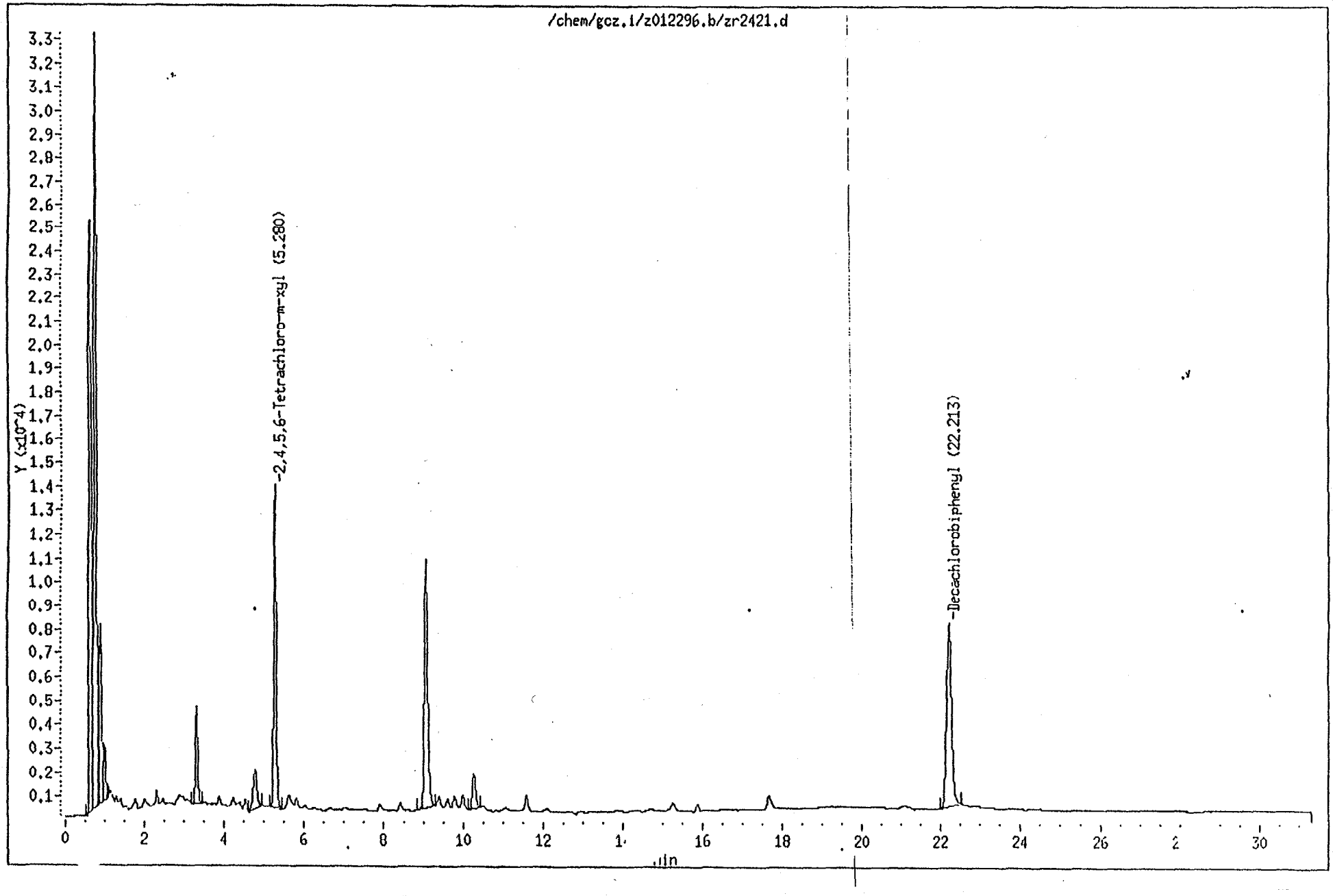
0146

Data File: /chem/gcz.i/z012296.b/zr2421.d
Date : 22-JAN-96 16:46
Client ID:
Sample Info: jp2542p,n1p60124

Column phase: DB-5

Instrument: gcz.i

Operator: art
Column diameter: 0.53



Data File: /chem/gcz.i/z012296.b/zf2401.d
Report Date: 23-Jan-1996 07:29

OHM Analytical Division

Data file : /chem/gcz.i/z012296.b/zf2401.d
Lab Smp Id:
Inj Date : 22-JAN-96 16:11
Operator : art Inst ID: gcz.i
Smp Info : jp2542p,n1p60124
Misc Info : jp2542p,n1p60124,g2,1,10
Comment :
Method : /chem/gcz.i/z012296.b/011996_8080_608.m
Meth Date : 23-Jan-1996 06:48 Quant Type: ESTD
Cal Date : 19-JAN-96 16:03 Cal File: zf2358.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

						CONCENTRATIONS		
						ON-COLUMN	FINAL	
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/ml)	(ug/ml)	
S	1 2,4,5,6-Tetrachloro-m-xylene	6.967	6.967	0.000	253362	0.0352	0.0352(R)	✓
S	22 Decachlorobiphenyl	28.383	28.397	-0.014	339453	0.0422	0.0422(R)	✓

ac 1/23/96

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcz.i/z012296.b/zr2421.d
Report Date: 23-Jan-1996 07:33

OHM Analytical Division

Data file : /chem/gcz.i/z012296.b/zr2421.d
Lab Smp Id:
Inj Date : 22-JAN-96 16:46
Operator : art Inst ID: gcz.i
Smp Info : jp2542p,n1p60124
Misc Info : jp2542p,n1p60124
Comment :
Method : /chem/gcz.i/z012296.b/011996_8080_db5.m
Meth Date : 23-Jan-1996 07:20 Quant Type: ESTD
Cal Date : 19-JAN-96 16:38 Cal File: zr2377.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

		Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
$	1	2,4,5,6-Tetrachloro-m-xylene	5.280	5.279	0.001	270202	0.0364	0.0364(R)
	2	Alpha-BHC	Compound Not Detected.					
	3	Beta-BHC	Compound Not Detected.					
	4	Gamma-BHC (Lindane)	Compound Not Detected.					
	5	Delta-BHC	Compound Not Detected.					
	6	Heptachlor	Compound Not Detected.					
	7	Aldrin	Compound Not Detected.					
	8	Heptachlor epoxide	Compound Not Detected.					
	9	gamma-Chlordane	Compound Not Detected.					
	10	Endosulfan I	Compound Not Detected.					
M	11	alpha-Chlordane	Compound Not Detected.					
	12	4,4'-DDE	Compound Not Detected.					
	13	Dieldrin	Compound Not Detected.					
	14	Endrin	Compound Not Detected.					
	15	Endosulfan II	Compound Not Detected.					
	16	4,4'-DDD	Compound Not Detected.					
	17	Endrin aldehyde	Compound Not Detected.					
	18	Endosulfan sulfate	Compound Not Detected.					
	19	4,4'-DDT	Compound Not Detected.					
	20	Endrin ketone	Compound Not Detected.					
	21	Methoxychlor	Compound Not Detected.					
$	22	Decachlorobiphenyl	22.213	22.219	-0.006	333975	0.0372	0.0372(R)

Q Flag Legend

R - Spike/Surrogate failed recovery limits.

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

0149 EPA SAMPLE NO.

CLJ78IW001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: JP2541P

Sample wt/vol: 1000 (g/mL) ML Lab File ID: ZF2407

% Moisture: N/A decanted: (Y/N) N Date Received: 01/19/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/19/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/22/96

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.50	U
319-85-7	beta-BHC	.50	U
319-86-8	delta-BHC	.50	U
76-44-8	Heptachlor	.50	U
309-00-2	Aldrin	.50	U
1024-57-3	Heptachlor epoxide	.50	U
959-98-8	Endosulfan I	.50	U
60-57-1	Dieldrin	.50	U
72-55-9	4,4'-DDE	48	
72-20-8	Endrin	2.1	
33213-65-9	Endosulfan II	.50	U
72-54-8	4,4'-DDD	270	E
1031-07-8	Endosulfan sulfate	.50	U
50-29-3	4,4'-DDT	4.8	
72-43-5	Methoxychlor	6.7	
53494-70-5	Endrin ketone	.50	U
7421-93-4	Endrin aldehyde	.50	U
8001-35-2	Toxaphene	10	U
12674-11-2	Aroclor-1016	5.0	U
11104-28-2	Aroclor-1221	5.0	U
11141-16-5	Aroclor-1232	5.0	U
53469-21-9	Aroclor-1242	5.0	U
12672-29-6	Aroclor-1248	5.0	U
11097-69-1	Aroclor-1254	5.0	U
11096-82-5	Aroclor-1260	5.0	U
58-89-9	Gamma-BHC (Lindane)	.50	U
57-74-9	Chlordane	5.0	U

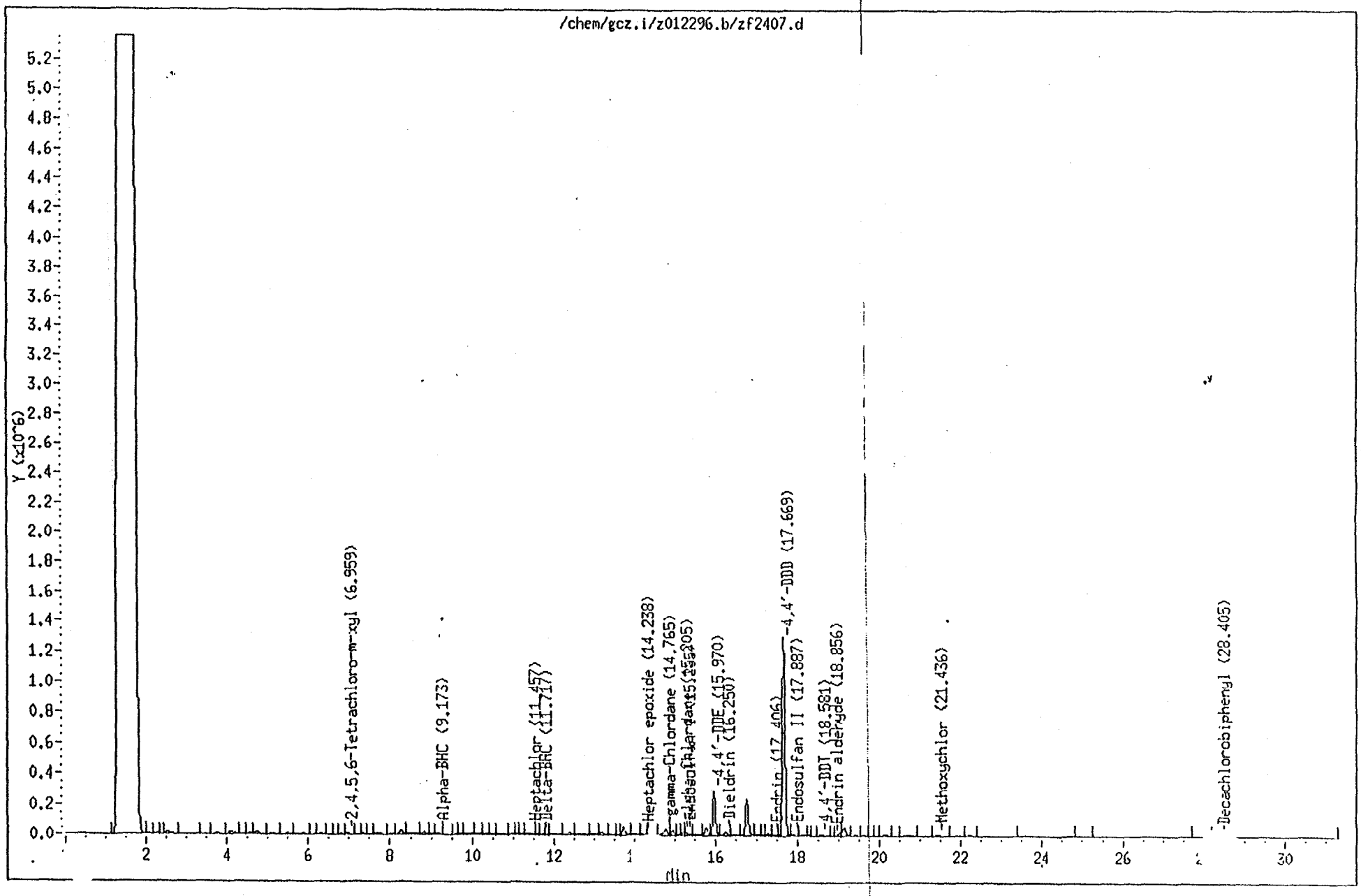
0150

Data File: /chem/gcz.i/z012296.b/zf2407.d
Date : 22-JAN-96 19:40
Client ID:
Sample Info: jp2541p,n2p60124

Instrument: gcz.i

Operator: art
Column diameter: 0.53

Column phase: DB-608



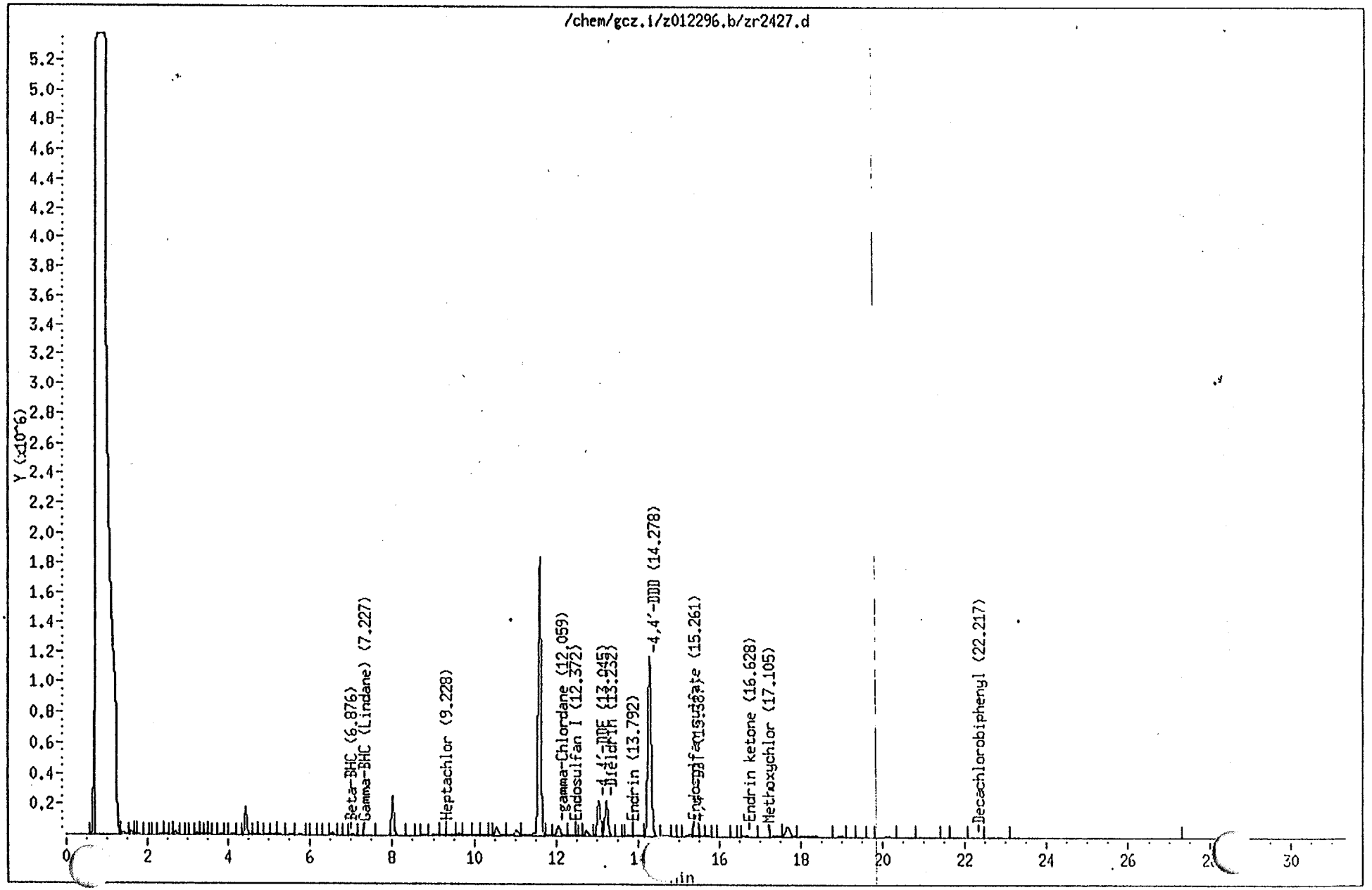
0151

Data File: /chem/gcz.i/z012296.b/zr2427.d
Date : 22-JAN-96 20:15
Client ID:
Sample Info: jp2541p,n2p60124

Column phase: DB-5

Instrument: gcz.i

Operator: art
Column diameter: 0.53



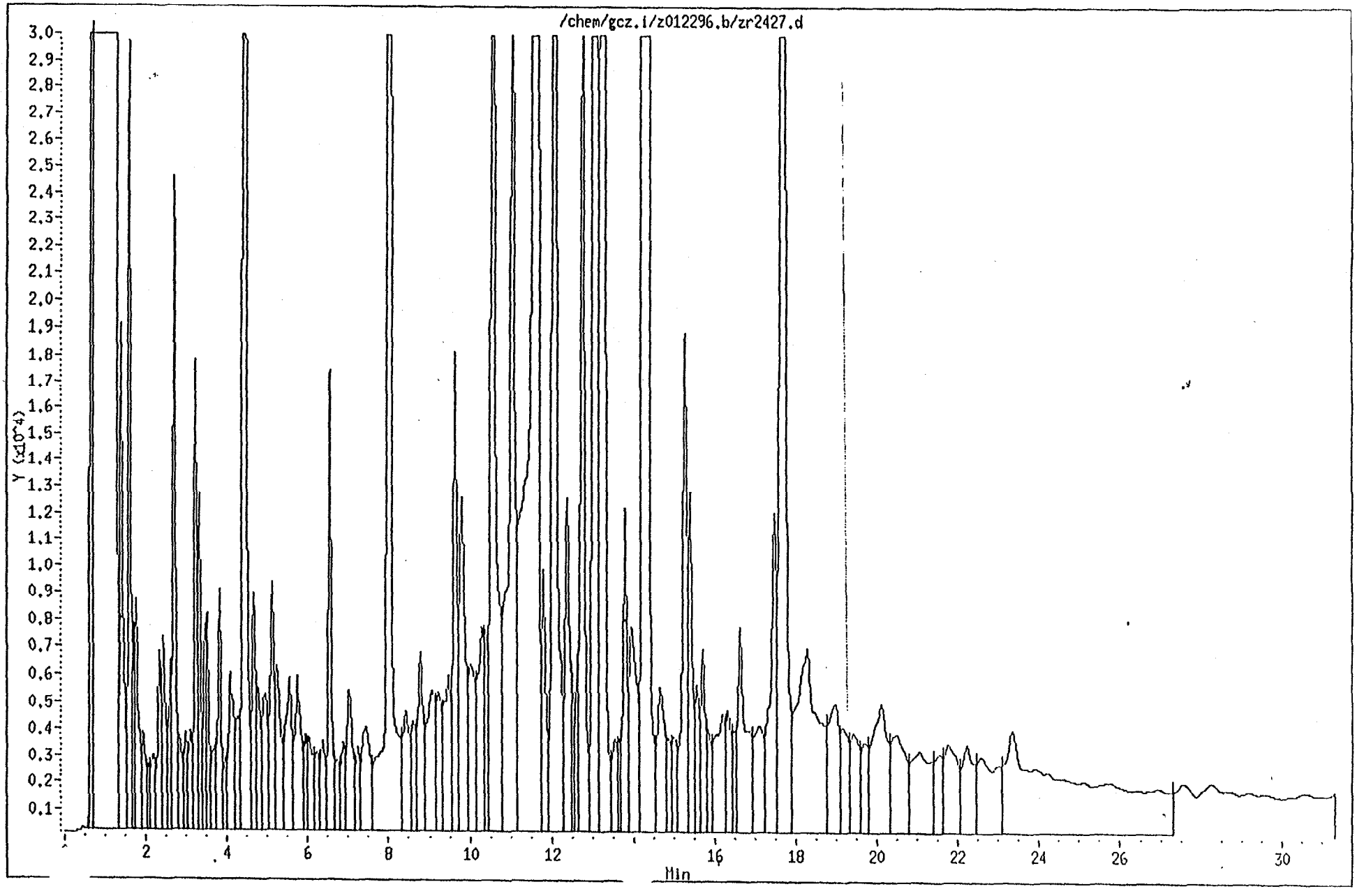
0152

Data File: /chem/gcz.i/z012296.b/zr2427.d
Date : 22-JAN-96 20:15
Client ID:
Sample Info: jp2541p,n2p60124

Column phase: DB-5

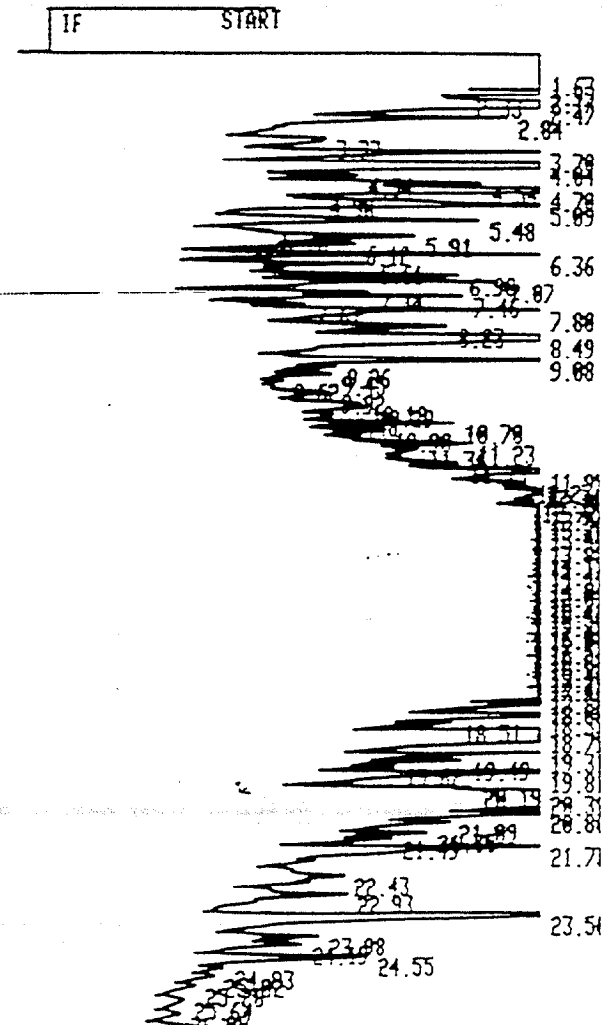
Instrument: gcz.i

Operator: art
Column diameter: 0.53

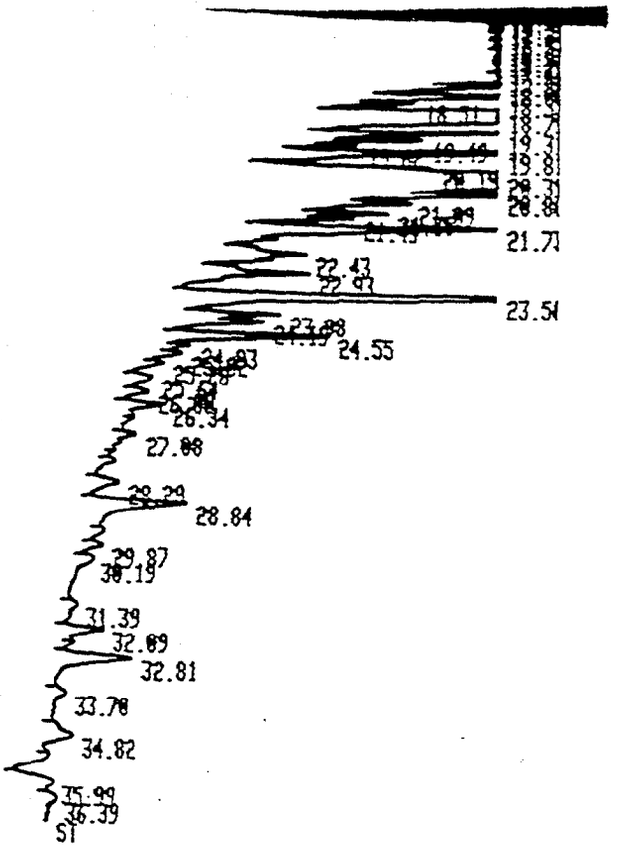


16.28	2237	PB	0.059	0.002
16.42	2883	BB	0.065	0.003
16.68	3841	VB	0.073	0.003
16.89	5846	BB	0.139	0.005
17.25	43351	BB	0.177	0.037
17.76	1165	PB	0.048	0.001
17.98	1895	PB	0.035	0.002
18.18	12181	BB	0.072	0.010
18.24	3288	BB	0.064	0.003
18.47	13961	BB	0.147	0.012
18.72	11045	BB	0.097	0.010
19.01	2604	BB	0.068	0.002
19.39	14959	PB	0.076	0.013
19.51	2320	BB	0.041	0.002
19.70	3148	BB	0.084	0.003
19.90	6954	BB	0.067	0.006
20.37	329910	PB	0.170	0.285
21.31	7140	BB	0.181	0.006
22.10	16266	PB	0.142	0.014
22.40	18831	BB	0.114	0.016
22.73	4999	BB	0.133	0.004
23.10	26630	BB	0.092	0.023
23.36	36329	BB	0.115	0.031
24.32	14502	PB	0.449	0.013
24.60	2938	BB	0.095	0.003
24.77	3468	BB	0.096	0.003
25.75	3800	PB	0.131	0.003
26.20	48039	BB	0.145	0.042
32.80	406250	PB	0.229	0.351

TOTAL AREA= 1.1586E+08
MUL FACTOR= 1.0000E+00



JP254 10 µ
CLJ781W001
DB-Co?
0,53 mm
UF
1 µl
1 ob 3



RUN # 2192 JAN/24/96 12:03:01
WORKFILE ID: C
WORKFILE NAME:

JP 2541 15Y

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.63	2.5623E+08	TSPB	0.535	83.390
1.97	35748	BB	0.076	0.012
2.17	160830	BB	0.082	0.052
2.33	1115	BB	0.035	3.6287E-04
2.47	591190	BB	0.112	0.192
2.84	72471	BB	0.105	0.024
3.37	6980	PB	0.066	0.002
3.70	145790	PB	0.133	0.048
4.04	609150	BB	0.120	0.198
4.34	23526	BB	0.086	0.008
4.54	44546	BB	0.092	0.015
4.70	297990	BB	0.086	0.097
4.90	2392	BB	0.042	7.7846E-04
5.09	179950	BB	0.109	0.059
5.48	115730	BB	0.124	0.038
5.78	3656	BB	0.092	0.001
5.91	54835	BB	0.112	0.018
6.12	23087	BB	0.068	0.008
6.36	116790	BB	0.088	0.038
6.61	30290	BB	0.070	0.010
6.90	51539	PB	0.077	0.017
7.07	92875	BB	0.105	0.030
7.34	26634	BB	0.075	0.009
7.46	41293	BB	0.064	0.013
7.67	13403	BB	0.070	0.004
7.80	69998	BB	0.069	0.023
8.23	62970	PB	0.122	0.021
8.49	998990	BB	0.087	0.325
9.08	304540	PB	0.073	0.099
9.26	7870	BB	0.062	0.003
9.45	14416	BB	0.088	0.005
9.62	2039	BB	0.053	6.6358E-04
9.92	12703	BB	0.082	0.004
10.29	6826	BB	0.070	0.002
10.49	9976	BB	0.116	0.003

263

6.36	116790	BB	0.088	0.038
6.61	38290	BB	0.070	0.010
6.90	51539	PB	0.077	0.017
7.07	92875	BB	0.105	0.030
7.34	26634	BB	0.075	0.009
7.46	41293	BB	0.064	0.013
7.67	13483	BB	0.070	0.004
7.80	69998	BB	0.069	0.023
8.23	62970	PB	0.122	0.021
8.49	998998	BB	0.087	0.325
9.08	304540	PB	0.073	0.099
9.26	7870	BB	0.062	0.003
9.45	14416	BB	0.080	0.005
9.62	2039	BB	0.053	6.6358E-04
9.92	12703	BB	0.082	0.004
10.29	6826	BB	0.070	0.002
10.48	8070	BB	0.116	0.003
10.70	41252	BB	0.084	0.013
10.90	17997	BB	0.086	0.006
11.23	27235	BB	0.085	0.009
11.36	3321	BB	0.049	0.001
11.73	13142	PB	0.079	0.004
11.95	77132	BB	0.111	0.025
12.23	7969	PB	0.068	0.003
12.36	4973	BB	0.063	0.002
12.50	48576	BB	0.078	0.016
12.72	5521	BB	0.094	0.002
12.94	207720	BB	0.114	0.068
13.20	12848	BB	0.078	0.004
13.44	6388	BB	0.074	0.002
13.85	369850	BB	0.092	0.120
14.15	23432	BB	0.067	0.008
14.44	671550	PB	0.081	0.219
14.84	12214	PB	0.064	0.004
15.01	38116	BB	0.082	0.012
15.27	30598	BB	0.102	0.010
15.42	11678	BB	0.050	0.004
15.58	587490	BB	0.083	0.191
15.79	385730	BB	0.074	0.126
16.08	26270	PB	0.050	0.009
16.51	65047	BB	0.071	0.021
16.68	820230	BB	0.078	0.267
16.91	6352600	BB	0.078	2.067
17.10	8681	BB	0.050	0.003
17.25	294960	BB	0.077	0.096
17.46	76000	BB	0.087	0.025
17.80	5209900	BB	0.081	1.696
18.06	48207	BB	0.088	0.016
18.35	240780	BB	0.079	0.078
18.51	17163	BB	0.081	0.006
18.79	2.6336E+07	SPB	0.082	8.571
19.31	70922	BB	0.078	0.023
19.49	20481	BB	0.065	0.007
19.62	10710	BB	0.066	0.004
19.81	230930	BB	0.095	0.075
20.19	9677	BB	0.070	0.003
20.39	3128400	BB	0.139	1.018
20.86	83854	BB	0.081	0.027
21.09	30687	BB	0.119	0.010
21.35	20129	BB	0.075	0.007
21.49	18189	BB	0.089	0.006
21.73	146060	BB	0.135	0.048
22.43	24154	PB	0.140	0.008
22.93	74708	PB	0.198	0.024
23.50	332910	BB	0.141	0.108
23.98	25976	BB	0.104	0.009
24.19	22890	BB	0.118	0.008
24.55	86226	BB	0.155	0.028
24.83	5439	BB	0.090	0.002
25.02	7601	BB	0.121	0.003
25.28	8349	BB	0.130	0.003

3 of 3

Data File: /chem/gcz.i/z012296.b/zf2407.d
Report Date: 23-Jan-1996 07:35

OHM Analytical Division

Data file : /chem/gcz.i/z012296.b/zf2407.d
Lab Smp Id:
Inj Date : 22-JAN-96 19:40
Operator : art Inst ID: gcz.i
Smp Info : jp2541p,n2p60124
Misc Info : jp2541p,n2p60124,g2,1,10
Comment :
Method : /chem/gcz.i/z012296.b/011996_8080_608.m
Meth Date : 23-Jan-1996 06:48 Quant Type: ESTD
Cal Date : 19-JAN-96 16:03 Cal File: zf2358.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
$	1 2,4,5,6-Tetrachloro-m-xylene	6.959	6.967	-0.008	267771	0.0372	~~0.0372(R)~~
	2 Alpha-BHC	9.173	9.130	0.043	317186	0.0290	~~0.0290~~
	5 Heptachlor	11.457	11.413	0.044	510330	0.0616	~~0.0616~~
	6 Delta-BHC	11.717	11.762	-0.045	261790	0.0277	~~0.0277~~
	8 Heptachlor epoxide	14.238	14.209	0.029	536885	0.0696	~~0.0696~~
	9 gamma-Chlordane	14.765	14.710	0.055	1781122	0.210	~~0.210~~
	10 alpha-Chlordane	15.205	15.207	-0.002	450717	0.0575	0.0575
	11 Endosulfan I	15.265	15.304	-0.039	739415	0.0964	~~0.0964~~
	12 4,4'-DDE	15.970	15.974	-0.004	7010243	0.957	0.957
	13 Dieldrin	16.250	16.249	0.001	1091208	0.145	~~0.145~~
	14 Endrin	17.406	17.374	0.032	264162	0.0424	0.0424
	15 4,4'-DDD	17.669	17.674	-0.005	30293885	5.35	5.35
	16 Endosulfan II	17.887	17.918	-0.031	275913	0.0409	~~0.0409~~
	17 4,4'-DDT	18.581	18.587	-0.006	553566	0.0973	0.0973
	18 Endrin aldehyde	18.856	18.908	-0.052	99189	0.0178	~~0.0178~~
	20 Methoxychlor	21.436	21.496	-0.060	447787	0.133	0.133
$	22 Decachlorobiphenyl	28.405	28.397	0.008	589324	0.0734	~~0.0734(R)~~
M	23 Chlordane				2231840	0.274	0.274

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcz.i/z012296.b/zr2427.d
Report Date: 23-Jan-1996 07:35

OHM Analytical Division

Data file : /chem/gcz.i/z012296.b/zr2427.d
Lab Smp Id:
Inj Date : 22-JAN-96 20:15
Operator : art Inst ID: gcz.i
Smp Info : jp2541p,n2p60124
Misc Info : jp2541p,n2p60124
Comment :
Method : /chem/gcz.i/z012296.b/011996_8080_db5.m
Meth Date : 23-Jan-1996 07:20 Quant Type: ESTD
Cal Date : 19-JAN-96 16:38 Cal File: zr2377.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

		Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
S	1	2,4,5,6-Tetrachloro-m-xylene	Compound Not Detected.					
	2	Alpha-BHC	Compound Not Detected.					
	3	Beta-BHC	6.876	6.908	-0.032	126609	0.0248	0.0248
	4	Gamma-BHC (Lindane)	7.227	7.174	0.053	103790	0.0106	0.0106
	5	Delta-BHC	Compound Not Detected.					
	6	Heptachlor	9.228	9.190	0.038	234450	0.0272	0.0272
	7	Aldrin	Compound Not Detected.					
	8	Heptachlor epoxide	Compound Not Detected.					
	9	gamma-Chlordane	12.059	12.021	0.038	2293264	0.251	0.251
	10	Endosulfan I	12.372	12.406	-0.034	468826	0.0587	0.0587
M	11	alpha-Chlordane				468826	0.0587	0.0587
	12	4,4'-DDE	13.045	13.045	0.000	6380434	0.829	0.829
	13	Dieldrin	13.232	13.205	0.027	6560723	0.737	0.737
	14	Endrin	13.792	13.815	-0.023	402258	0.0595	0.0595
	15	Endosulfan II	Compound Not Detected.					
	16	4,4'-DDD	14.278	14.278	0.000	33558918	5.20	5.20
	17	Endrin aldehyde	Compound Not Detected.					
	18	Endosulfan sulfate	15.261	15.252	0.009	724760	0.115	0.115
	19	4,4'-DDT	15.387	15.389	-0.002	439925	0.0684	0.0684
	20	Endrin ketone	16.628	16.632	-0.004	553774	0.0707	0.0707
	21	Methoxychlor	17.105	17.035	0.070	323925	0.0925	0.0925
S	22	Decachlorobiphenyl	22.217	22.219	-0.002	312531	0.0348	0.0348(R)

Qflag Legend

R - Spike/Surrogate failed recovery limits.

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET 0158

EPA SAMPLE NO.

CLJ78IW001DL

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: JP2541P

Sample wt/vol: 1000 (g/mL) ML Lab File ID: ZF2413

% Moisture: N/A decanted: (Y/N) N Date Received: 01/19/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/19/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/23/96

Injection Volume: 1.0 (uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	5.0	U
319-85-7	beta-BHC	5.0	U
319-86-8	delta-BHC	5.0	U
76-44-8	Heptachlor	5.0	U
309-00-2	Aldrin	5.0	U
1024-57-3	Heptachlor epoxide	5.0	U
959-98-8	Endosulfan I	5.0	U
60-57-1	Dieldrin	5.0	U
72-55-9	4,4'-DDE	42	X
72-20-8	Endrin	5.0	U
33213-65-9	Endosulfan II	5.0	U
72-54-8	4,4'-DDD	320	D
1031-07-8	Endosulfan sulfate	5.0	U
50-29-3	4,4'-DDT	5.0	U
72-43-5	Methoxychlor	6.5	X
53494-70-5	Endrin ketone	5.0	U
7421-93-4	Endrin aldehyde	5.0	U
8001-35-2	Toxaphene	100	U
12674-11-2	Aroclor-1016	50	U
11104-28-2	Aroclor-1221	50	U
11141-16-5	Aroclor-1232	50	U
53469-21-9	Aroclor-1242	50	U
12672-29-6	Aroclor-1248	50	U
11097-69-1	Aroclor-1254	50	U
11096-82-5	Aroclor-1260	50	U
58-89-9	Gamma-BHC (Lindane)	5.0	U
57-74-9	Chlordane	50	U

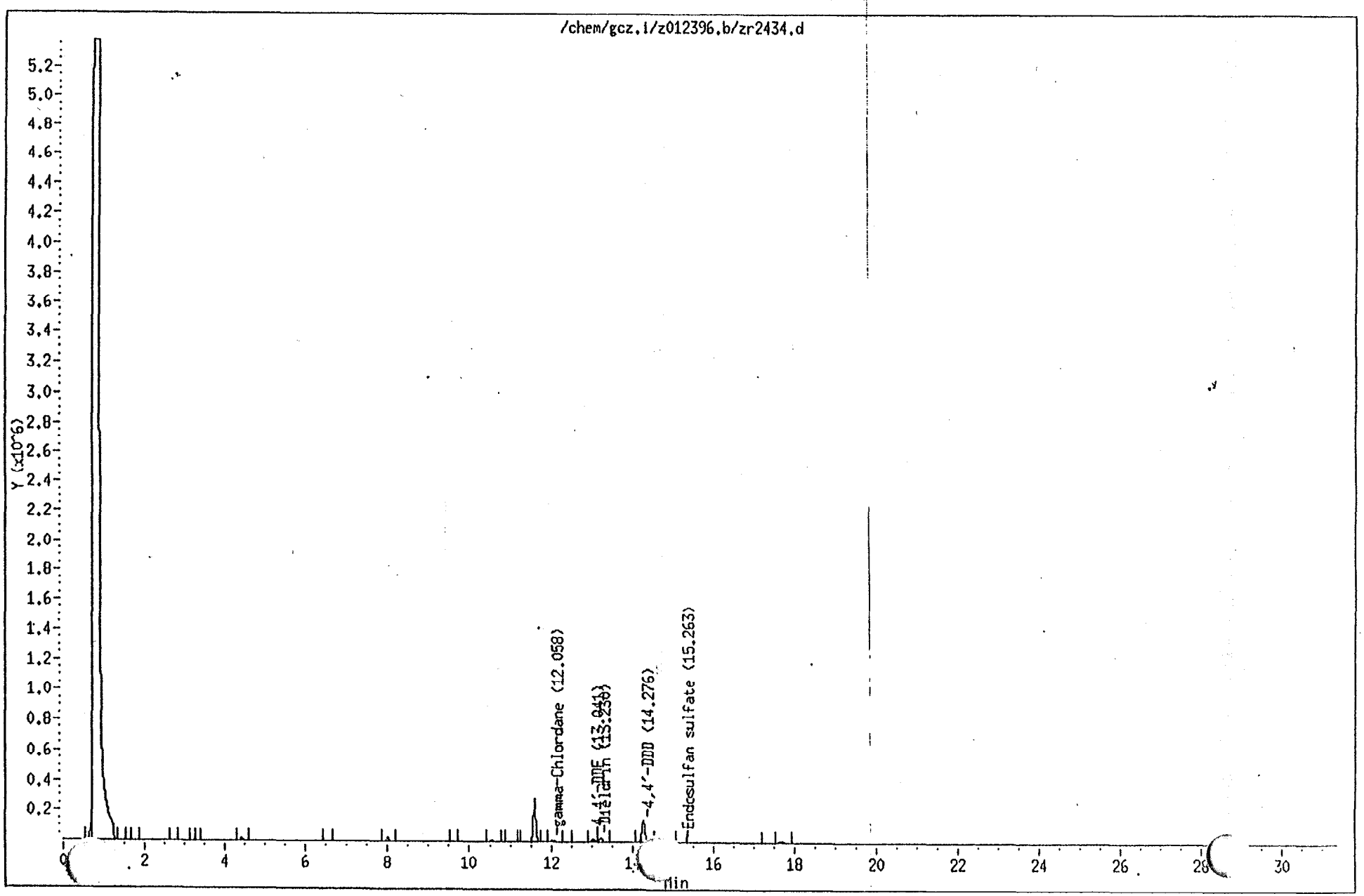
0159

Data File: /chem/gcz.i/z012396.b/zr2434.d
Date : 23-JAN-96 12:16
Client ID:
Sample Info: jp2541p,n1p60124

Column phase: DB-5

Instrument: gcz.i

Operator: art
Column diameter: 0.53



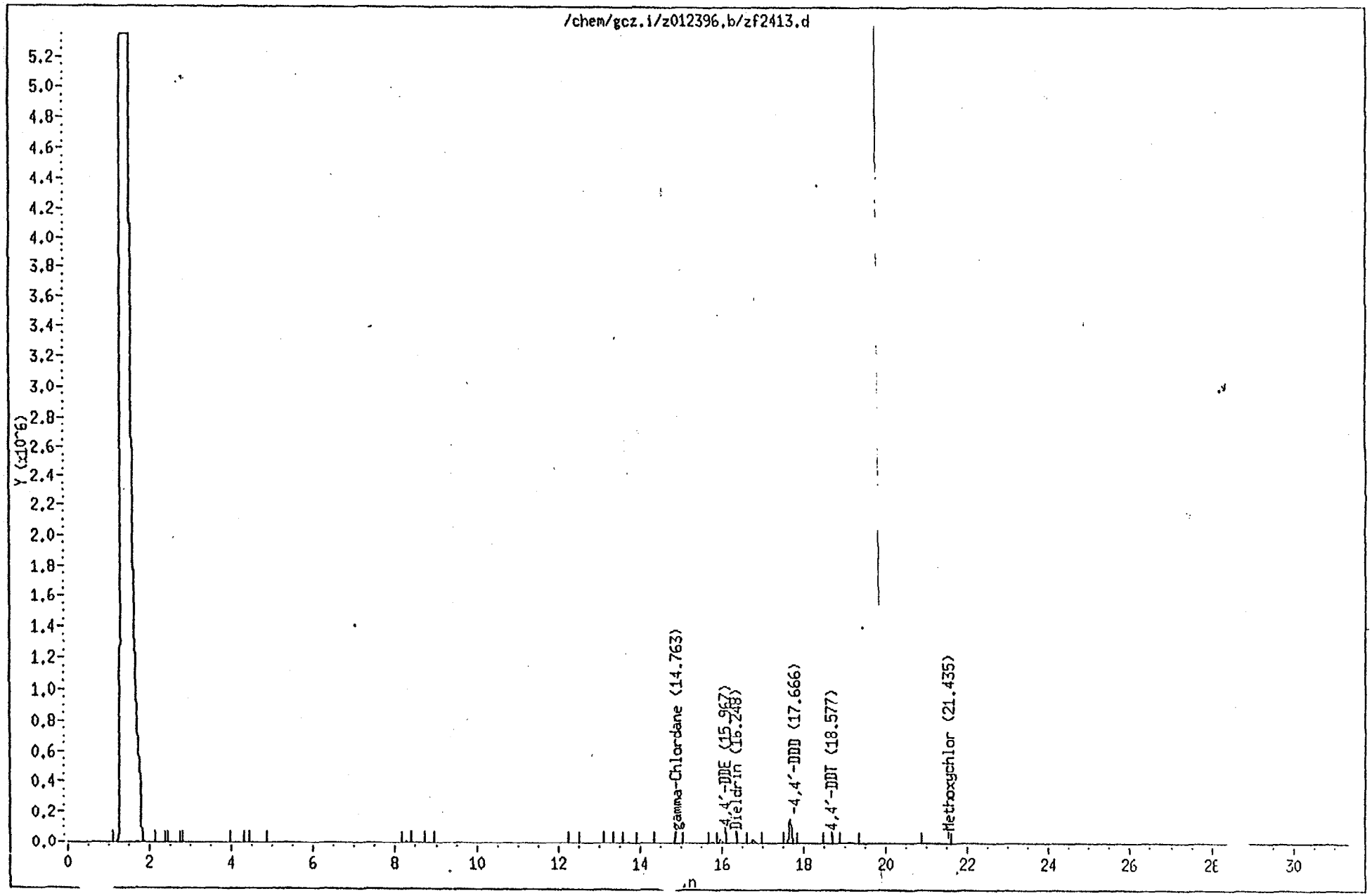
0160

Data File: /chem/gcz.i/z012396.b/zf2413.d
Date : 23-JAN-96 11:41
Client ID:
Sample Info: jp2541p,n1p60124

Column phase: DB-608

Instrument: gcz.i

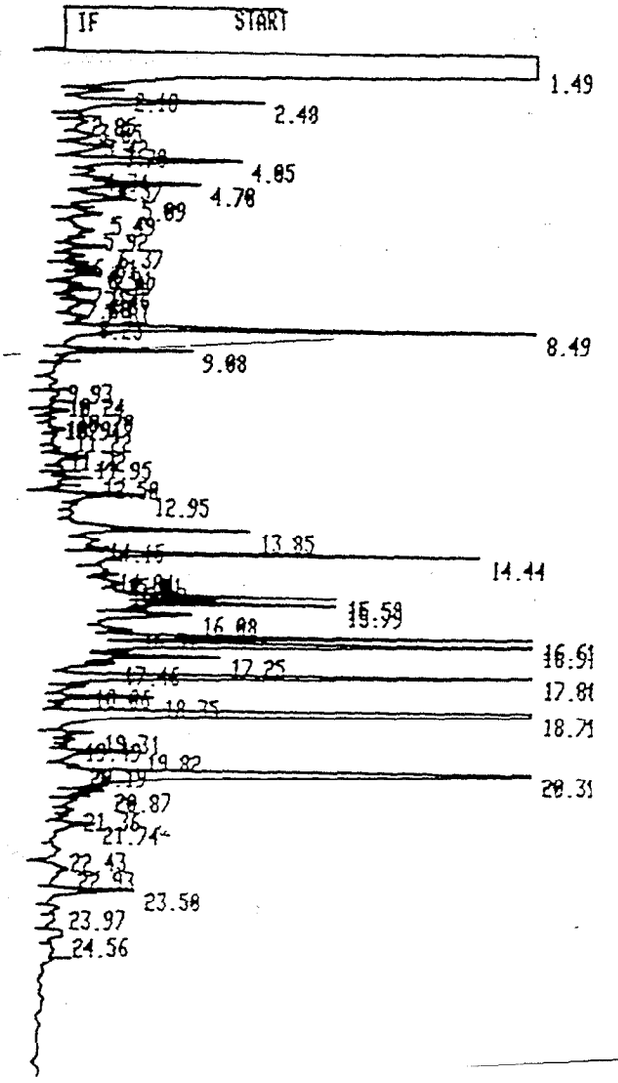
Operator: art
Column diameter: 0.53

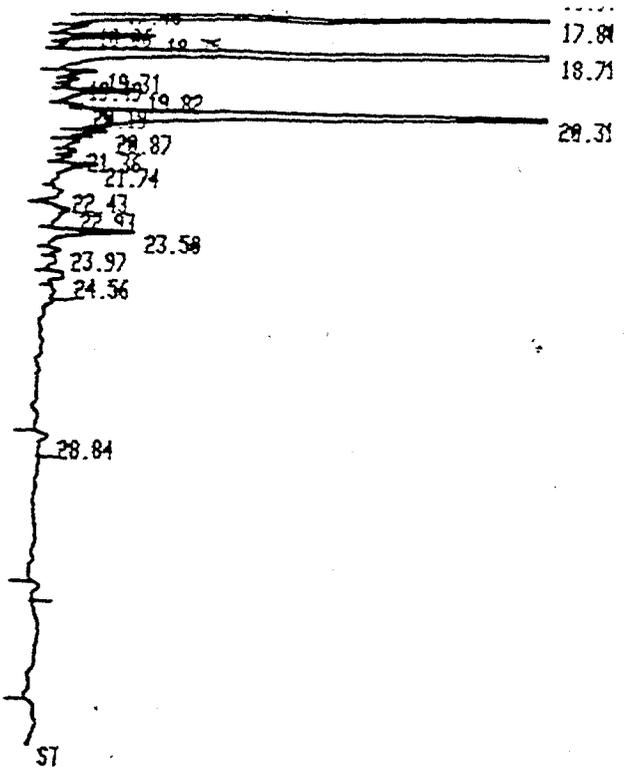


	[illegible]	PB	0.083	0.135
6.58	15717	BB	0.082	0.101
7.08	28147	PB	0.091	0.180
7.25	16726	BB	0.067	0.107
7.54	1536	BB	0.069	0.010
7.69	19593	BB	0.098	0.125
8.32	27652	BB	0.128	0.177
8.84	21511	PB	0.165	0.138
9.37	3810	BB	0.083	0.024
9.79	3315	BB	0.114	0.021
10.00	6869	BB	0.114	0.044
10.89	66493	PB	0.093	0.425
11.12	16974	BB	0.078	0.109
11.49	5747	BB	0.083	0.037
11.74	3383	BB	0.079	0.022
12.22	19711	PB	0.095	0.126
12.52	17884	BB	0.315	0.114
12.96	10387	BB	0.121	0.066
13.74	7982	PB	0.124	0.051
15.06	74074	PB	0.098	0.474
15.78	7937	BB	0.132	0.051
19.42	44046	BB	0.359	0.282
20.39	68656	BB	0.205	0.439
22.39	15361	BB	0.421	0.098
23.12	1511	BB	0.063	0.010
23.37	7049	BB	0.139	0.045
26.23	15907	BB	0.330	0.102
32.82	43998	BB	0.215	0.282

TOTAL AREA= 1.5633E+07
MUL FACTOR= 1.0000E+00

JP2541 100%
CLJ 78/10 001
DB-COP
0,53 mm
HF
1 ml
1 of 3





RUN # 2194 JAN/24/96 14:00:11
WORKFILE ID: C
WORKFILE NAME:

JP254(100Y

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.49	2.1193E+08	TSPB	0.441	97.090
2.18	16459	BB	0.092	0.008
2.48	96533	BB	0.136	0.044
2.85	2406	BB	0.064	0.001
3.05	4432	BB	0.121	0.002
3.42	13384	BB	0.170	0.006
3.70	26401	BB	0.160	0.012
4.05	81477	BB	0.133	0.037
4.34	4332	BB	0.101	0.002
4.57	3426	BB	0.088	0.002
4.70	37052	BB	0.095	0.017
5.09	27988	BB	0.143	0.013
5.49	14725	BB	0.133	0.007
5.92	8684	BB	0.138	0.004
6.37	13033	PB	0.088	0.006
6.61	5051	BB	0.080	0.002
6.91	7551	PB	0.083	0.004
7.07	12670	BB	0.111	0.006
7.35	3515	BB	0.081	0.002
7.46	5175	BB	0.064	0.002
7.68	2020	BB	0.072	9.2543E-04
7.81	11618	BB	0.124	0.005
8.23	7849	BB	0.125	0.004
8.49	256538	BB	0.081	0.118
9.08	35219	PB	0.076	0.016
9.93	4237	PB	0.132	0.002
10.24	3732	PB	0.129	0.002
10.70	6651	BB	0.083	0.003
10.91	3288	BB	0.093	0.002
11.22	4714	BB	0.090	0.002
11.72	2562	PB	0.086	0.001
11.95	15832	BB	0.131	0.007
12.50	8365	VB	0.075	0.004
12.95	38864	BB	0.124	0.018
13.85	63499	PB	0.101	0.029
14.15	3923	BB	0.076	0.002

2 of 3

8.23	7849	BB	[illegible]	
8.49	256538	BB	0.081	0.118
9.08	35219	PB	0.076	0.016
9.93	4237	PB	0.132	0.002
10.24	3732	PB	0.129	0.002
10.70	6651	BB	0.083	0.003
10.91	3280	BB	0.093	0.002
11.22	4714	BB	0.090	0.002
11.72	2562	PB	0.086	0.001
11.95	15832	BB	0.131	0.007
12.50	8365	VB	0.075	0.004
12.95	38864	BB	0.124	0.018
13.85	63499	PB	0.101	0.029
14.15	3923	BB	0.076	0.002
14.44	124450	PB	0.088	0.057
14.84	2286	PB	0.079	0.001
15.01	4748	BB	0.076	0.002
15.27	4819	BB	0.102	0.002
15.58	62753	BB	0.084	0.029
15.79	53067	BB	0.072	0.024
16.08	37664	BB	0.135	0.017
16.51	7254	BB	0.074	0.003
16.69	125530	BB	0.079	0.058
16.91	553210	BB	0.072	0.253
17.25	36418	PB	0.082	0.017
17.46	10195	BB	0.089	0.005
17.80	577370	BB	0.078	0.265
18.06	6043	BB	0.083	0.003
18.35	28412	BB	0.083	0.013
18.79	3202800	PB	0.077	1.467
19.31	8867	PB	0.078	0.004
19.49	2631	BB	0.066	0.001
19.82	29073	PB	0.108	0.013
20.19	1712	BB	0.074	7.8433E-04
20.39	472050	BB	0.133	0.216
20.87	8872	BB	0.078	0.004
21.36	2704	PB	0.075	0.001
21.74	23270	PB	0.161	0.011
22.43	18569	BB	0.296	0.009
22.93	29293	BB	0.301	0.013
23.50	41978	BB	0.137	0.019
23.97	3982	BB	0.110	0.002
24.56	9249	PB	0.156	0.004
28.84	10649	BB	0.236	0.005

TOTAL AREA= 2.1828E+08
MUL FACTOR= 1.0000E+00

3 of 3

Data File: /chem/gcz.i/z012396.b/zf2413.d
Report Date: 23-Jan-1996 16:57

OHM Analytical Division

Data file : /chem/gcz.i/z012396.b/zf2413.d
Lab Smp Id:
Inj Date : 23-JAN-96 11:41
Operator : art Inst ID: gcz.i
Smp Info : jp2541p,n1p60124
Misc Info : jp2541p,n1p60124,g2,1,100
Comment :
Method : /chem/gcz.i/z012396.b/011996_8080_608.m
Meth Date : 23-Jan-1996 16:53 Quant Type: ESTD
Cal Date : 19-JAN-96 16:03 Cal File: zf2358.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
9	gamma-Chlordane	14.763	14.710	0.053	70106	0.00828	~~0.00829~~ RT
12	4,4'-DDE	15.967	15.974	-0.007	607890	0.0830	0.0830 ✓
13	Dieldrin	16.248	16.249	-0.001	31112	0.00412	~~0.00412~~ Conf
15	4,4'-DDD	17.666	17.674	-0.008	3604225	0.637	0.637 ✓
17	4,4'-DDT	18.577	18.587	-0.010	19788	0.00348	~~0.00348~~
20	Methoxychlor	21.435	21.496	-0.061	43929	0.0130	~~0.0130~~
M 23	Chlordane				70106	0.00860	~~0.00860~~

QC 1/24/96

Data File: /chem/gcz.i/z012396.b/zr2434.d
Report Date: 23-Jan-1996 16:58

OHM Analytical Division

Data file : /chem/gcz.i/z012396.b/zr2434.d
Lab Smp Id:
Inj Date : 23-JAN-96 12:16
Operator : art Inst ID: gcz.i
Smp Info : jp2541p,n1p60124
Misc Info : jp2541p,n1p60124
Comment :
Method : /chem/gcz.i/z012396.b/011996_8080_db5.m
Meth Date : 23-Jan-1996 16:54 Quant Type: ESTD
Cal Date : 19-JAN-96 16:38 Cal File: zr2377.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

		Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
S	1	2,4,5,6-Tetrachloro-m-xylene	Compound Not Detected.					
	2	Alpha-BHC	Compound Not Detected.					
	3	Beta-BHC	Compound Not Detected.					
	4	Gamma-BHC (Lindane)	Compound Not Detected.					
	5	Delta-BHC	Compound Not Detected.					
	6	Heptachlor	Compound Not Detected.					
	7	Aldrin	Compound Not Detected.					
	8	Heptachlor epoxide	Compound Not Detected.					
	9	gamma-Chlordane	12.058	12.021	0.037	233735	0.0256	0.0256
	10	Endosulfan I	Compound Not Detected.					
M	11	alpha-Chlordane	Compound Not Detected.					
	12	4,4'-DDE	13.041	13.045	-0.004	492382	0.0640	0.0640
	13	Dieldrin	13.230	13.205	0.025	644675	0.0724	0.0724
	14	Endrin	Compound Not Detected.					
	15	Endosulfan II	Compound Not Detected.					
	16	4,4'-DDD	14.276	14.278	-0.002	3851584	0.596	0.596
	17	Endrin aldehyde	Compound Not Detected.					
	18	Endosulfan sulfate	15.263	15.252	0.011	35873	0.00570	0.00570
	19	4,4'-DDT	Compound Not Detected.					
	20	Endrin ketone	Compound Not Detected.					
	21	Methoxychlor	Compound Not Detected.					
S	22	Decachlorobiphenyl	Compound Not Detected.					

Report Date : 19-Jan-1996 17:04 Page 1

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 19-JAN-96 13:44
End Cal Date : 19-JAN-96 16:03
Quant Method : ESTD
Origin : Included
Target Version : 3.10
Integrator : HP Genie
Method file : /chem/gcz.i/z011996.b/011996_8080_608.m
Cal Date : 19-Jan-1996 17:02 art
Curve Type : Average

Calibration File Names:
Level 1: /chem/gcz.i/z011996.b/zf2354.d
Level 2: /chem/gcz.i/z011996.b/zf2355.d
Level 3: /chem/gcz.i/z011996.b/zf2356.d
Level 4: /chem/gcz.i/z011996.b/zf2357.d
Level 5: /chem/gcz.i/z011996.b/zf2358.d

		0.0200	0.1000	0.5000	1	2		
	mpound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD
	2 Alpha-BHC	*****	10531030	11844386	11154679	10252426	10950000	6.445
	3 Gamma-BHC (Lindane)	6572850	9990920	10304208	10151051	9322259	9368000	17.604
	4 Beta-BHC	4615750	5245810	5242744	4905202	4504144	4903000	7.025
	5 Heptachlor	7362900	8711170	8951994	8504952	7875536	8281000	7.855
	6 Delta-BHC	*****	8545700	10238526	9711394	8979553	9444000	6.907
	7 Aldrin	6598050	8645670	9344050	8836927	8122440	8329000	12.142
	8 Heptachlor epoxide	6998500	8123040	8334934	7832848	7250601	7708000	7.378
	9 gamma-Chlordane	7627700	8643210	8953558	8344053	8032755	8463000	6.837
	10 alpha-Chlordane	7359400	8717290	8596110	7608617	6916450	7840000	10.041
	11 Endosulfan I	6815600	7965810	8108230	8055062	7395390	7670000	7.262
	12 4,4'-DDE	5517500	7495770	8353310	7931335	7340312	7328000	14.827
	13 Dieldrin	6039200	7673030	8451695	8065008	7501204	7546000	12.179
	14 Endrin	4905350	6236780	6952366	6698354	6319128	6222000	12.715
	15 4,4'-DDD	4216950	5706410	6437750	6152564	5740824	5661000	15.346
	16 Endosulfan II	6017550	6981020	7315754	6908334	6492953	6743000	7.418
	17 4,4'-DDT	4444300	5527820	6220516	6235239	6008386	5688000	13.220
	18 Endrin aldehyde	5298200	5783110	5998424	5521365	5215320	5563000	5.896
	19 Endosulfan sulfate	4870550	5665790	6311998	6039584	5787233	5735000	9.473
	20 Methoxychlor	3050600	3496240	3514056	3441099	3355525	3372000	5.627
	21 Endrin ketone	5948900	7422510	8083386	7556244	7143732	7239000	11.025
M	23 Chlordane	7493550	8783255	8779834	8196336	7503604	8151316	7.876
	24 Toxaphene	*****	*****	*****	*****	*****	*****	***** <-
	25 Aroclor 1016	*****	*****	*****	*****	*****	*****	***** <-
	Aroclor 1221	*****	*****	*****	*****	*****	*****	***** <-
	27 Aroclor 1232	*****	*****	*****	*****	*****	*****	***** <-
	28 Aroclor 1242	*****	*****	*****	*****	*****	*****	***** <-
	29 Aroclor 1248	*****	*****	*****	*****	*****	*****	***** <-

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 19-JAN-96 13:44
End Cal Date : 19-JAN-96 16:03
Quant Method : ESTD
Origin : Included
Target Version : 3.10
Integrator : HP Genie
Method file : /chem/gcz.i/z011996.b/011996_8080_608.m
Cal Date : 19-Jan-1996 17:02 art
Curve Type : Average

	0.0200	0.1000	0.5000	1	2	___	
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD
30 Aroclor 1254	*****	*****	*****	*****	*****	*****	***** |<-
31 Aroclor 1260	*****	*****	*****	*****	*****	*****	***** |<-
32 Hexachlorobenzene	*****	*****	*****	*****	*****	*****	***** |<-
S 1 2,4,5,6-Tetrachloro-m-xylene	7059200	7979910	7616538	7020512	6348652	7205000	8.663
2 Decachlorobiphenyl	9465700	8590920	7932546	7256251	6616593	8033000	14.468

Report Date : 19-Jan-1996 17:31

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 19-JAN-96 14:19
End Cal Date : 19-JAN-96 16:38
Quant Method : ESTD
Origin : Included
Target Version : 3.10
Integrator : HP Genie
Method file : /chem/gcz.i/z011996.b/011996_8080_db5.m
Cal Date : 19-Jan-1996 17:26
Curve Type : Average

Calibration File Names:
Level 1: /chem/gcz.i/z011996.b/zr2373.d
Level 2: /chem/gcz.i/z011996.b/zr2374.d
Level 3: /chem/gcz.i/z011996.b/zr2375.d
Level 4: /chem/gcz.i/z011996.b/zr2376.d
Level 5: /chem/gcz.i/z011996.b/zr2377.d

	Compound	0.0200 Level 1	0.1000 Level 2	0.5000 Level 3	1 Level 4	2 Level 5	___ RRF	% RSD
	2 Alpha-BHC	6905350	10509350	12128748	11533507	10952954	10410000	19.699
	3 Beta-BHC	4722050	5293560	5498996	5164343	4852006	5106000	6.231
	4 Gamma-BHC (Lindane)	7035600	9933200	11178518	10514747	9939252	9760000	16.415
	5 Delta-BHC	-----	9064680	10318346	10251703	9742352	9959000	7.485
	6 Heptachlor	7718550	8340700	9248526	8942832	8387466	8527656	6.892
	7 Aldrin	6503850	8506290	9511584	9369480	8743943	8607029	14.317
	8 Heptachlor epoxide	6955600	8031260	8722208	8327860	7851220	7979630	8.261
	9 gamma-Chlordane	7984800	9176300	9791252	9537643	9075284	9142936	7.855
	10 Endosulfan I	7611550	8758710	8453350	7843752	7240571	7932807	7.747
M	11 alpha-Chlordane	7611550	8758710	8453350	7843752	7240571	7932807	7.747
	12 4,4'-DDE	5350900	7358450	9096092	8677998	8009808	7699000	19.086
	13 Dieldrin	9487800	8686250	9102502	8806169	8417914	8900147	4.610
	14 Endrin	5702850	6784470	7420420	7125870	6768324	6760387	9.610
	15 Endosulfan II	6284800	7173590	7782576	7346519	6750646	7057626	8.108
	16 4,4'-DDD	5058200	6286790	7337910	6943275	6650893	6456414	13.504
	17 Endrin aldehyde	6156800	6494120	6739640	6205008	5829296	6284973	5.517
	18 Endosulfan sulfate	5747950	6210350	6874224	6554904	6105595	6298605	6.853
	19 4,4'-DDT	5034750	6053950	6970462	7133283	6987230	6435935	13.865
	20 Endrin ketone	6954400	8167630	8518782	7939400	7535269	7833096	7.732
	21 Methoxychlor	3472900	3619800	3578396	3521050	3333561	3501221	3.155
S	1 2,4,5,6-Tetrachloro-m-xylene	7418950	7988510	7791428	7203523	6654895	7411000	7.053
S	22 Decachlorobiphenyl	9965400	9502910	9210468	8473615	7791946	8988868	9.578

PCB INITIAL CALIBRATION DATA

Lab Name: OHM Analytical Division Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLT78I6W001

Instrument ID: UF Calibration Date (s): 10 15 95 1962 10 16 95 1962

Calibration Time (s): 11:19 12:34

LAB FILE ID: CLOW = ——— CMEDL = ———

CMED = ——— CMEDH= ——— CHIGH = ———

COMPOUND	CLOW	CMEDL	CMED	CMEDH	CHIGH	CF	% RSD
Aroclor-1016	1910000	1800000	1690000	1560000	1500000	1690000	9.9
Aroclor-1016 Lab File Id	UF0355	UF0356	UF0357	UF0358	UF0359	—	—
Aroclor-1221	663000	647000	617000	552000	521000	596000	11.4
Aroclor-1221 Lab File Id	UF0367	UF0368	UF0369	UF0370	UF0371	—	—
Aroclor-1232	1080000	1080000	961000	894000	833000	966000	11.6
Aroclor-1232 Lab File Id	UF0373	UF0374	UF0375	UF0376	UF0377	—	—
Aroclor-1242	1630000	1530000	1380000	1336000	1230000	1420000	11.4
Aroclor-1242 Lab File Id	UF0379	UF0380	UF0381	UF0382	UF0383	—	—
Aroclor-1248	1430000	1350000	1250000	1180000	1120000	1270000	9.67
Aroclor-1248 Lab File Id	UF0361	UF0362	UF0363	UF0364	UF0365	—	—
Aroclor-1254	1958000	1870000	1760000	1610000	1500000	1740000	10.6
Aroclor-1254 Lab File Id	UF0367	UF0368	UF0369	UF0370	UF0371	—	—
Aroclor-1260	1410000	1400000	1340000	1270000	1260000	1340000	5.23
Aroclor-1260 Lab File Id	UF0355	UF0356	UF0357	UF0358	UF0359	—	—

Data File: /chem/gcz.i/z012296.b/zf2397.d
Report Date: 22-Jan-1996 13:00

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcz.i
Lab File ID: zf2397.d
Analysis Type:
Lab Sample ID:
Quant Type: ESTD

Injection Date: 22-JAN-96 12:10
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 13:44 16:03
Method File: /chem/gcz.i/z012296.b/011996_8080_608.m

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D	
$	1 2,4,5,6-Tetrachloro-m-xylene	7205000.000	7134274.318	0.010	0.3	15.0	
	2 Alpha-BHC	10950000.000	10758763.089	0.010	1.7	15.0	
	3 Gamma-BHC (Lindane)	9368000.000	9151530.923	0.010	2.3	15.0	
	4 Beta-BHC	4903000.000	4787956.349	0.010	2.3	15.0	
	5 Heptachlor	8281000.000	7520932.691	0.010	9.2	15.0	
	6 Delta-BHC	9444000.000	8757105.601	0.010	7.3	15.0	
	7 Aldrin	8329000.000	8305287.767	0.010	0.3	15.0	
	8 Heptachlor epoxide	7708000.000	7533308.933	0.010	2.3	15.0	
	9 gamma-Chlordane	8463000.000	8380210.171	0.010	1.0	15.0	
	10 alpha-Chlordane	7840000.000	7773015.018	0.010	0.9	15.0	
	11 Endosulfan I	7670000.000	7611977.546	0.010	0.8	15.0	
	12 4,4'-DDE	7328000.000	7360719.900	0.010	0.4	15.0	
	13 Dieldrin	7546000.000	7309577.279	0.010	3.1	15.0	
	14 Endrin	6222000.000	6173516.298	0.010	0.8	15.0	
	15 4,4'-DDD	5661000.000	5478185.685	0.010	3.2	15.0	
	16 Endosulfan II	6743000.000	6667422.187	0.010	1.1	15.0	
	17 4,4'-DDT	5688000.000	5129072.644	0.010	9.8	15.0	
	18 Endrin aldehyde	5563000.000	5353348.766	0.010	3.8	15.0	
	19 Endosulfan sulfate	5735000.000	5504044.422	0.010	4.0	15.0	
	20 Methoxychlor	3372000.000	2909250.570	0.010	13.7	15.0	
	21 Endrin ketone	7239000.000	7009195.398	0.010	3.2	15.0	
$	22 Decachlorobiphenyl	8033000.000	7758926.210	0.010	3.4	15.0	
M	23 Chlordane	8151000.000	8079337.318	0.010	0.9	40.0	
	24 Toxaphene	****	****	0.010	****	40.0	<-
	25 Aroclor 1016	****	****	0.010	****	40.0	<-
	26 Aroclor 1221	****	****	0.010	****	40.0	<-
	27 Aroclor 1232	****	****	0.010	****	40.0	<-
	28 Aroclor 1242	****	****	0.010	****	40.0	<-
	29 Aroclor 1248	****	****	0.010	****	40.0	<-
	30 Aroclor 1254	****	****	0.010	****	40.0	<-
	31 Aroclor 1260	****	****	0.010	****	40.0	<-
	32 Hexachlorobenzene	****	****	0.010	****	40.0	<-

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcz.i
Lab File ID: zf2406.d
Analysis Type:
Lab Sample ID:
Quant Type: ESTD

Injection Date: 22-JAN-96 19:06
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 13:44 16:03
Method File: /chem/gcz.i/z012296.b/011996_8080_608.m

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D	
S	1 2,4,5,6-Tetrachloro-m-xylene	7205000.000	7359905.152	0.010	2.1	15.0	
	2 Alpha-BHC	10950000.000	11095460.405	0.010	1.3	15.0	
	3 Gamma-BHC (Lindane)	9355000.000	9479066.169	0.010	1.2	15.0	
	4 Beta-BHC	4903000.000	4953054.061	0.010	1.0	15.0	
	5 Heptachlor	8261000.000	8116372.809	0.010	2.0	15.0	
	6 Delta-BHC	9444000.000	9138998.564	0.010	2.7	15.0	
	7 Aldrin	8329000.000	8520255.581	0.010	2.3	15.0	
	8 Heptachlor epoxide	7708000.000	7763276.834	0.010	0.8	15.0	
	9 gamma-Chlordane	8453000.000	8604521.156	0.010	1.7	15.0	
	10 alpha-Chlordane	7840000.000	7996107.957	0.010	2.0	15.0	
	11 Endosulfan I	7670000.000	7819072.457	0.010	1.9	15.0	
	12 4,4'-DDE	7328000.000	7546861.642	0.010	3.0	15.0	
	13 Dieldrin	7545000.000	7637151.860	0.010	1.2	15.0	
	14 Endrin	6222000.000	6476180.399	0.010	4.1	15.0	
	15 4,4'-DDD	5661000.000	5749943.090	0.010	1.6	15.0	
	16 Endosulfan II	6743000.000	6872101.365	0.010	1.9	15.0	
	17 4,4'-DDT	5583000.000	5631122.575	0.010	1.0	15.0	
	18 Endrin aldehyde	5563000.000	5554833.634	0.010	0.1	15.0	
	19 Endosulfan sulfate	5735000.000	5714559.609	0.010	0.4	15.0	
	20 Methoxychlor	3372000.000	3256081.031	0.010	3.4	15.0	
	21 Endrin ketone	7239000.000	7318790.792	0.010	1.1	15.0	
S	22 Decachlorobiphenyl	8033000.000	8100308.468	0.010	0.8	15.0	
M	23 Chlordane	8151000.000	8303238.671	0.010	1.9	40.0	
	24 Toxaphene	----	----	0.010	----	40.0	<-
	25 Aroclor 1016	----	----	0.010	----	40.0	<-
	26 Aroclor 1221	----	----	0.010	----	40.0	<-
	27 Aroclor 1232	----	----	0.010	----	40.0	<-
	28 Aroclor 1242	----	----	0.010	----	40.0	<-
	29 Aroclor 1248	----	----	0.010	----	40.0	<-
	30 Aroclor 1254	----	----	0.010	----	40.0	<-
	31 Aroclor 1260	----	----	0.010	----	40.0	<-
	32 Hexachlorobenzene	----	----	0.010	----	40.0	<-

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcz.i
Lab File ID: zf2409.d
Analysis Type:
Lab Sample ID:
Quant Type: ESTD

Injection Date: 22-JAN-96 20:50
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 13:44 16:03
Method File: /chem/gcz.i/z012296.b/011996_8080_608.m

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D	
$	1 2,4,5,6-Tetrachloro-m-xylene	7205000.000	7336109.273	0.010	1.8	15.0	
	2 Alpha-BHC	10950000.000	11059866.329	0.010	1.0	15.0	
	3 Gamma-BHC (Lindane)	9368000.000	9395084.527	0.010	0.3	15.0	
	4 Beta-BHC	4903000.000	4839627.794	0.010	0.3	15.0	
	5 Heptachlor	8281000.000	7320952.898	0.010	11.6	15.0	
	6 Delta-BHC	9444000.000	9232908.397	0.010	2.2	15.0	
	7 Aldrin	8329000.000	8450031.546	0.010	1.5	15.0	
	8 Heptachlor epoxide	7709000.000	7710615.036	0.010	0.0	15.0	
	9 gamma-Chlordane	8463000.000	8338985.769	0.010	1.5	15.0	
	10 alpha-Chlordane	7840000.000	7774682.749	0.010	0.8	15.0	
	11 Endosulfan I	7670000.000	7714488.164	0.010	0.6	15.0	
	12 4,4'-DDE	7328000.000	7366141.307	0.010	0.5	15.0	
	13 Dieldrin	7546000.000	7545927.392	0.010	0.0	15.0	
	14 Endrin	6222000.000	6403724.223	0.010	3.0	15.0	
	15 4,4'-DDD	5661000.000	6022074.672	0.010	6.4	15.0	
	16 Endosulfan II	6743000.000	6819702.043	0.010	1.1	15.0	
	17 4,4'-DDT	5688000.000	4607547.774	0.010	19.0	15.0	<-
	18 Endrin aldehyde	5563000.000	5394506.903	0.010	3.0	15.0	
	19 Endosulfan sulfate	5735000.000	5619675.875	0.010	2.0	15.0	
	20 Methoxychlor	3372000.000	2765557.407	0.010	18.0	15.0	<-
	21 Endrin ketone	7239000.000	7050371.080	0.010	2.6	15.0	
$	22 Decachlorobiphenyl	8033000.000	7830334.476	0.010	2.5	15.0	
M	23 Chlordane	8151000.000	8059881.229	0.010	1.1	40.0	
	24 Toxaphene	****	****	0.010	****	40.0	<-
	25 Aroclor 1016	****	****	0.010	****	40.0	<-
	26 Aroclor 1221	****	****	0.010	****	40.0	<-
	27 Aroclor 1232	****	****	0.010	****	40.0	<-
	28 Aroclor 1242	****	****	0.010	****	40.0	<-
	29 Aroclor 1248	****	****	0.010	****	40.0	<-
	30 Aroclor 1254	****	****	0.010	****	40.0	<-
	31 Aroclor 1260	****	****	0.010	****	40.0	<-
	32 Hexachlorobenzene	****	****	0.010	****	40.0	<-

Data File: /chem/gcz.i/z012396.b/zf2412.d
Report Date: 23-Jan-1996 11:06

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcz.i
Lab File ID: zf2412.d
Analysis Type:
Lab Sample ID:
Quant Type: ESTD

Injection Date: 23-JAN-96 09:51
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 13:44 16:03
Method File: /chem/gcz.i/z012396.b/011996_8080_608.i

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D	
S	1 2,4,5,6-Tetrachloro-m-xylene	7205000.000	7241533.273	0.010	0.5	15.0	
	2 Alpha-BHC	10950000.000	10972320.289	0.010	0.2	15.0	
	3 Gamma-BHC (Lindane)	9368000.000	9332868.870	0.010	0.4	15.0	
	4 Beta-BHC	4903000.000	4855750.790	0.010	1.0	15.0	
	5 Heptachlor	8281000.000	7737214.392	0.010	6.5	15.0	
	6 Delta-BHC	9444000.000	9350717.039	0.010	0.9	15.0	
	7 Aldrin	8329000.000	8419803.386	0.010	1.1	15.0	
	8 Heptachlor epoxide	7708000.000	7660215.919	0.010	0.6	15.0	
	9 gamma-Chlordane	8463000.000	8438702.740	0.010	0.3	15.0	
	10 alpha-Chlordane	7840000.000	7837535.645	0.010	0.0	15.0	
	11 Endosulfan I	7670000.000	7706884.887	0.010	0.5	15.0	
	12 4,4'-DDE	7328000.000	7394862.222	0.010	0.9	15.0	
	13 Dieldrin	7546000.000	7512808.783	0.010	0.4	15.0	
	14 Endrin	6222000.000	6124109.975	0.010	1.5	15.0	
	15 4,4'-DDD	5551000.000	5593123.997	0.010	0.7	15.0	
	16 Endosulfan II	5743000.000	5775145.063	0.010	0.5	15.0	
	17 4,4'-DDT	5568000.000	5255220.690	0.010	7.5	15.0	
	18 Endrin aldehyde	5553000.000	5547905.455	0.010	0.3	15.0	
	19 Endosulfan sulfate	5735000.000	5731717.131	0.010	0.1	15.0	
	20 Methoxychlor	3372000.000	3041041.309	0.010	9.8	15.0	
	21 Endrin ketone	7239000.000	7197586.896	0.010	0.6	15.0	
S	22 Decachlorobiphenyl	8033000.000	7783535.081	0.010	3.1	15.0	
M	23 Chlordane	8151000.000	8140949.285	0.010	0.1	40.0	
	24 Toxaphene	----	----	0.010	----	40.0	<-
	25 Aroclor 1016	----	----	0.010	----	40.0	<-
	26 Aroclor 1221	----	----	0.010	----	40.0	<-
	27 Aroclor 1232	----	----	0.010	----	40.0	<-
	28 Aroclor 1242	----	----	0.010	----	40.0	<-
	29 Aroclor 1248	----	----	0.010	----	40.0	<-
	30 Aroclor 1254	----	----	0.010	----	40.0	<-
	31 Aroclor 1260	----	----	0.010	----	40.0	<-
	32 Hexachlorobenzene	----	----	0.010	----	40.0	<-

Data File: /chem/gcz.i/z012396.b/zf2417.d
Report Date: 23-Jan-1996 16:53

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcz.i
Lab File ID: zf2417.d
Analysis Type:
Lab Sample ID:
Quant Type: ESTD

Injection Date: 23-JAN-96 14:00
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 13:44 16:03
Method File: /chem/gcz.i/z012396.b/011996_8080_608.

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D	
$	1 2,4,5,6-Tetrachloro-m-xylene	7205000.000	7371596.364	0.010	2.3	15.0	
	2 Alpha-BHC	10950000.000	11215263.352	0.010	2.4	15.0	
	3 Gamma-BHC (Lindane)	9355000.000	9553037.943	0.010	2.1	15.0	
	4 Beta-BHC	4903000.000	4976243.272	0.010	1.5	15.0	
	5 Heptachlor	8281000.000	7955225.927	0.010	3.8	15.0	
	6 Delta-BHC	9444000.000	9645622.653	0.010	2.1	15.0	
	7 Aldrin	8329000.000	8600390.119	0.010	3.3	15.0	
	8 Heptachlor epoxide	7703000.000	7809251.095	0.010	1.3	15.0	
	9 gamma-Chlordane	8463000.000	8657064.338	0.010	2.3	15.0	
	10 alpha-Chlordane	7840000.000	8031745.125	0.010	2.4	15.0	
	11 Endosulfan I	7670000.000	7847701.306	0.010	2.3	15.0	
	12 4,4'-DDE	7328000.000	7568412.145	0.010	3.3	15.0	
	13 Dieldrin	7545000.000	7684546.561	0.010	1.8	15.0	
	14 Endrin	6222000.000	6353643.503	0.010	2.1	15.0	
	15 4,4'-DDD	5661000.000	5880378.936	0.010	3.9	15.0	
	16 Endosulfan II	6743000.000	6928939.228	0.010	2.8	15.0	
	17 4,4'-DDT	5683000.000	5555649.395	0.010	2.3	15.0	
	18 Endrin aldehyde	5563000.000	5634516.433	0.010	1.3	15.0	
	19 Endosulfan sulfate	5735000.000	5880577.771	0.010	2.5	15.0	
	20 Methoxychlor	3372000.000	3203716.809	0.010	5.0	15.0	
	21 Endrin ketone	7239000.000	7406813.871	0.010	2.3	15.0	
$	22 Decachlorobiphenyl	8033000.000	8032581.553	0.010	0.0	15.0	
M	23 Chlordane	8151000.000	8347236.260	0.010	2.4	40.0	
	24 Toxaphene	----	----	0.010	----	40.0	<-
	25 Aroclor 1016	----	----	0.010	----	40.0	<-
	26 Aroclor 1221	----	----	0.010	----	40.0	<-
	27 Aroclor 1232	----	----	0.010	----	40.0	<-
	28 Aroclor 1242	----	----	0.010	----	40.0	<-
	29 Aroclor 1248	----	----	0.010	----	40.0	<-
	30 Aroclor 1254	----	----	0.010	----	40.0	<-
	31 Aroclor 1260	----	----	0.010	----	40.0	<-
	32 Hexachlorobenzene	----	----	0.010	----	40.0	<-

Data File: /chem/gcz.i/z012296.b/zr2416.d
Report Date: 22-Jan-1996 13:10

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcz.i
Lab File ID: zr2416.d
Analysis Type:
Lab Sample ID:
Quant Type: ESTD

Injection Date: 22-JAN-96 12:10
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 14:19 16:38
Method File: /chem/gcz.i/z012296.b/011996_8080_db5.

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D	
S	1 2,4,5,6-Tetrachloro-m-xylene	7411000.000	7579522.955	0.010	2.3	15.0	
	2 Alpha-BHC	10410000.000	11425744.015	0.010	9.8	15.0	
	3 Beta-BHC	5106000.000	5057561.673	0.010	0.9	15.0	
	4 Gamma-BHC (Lindane)	9760000.000	9833850.481	0.010	0.8	15.0	
	5 Delta-BHC	9969000.000	9694431.114	0.010	2.8	15.0	
	6 Heptachlor	8628000.000	7652274.510	0.010	11.2	15.0	
	7 Aldrin	8507000.000	8771715.044	0.010	1.9	15.0	
	8 Heptachlor epoxide	7980000.000	7815925.725	0.010	2.1	15.0	
	9 gamma-Chlordane	9143000.000	9374083.091	0.010	2.5	15.0	
	10 Endosulfan I	7933000.000	7827610.514	0.010	1.9	15.0	
M	11 alpha-Chlordane	7933000.000	7827610.514	0.010	1.9	15.0	
	12 4,4'-DDE	7699000.000	7980940.367	0.010	3.7	15.0	
	13 Dieldrin	8900000.000	7739427.470	0.010	13.0	15.0	
	14 Endrin	6750000.000	6389001.891	0.010	5.5	15.0	
	15 Endosulfan II	7063000.000	7074618.592	0.010	0.1	15.0	
	16 4,4'-DDD	6455000.000	5952179.091	0.010	7.6	15.0	
	17 Endrin aldehyde	6285000.000	5997035.492	0.010	4.6	15.0	
	18 Endosulfan sulfate	6299000.000	6087301.246	0.010	3.4	15.0	
	19 4,4'-DDT	6435000.000	5689448.712	0.010	11.6	15.0	
	20 Endrin ketone	7833000.000	7337114.473	0.010	6.3	15.0	
	21 Methoxychlor	3501000.000	2690288.505	0.010	23.2	15.0	<--
S	22 Decachlorobiphenyl	8989000.000	8783935.534	0.010	2.3	15.0	

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcz.i
Lab File ID: zr2426.d
Analysis Type:
Lab Sample ID:
Quant Type: ESTD

Injection Date: 22-JAN-96 19:40
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 14:19 16:38
Method File: /chem/gcz.i/z012296.b/011996_8080_db5.r

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
S	1 2,4,5,6-Tetrachloro-m-xylene	7411000.000	7646240.000	0.010	3.2	15.0
	2 Alpha-BHC	10410000.000	11552918.969	0.010	11.9	15.0
	3 Beta-BHC	5105000.000	5203459.693	0.010	1.9	15.0
	4 Gamma-BHC (Lindane)	9760000.000	9926536.933	0.010	1.7	15.0
	5 Delta-BHC	9969000.000	10073159.608	0.010	1.1	15.0
	6 Heptachlor	8623000.000	8215987.077	0.010	4.8	15.0
	7 Aldrin	8607000.000	8374487.158	0.010	3.1	15.0
	8 Heptachlor epoxide	7980000.000	8016512.692	0.010	0.5	15.0
	9 gamma-Chlordane	9143000.000	9450774.134	0.010	3.4	15.0
	10 Endosulfan I	7983000.000	7869432.569	0.010	1.4	15.0
M	11 alpha-Chlordane	7983000.000	7869432.569	0.010	1.4	15.0
	12 4,4'-DBE	7699000.000	8052047.061	0.010	4.6	15.0
	13 Dieldrin	8900000.000	8077989.114	0.010	9.2	15.0
	14 Endrin	6760000.000	6664309.544	0.010	1.4	15.0
	15 Endosulfan II	7068000.000	7201385.916	0.010	1.9	15.0
	16 4,4'-DDD	6456000.000	6337663.137	0.010	1.8	15.0
	17 Endrin aldehyde	6285000.000	6196158.322	0.010	1.4	15.0
	18 Endosulfan sulfate	6299000.000	6212112.457	0.010	1.4	15.0
	19 4,4'-DDT	6436000.000	6218744.473	0.010	3.4	15.0
	20 Endrin ketone	7833000.000	7612399.436	0.010	2.8	15.0
	21 Methoxychlor	3501000.000	3129430.044	0.010	10.6	15.0
S	22 Decachlorobiphenyl	8939000.000	9254582.426	0.010	3.1	15.0

Data File: /chem/gcz.i/z012296.b/zr2429.d
Report Date: 23-Jan-1996 07:20

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcz.i
Lab File ID: zr2429.d
Analysis Type:
Lab Sample ID:
Quant Type: ESTD

Injection Date: 22-JAN-96 21:25
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 14:19 16:38
Method File: /chem/gcz.i/z012296.b/011996_8080_db5.m

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D	
$	1 2,4,5,6-Tetrachloro-m-xylene	7411000.000	7521460.532	0.010	2.8	15.0	
	2 Alpha-BHC	10410000.000	11644359.245	0.010	11.9	15.0	
	3 Beta-BHC	5105000.000	5184591.002	0.010	1.5	15.0	
	4 Gamma-BHC (Lindane)	9750000.000	9909825.825	0.010	1.5	15.0	
	5 Delta-BHC	9969000.000	10147734.296	0.010	1.8	15.0	
	6 Heptachlor	8628000.000	7692182.937	0.010	10.8	15.0	
	7 Aldrin	8607000.000	8325517.699	0.010	2.5	15.0	
	8 Heptachlor epoxide	7930000.000	7936291.557	0.010	0.1	15.0	
	9 gamma-Chlordane	9143000.000	9165512.215	0.010	0.2	15.0	
	10 Endosulfan I	7983000.000	7786107.339	0.010	2.5	15.0	
M	11 alpha-Chlordane	7983000.000	7786107.339	0.010	2.5	15.0	
	12 4,4'-DDE	7699000.000	7830353.609	0.010	2.4	15.0	
	13 Dieldrin	8900000.000	8048484.943	0.010	9.5	15.0	
	14 Endrin	6750000.000	6810627.449	0.010	0.7	15.0	
	15 Endosulfan II	7058000.000	7124845.595	0.010	0.8	15.0	
	16 4,4'-DDD	6455000.000	6512423.793	0.010	2.4	15.0	
	17 Endrin aldehyde	6235000.000	6144325.214	0.010	2.2	15.0	
	18 Endosulfan sulfate	6299000.000	6247424.742	0.010	0.8	15.0	
	19 4,4'-DDT	6435000.000	5441695.356	0.010	15.4	15.0	<-
	20 Endrin ketone	7833000.000	7566958.618	0.010	3.4	15.0	
	21 Methoxychlor	3501000.000	3024080.309	0.010	13.6	15.0	
$	22 Decachlorobiphenyl	8989000.000	8575335.535	0.010	3.5	15.0	

Data File: /chem/gcz.i/z012396.b/zr2432.d
Report Date: 23-Jan-1996 11:07

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcz.i
Lab File ID: zr2432.d
Analysis Type:
Lab Sample ID:
Quant Type: ESTD

Injection Date: 23-JAN-96 09:51
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 14:19 16:38
Method File: /chem/gcz.i/z012396.b/011996_8080_db5.m

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
S	1 2,4,5,6-Tetrachloro-m-xylene	7411000.000	7435137.500	0.010	1.0	15.0
	2 Alpha-BHC	10410000.000	11350390.424	0.010	9.1	15.0
	3 Beta-BHC	5105000.000	5071376.055	0.010	0.7	15.0
	4 Gamma-BHC (Lindane)	9760000.000	9721876.840	0.010	0.4	15.0
	5 Delta-BHC	9969000.000	9945692.268	0.010	0.2	15.0
	6 Heptachlor	8528000.000	8023202.954	0.010	7.0	15.0
	7 Aldrin	8607000.000	8351105.642	0.010	2.8	15.0
	8 Heptachlor epoxide	7980000.000	8000694.918	0.010	0.3	15.0
	9 gamma-Chlordane	9143000.000	9257785.752	0.010	1.3	15.0
	10 Endosulfan I	7983000.000	7525966.086	0.010	2.0	15.0
M	11 alpha-Chlordane	7983000.000	7525966.086	0.010	2.0	15.0
	12 4,4'-DDE	7699000.000	8077304.221	0.010	4.9	15.0
	13 Dieldrin	8900000.000	8049514.457	0.010	9.6	15.0
	14 Endrin	6760000.000	6724250.405	0.010	0.5	15.0
	15 Endosulfan II	7068000.000	7174357.717	0.010	1.5	15.0
	16 4,4'-DDD	6456000.000	6293305.253	0.010	2.4	15.0
	17 Endrin aldehyde	6285000.000	6193227.729	0.010	1.4	15.0
	18 Endosulfan sulfate	6299000.000	6249114.835	0.010	0.8	15.0
	19 4,4'-DDT	6435000.000	6094077.293	0.010	5.3	15.0
	20 Endrin ketone	7833000.000	7557560.643	0.010	3.4	15.0
	21 Methoxychlor	1501000.000	3109076.279	0.010	11.3	15.0
S	22 Decachlorobiphenyl	8939000.000	8915863.851	0.010	0.8	15.0

Data File: /chem/gcz.i/z012396.b/zr2438.d
Report Date: 23-Jan-1996 16:54

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcz.i
Lab File ID: zr2438.d
Analysis Type:
Lab Sample ID:
Quant Type: ESTD

Injection Date: 23-JAN-96 14:35
Init. Calibration Date(s): JAN/19/96 JAN/19/96
Init. Calibration Times: 14:19 16:38
Method File: /chem/gcz.i/z012396.b/011996_8080_db5.

				MIN		MAX
	COMPOUND	RRF	RF0	RRF	%D	%D
$	1 2,4,5,6-Tetrachloro-m-xylene	7411000.000	7607287.273	0.010	2.6	15.0
	2 Alpha-BHC	10410000.000	11529543.278	0.010	11.7	15.0
	3 Beta-BHC	5105000.000	5201234.395	0.010	1.9	15.0
	4 Gamma-BHC (Lindane)	9760000.000	9943017.679	0.010	1.9	15.0
	5 Delta-BHC	9969000.000	10215401.061	0.010	2.5	15.0
	6 Heptachlor	8628000.000	8214635.364	0.010	4.8	15.0
	7 Aldrin	8507000.000	8936182.743	0.010	3.8	15.0
	8 Heptachlor epoxide	7980000.000	8056332.470	0.010	1.1	15.0
	9 gamma-Chlordane	9143000.000	9423411.528	0.010	3.1	15.0
	10 Endosulfan I	7983000.000	7877000.917	0.010	1.3	15.0
M	11 alpha-Chlordane	7983000.000	7877000.917	0.010	1.3	15.0
	12 4,4'-DDE	7699000.000	8102031.014	0.010	5.2	15.0
	13 Dieldrin	8900000.000	8145695.425	0.010	8.5	15.0
	14 Endrin	6750000.000	6812553.049	0.010	0.8	15.0
	15 Endosulfan II	7068000.000	7252092.748	0.010	2.6	15.0
	16 4,4'-DDD	6456000.000	6433081.140	0.010	0.4	15.0
	17 Endrin aldehyde	6285000.000	6241129.762	0.010	0.7	15.0
	18 Endosulfan sulfate	6299000.000	6325177.809	0.010	0.4	15.0
	19 4,4'-DDT	6436000.000	6364388.877	0.010	0.8	15.0
	20 Endrin ketone	7833000.000	7688952.022	0.010	1.8	15.0
	21 Methoxychlor	3501000.000	3286845.924	0.010	6.1	15.0
$	22 Decachlorobiphenyl	8989000.000	9232520.665	0.010	3.3	15.0

PCB CONTINUING CALIBRATION CHECK

Lab Name: OHM Analytical Division Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78IW001

Instrument ID: UF Calibration Date: 1/24/96 Time: _____

Lab File ID: SEE BELOW Initial Calib Date(s): 10/15/~~96~~95 10/16/~~96~~95

Initial Calib Times: 11:19 12:34

LAB FILE ID	DATE	TIME	COMPOUND	CF	CMED	% D	MAX % D
UF2186	1/24/96	0740	Aroclor-1016	1690000	1770000	4.81	15.0
UF2187	1/24/96	0824	Aroclor-1221	596000	656000	10.1	15.0
UF2188	1/24/96	0908	Aroclor-1232	966000	1060000	9.85	15.0
UF2189	1/24/96	0952	Aroclor-1242	1420000	1530000	8.18	15.0
=2190	1/24/96	1036	Aroclor-1248	1270000	1350000	7.07	15.
UF2187	1/24/96	0824	Aroclor-1254	1740000	1840000	5.52	15.0
UF2186	1/24/96	0740	Aroclor-1260	1340000	1370000	1.89	15.0

PCB CONTINUING CALIBRATION CHECK

Lab Name: OHM Analytical Division Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CCJ781W001

Instrument ID: UF Calibration Date: 1/24/96 Time: _____

Lab File ID: SEE BELOW Initial Calib Date(s): 10/5/96~~95~~ 10/16/96~~95~~

Initial Calib Times: 11:19 12:34

LAB FILE ID	DATE	TIME	COMPOUND	CF	CMED	% D	MAX % D
			Aroclor-1016				
			Aroclor-1221				
			Aroclor-1232				
			Aroclor-1242				
IF2196	1/24/96	1527	Aroclor-1248	1270000	1470000	16.0	15.0
			Aroclor-1254				
			Aroclor-1260				

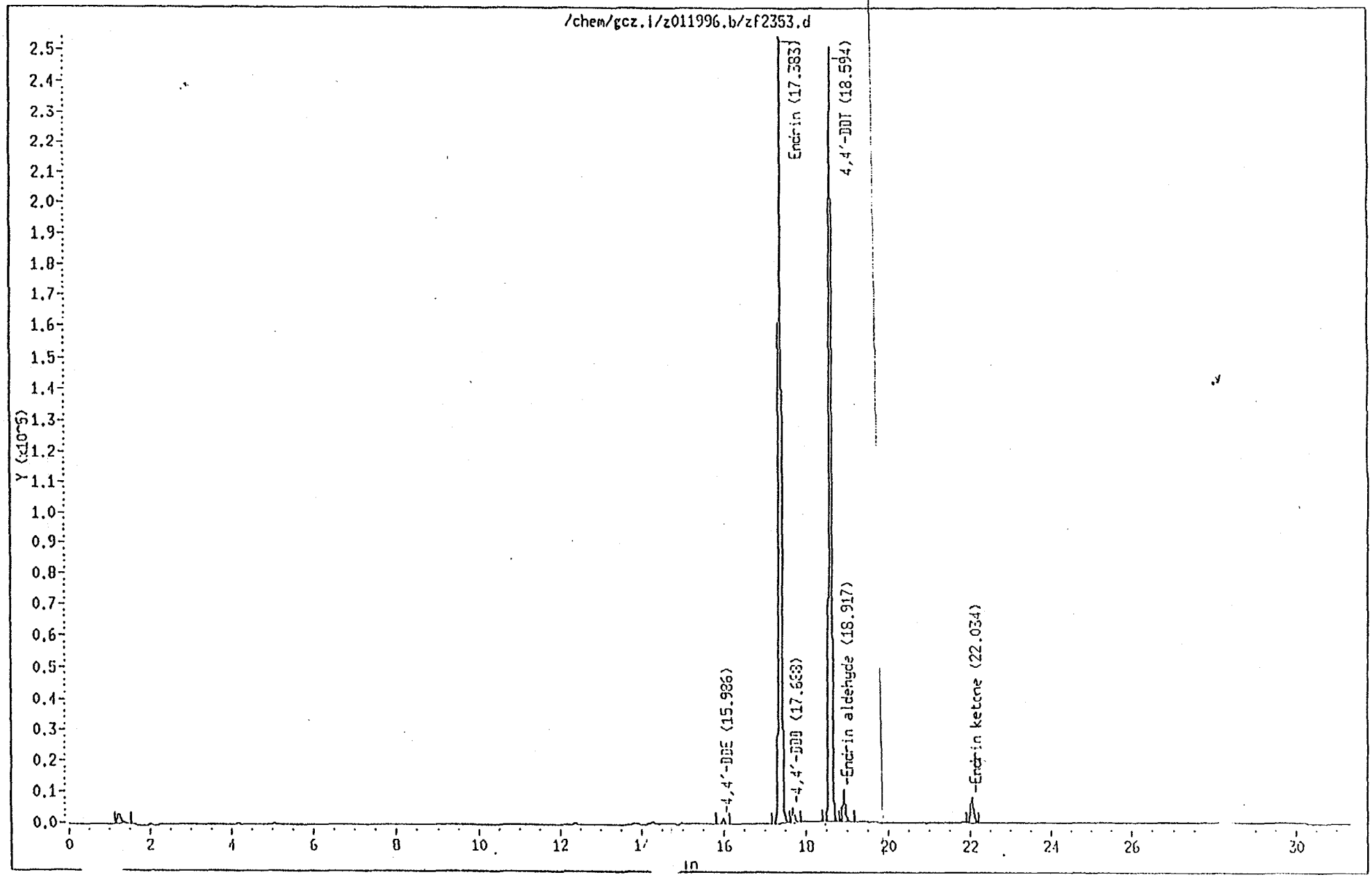
0182

Data File: /chem/gcz.i/z011996.b/zf2353.d
Date : 19-JAN-96 13:10
Client ID:
Sample Info: ga9591,end/ddt

Column phase: DB-608

Instrument: gcz.i

Operator: art
Column diameter: 0.53



Data File: /chem/gcz.i/z011996.b/zf2353.d
Report Date: 19-Jan-1996 14:59

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zf2353.d
Lab Smp Id:
Inj Date : 19-JAN-96 13:10
Operator : art Inst ID: gcz.i
Smp Info : ga9591,end/ddt
Misc Info : ga9591,end/ddt
Comment :
Method : /chem/gcz.i/z011996.b/011696_8080_608.m
Meth Date : 19-Jan-1996 14:28 Quant Type: ESTD
Cal Date : 15-JAN-96 16:07 Cal File: zf2245.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
12 4,4'-DDE	15.986	15.958	0.028	45332	0.00635	0.00635
14 Endrin	17.383	17.358	0.025	6238729	1.13	1.13
15 4,4'-DDD	17.688	17.659	0.029	109943	0.0203	0.0203
17 4,4'-DDT	18.594	18.571	0.023	5726440	1.38	1.38
18 Endrin aldehyde	18.917	18.892	0.025	242702	0.0473	0.0473
21 Endrin ketone	22.034	22.000	0.034	246000	0.0372	0.0372

DDT $\frac{155420}{571770} = 2.72$

Endr $\frac{498702}{672771} = 7.32$

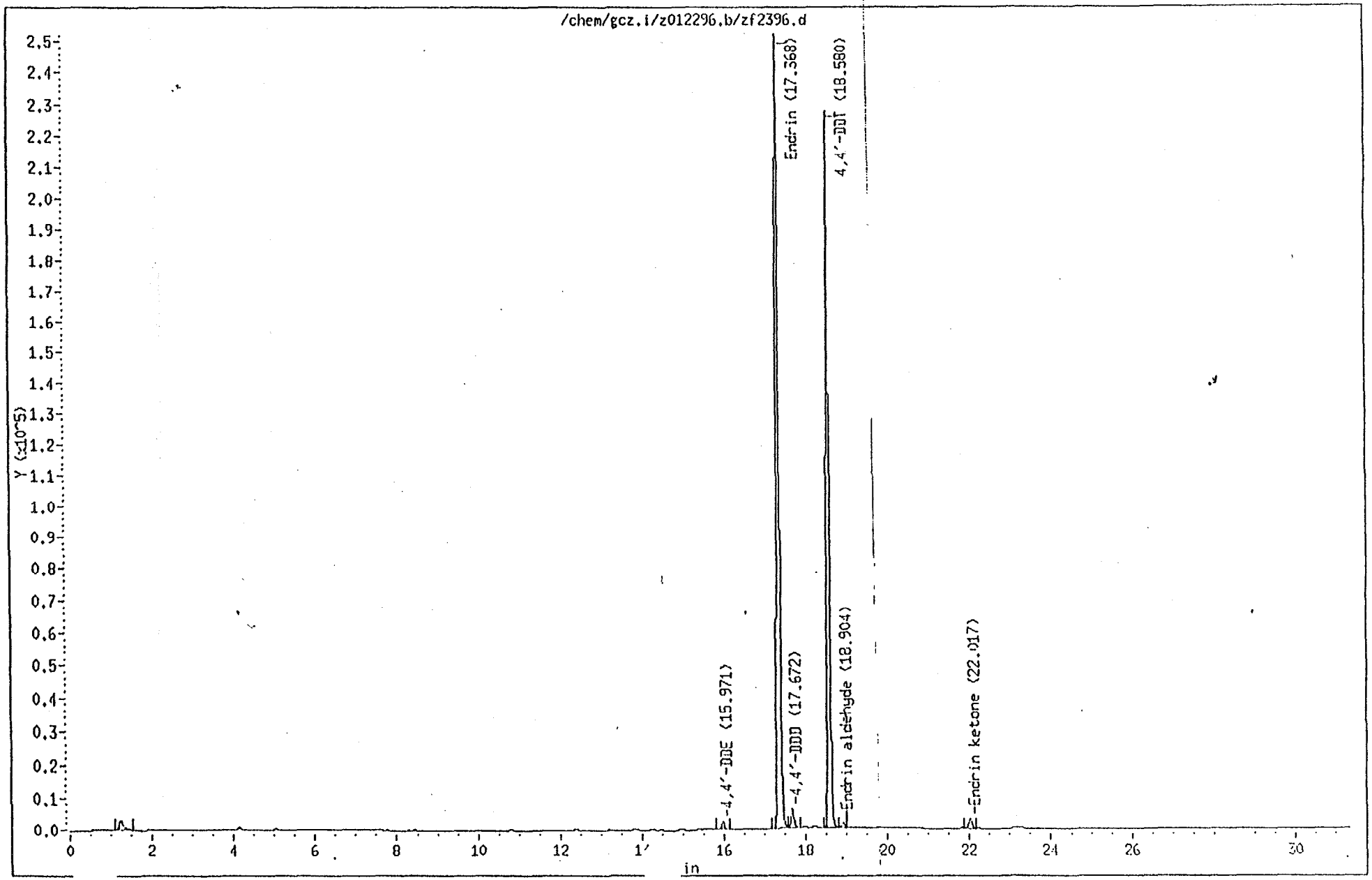
0184

Data File: /chem/gcz.i/z012296.b/zf2396.d
Date : 22-JAN-96 11:36
Client ID:
Sample Info: ga9591,end/ddt

Column phase: DB-608

Instrument: gcz.i

Operator: art
Column diameter: 0.53



Data File: /chem/gcz.i/z012296.b/zf2396.d
Report Date: 22-Jan-1996 13:00

OHM Analytical Division

Data file : /chem/gcz.i/z012296.b/zf2396.d
Lab Smp Id:
Inj Date : 22-JAN-96 11:36
Operator : art Inst ID: gcz.i
Smp Info : ga9591,end/ddt
Misc Info : ga9591,end/ddt
Comment :
Method : /chem/gcz.i/z012296.b/011996_8080_608.m
Meth Date : 22-Jan-1996 10:48 Quant Type: ESTD
Cal Date : 19-JAN-96 16:03 Cal File: zf2358.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
12 4,4'-DDE	15.971	15.974	-0.003	64203	0.00376	0.00376
14 Endrin	17.368	17.374	-0.006	6250972	1.01	1.01
15 4,4'-DDD	17.672	17.674	-0.002	149393	0.0254	0.0254
17 4,4'-DDT	18.580	18.587	-0.007	5212054	0.916	0.916
18 Endrin aldehyde	18.904	18.908	-0.004	33779	0.00507	0.00507
21 Endrin ketone	22.017	22.025	-0.008	93303	0.0129	0.0129

DDT $\frac{21360}{54256} = 3.93\%$

End $\frac{11701}{539054} = 1.99\%$

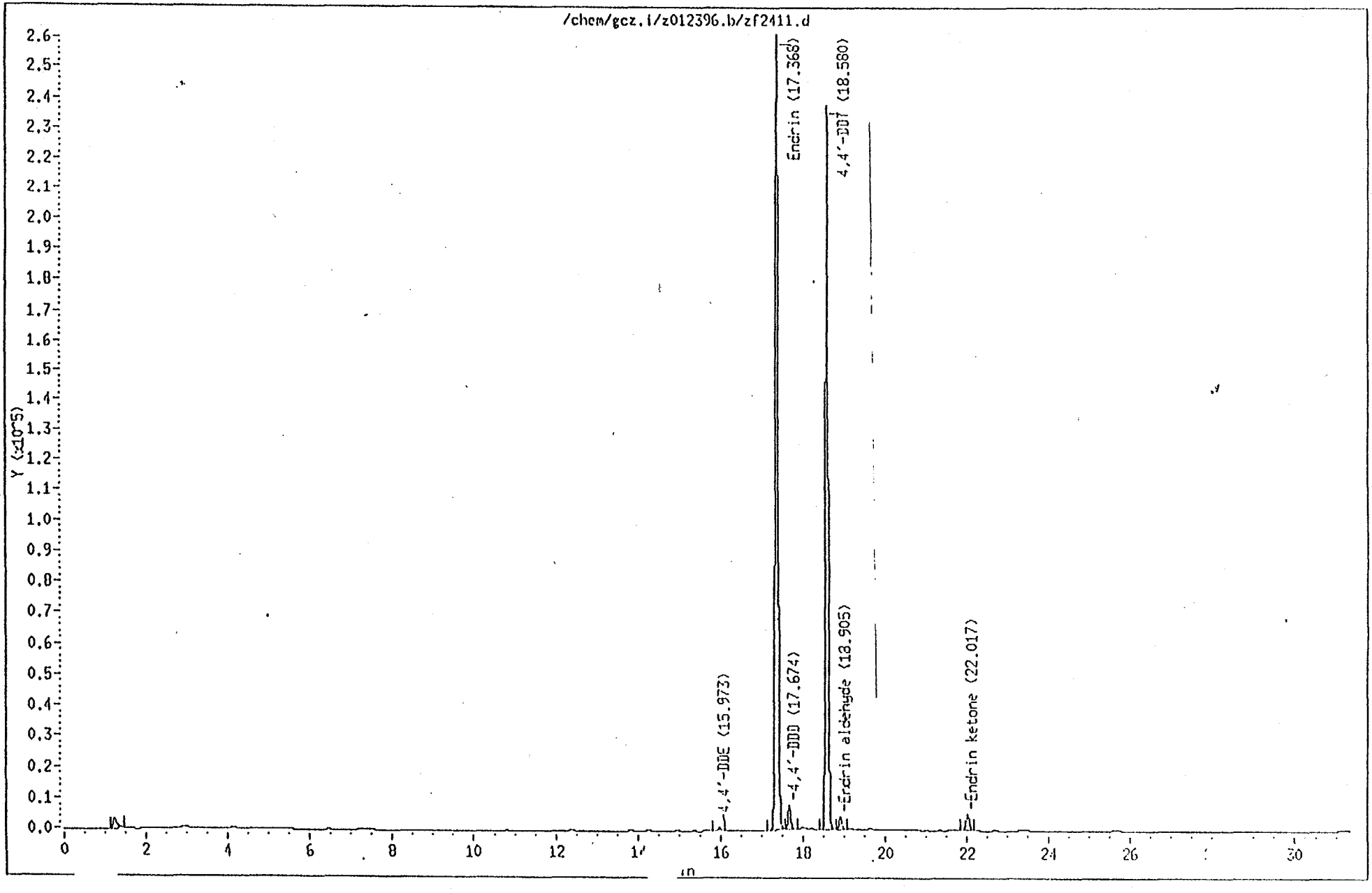
0186

Data File; /chem/gcz.i/z012396.b/zf2411.d
Date : 23-JAN-96 09;17
Client ID;
Sample Info; ga9591 end/ddt

Column phase; DB-608

Instrument; gcz.i

Operator; art
Column diameter; 0.53



Data File: /chem/gcz.i/z012396.b/zf2411.d
Report Date: 23-Jan-1996 10:32

OHM Analytical Division

Data file : /chem/gcz.i/z012396.b/zf2411.d
Lab Smp Id:
Inj Date : 23-JAN-96 09:17
Operator : art
Inst ID: gcz.i
Smp Info : ga9591 end/ddt
Misc Info : ga9591 end/ddt
Comment :
Method : /chem/gcz.i/z012396.b/011996_8080_608.m
Meth Date : 23-Jan-1996 10:30
Quant Type: ESTD
Cal Date : 19-JAN-96 16:03
Cal File: zf2358.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie
Compound Sublist: all.sub
Target Version: 3.10

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
12 4,4'-DDE	15.973	15.974	-0.001	35395	0.00490	0.00490
14 Endrin	17.363	17.374	-0.005	6377375	1.02	1.02
15 4,4'-DDD	17.574	17.574	0.000	185257	0.0327	0.0327
17 4,4'-DDT	18.530	18.537	-0.007	5379631	0.945	0.945
13 Endrin aldehyde	18.905	18.908	-0.003	97512	0.0175	0.0175
21 Endrin ketone	22.017	22.025	-0.003	163074	0.0225	0.0225

DDT $\frac{[illegible]}{5760793}$ = 3.92

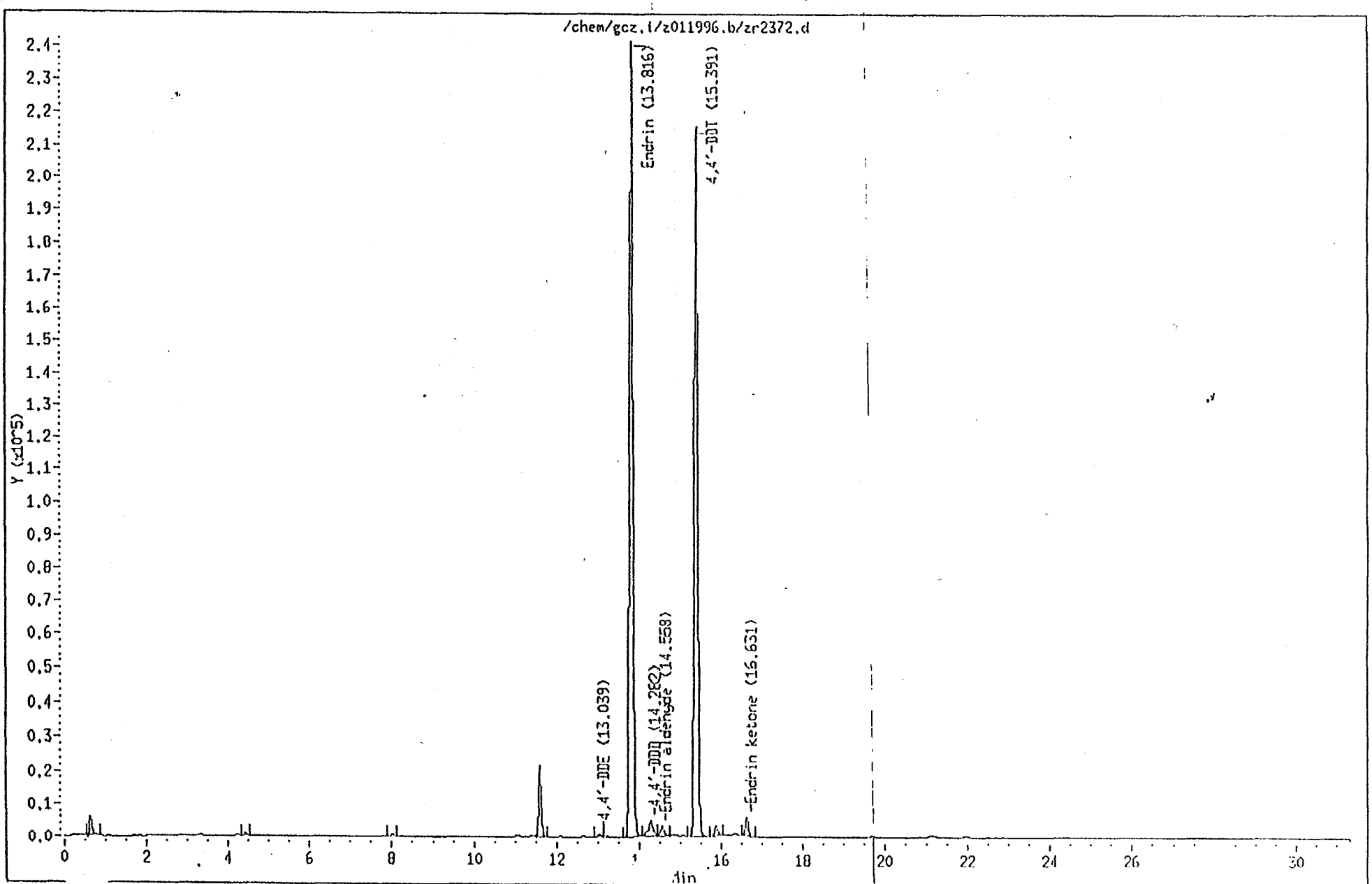
End $\frac{206576}{6637961}$ = 3.92

Data File: /chem/gcz.i/z011996.b/zr2372.d
Date : 19-JAN-96 13:44
Client ID:
Sample Info: ga9591,end/ddt

Column phase: DB-5

Instrument: gcz.i

Operator: art
Column diameter: 0.53



Data File: /chem/gcz.i/z011996.b/zr2372.d
Report Date: 19-Jan-1996 15:01

OHM Analytical Division

Data file : /chem/gcz.i/z011996.b/zr2372.d
Lab Smp Id:
Inj Date : 19-JAN-96 13:44
Operator : art Inst ID: gcz.i
Smp Info : ga9591,end/ddt
Misc Info : ga9591,end/ddt
Comment :
Method : /chem/gcz.i/z011996.b/011696_8080_db5.m
Meth Date : 19-Jan-1996 14:28 Quant Type: ESTD
Cal Date : 15-JAN-96 16:41 Cal File: zr2261.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
	1 2,4,5,6-Tetrachloro-m-xylene	Compound Not Detected.					
	2 Alpha-BHC	Compound Not Detected.					
	3 Beta-BHC	Compound Not Detected.					
	4 Gamma-BHC (Lindane)	Compound Not Detected.					
	5 Delta-BHC	Compound Not Detected.					
	6 Heptachlor	Compound Not Detected.					
	7 Aldrin	Compound Not Detected.					
	8 Heptachlor epoxide	Compound Not Detected.					
	9 gamma-Chlordane	Compound Not Detected.					
	10 Endosulfan I	Compound Not Detected.					
M	11 alpha-Chlordane	Compound Not Detected.					
	12 4,4'-DDE	13.039	13.041	-0.002	24623	0.00302	0.00302
	13 Dieldrin	Compound Not Detected.					
	14 Endrin	13.816	13.812	0.004	6353586	1.12	1.12
	15 Endosulfan II	Compound Not Detected.					
	16 4,4'-DDD	14.282	14.273	0.009	205102	0.0343	0.0343
	17 Endrin aldehyde	14.558	14.553	0.005	91871	0.0156	0.0156
	18 Endosulfan sulfate	Compound Not Detected.					
	19 4,4'-DDT	15.391	15.383	0.008	6204798	1.13	1.13
	20 Endrin ketone	15.631	15.626	0.005	158644	0.0213	0.0213
	21 Methoxychlor	Compound Not Detected.					
S	22 Decachlorobiphenyl	Compound Not Detected.					

DDT $\frac{270730}{6935722} = 3.62$

End $\frac{250515}{7104101} = 3.62$

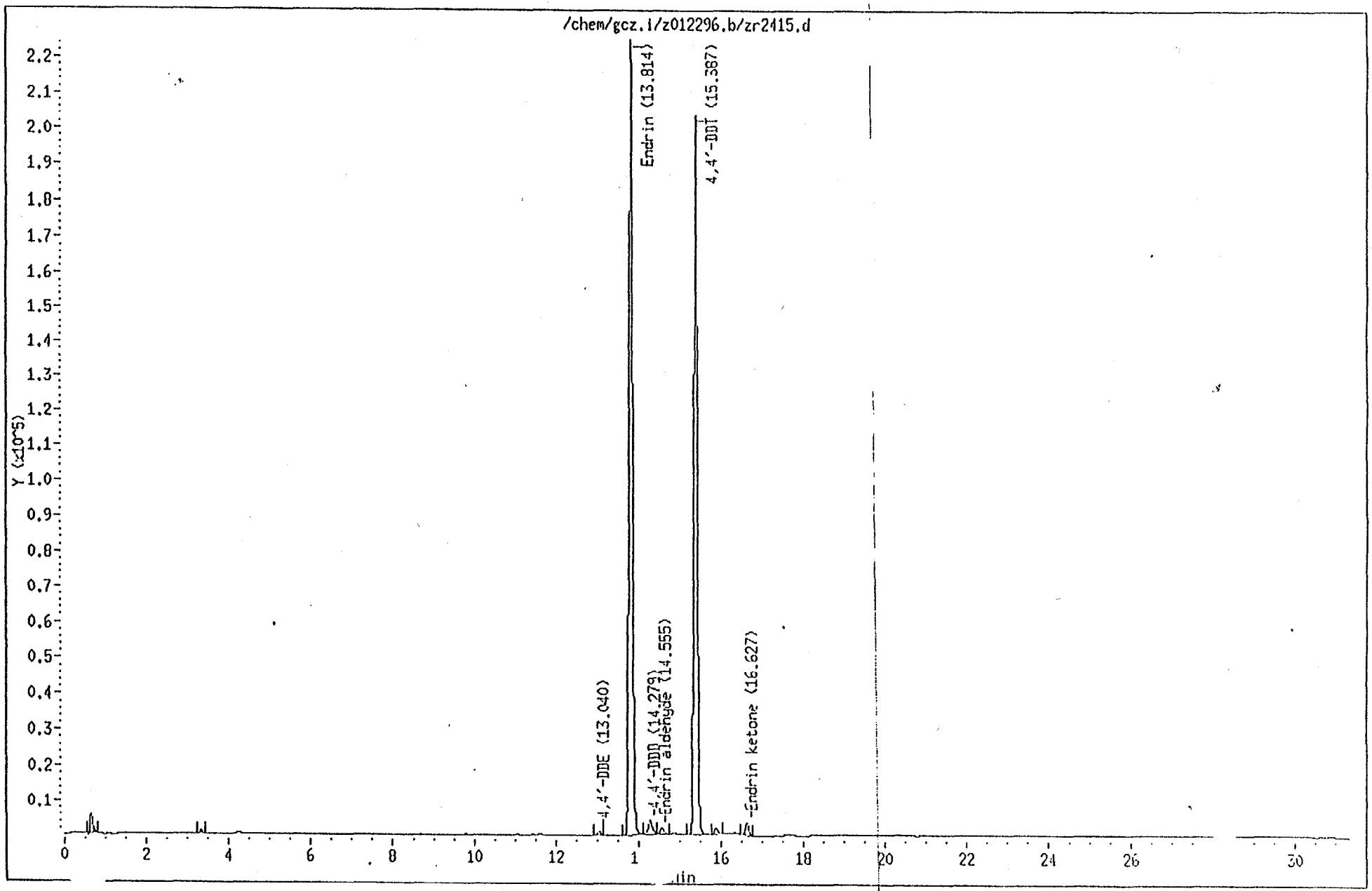
0190

Data File: /chem/gcz.i/z012296.b/zr2415.d
Date : 22-JAN-96 11:36
Client ID:
Sample Info: ga9591 end/ddt

Column phase: DB-5

Instrument: gcz.i

Operator: art
Column diameter: 0.53



Data File: /chem/gcz.i/z012296.b/zr2415.d
Report Date: 22-Jan-1996 13:10

OHM Analytical Division

Data file : /chem/gcz.i/z012296.b/zr2415.d
Lab Smp Id:
Inj Date : 22-JAN-96 11:36
Operator : art Inst ID: gcz.i
Smp Info : ga9591 end/ddt
Misc Info : ga9591 end/ddt
Comment :
Method : /chem/gcz.i/z012296.b/011996_8080_db5.m
Meth Date : 22-Jan-1996 10:57 Quant Type: ESTD
Cal Date : 19-JAN-96 16:38 Cal File: zr2377.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
S	1 2,4,5,6-Tetrachloro-m-xylene	Compound Not Detected.					
	2 Alpha-BHC	Compound Not Detected.					
	3 Beta-BHC	Compound Not Detected.					
	4 Gamma-BHC (Lindane)	Compound Not Detected.					
	5 Delta-BHC	Compound Not Detected.					
	6 Heptachlor	Compound Not Detected.					
	7 Aldrin	Compound Not Detected.					
	8 Heptachlor epoxide	Compound Not Detected.					
	9 gamma-Chlordane	Compound Not Detected.					
	10 Endosulfan I	Compound Not Detected.					
M	11 alpha-Chlordane	Compound Not Detected.					
	12 4,4'-DDE	13.040	13.045	-0.005	28176	0.00366	0.00366
	13 Dieldrin	Compound Not Detected.					
	14 Endrin	13.814	13.815	-0.001	6457790	0.955	0.955
	15 Endosulfan II	Compound Not Detected.					
	16 4,4'-DDD	14.279	14.278	0.001	160018	0.0248	0.0248
	17 Endrin aldehyde	14.555	14.558	-0.003	60693	0.00966	0.00966
	18 Endosulfan sulfate	Compound Not Detected.					
	19 4,4'-DDT	15.387	15.389	-0.002	5780196	0.898	0.898
	20 Endrin ketone	16.627	16.632	-0.005	90812	0.0116	0.0116
	21 Methoxychlor	Compound Not Detected.					
S	22 Decachlorobiphenyl	Compound Not Detected.					

DDT $\frac{1771994}{596790} = 3.02$

End $\frac{151505}{66929} = 2.32$

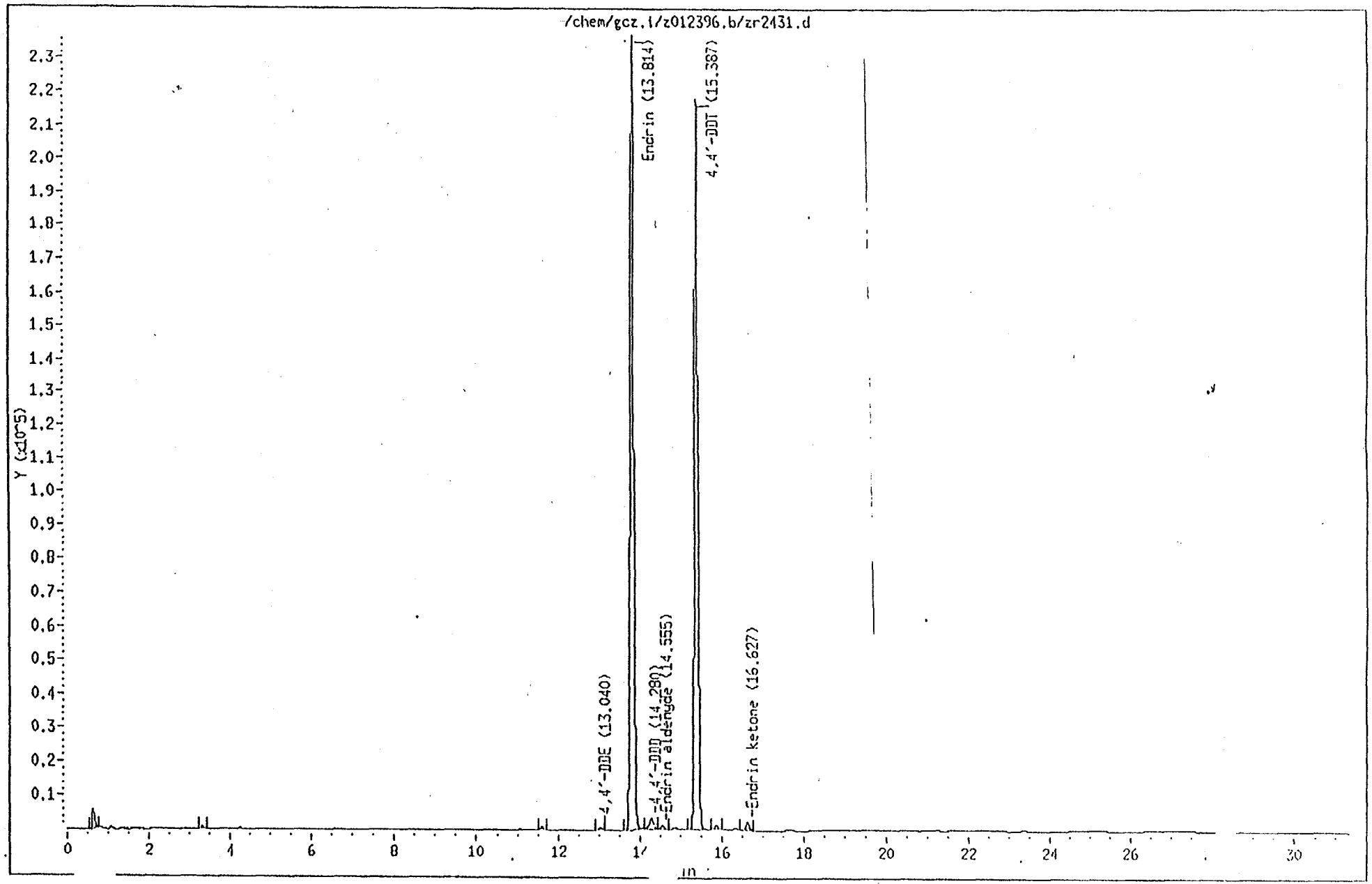
0192

Data File: /chem/gcz.i/z012396.b/zr2431.d
Date : 23-JAN-96 09;17
Client ID:
Sample Info: ga9591 end/ddt

Instrument: gcz.i

Operator: art
Column diameter: 0.53

Column phase: DB-5



Data File: /chem/gcz.i/z012396.b/zr2431.d
Report Date: 23-Jan-1996 10:32

OHM Analytical Division

Data file : /chem/gcz.i/z012396.b/zr2431.d
Lab Smp Id:
Inj Date : 23-JAN-96 09:17
Operator : art
Inst ID: gcz.i
Smp Info : ga9591 end/ddt
Misc Info : ga9591 end/ddt
Comment :
Method : /chem/gcz.i/z012396.b/011996_8080_db5.m
Meth Date : 23-Jan-1996 10:30
Quant Type: ESTD
Cal Date : 19-JAN-96 16:38
Cal File: zr2377.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie
Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
S	1 2,4,5,6-Tetrachloro-m-xylene	Compound Not Detected.					
	2 Alpha-BHC	Compound Not Detected.					
	3 Beta-BHC	Compound Not Detected.					
	4 Gamma-BHC (Lindane)	Compound Not Detected.					
	5 Delta-BHC	Compound Not Detected.					
	6 Heptachlor	Compound Not Detected.					
	7 Aldrin	Compound Not Detected.					
	8 Heptachlor epoxide	Compound Not Detected.					
	9 gamma-Chlordane	Compound Not Detected.					
	10 Endosulfan I	Compound Not Detected.					
M	11 alpha-Chlordane	Compound Not Detected.					
	12 4,4'-DDE	13.040	13.045	-0.005	20502	0.00255	0.00255
	13 Dieldrin	Compound Not Detected.					
	14 Endrin	13.314	13.315	-0.001	6796324	1.00	1.00
	15 Endosulfan II	Compound Not Detected.					
	16 4,4'-DDD	14.280	14.278	0.002	137579	0.0213	0.0213
	17 Endrin aldehyde	14.555	14.558	-0.003	34444	0.00543	0.00543
	18 Endosulfan sulfate	Compound Not Detected.					
	19 4,4'-DDT	15.387	15.389	-0.002	6191309	0.952	0.952
	20 Endrin ketone	16.527	16.532	-0.005	56134	0.00344	0.00344
	21 Methoxychlor	Compound Not Detected.					
S	22 Decachlorobiphenyl	Compound Not Detected.					

DDT 157176 / 6349490 = 2.5%

End 100578 / 6791902 = 1.2

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET 0194 EPA SAMPLE NO.

PBLK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: N1P60124P

Sample wt/vol: 1000 (g/mL) ML Lab File ID: ZF2398

% Moisture: N/A decanted: (Y/N) N Date Received: 1/19/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/22/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.010	U
319-85-7	beta-BHC	.010	U
319-86-8	delta-BHC	.010	U
76-44-8	Heptachlor	.010	U
309-00-2	Aldrin	.010	U
1024-57-3	Heptachlor epoxide	.010	U
959-98-8	Endosulfan I	.010	U
60-57-1	Dieldrin	.010	U
72-55-9	4,4'-DDE	.010	U
72-20-8	Endrin	.010	U
33213-65-9	Endosulfan II	.010	U
72-54-8	4,4'-DDD	.010	U
1031-07-8	Endosulfan sulfate	.010	U
50-29-3	4,4'-DDT	.010	U
72-43-5	Methoxychlor	.010	U
53494-70-5	Endrin ketone	.010	U
7421-93-4	Endrin aldehyde	.010	U
8001-35-2	Toxaphene	.20	U
12674-11-2	Aroclor-1016	.10	U
11104-28-2	Aroclor-1221	.10	U
11141-16-5	Aroclor-1232	.10	U
53469-21-9	Aroclor-1242	.10	U
12672-29-6	Aroclor-1248	.10	U
11097-69-1	Aroclor-1254	.10	U
11096-82-5	Aroclor-1260	.10	U
58-89-9	Gamma-BHC (Lindane)	.010	U
57-74-9	Chlordane	.10	U

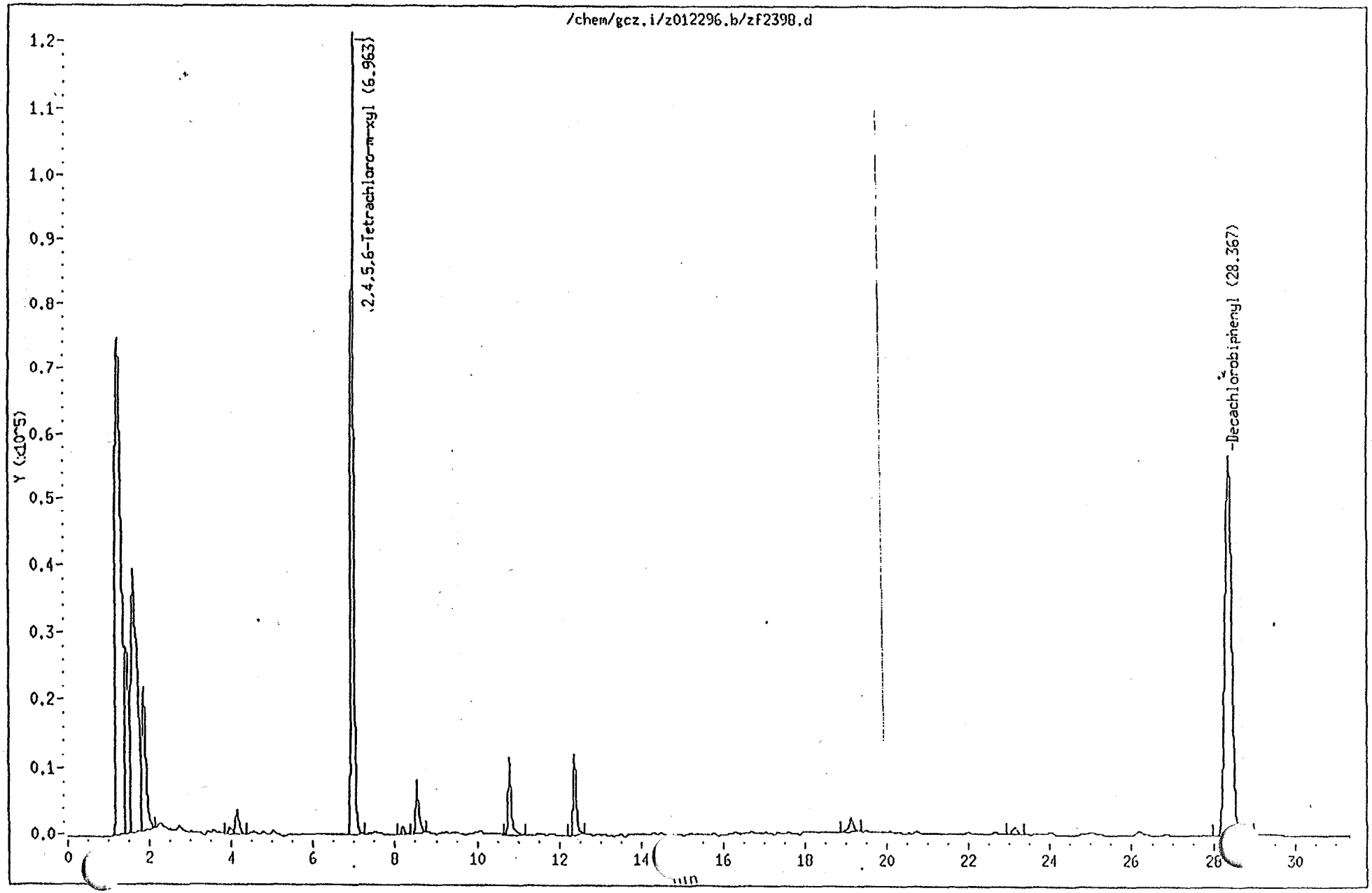
0195

Data File: /chem/gcz.i/z012296.b/zf2398.d
Date : 22-JAN-96 14:27
Client ID:
Sample Info: n1p60124p,n1p601

Column phase: DB-608

Instrument: gcz.i

Operator: art
Column diameter: 0.53



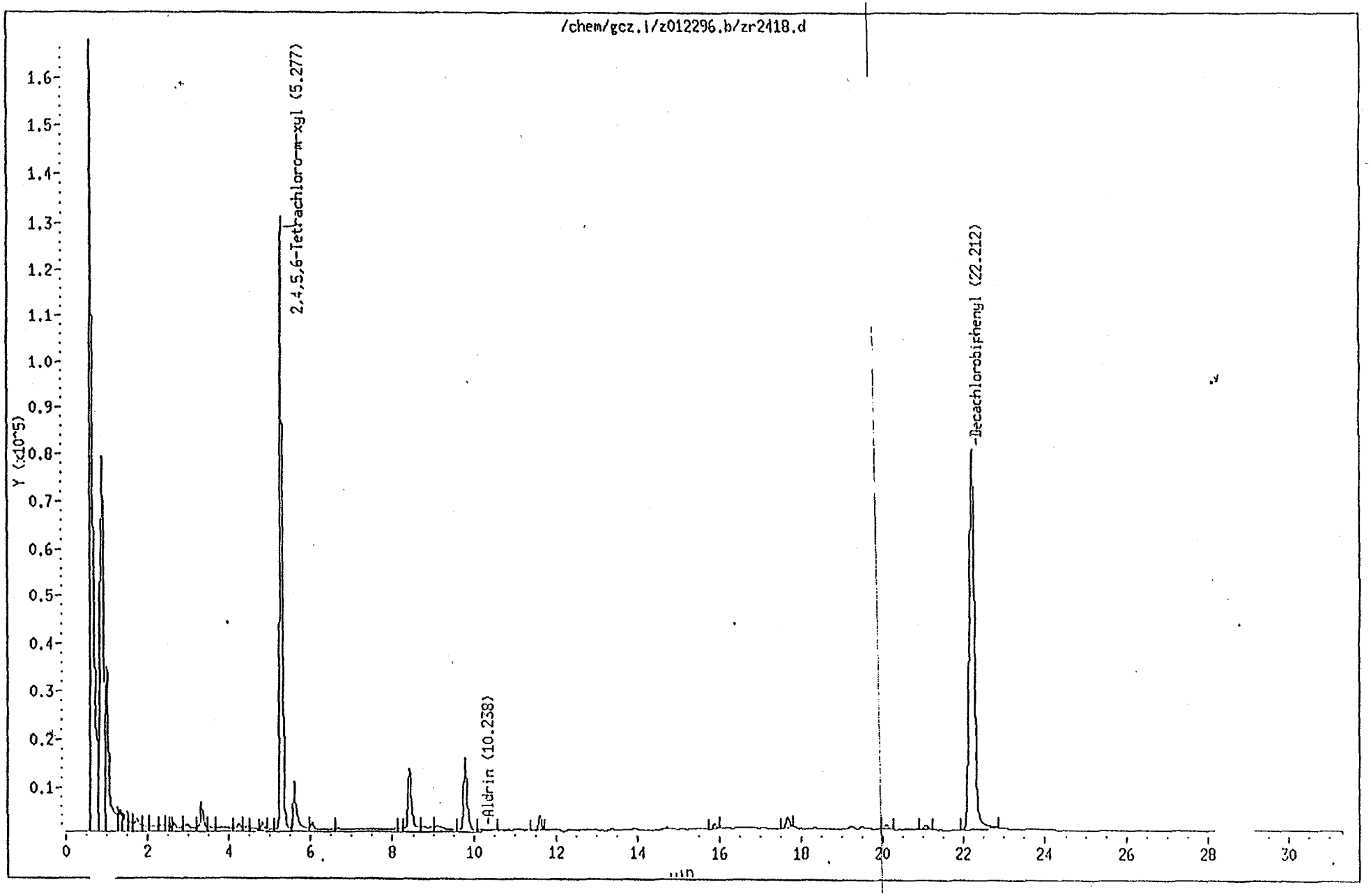
0196

Data File: /chem/gcz.i/z012296.b/zr2418.d
Date : 22-JAN-96 15:01
Client ID:
Sample Info: n1p60124p,n1p601

Column phase: DB-5

Instrument: gcz.i

Operator: art
Column diameter: 0.53



Data File: /chem/gcz.i/z012296.b/zf2398.d
Report Date: 23-Jan-1996 07:28

OHM Analytical Division

Data file : /chem/gcz.i/z012296.b/zf2398.d
Lab Smp Id:
Inj Date : 22-JAN-96 14:27
Operator : art Inst ID: gcz.i
Smp Info : n1p60124p,n1p601
Misc Info : n1p60124p,n1p60124,g2,1,1
Comment :
Method : /chem/gcz.i/z012296.b/011996_8080_608.m
Meth Date : 23-Jan-1996 06:48 Quant Type: ESTD
Cal Date : 19-JAN-96 16:03 Cal File: zf2358.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/ml)	(ug/ml)
S 4 2,4,5,6-Tetrachloro-m-xylene	6.963	6.967	-0.004	2811032	0.390	0.390(R)
S 22 Decachlorobiphenyl	28.367	28.397	-0.030	3309107	0.412	0.412(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcz.i/z012296.b/zr2418.d
Report Date: 23-Jan-1996 07:33

OHM Analytical Division

Data file : /chem/gcz.i/z012296.b/zr2418.d
Lab Smp Id:
Inj Date : 22-JAN-96 15:01
Operator : art Inst ID: gcz.i
Smp Info : n1p60124p,n1p601
Misc Info : n1p60124p,n1p601
Comment :
Method : /chem/gcz.i/z012296.b/011996_8080_db5.m
Meth Date : 23-Jan-1996 07:20 Quant Type: ESTD
Cal Date : 19-JAN-96 16:38 Cal File: zr2377.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
S	1 2,4,5,6-Tetrachloro-m-xylene	5.277	5.279	-0.002	2958453	0.399	0.399(R)
	2 Alpha-BHC	Compound Not Detected.					
	3 Beta-BHC	Compound Not Detected.					
	4 Gamma-BHC (Lindane)	Compound Not Detected.					
	5 Delta-BHC	Compound Not Detected.					
	6 Heptachlor	Compound Not Detected.					
	7 Aldrin	10.238	10.220	0.018	65293	0.00759	0.00759
	8 Heptachlor epoxide	Compound Not Detected.					
	9 gamma-Chlordane	Compound Not Detected.					
	10 Endosulfan I	Compound Not Detected.					
M	11 alpha-Chlordane	Compound Not Detected.					
	12 4,4'-DDE	Compound Not Detected.					
	13 Dieldrin	Compound Not Detected.					
	14 Endrin	Compound Not Detected.					
	15 Endosulfan II	Compound Not Detected.					
	16 4,4'-DDD	Compound Not Detected.					
	17 Endrin aldehyde	Compound Not Detected.					
	18 Endosulfan sulfate	Compound Not Detected.					
	19 4,4'-DDT	Compound Not Detected.					
	20 Endrin ketone	Compound Not Detected.					
	21 Methoxychlor	Compound Not Detected.					
S	22 Decachlorobiphenyl	22.212	22.219	-0.007	3637982	0.405	0.405(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PSPK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: N1P60124PS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: ZF2399

% Moisture: N/A decanted: (Y/N) N Date Received: 1/19/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/22/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.87	
319-85-7	beta-BHC	.91	
319-86-8	delta-BHC	.85	
76-44-8	Heptachlor	.79	
309-00-2	Aldrin	.82	
1024-57-3	Heptachlor epoxide	.91	
959-98-8	Endosulfan I	.91	
60-57-1	Dieldrin	.95	
72-55-9	4,4'-DDE	.99	
72-20-8	Endrin	.97	
33213-65-9	Endosulfan II	.93	
72-54-8	4,4'-DDD	.97	
1031-07-8	Endosulfan sulfate	.93	
50-29-3	4,4'-DDT	.95	
72-43-5	Methoxychlor	.84	
53494-70-5	Endrin ketone	.95	
7421-93-4	Endrin aldehyde	.84	
8001-35-2	Toxaphene	.20	U
12674-11-2	Aroclor-1016	.10	U
11104-28-2	Aroclor-1221	.10	U
11141-16-5	Aroclor-1232	.10	U
53469-21-9	Aroclor-1242	.10	U
12672-29-6	Aroclor-1248	.10	U
11097-69-1	Aroclor-1254	.10	U
11096-82-5	Aroclor-1260	.10	U
58-89-9	Gamma-BHC (Lindane)	.95	
57-74-9	Chlordane	1.8	

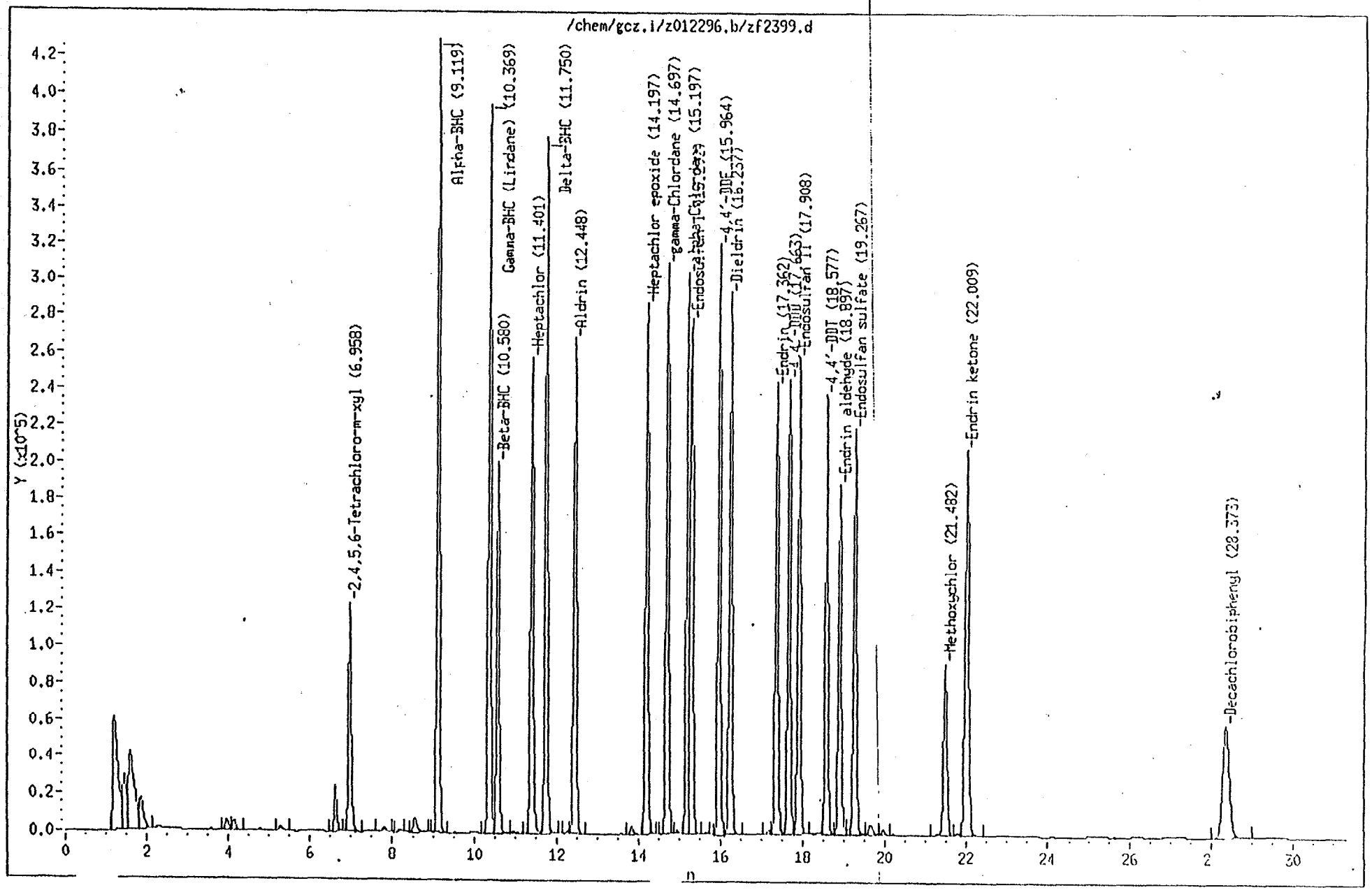
0200

Data File: /chem/gcz.i/z012296.b/zf2399.d
Date : 22-JAN-96 15:01
Client ID:
Sample Info: n1p60124ps,n1p60

Column phase: DB-608

Instrument: gcz.i

Operator: art
Column diameter: 0.53



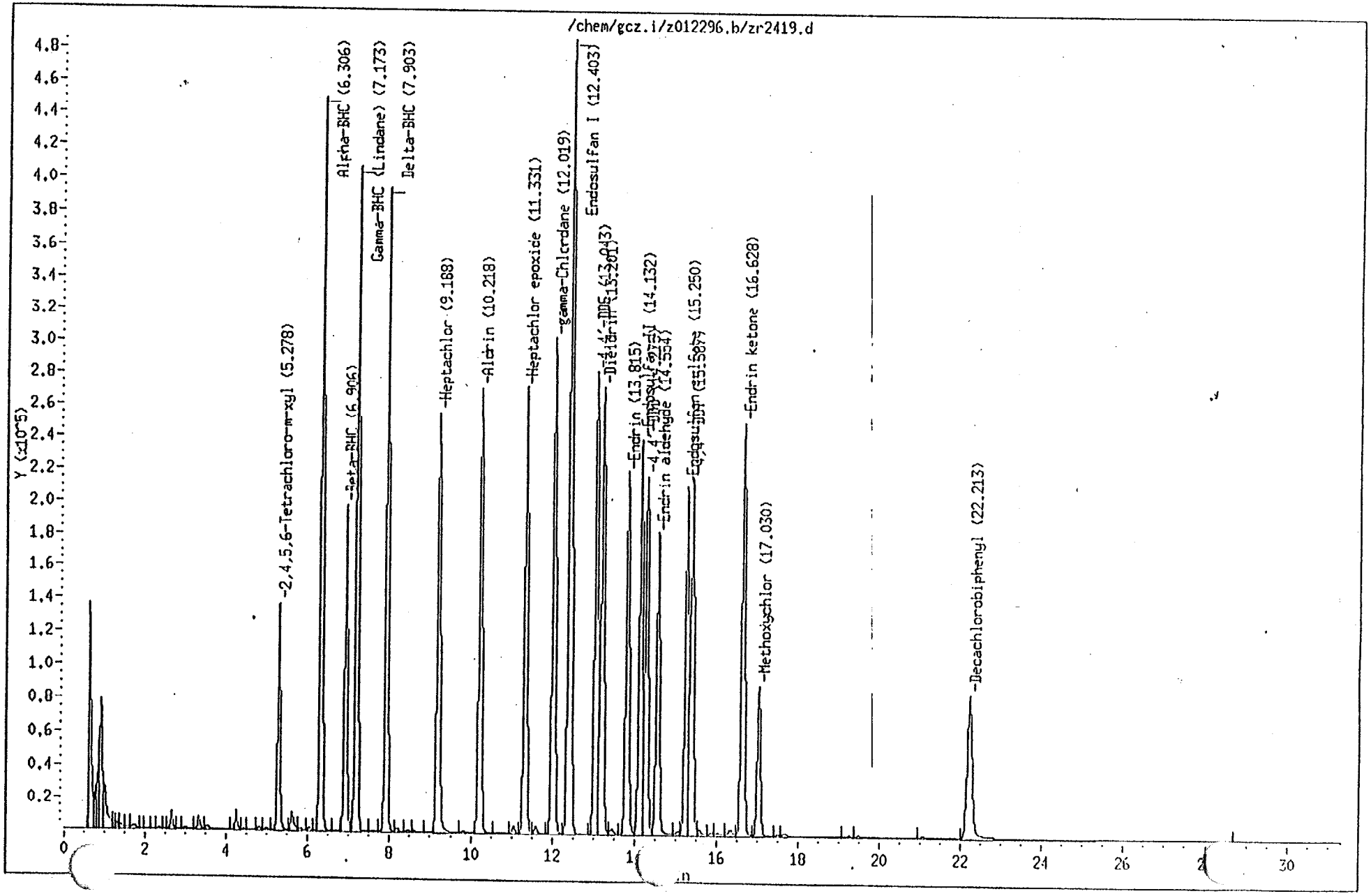
0201

Data File; /chem/gcz.i/z012296.b/zr2419.d
Date ; 22-JAN-96 15;36
Client ID;
Sample Info; n1p60124ps,n1p60

Column phase; DB-5

Instrument; gcz.i

Operator; art
Column diameter; 0.53



Data File: /chem/gcz.i/z012296.b/zf2399.d
Report Date: 23-Jan-1996 07:28

OHM Analytical Division

Data file : /chem/gcz.i/z012296.b/zf2399.d
Lab Smp Id:
Inj Date : 22-JAN-96 15:01
Operator : art Inst ID: gcz.i
Smp Info : n1p60124ps,n1p60
Misc Info : n1p60124ps,n1p60124,g2,1,1
Comment :
Method : /chem/gcz.i/z012296.b/011996_8080_608.m
Meth Date : 23-Jan-1996 06:48 Quant Type: ESTD
Cal Date : 19-JAN-96 16:03 Cal File: zf2358.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
1	2,4,5,6-Tetrachloro-m-xylene	6.958	6.967	-0.009	2390870	0.401	0.401(R)
2	Alpha-BHC	9.119	9.130	-0.011	9546835	0.872	0.872
3	Gamma-BHC (Lindane)	10.369	10.380	-0.011	8372760	0.947	0.947
4	Beta-BHC	10.580	10.591	-0.011	4440780	0.906	0.906
5	Heptachlor	11.401	11.413	-0.012	6499978	0.785	0.785
6	Delta-BHC	11.750	11.762	-0.012	8038335	0.851	0.851
7	Aldrin	12.448	12.461	-0.013	6825697	0.820	0.820
8	Heptachlor epoxide	14.197	14.209	-0.012	7049470	0.914	0.914
9	gamma-Chlordane	14.697	14.710	-0.013	7678074	0.907	0.907
10	alpha-Chlordane	15.197	15.207	-0.010	7261195	0.926	0.926
11	Endosulfan I	15.292	15.304	-0.012	6944649	0.905	0.905
12	4,4'-DDE	15.964	15.974	-0.010	7257233	0.990	0.990
13	Dieldrin	16.237	16.249	-0.012	7168094	0.950	0.950
14	Endrin	17.362	17.374	-0.012	6039510	0.971	0.971
15	4,4'-DDD	17.663	17.674	-0.011	5513452	0.974	0.974
16	Endosulfan II	17.908	17.918	-0.010	6294430	0.933	0.933
17	4,4'-DDT	18.577	18.587	-0.010	5412055	0.951	0.951
18	Endrin aldehyde	18.897	18.908	-0.011	4654909	0.837	0.837
19	Endosulfan sulfate	19.267	19.278	-0.011	5304690	0.925	0.925
20	Methoxychlor	21.482	21.496	-0.014	2821427	0.837	0.837
21	Endrin ketone	22.009	22.025	-0.016	6896039	0.953	0.953
S 22	Decachlorobiphenyl	23.373	23.397	-0.024	3482005	0.433	0.433(R)
M 23	Chlordane				14939270	1.83	1.83

qc 1/23/96

Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcz.i/z012296.b/zr2419.d
Report Date: 23-Jan-1996 07:33

OHM Analytical Division

Data file : /chem/gcz.i/z012296.b/zr2419.d
Lab Smp Id:
Inj Date : 22-JAN-96 15:36
Operator : art Inst ID: gcz.i
Smp Info : n1p60124ps,n1p60
Misc Info : n1p60124ps,n1p60
Comment :
Method : /chem/gcz.i/z012296.b/011996_8080_db5.m
Meth Date : 23-Jan-1996 07:20 Quant Type: ESTD
Cal Date : 19-JAN-96 16:38 Cal File: zr2377.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.10

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/ml)
1	2,4,5,6-Tetrachloro-m-xylene	5.278	5.279	-0.001	3113861	0.420	0.420(R)
2	Alpha-BHC	6.306	6.307	-0.001	10291462	0.989	0.989
3	Beta-BHC	6.906	6.908	-0.002	4728788	0.926	0.926
4	Gamma-BHC (Lindane)	7.173	7.174	-0.001	9599317	0.984	0.984
5	Delta-BHC	7.903	7.904	-0.001	9216989	0.924	0.924
6	Heptachlor	9.188	9.190	-0.002	6930907	0.803	0.803
7	Aldrin	10.218	10.220	-0.002	7325219	0.851	0.851
8	Heptachlor epoxide	11.331	11.334	-0.003	7518910	0.942	0.942
9	gamma-Chlordane	12.019	12.021	-0.002	8631828	0.944	0.944
10	Endosulfan I	12.403	12.406	-0.003	14479227	1.81	1.81
M 11	alpha-Chlordane				14479227	1.81	1.81
12	4,4'-DDE	13.043	13.045	-0.002	7955330	1.03	1.03
13	Dieldrin	13.201	13.205	-0.004	7775450	0.874	0.874
14	Endrin	13.815	13.815	0.000	6414624	0.949	0.949
15	Endosulfan II	14.132	14.135	-0.003	5772006	0.958	0.958
16	4,4'-DDD	14.275	14.278	-0.003	6293590	0.975	0.975
17	Endrin aldehyde	14.554	14.558	-0.004	5575521	0.887	0.887
18	Endosulfan sulfate	15.250	15.252	-0.002	5943587	0.944	0.944
19	4,4'-DDT	15.387	15.389	-0.002	6421067	0.998	0.998
20	Endrin ketone	16.628	16.632	-0.004	7428223	0.948	0.948
21	Methoxychlor	17.030	17.035	-0.005	2801417	0.800	0.800
S 22	Decachlorobiphenyl	22.213	22.219	-0.006	4660533	0.518	0.518(R)

Flag Legend

R - Spike/Surrogate failed recovery limits.

ORGANICS

Total Petroleum Hydrocarbons by IR

3D (IR)
WATER SEMIVOLATILE BLANK SPIKE RECOVERY

0205

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix Spike - EPA Sample No.: TSPK01

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
Petroleum Hydrocarbons (	2100	0	1700	82	30-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

COMMENTS: _____

4B (GC)
SEMIVOLATILE METHOD BLANK SUMMARY

0206 EPA SAMPLE NO.

TBLK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Lab File ID: IR8155 Lab Sample ID: N1T60127T

Instrument ID: PK Date Extracted: 01/19/96

Matrix: (soil/water) WATER Date Analyzed: 01/19/96

Level: (low/med) _____ Time Analyzed: 14:45

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	CLJ78RB001	JP2497T	IR8165	01/19/96
02	CLJ78FB001	JP2542T	IR8163	01/19/96
03	TSPK01	N1T60127TS	IR8156	01/19/96

COMMENTS:

1B (GC)
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0207 EPA SAMPLE NO.

CLJ78FB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: JP2542T

Sample wt/vol: 610 (g/mL) ML Lab File ID: IR8163

Level: (low/med) Low Date Received: 01/19/96

% Moisture: N/A decanted: (Y/N) N Date Extracted: 01/19/96

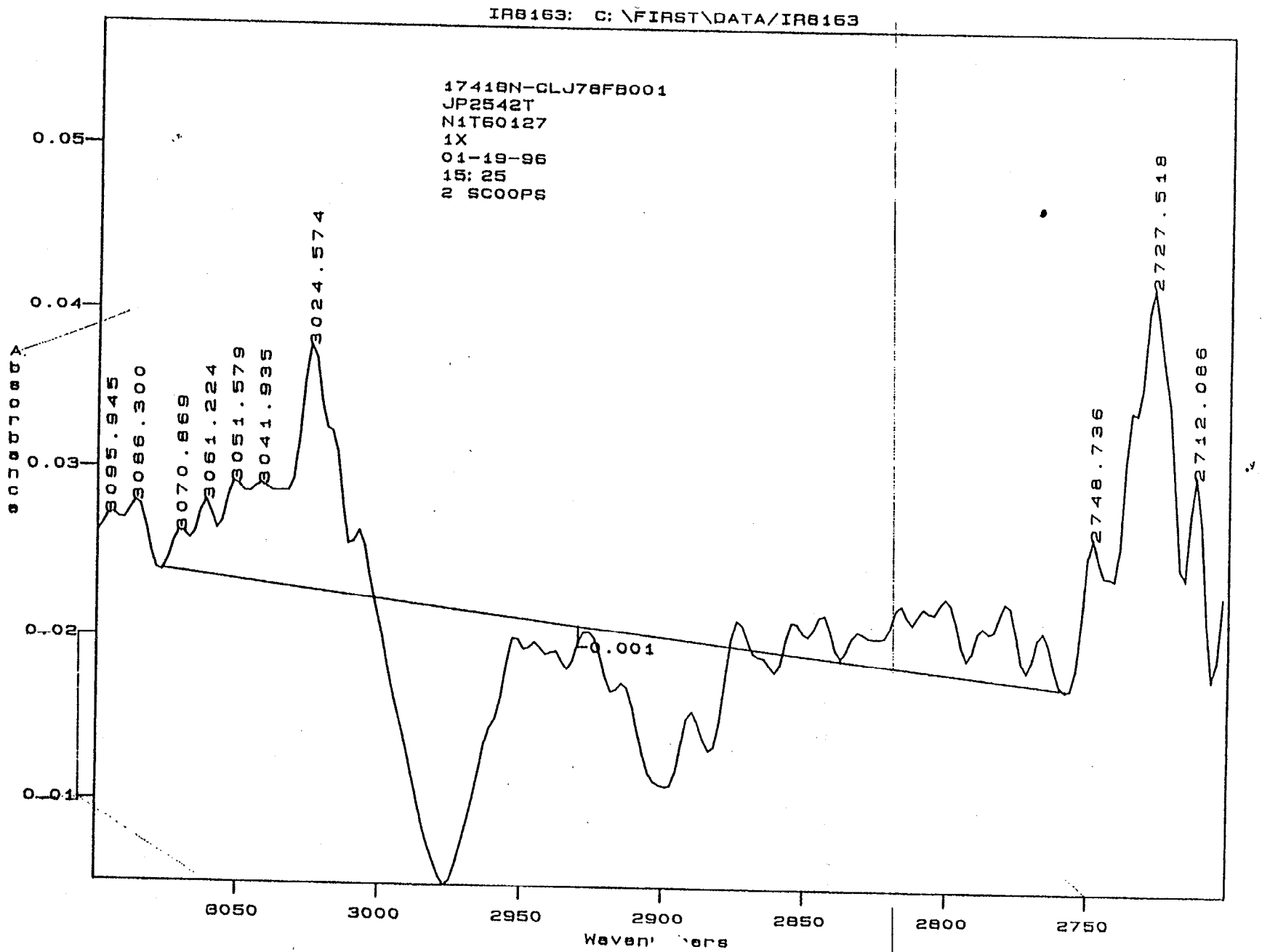
Concentrated Extract Volume: 100000 (uL) Date Analyzed: 01/19/96

Injection Volume: _____ (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
	Petroleum Hydrocarbons (IR)	160	U

0208


IR8163: C:\FIRST\DATA/IR8163
17418N-CLJ78F8001
JP2542T
N1T60127
1X
01-19-96
15:25
2 SCOOPS
0.05
0.04
0.03
0.02
0.01
3095.945
3086.300
3070.869
3061.224
3051.579
3041.935
3024.574
2748.736
2727.518
2712.086
-0.001
3050
3000
2950
2900
2850
2800
2750

Initial Calibration Data

Curve ID: IR0807# Units: ug/ml

Compound		STD # 1	STD # 2	STD # 3	STD # 4	STD # 5	AVG					
	TV	1.31	5.05	10.1	15.2	30.3	RF	CORR1	SLOPE	Y-INT	% RSD	Type
Petroleum Hydrocarbons (IR)	RF	.0221	.0178	.0180	.0175	.0180	.0187	1.00	56.1	-.0836	10.4	R
	CV	1.54	4.97	10.1	14.9	30.5						

TV = True Value, RF = Response Factor, CV = Calc Value

Updated Curve
to 112195

6020

0209

Continuing Calibration Check

Curve ID: IR112195 Units: ug/ml

Check Std. Date 96/01/19

Pnum	Compound	Cont. RF	Avg. RF	% Diff	True Conc	Calc Conc	% Recov	Type
P011	Petroleum Hydrocarbons (IR)	.0184	.0187	1.37	15.3	15.1	98.6	R
1	Petroleum Hydrocarbons (IR)	.0188	.0187	.383	15.3	15.4	100	R
.1	Petroleum Hydrocarbons (IR)	.0189	.0187	1.08	15.3	15.5	101	R

Run # 8150
8161
8166

1B (GC)
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0211 EPA SAMPLE NO.

TBLK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: N1T60127T

Sample wt/vol: 1000 (g/mL) ML Lab File ID: IR8155

Level: (low/med) LOW Date Received: 1/19/96

% Moisture: N/A decanted: (Y/N) N Date Extracted: 01/19/96

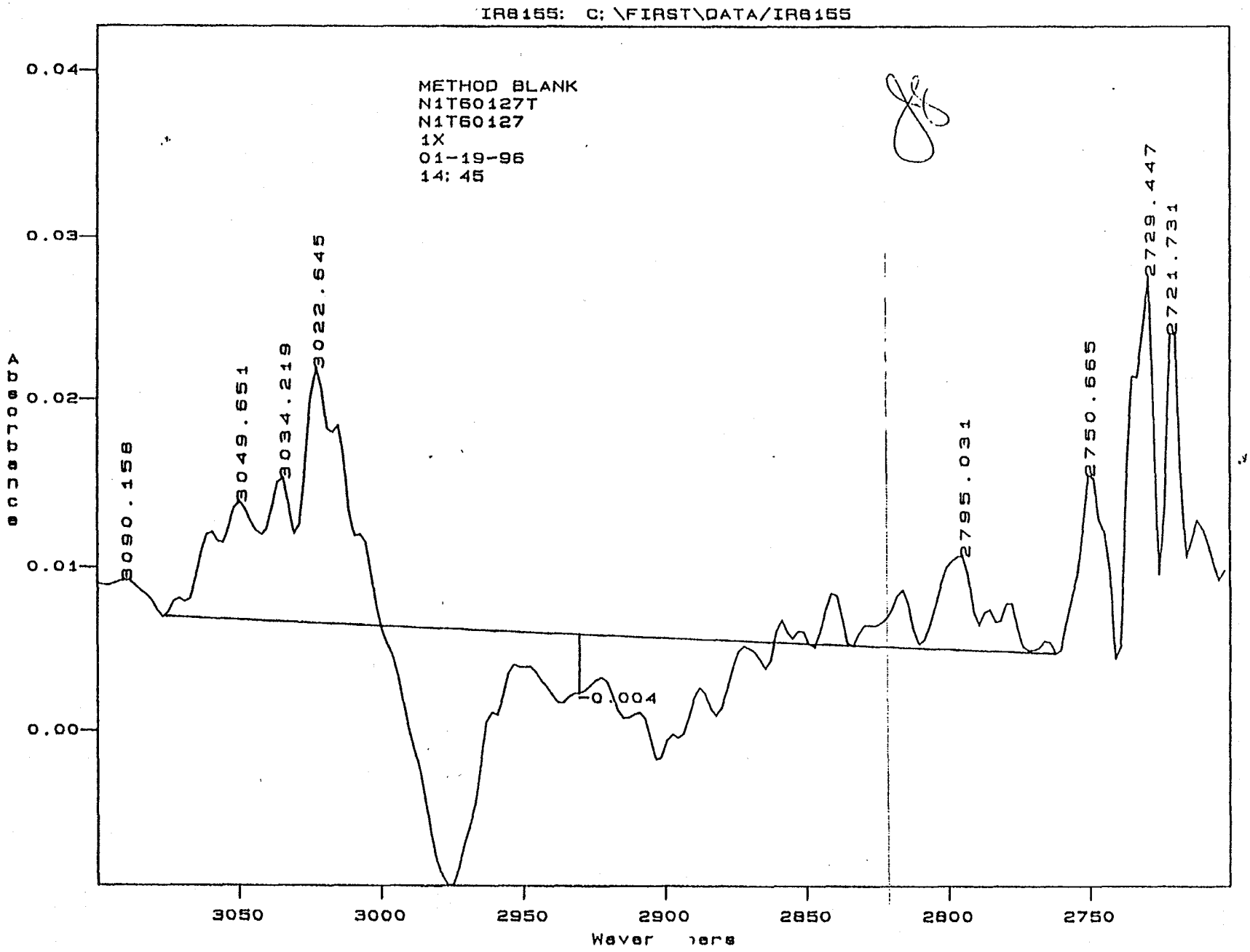
Concentrated Extract Volume: 100000 (uL) Date Analyzed: 01/19/96

Injection Volume: _____ (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
	Petroleum Hydrocarbons (IR)	100	U

0212


IR8155: C:\FIRST\DATA/IR8155
METHOD BLANK
N1T60127T
N1T60127
1X
01-19-96
14:45
Absorbance
0.04
0.03
0.02
0.01
0.00
3090.158
3049.651
3034.219
3022.645
2795.031
2750.665
2729.447
2721.731
-0.004
3050
3000
2950
2900
2850
2800
2750
Wavenumbers

1B (GC)
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0213 EPA SAMPLE NO.

TSPK01

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

Matrix: (soil/water) WATER Lab Sample ID: N1T60127TS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: IR8156

Level: (low/med) Low Date Received: 1/19/96

% Moisture: N/A decanted: (Y/N) N Date Extracted: 01/19/96

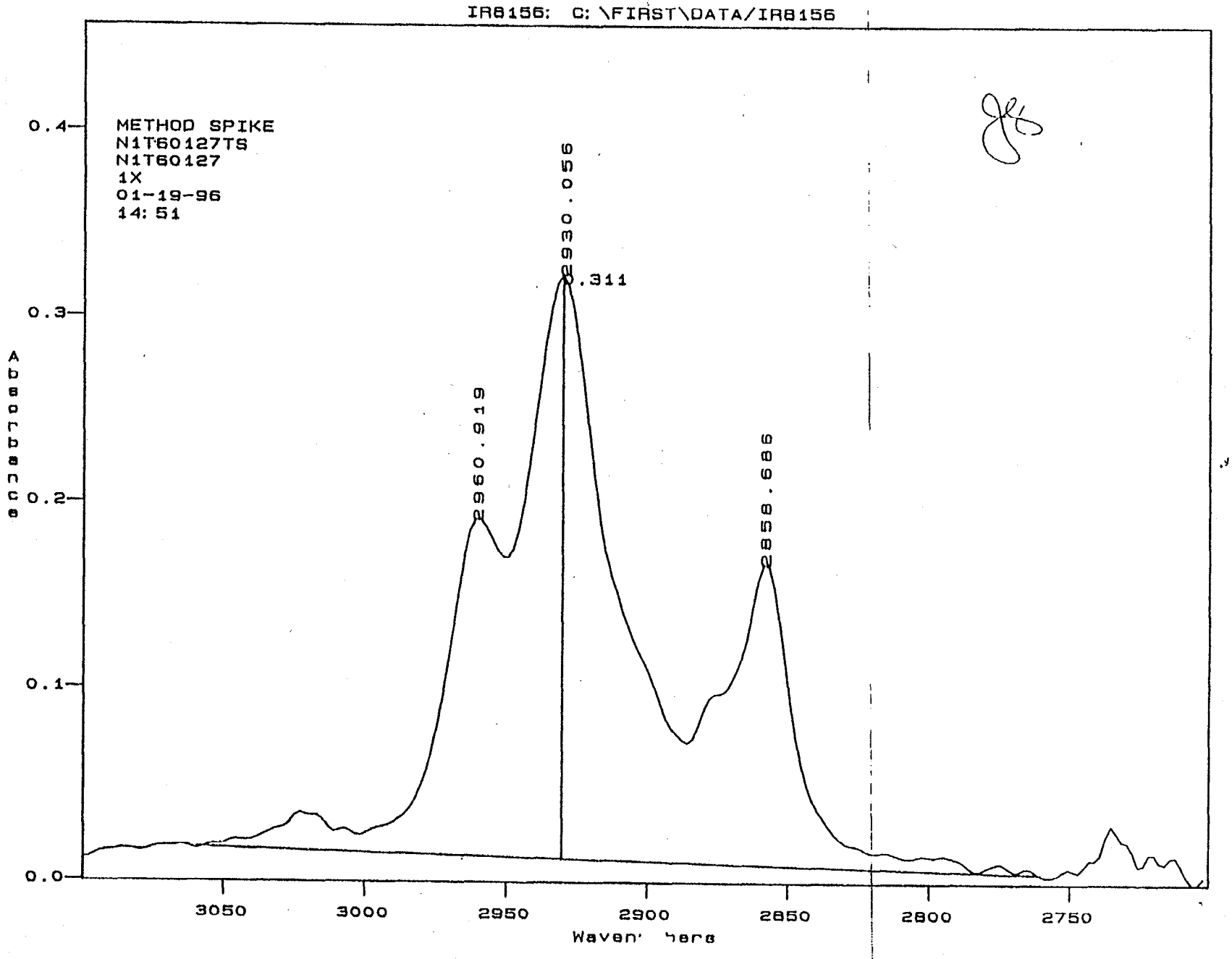
Concentrated Extract Volume: 100000 (uL) Date Analyzed: 01/19/96

Injection Volume: _____ (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
	Petroleum Hydrocarbons (IR)	1700	

0214


IR8156: C:\FIRST\DATA/IR8156
METHOD SPIKE
N1T60127TS
N1T60127
1X
01-19-96
14:51
2960.919
2930.056
.311
2858.686
Absorbance
0.4
0.3
0.2
0.1
0.0
3050
3000
2950
2900
2850
2800
2750
Wavenumbers

INORGANICS

Metals

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE **0216**

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78IW001

SOW No.:

EPA Sample No.	Lab Sample ID.
CLJ78FB001	JP2542
CLJ78FB001D	JP2542D
CLJ78FB001S	JP2542S
CLJ78FB001SD	JP2542SD

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: See SDG Narrative

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Joseph A Hnatow Name: Joseph A Hnatow

Date: 2-26-96 Title: Lab Manager

Narrative for SDG # CLJ78IW001

Metals

CLP Forms and/or analytical requirements do not apply to all Level C type deliverable requirements. Every effort was made to conform to the CLP format and all applicable CLP/Level C forms have been included.

All of the initial calibration criteria were within QC limits.

Potassium did not pass all continuing calibration criteria but should not negatively impact the data validity.

The CRDL standard met all QC criteria.

Low levels of Barium, Copper and Zinc were detected in the initial calibration blank. This anomaly should not impact the validity of the data generated.

Low levels of Barium and Iron were detected in the continuing calibration blank. This anomaly should not impact the validity of the data generated.

Low levels of Calcium and Iron were detected in the method blank. This anomaly should not impact the validity of the data generated.

Low matrix spike recoveries were noted for Silver. All post spike recoveries were within acceptable QC limits.

Duplicate results were within QC limits.

All analytes were within Control Limits for the Laboratory Control Samples (LCS) except Lead, Silver and Thallium. Although the batch warranted re-analysis there was insufficient sample volume left for that purpose.

All holding times were met for this SDG.

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

0218

EPA SAMPLE NO.

CLJ78FB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

b Code: N/A Case No.: 17418 SAS No.: N/A SDG No.: SLJ78IW001

Matrix (soil/water): WATER Lab Sample ID: JP2542

Level (low/med): LOW Date Received: 01/19/96

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	108	U		P
7440-36-0	Antimony	22.4	U		P
7440-38-2	Arsenic	1.7	U		F
7440-39-3	Barium	2.1	B		P
7440-41-7	Beryllium	.80	U		P
7440-43-9	Cadmium	1.2	U		P
7440-70-2	Calcium	82.7	B		P
7440-47-3	Chromium	2.2	U		P
7440-48-4	Cobalt	2.4	U		P
7440-50-8	Copper	3.2	U		P
7439-89-6	Iron	31.2	B		P
7439-92-1	Lead	1.3	B		F
7439-95-4	Magnesium	24.2	U		P
7439-96-5	Manganese	3.1	B		P
7439-97-6	Mercury	.14	B		CV
7440-02-0	Nickel	7.9	U		P
7440-09-7	Potassium	813	U		P
7782-49-2	Selenium	2.3	U	W	F
7440-22-4	Silver	6.3	U	N	P
7440-23-5	Sodium	320	U		P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	2.8	U		P
7440-66-6	Zinc	10.7	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78IW001

Initial Calibration Source: NIST

Continuing Calibration Source: NIST

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	10200.0	10200.00	100.0	5090.0	5230.00	102.8	5180.00	101.8	P
Antimony	5180.0	5360.00	103.5	2660.0	2710.00	101.9	2730.00	102.6	P
Arsenic									
Barium	10600.0	10400.00	98.1	4950.0	5200.00	105.1	5210.00	105.3	P
Beryllium	239.0	240.00	100.4	119.0	120.00	100.8	120.00	100.8	P
Cadmium	1280.0	1310.00	102.3	805.0	801.00	99.5	795.00	98.8	P
Calcium	10300.0	10500.00	101.9	5230.0	5330.00	101.9	5310.00	101.5	P
Chromium	489.0	506.00	103.5	243.0	250.00	102.9	247.00	101.6	P
Cobalt	2580.0	~~2640.00~~ 2640.00	~~102.3~~ 102.3	1340.0	1350.00	100.7	1360.00	101.5	P
Copper	1260.0	1270.00	100.8	719.0	730.00	101.5	734.00	102.1	P
Iron	5150.0	5230.00	101.6	2620.0	2690.00	102.7	2650.00	101.1	P
Lead									
Magnesium	10200.0	10200.00	100.0	5360.0	5380.00	100.4	5350.00	99.8	P
Manganese	750.0	771.00	102.8	401.0	410.00	102.2	413.00	103.0	P
Mercury	5.0	5.19	103.8	5.0	5.14	102.8			CV
Nickel	2080.0	2120.00	101.9	1050.0	1050.00	100.0	1050.00	100.0	P
Potassium	10700.0	10600.00	99.1	5160.0	5740.00	111.2	4900.00	95.0	P
Selenium									
Silver	522.0	536.00	102.7	256.0	265.00	103.5	261.00	102.0	P
Sodium	9337.0	9720.00	104.1	4680.0	4750.00	101.5	4770.00	101.9	P
Thallium									
Vanadium	2570.0	2580.00	100.4	1290.0	1320.00	102.3	1320.00	102.3	P
Zinc	1010.0	1020.00	101.0	504.0	501.00	99.4	498.00	98.8	P
Cyanide									

1

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78IW001

Initial Calibration Source: INORGANIC VENTURES

Continuing Calibration Source: INORGANIC VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									
Arsenic	30.0	28.97	96.6	20.0	20.36	101.8			F
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	30.0	31.40	104.7	20.0	21.00	105.0	21.60	108.0	F
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium	40.0	41.16	102.9	20.0	20.94	104.7	19.21	96.1	F
Silver									
Sodium									
Thallium	30.0	31.10	103.7	20.0	21.70	108.5			F
Vanadium									
Zinc									
Cyanide									

1

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78IW001 ~~CLJ78CSAS~~

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	108.0	U	108.0	U	108.0	U			108.000	U	P
Antimony	22.4	U	22.4	U	22.4	U			22.400	U	P
Arsenic	1.7	U	1.7	U					1.700	U	P
Barium	5.2	B	1.5	B	1.3	B			0.900	U	P
Beryllium	0.8	U	0.8	U	0.8	U			0.800	U	P
Cadmium	1.2	U	1.2	U	1.2	U			1.200	U	P
Calcium	39.7	U	39.7	U	39.7	U			55.500	B	P
Chromium	2.2	U	2.2	U	2.2	U			2.200	U	P
Cobalt	2.4	U	2.4	U	2.4	U			2.400	U	P
Copper	4.1	B	3.2	U	3.2	U			3.200	U	P
Iron	15.5	U	20.1	B	15.5	U			25.300	B	P
Lead	1.0	U	1.0	U	1.0	U			1.000	U	P
Magnesium	24.2	U	24.2	U	24.2	U			24.200	U	P
Manganese	0.8	U	0.8	U	0.8	U			0.800	U	P
Mercury	0.2	U	0.2	U					0.200	U	CV
Nickel	9.7	U	9.7	U	9.7	U			9.700	U	P
Potassium	813.0	U	813.0	U	813.0	U			813.000	U	P
Selenium	0.9	U	0.9	U	0.9	U			0.900	U	P
Silver	6.3	U	6.3	U	6.3	U			6.300	U	P
Sodium	320.0	U	32.0	U	320.0	U			320.000	U	P
Thallium	1.0	U	1.0	U					1.000	U	P
Vanadium	2.8	U	2.8	U	2.8	U			2.800	U	P
Zinc	3.6	B	3.4	U	3.4	U			3.400	U	P
Cyanide											

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: OHM CORPORATION ANALYTICAL DIVISION Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: NA SDG No.: CLJ78IW001

ICP ID Number: 61 ICS Source: INORGANIC VENTURES

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500800	491000	496000	497000.0	101.2	538000	530000.0	107.9
Antimony	0	1070	35	1070.0	100.0	26	1170.0	109.3
Arsenic								
Barium	0	477	6	507.0	106.3	3	537.0	112.6
Beryllium	0	472	0	479.0	101.5	0	509.0	107.8
Cadmium	0	973	5	1010.0	103.8	6	1060.0	108.9
Calcium	187900	241000	199000	249000.0	103.3	214000	265000.0	110.0
Chromium	0	468	-6	482.0	103.0	-4	504.0	107.7
Cobalt	0	471	-3	488.0	103.6	-6	519.0	110.2
Copper	0	477	1	474.0	99.4	-6	503.0	105.5
Iron	196600	184200	194000	194000.0	105.3	208000	205000.0	111.3
Lead								
Magnesium	273900	262300	262000	261000.0	99.5	283000	279000.0	106.4
Manganese	0	491	16	508.0	103.5	16	541.0	110.2
Mercury								
Nickel	0	932	-6	964.0	103.4	-2	1010.0	108.4
Potassium								
Selenium								
Silver	0	1033	-2	1060.0	102.6	-12	1130.0	109.4
Sodium								
Thallium								
Vanadium	0	489	13	506.0	103.5	6	537.0	109.8
Zinc	0	988	22	984.0	99.6	16	1040.0	105.3
Cyanide								

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

0223

EPA SAMPLE NO.

CLJ78FB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Code: N/A Case No.: 17418 SAS No.: N/A SDG No.: SLJ78IW001

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	9840.0000		33.3000	U	10330.00	95.3		P
Antimony	75-125	506.0001		-1.2900	U	534.60	94.7		P
Arsenic	75-125	17.8000		.2300	U	20.00	89.0		F
Barium	75-125	1970.0000		2.1400	B	1965.00	100.1		P
Beryllium	75-125	48.6000		.7700	U	50.10	97.0		P
Cadmium	75-125	50.7000		.3800	U	54.50	93.0		P
Calcium	75-125	10200.0000		82.7000	B	10610.00	95.4		P
Chromium	75-125	201.0000		-2.6600	U	207.20	97.0		P
Cobalt	75-125	500.0000		-.1300	U	522.90	95.6		P
Copper	75-125	240.0000		1.0300	U	248.80	96.5		P
Iron	75-125	9950.0000		31.2000	B	10320.00	96.1		P
Lead	75-125	21.0000		1.3000	B	20.00	98.5		F
Magnesium	75-125	10100.0000		6.3800	U	10850.00	93.1		P
Manganese	75-125	501.0001		3.1200	B	522.30	95.3		P
Mercury	75-125	1.9900		.1430	B	2.00	92.3		CV
Nickel	75-125	494.0000		-4.8000	U	518.60	95.3		P
Potassium	75-125	9660.0000		-61.0000	U	10630.00	90.9		P
Selenium	75-125	19.4000		-.6200	U	20.00	97.0		F
Silver	75-125	24.1000		-1.2800	U	41.50	58.1	N	P
Sodium	75-125	11100.0000		40.9000	U	11770.00	94.3		P
Thallium	75-125	22.3000		-1.3000	U	20.00	111.5		F
Vanadium	75-125	497.0000		0	U	518.70	95.8		P
Zinc	75-125	494.0000		10.7000	B	546.30	88.5		P
Cyanide									NR

Comments:

U.S. EPA - CLP **0224** EPA SAMPLE NO.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLJ78FB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

b Code: N/A Case No.: 17418 SAS No.: N/A SDG No.: SLJ78IW001

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver		29.20		-1.28	U	35.9	81.3		P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

U.S. EPA - CLP

0225

EPA SAMPLE NO.

6

DUPLICATES

CLJ78FB001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418 SAS No.: N/A SDG No.: SLJ78IW001

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: _____ % Solids for Duplicate: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		33.3000	U	42.1000	U			P
Antimony		-1.2900	U	14.0000	U			P
Arsenic		.2300	U	-.3300	U			F
Barium		2.1400	B	1.8500	B	.3		P
Beryllium		.7700	U	.5800	U			P
Cadmium		.3800	U	.4700	U			P
Calcium		82.7000	B	57.2000	B	25.5		P
Chromium		-2.6600	U	-.2300	U			P
Cobalt		-.1300	U	.8900	U			P
Copper		1.0300	U	1.0300	U			P
Iron		31.2000	B	22.7000	B	8.5		P
Lead		1.3000	B	.8000	U	1.3		F
Magnesium		6.3800	U	-.7000	U			P
Manganese		3.1200	B	1.9000	B	1.2		P
Mercury		.1430	B	.1020	U	.1		CV
Nickel		-4.8000	U	6.9400	U			P
Potassium		-61.0000	U	259.0000	U			P
Selenium		-.6200	U	-.3100	U			F
Silver		-1.2800	U	-2.5900	U			P
Sodium		40.9000	U	17.9000	U			P
Thallium		-1.3000	U	-1.2000	U			F
Vanadium		0	U	-.5700	U			P
Zinc		10.7000	B	7.6200	B	3.1		P
Cyanide								NR

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

b Code: N/A Case No.: 17418 SAS No.: N/A SDG No.: SLJ78IW001

Solid LCS Source:

Aqueous LCS Source: INORGANIC VENTURES

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	10330	9460.00	91.6						
Antimony	534.6	463.00	86.6						
Arsenic	20.0	20.00	100						
Barium	1965.0	1900.00	96.7						
Beryllium	50.1	46.70	93.2						
Cadmium	54.5	49.40	90.6						
Calcium	10610	9930.00	93.6						
Chromium	207.2	197.00	95.1						
Cobalt	522.9	484.00	92.6						
Copper	248.8	234.00	94.1						
Iron	10320	9570.00	92.7						
Lead	20.0	26.80	134						
Magnesium	10850	9730.00	89.7						
Manganese	522.3	481.00	92.1						
Mercury	2.0	1.92	96.0						
Nickel	518.6	482.00	92.9						
Potassium	10630	9750.00	91.7						
Selenium	20.0	21.30	107						
Silver	41.5	22.70	54.7						
Sodium	11770	10600.00	90.1						
Thallium	20.0	25.20	126						
Vanadium	518.7	481.00	92.7						
Zinc	546.3	481.00	88.0						
Cyanide									

INORGANICS

Conventionals

0228

COVER PAGE
CONVENTIONAL ANALYSES DATA PACKAGE

Lab Name: *OHM Analytical Div.* Contract: NFESC

Lab Code: N/A Case #: 17418N SAS #: N/A SDG #: CLJ78IW...

DW No.: _____

EPA Sample No.	Lab Sample ID.
CLJ78IW001	JP2541

COMMENTS: _____

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's Designee, as verified by the following signature.

Signature: Joseph A. Hnatow Name: Joseph A. Hnatow

Date: 2/26/96 Title: Lab Manager

Narrative for SDG # CLJ78IW001

Conventionals

CLP Forms and/or analytical requirements do not apply to all Conventional Level C deliverable requirements. Every effort was made to conform to the CLP format and all applicable CLP/Level C forms have been included.

The pH results are reported in standard units and not mg/kg.

The Flashpoint results are reported in °C not mg/kg.

The method qualifier for pH (Electrode) is "PH", for Flashpoint it is "FP", for Reactive Cyanide it is "RC" and for Reactive Sulfide it is "RS". The CLP manual does not address these results or this method for reporting.

The method blank was within QC limits for this SDG.

Standard QA/QC is not a requirement for all of the parameters analyzed. Batch acceptance was based on acceptable method spike recoveries for this SDG.

The Chloride matrix spike and sample duplicate were within QC limits for this SDG.

The LCS was within acceptable QC limits.

All sample holding times were met for this SDG.

CONVENTIONAL ANALYSIS DATA SHEET (1)

0230

Lab Name: *OHM Analytical Div.* Contract: NFESC EPA SAMPLE #: CLJ78IW001

Lab Code: N/A Case #: 17418N SAS #: N/A SDG #: CLJ78IW001

Matrix: (soil/water) WATER Level: (low/med) _____ Lab Sample ID: JP2541

% Solids: _____ Date Received: 01/19/96

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	18000			RC
	Reactive Sulfide	< 20000	U		RS
	Flashpoint, °C	> 93			FP
	pH (Electrode)	7.05 S.U.			PH
	CHLORIDE	225000			CL

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

COMMENTS: _____

Lab Name: *OHM Analytical Div.* Contract: NFESC Lab Code: N/A

Case #: 17418N SAS #: N/A SDG #: CLJ78LW001

Prep Blank Matrix: (soil/water) _____

Prep Blank Concentration Units: (ug/L or mg/kg) ug/L

ANALYTE	Init Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L						Preparation Blank	C	M
			1	C	2	C	3	C			
Reactive Cyanide									10000	U	RC
Reactive Sulfide									20000	U	RS
CHLORIDE									500	U	CL

SPIKE SAMPLE RECOVERY (5A)

0232

Lab Name: *OHM Analytical Div.* Contract: NFESC EPA Sample #: CLJ78IW001

Lab Code: N/A Case #: 17418N SAS #: N/A SDG #: CLJ78IW001

Matrix: (soil/water) WATER Level (low/med): _____ % Solids for Sample: _____

Concentration Units (ug/L or mg/kg dry weight): ug/L

ANALYTE	CONTROL LIMIT %R	SPIKE SAMPLE RESULT (SSR)	C	SAMPLE RESULT (SR)	C	SPIKE ADDED (SA)	% R	Q	M
Reactive Cyanide									
Reactive Sulfide									
CHLORIDE		1120000		225000		1000000	90		CL

COMMENTS: _____

Lab Name: *OHM Analytical Div.* Contract: NFESC EPA Sample #: CLJ78IM

Lab Code: N/A Case #: 17418N SAS #: N/A SDG #: CLJ78IW0

Matrix: (soil/water) WATER % Solids for Sample: ____

Level (low/med): ____ % Solids for Duplicate: ____

Concentration Units (ug/L or mg/kg dry weight): ug/L

ANALYTE	CONTROL LIMIT	SAMPLE(s)	C	DUPLICATE (D)	C	RPD	Q	M
Reactive Cyanide								
Reactive Sulfide								
CHLORIDE	0-20	1120000		1150000		3		CL

LABORATORY CONTROL SAMPLE (7)

0234

Lab Name: *OHM Analytical Division* Contract: NFESC

Lab Code: N/A Case #: 17418N SAS #: N/A SDG #: CLJ78 01

Solid LCS Source: _____ Aqueous LCS Source: ERA

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)					
	True	Found	% R	True	Found	C	Limits		% R
Reactive Cyanide	1060000	1010000	95						
Reactive Sulfide	1090000	975000	89						
CHLORIDE	109000	114000	105						

CHAIN-OF-CUSTODY RECORD(S)

Remediation Services Corp.

CHAIN-OF-CUSTODY RECORD

LAB COPY

Form 0019
Field Technical Services
Rev. 08/89

165620

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
Camp LeJeune Bldg 25	Camp LeJeune, NC.

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
17418	Allen Whitt / Jim Dunn	910-451-2599

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
Vann Marshburn	Jim Dunn / Allen Whitt

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) 40 ml. VOA	1 Liter Amber Glass	1 Liter Plastic	REMARKS
1	CLI78IW001	1-18-96	1430	✓		Decon Liquids From Tank Cleaning @ Bldg 25	6	2	4		VOA (8240), SVOA (8270) Pest/PCB (8080) Reac. Cyanide (7.3.3), Reac Sulfide (7.3.4), pH (9040), Ignitability (1010 or 1020) Total Halogen (9250)
2											
3	CLI78TB001	1-18-96	—			Trip Blank	2	2			VOA (8240)
4	CLI78FB001	1-18-96	1340		✓	Field Blank For Equipment Rinsate #CLI78RB001	5	2	2	1	VOA (8240) SVOA (8270) Pest/PCB (8080) TAL Metals (6010/7000) TPH (418.1)
5											
6											
7											
8											
9											
10											

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1, 3, & 4	Scott Dunbar	Fed-Ex	1-18-96	1700
2	1, 3, 4	Fedex 692146909460	Anita Jones	1-19-96	1045
3					
4					

REMARKS

T.A.T - 5 day

SAMPLER'S SIGNATURE: Scott Dunbar

0236

Soil Confirmation Data

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

ANALYTICALDIVISION

Laboratory Analysis

Report(s) #619634 **VOLUMEI OF I**

Client: OHM Remediation Services Corp.
Southern Region (Norcross, GA)

Attn: Jim Dunn

Project: 17418N - Camp Lejeune, North Carolina

Sample(s) Received: February 2, 1996 **Order Received:** February 2, 1996

Reviewed and Approved by: Joseph A. Hnatow *Date:* February 22, 1996
Joseph A. Hnatow, Laboratory Manager

SUMMARY OF ANALYTICAL METHODOLOGY

Joblink # 619634

REFERENCE		TITLE
OLM03.1	CLP SOW	USEPA SOW for Organic Analysis #OLM03.1 8/94

Narrative for SDG # CLJ78SS001

Laboratory: OHM Remediation Services Corp.
Analytical Division

Project #: 17418N

Project Location: Camp LeJeune, NC

Samples in this Sample Delivery Group (SDG):

CLJ78SS001 CLJ78SS002 CLJ78SS003 CLJ78SS004 CLJ78SS005 CLJ78SS006
CLJ78SS06D CLJ-FB CLJ-RB CLJ-TB

CLP Forms and/or analytical requirements do not apply to all Level C type deliverable requirements. Every effort was made to conform to the CLP format and all applicable CLP/Level C forms have been included.

Volatile Organics by GC/MS

Note that three batches have been combined into one report for this SDG. for QC designation purposes Batch #N2V4939 has an "A" suffix added to the method blank and method spike. Batch #N1V4940 has a "B" suffix and Batch #N2V4947 has a "C" suffix added.

Samples were analyzed twice. One analysis was a low level analysis and the second was a medium level analysis. The Tetrachloroethene is reported from the medium level analysis. This analysis exhibited difficulties with the recovery of 1,1-Dichloroethene in the spikes. Since the 1,1-Dichloroethene is reported from the low level analysis the data was considered acceptable.

Three of 87 surrogate recoveries were outside QC limits.

Two of 30 matrix spike recoveries and zero of 15 matrix RPD's were outside QC limits.

One of 15 method spike recoveries were outside QC limits.

All target compounds were spiked for this analytical batch. Only the required CLP spiking compounds were reported on Form III.

All water method blank criteria were met for this SDG.

Low levels of Methylene Chloride and Methyl-iso-butyl-ketone were detected in the soil method blanks and should therefore, be taken into consideration when assessing the data. All affected data has been flagged with the appropriate qualifier.

Initial and continuing calibration criteria were met.

All internal standard criteria were met for this SDG.

All holding times were met for this SDG.

Signature: Joseph A. Hnatow Name: Joseph A. Hnatow
Date: 2-21-96 Title: Laboratory Manager

ORGANICS

Volatile Organics by GC/MS

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

0005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Level: (low/med) ____

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	CLJ78SS001	90	100	74		0
02	CLJ78SS003	99	97	97		0
03	CLJ78SS004	84	82	82		0
04	CLJ78SS005	100	103	110		0
05	CLJ78SS006	103	103	111		0
06	CL78SS06D	102	102	111		0
07	VBLK01A	113	115 *	114		1
08	VSPK01A	90	99	95		0
09	CLJ78SS003MS	94	93	95		0
10	CLJ78SS003MSD	95	94	96		0
11	CLJ78SS002	96	92	94		0

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(84-138)
SMC2 (BFB) = Bromofluorobenzene	(59-113)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring compound diluted out

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS01

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	CLJ-FB	98	93	105		0
02	CLJ-RB	98	94	113		0
03	CLJ-TB	99	92	109		0
04	VBLK01B	99	90	110		0
05	VSPK01B	97	98	120 *		1
06	CLJ-FBMS	95	97	111		0
07	CLJ-FBMSD	99	98	110		0

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(88-110)
SMC2 (BFB) = Bromofluorobenzene	(86-115)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring compound diluted out

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

0007

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: _____ Case No.: 17418 SAS No.: _____ SDG No.: CLJ78SS001

Level: (low/med) ____

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLK01	96	103	86		0
02	VSPK01	102	114 *	93		1
03	CLJ78SS001	105	95	85		0
04	CLJ78SS002	98	97	90		0
05	CLJ78SS004	102	103	103		0
06	CLJ78SS006	104	111	112		0
07	CL78SS06D	101	107	111		0
08	CLJ78SS003	102	107	118		0
09	CLJ78SS005	95	104	121		0
10	CLJ78SS001MS	98	102	105		0
11	CLJ78SS001MSD	103	104	99		0

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(84-138)
SMC2 (BFB) = Bromofluorobenzene	(59-113)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring compound diluted out

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY 0008

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix Spike - EPA Sample No.: CLJ78SS003 Level: (low/med) ____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	2800	0	780	28 *	59-172
Trichloroethene	2800	0	3100	111	62-137
Benzene	2800	0	3500	125	66-142
Toluene	2800	0	2700	96	59-139
Chlorobenzene	2800	0	2700	96	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	2800	800	29 *	3	22	59-172
Trichloroethene	2800	3100	111	.3	24	62-137
Benzene	2800	3200	114	9	21	66-142
Toluene	2800	2900	104	7	21	59-139
Chlorobenzene	2800	2700	96	.3	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 2 out of 10 outside limits

COMMENTS: _____

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix Spike - EPA Sample No.: CLJ-FB

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50	0	51	102	61-145
Trichloroethene	50	0	52	104	71-120
Benzene	50	0	54	108	76-127
Toluene	50	0	51	102	76-125
Chlorobenzene	50	0	51	102	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	47	94	8	14	61-145
Trichloroethene	50	59	118	13	14	71-120
Benzene	50	60	120	11	11	76-127
Toluene	50	49	98	4	13	76-125
Chlorobenzene	50	49	98	4	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY 0010

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix Spike - EPA Sample No.: CLJ78SS001 Level: (low/med) ____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	280	0	340	121	59-172
Trichloroethene	280	20	280	93	62-137
Benzene	280	0	270	96	66-142
Toluene	280	0	280	100	59-139
Chlorobenzene	280	0	280	100	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	240	280	117	2	22	59-172
Trichloroethene	240	240	92	.4	24	62-137
Benzene	240	250	104	9	21	66-142
Toluene	240	250	104	6	21	59-139
Chlorobenzene	240	250	104	6	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

3B
SOIL VOLATILE BLANK SPIKE RECOVERY

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix Spike - EPA Sample No.: VSPK01A

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC	#	QC LIMITS REC.
1,1-Dichloroethene	1300	0	380	29	*	59-172
Trichloroethene	1300	0	1300	100		62-137
Benzene	1300	0	1400	108		66-142
Toluene	1300	0	1200	92		59-139
Chlorobenzene	1300	0	1200	92		60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 5 outside limits

COMMENTS: _____

3A
WATER VOLATILE BLANK SPIKE RECOVERY

0012

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix Spike - EPA Sample No.: VSPK01B

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50	0	46	92	61-145
Trichloroethene	50	0	60	120	71-120
Benzene	50	0	58	116	76-127
Toluene	50	0	49	98	76-125
Chlorobenzene	50	0	49	98	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

3B

SOIL VOLATILE BLANK SPIKE RECOVERY

0013

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix Spike - EPA Sample No.: VSPK01C

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50	0	49	98	59-172
Trichloroethene	50	0	59	118	62-137
Benzene	50	0	51	102	66-142
Toluene	50	0	51	102	59-139
Chlorobenzene	50	0	52	104	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

4A
VOLATILE METHOD BLANK SUMMARY

0014 EPA SAMPLE NO.

VBLK01A

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Lab File ID: C8292 Lab Sample ID: N2V4939V

Date Analyzed: 02/03/96 Time Analyzed: 22:01

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: or SCMSC.I

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	CLJ78SS001	JP2875V	C8285	18:13
02	CLJ78SS003	JP2877V	C8287	19:18
03	CLJ78SS004	JP2878V	C8288	19:51
04	CLJ78SS005	JP2879V	C8289	20:24
05	CLJ78SS006	JP2880V	C8290	20:56
06	CL78SS06D	JP2881V	C8291	21:28
07	CLJ78SS002	JP2876V	C8315	01:05
08	CLJ78SS003MSD	JP2877VR	C8302	18:09
09	VSPK01A	N2V4939VS	C8300	17:06
10	CLJ78SS003MS	JP2877VS	C8301	17:38

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

0015 EPA SAMPLE NO.

VBLK01B

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS01

Lab File ID: C8311 Lab Sample ID: N1V4940V

Date Analyzed: 02/04/96 Time Analyzed: 22:57

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: ~~5e~~ msc.i

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	CLJ-FB	JP2882V	C8308	21:21
02	CLJ-RB	JP2883V	C8309	21:53
03	CLJ-TB	JP2884V	C8310	22:25
04	CLJ-FBMSD	JP2882VR	C8314	00:33
05	VSPK01B	N1V4940VS	C8312	23:29
06	CLJ-FBMS	JP2882VS	C8313	00:01

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
0016
VBLK01C

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Lab File ID: C8336 Lab Sample ID: N2V4947V

Date Analyzed: 02/05/96 Time Analyzed: 20:02

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP5890 MSD.I

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	CLJ78SS001	JP2875V	C8338	21:06
02	CLJ78SS002	JP2876V	C8339	21:39
03	CLJ78SS004	JP2878V	C8340	22:11
04	CLJ78SS006	JP2880V	C8341	22:43
05	CL78SS06D	JP2881V	C8342	23:15
06	CLJ78SS003	JP2877V	C8343	23:48
07	CLJ78SS005	JP2879V	C8344	00:20
08	CLJ78SS001MSD	JP2875VR	C8352	12:05
09	VSPK01C	N2V4947VS	C8337	20:34
10	CLJ78SS001MS	JP2875VS	C8351	11:32

COMMENTS:

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: OHM GNA / Div Contract: NFESC

Lab Code: NA Case No.: 17418N SAS No.: N/A SDG No.: CLJ785500/

Lab File ID: C8275 BFB Injection Date: 2/3/96

Instrument ID: MSC.1 BFB Injection Time: 1116

GC Column: DB624 ID: .53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	30.56
75	30.0 - 66.0% of mass 95	50.47
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.67
173	Less than 2.0% of mass 174	0.00 (0.00)1
174	50.0 - 120.0% of mass 95	64.05
175	4.0 - 9.0 % of mass 174	4.79 (7.48)1
176	93.0 - 101.0% of mass 174	62.75 (97.96)1
177	5.0 - 9.0% of mass 176	4.82 (7.68)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	VSTD050	C8279	2/3/96	1401
02	VSTD010	VSTD010	C8280		1530
03	VSTD020	VSTD020	C8281		1602
04	VSTD100	VSTD100	C8282		~~1635~~ 1635
05	VSTD200	VSTD200	C8283		1708
06	CLJ7855001	JP2875 V	C8285		1813
07	CLJ7855003	JP2877 V	C8287		1918
08	CLJ7855004	JP2878 V	C8288		1951
09	CLJ7855005	JP2879 V	C8289		2024
10	CLJ7855006	JP2880 V	C8290		2056
11	CLJ7855060	JP2881 V	C8291		2128
12	VBLK01A	N2V4939 V	C8292	V	2201
13	~~VSTD050~~	~~VSTD050~~	C8297	2/4/96	1519
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: OHM Anal Div Contract: NFESC

Lab Code: N/A Case No.: 1748N SAS No.: N/A SDG No.: CLJ785001

Lab File ID: C8330 BFB Injection Date: 2/5/96

Instrument ID: MSC.1 BFB Injection Time: 16.48

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	34.44
75	30.0 - 66.0% of mass 95	60.58
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.15
173	Less than 2.0% of mass 174	0.19 (0.28)1
174	50.0 - 120.0% of mass 95	69.22
175	4.0 - 9.0 % of mass 174	4.91 (7.10)1
176	93.0 - 101.0% of mass 174	67.19 (97.06)1
177	5.0 - 9.0% of mass 176	4.55 (6.83)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	VSTD010	VSTD010	C8331	2/5/96	1721
02	VSTD020	VSTD020	C8332	"	1753
03	VSTD050	VSTD050	C8333	"	1825
04	VSTD100	VSTD100	C8334	"	1857
05	VSTD200	VSTD200	C8335	"	1929
06	VBLK01C	N2V4947V	C8336	"	2002
07	VSPK01C	N2V4987V	C8337	"	2034
08	CLJ785001	JP2875V	C8338	"	2106
09	CLJ785002	JP2876V	C8339	"	2139
10	CLJ785004	JP2878V	C8340	"	2211
11	CLJ785006	JP2880V	C8341	"	2244
12	CLJ785002D	JP2881V	C8342	"	2315
13	CLJ785003	JP2877V	C8343	"	2348
14	CLJ785005	JP2879V	C8344	2/6/96	0020
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: OHM Analytical Labs Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78S5001

Lab File ID: C8296 BFB Injection Date: 2/4/96

Instrument ID: 1175C.I BFB Injection Time: 14:44

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	28.49
75	30.0 - 66.0% of mass 95	53.97
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	8.45
173	Less than 2.0% of mass 174	0.00 (0.00) 1
174	50.0 - 120.0% of mass 95	55.81
175	4.0 - 9.0 % of mass 174	4.22 (8.46) 1
176	93.0 - 101.0% of mass 174	53.98 (96.72) 1
177	5.0 - 9.0% of mass 176	4.15 (7.68) 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	VSTD050	C8297	2/4/96	1519
02	CLJ-FB	JP2882V	C8308		2121
03	CLJ-RB	JP2883V	C8309		2153
04	CLJ-TB	JP2884V	C8310		2225
05	V6LK01B	N1V4940V	C8311		2257
06	VSPK01B	N1V4940VS	C8312	↓	2329
07	CLJ-FBMS	JP2882VS	C8313	2/5/96	0001
08	CLJ-FBMSD	JP2882VR	C8314	↓	0033
09	~~CLJ5S6~~CLJ78S502	JP2876V	C8315	2/5/96	0105
10	YSPK01A	N2V4939VS	C8300	2/4/96	1706
11	CLJ78S5003MS	JP2877VS	C8301	2/4/96	1738
12	CLJ78S5003MSD	JP2877VR	C8302	2/4/96	1809
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: OHM ANAL Dev Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CGJ78S001

Lab File ID: C8347 BFB Injection Date: 2/6/96

Instrument ID: MSC.i BFB Injection Time: 0913

GC Column: ~~DB624~~ DB624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	32.77
75	30.0 - 66.0% of mass 95	60.79
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.45
173	Less than 2.0% of mass 174	0.00 (0.00) 1
174	50.0 - 120.0% of mass 95	66.34
175	4.0 - 9.0 % of mass 174	5.16 (7.77) 1
176	93.0 - 101.0% of mass 174	62.75 (94.59) 1
177	5.0 - 9.0% of mass 176	4.60 (7.33) 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	VSTD050	C8348	2/6/96	0949
02	CGJ78S001MS	JP2875VS	C8351	"	1132
03	CGJ78S001MSD	JP2875VR	C8352	"	1205
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Shim Anal Div Contract: NFESC

Lab Code: N/A Case No.: 174/SW SAS No.: N/A SDG No.: CLJ78550O1

Lab-File ID (Standard): C8279 Date Analyzed: 2/3/96

Instrument ID: MSC.1 Time Analyzed: 1401

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR STD	148185	8.08	453355	9.41	437438	14.25
UPPER LIMIT	296370	8.58	906710	9.91	874876	14.75
LOWER LIMIT	74092	7.58	226677	8.91	218719	13.75
EPA SAMPLE NO.						
01 CLJ78550O1	155303	7.89	413231	9.22	427591	14.09
02 CLJ78550O3	141312	7.87	417291	9.22	401056	14.09
03 CLJ78550O4	161747	7.90	473681	9.27	443754	14.11
04 CLJ78550O5	128927	7.92	389457	9.29	363992	14.09
05 CLJ78550O6	129172	7.91	392031	9.27	380484	14.11
06 CLJ78550O6D	125900	7.90	383150	9.26	368247	14.11
07 VBLK01A	119520	7.80	359167	9.15	326085	14.01
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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 used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: OHM ANAL DIV Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78S500?

Lab File ID (Standard): C8297 Date Analyzed: 2/4/96

Instrument ID: MSC.1 Time Analyzed: 15:19

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	134406	7.90	529250	9.29	365430	14.03
	UPPER LIMIT	268812	8.40	1058500	9.79	730860	14.53
	LOWER LIMIT	67203	7.40	264625	8.79	182715	13.53
	EPA SAMPLE NO.						
01	CLJ-FB	143214	8.00	428104	9.35	410183	14.15
02	CLJ-RB	139204	8.02	489855	9.38	391601	14.14
03	CLJ-TB	132713	7.95	368001	9.29	385890	14.12
04	VBLK01B	134286	7.94	368547	9.28	366923	14.10
05	VSBK01B	127913	7.98	397855	9.34	345990	14.13
06	CLJ-FBMS	133607	8.02	467193	9.40	391548	14.17
07	CLJ-FBMSD	144842	8.01	437185	9.39	428649	14.17
08	VSPK01A	124352	7.78	336133	9.13	361931	13.95
09	CLJ78SS003MS	154155	7.82	458102	9.18	433900	13.99
10	CLJ78SS003MSD	160579	7.83	485730	9.18	459161	14.02
11	CLJ78SS002	156813	7.81	491126	9.22	469320	14.11
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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 used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: OLM. ANA / DIV Contract: NF65C

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ7855001

Lab File ID (Standard): C8333 Date Analyzed: 2/5/96

Instrument ID: MSC.1 Time Analyzed: 1825

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	310627	8.01	1005364	9.34	104985	14.16
	UPPER LIMIT	741254	8.51	2410728	9.84	2483970	14.66
	LOWER LIMIT	155314	7.51	602682	8.84	520992	13.66
	EPA SAMPLE NO.						
01	VBIK01C	429355	8.00	1452262	9.34	1262435	14.16
02	VBPK01C	394211	7.98	1242880	9.33	1114720	14.16
03	CLJ7855001	377262	8.01	1172181	9.35	910205	14.16
04	CLJ7855002	381393	7.98	1252840	9.31	1076280	14.14
05	CLJ7855004	351509	7.97	1088107	9.30	887499	14.12
06	CLJ7855006	316911	7.98	1040821	9.31	805279	14.12
07	CLJ7855006D	292140	7.95	901354	9.29	757692	14.10
08	CLJ7855003	279607	7.96	913689	9.29	720153	14.09
09	CLJ7855005	267301	7.97	868821	9.33	746004	14.10
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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 used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: OHM Anal Env Contract: NFESC

Lab Code: N/A Case No.: 17413N SAS No.: N/A SDG No.: CLI78500

Lab File ID (Standard): C8348 Date Analyzed: 2/6/96

Instrument ID: MSC.1 Time Analyzed: 0949

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	362469	7.93	1080604	9.26	905297	14.09
	UPPER LIMIT	724938	8.43	2161208	9.76	1810594	14.59
	LOWER LIMIT	181234	7.43	540302	8.76	452648	13.59
	EPA SAMPLE NO.						
01	CLI78500LMS	327613	7.94	999285	9.28	861452	14.08
02	CLI78500LMSD	346128	7.97	1008185	9.30	833535	14.11
03							
04							
05							
06							
07							
08							
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12							
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14							
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20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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 used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

0025 EPA SAMPLE NO.

CLJ78SS001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2875V

Sample wt/vol: ~~2.61~~ 5.22 (g/mL) G Lab File ID: C8285

Level: (low/med) ~~LOW~~ MED Date Received: 02/02/96

% Moisture: not dec. 17 Date Analyzed: 02/03/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume: ~~5000~~ 10000 (uL) Soil Aliquot Volume: ~~5000~~ 200 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethylene	1300	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0026 EPA SAMPLE NO.

CLJ78SS001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2875V

Sample wt/vol: ~~2.61~~ 5.22 ~~AB~~ (g/mL) G Lab File ID: C8285

Level: (low/med) ~~LOW~~ Low MED Date Received: 02/02/96

% Moisture: not dec. 17 Date Analyzed: 02/03/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume: ~~5000~~ 10000 ~~AB~~ (uL) Soil Aliquot Volume: ~~5000~~ 200 ~~AB~~ (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

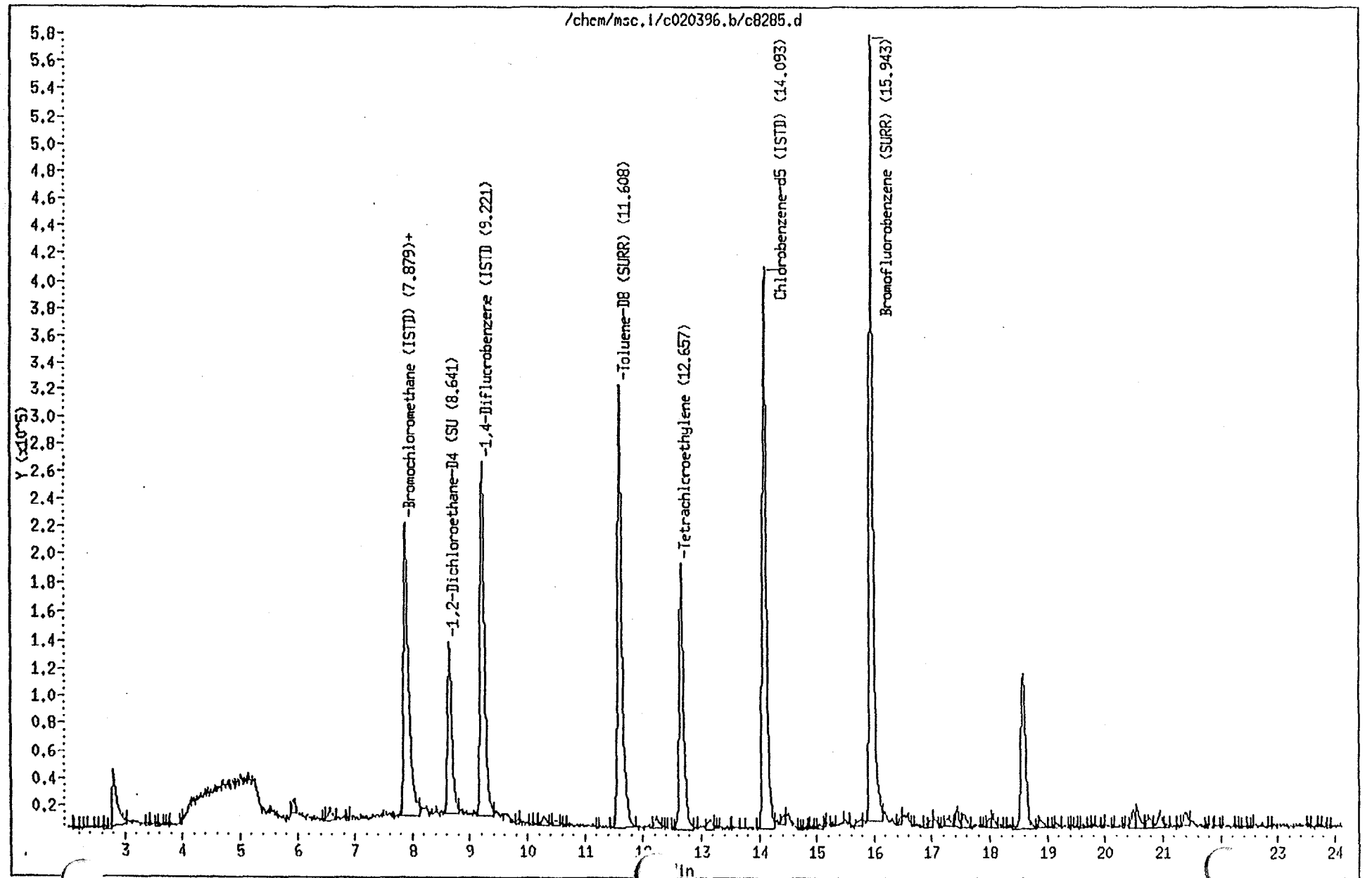
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0027

Data File: /chem/msc.i/c020396.b/c8285.d
Date : 03-FEB-96 10:13
Client ID: 17418n clj7822001
Sample Info: 17418n clj7822001 (14)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c020396.b/c8285.d
Report Date: 04-Feb-1996 14:32

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c020396.b/c8285.d
Lab Smp Id:
Client Smp ID: 17418n clj7822001
Inj Date : 03-FEB-96 18:13
Operator : jk
Inst ID: msc.i
Smp Info : 17418n clj7822001 (14)
Misc Info : jp2875v,n2v4939,m2,5000,25,2.61,5.0,960203,
Comment :
Method : /chem/msc.i/c020396.b/020396_ambic.m
Meth Date : 04-Feb-1996 13:54
Quant Type: ISTD
Cal Date : 03-FEB-96 14:01
Cal File: c8279.d
Als bottle: 14
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	
	2 Bromochloromethane (ISTD)	128.00	7.888	7.923	(1.000)	155303	50.0		(QM)
S	27 1,2-Dichloroethane-D4 (SURR)	65.00	8.641	8.687	(1.000)	222004	36.8	36.8	
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.221	9.268	(1.000)	413231	50.0		
S	38 Toluene-D8 (SURR)	98.00	11.600	11.630	(0.823)	477672	45.2	45.2	
	42 Tetrachloroethylene	164.00	12.665	12.666	(0.899)	117614	22.4	22.4	
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.093	14.083	(1.000)	427591	50.0		
S	56 Bromofluorobenzene (SURR)	95.00	15.943	15.934	(1.131)	527573	50.0	50.0	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem/msc.i/c020396.b/c8285.d

Date : 03-FEB-96 18:13

Client ID: 17418n clj7822001

Instrument: msc.i

Sample Info: 17418n clj7822001 (14)

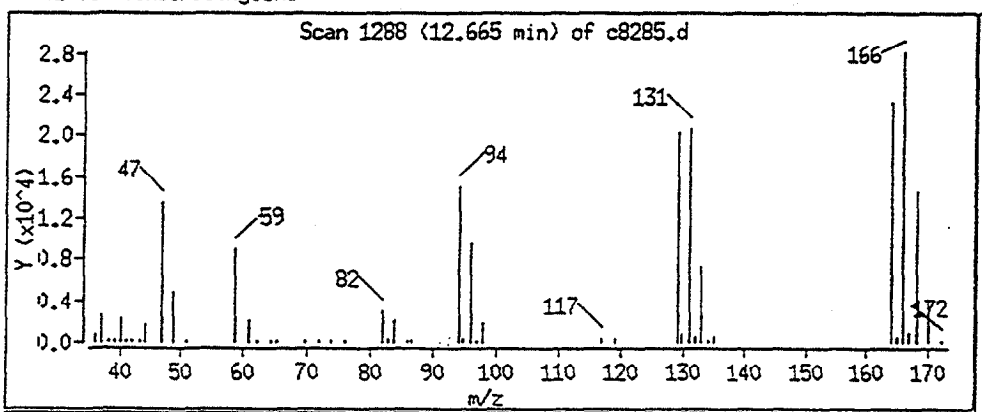
Purge Volume: 1.0

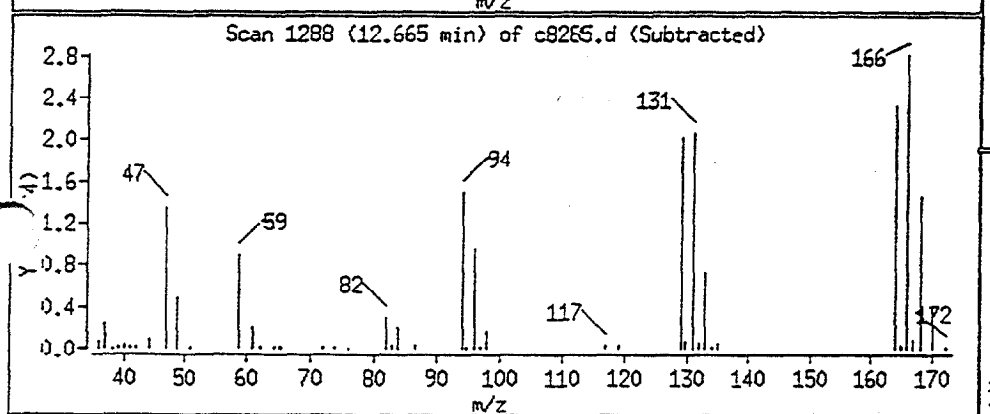
Operator: jk

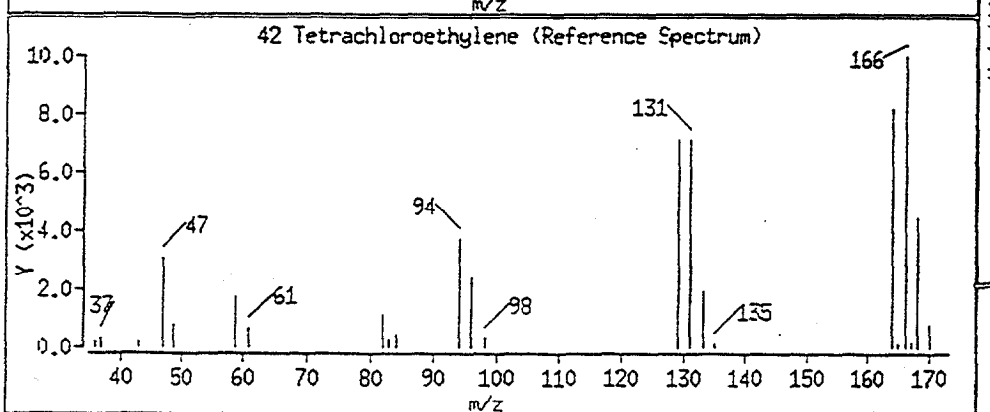
Column phase: J&W DB_624

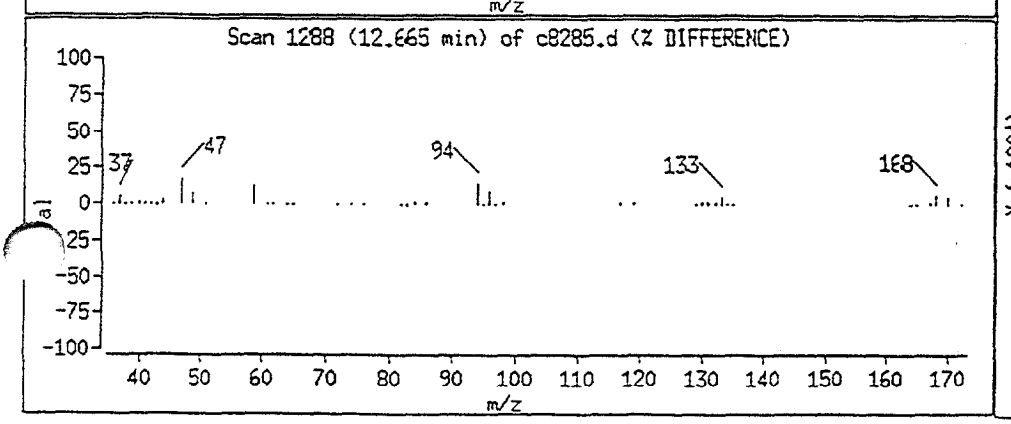
Column diameter: 0.53

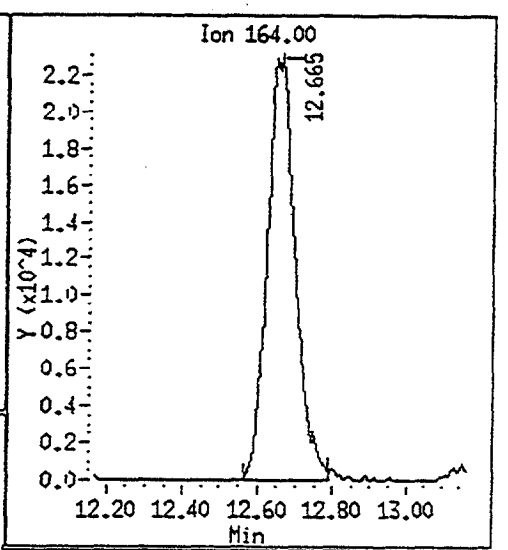
42 Tetrachloroethylene

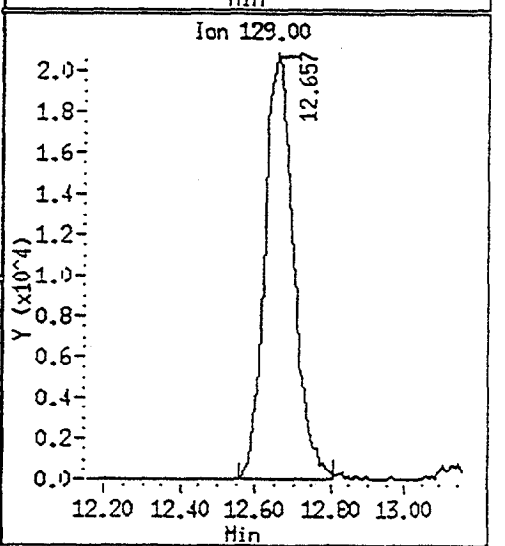


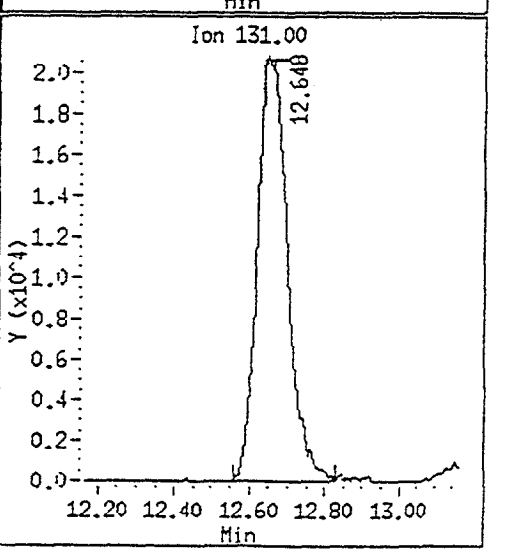












1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

0030 EPA SAMPLE NO.

CLJ78SS001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2875V

Sample wt/vol: 1.10 (g/mL) G Lab File ID: C8338

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. 17 Date Analyzed: 02/05/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	27	U
74-83-9	Bromomethane	27	U
75-01-4	Vinyl Chloride	27	U
75-00-3	Chloroethane	27	U
75-09-2	Methylene Chloride	27	U
67-64-1	Acetone	55	U
75-15-0	Carbon Disulfide	27	U
75-35-4	1,1-Dichloroethene	27	U
75-34-3	1,1-Dichloroethane	27	U
540-59-0	1,2-Dichloroethene (total)	27	U
67-66-3	Chloroform	27	U
107-06-2	1,2-Dichloroethane	27	U
78-93-3	2-Butanone	27	U
71-55-6	1,1,1-Trichloroethane	27	U
56-23-5	Carbon Tetrachloride	27	U
75-27-4	Bromodichloromethane	27	U
78-87-5	1,2-Dichloropropane	27	U
10061-01-5	cis-1,3-Dichloropropene	27	U
79-01-6	Trichloroethene	20	J
124-48-1	Dibromochloromethane	27	U
79-00-5	1,1,2-Trichloroethane	27	U
71-43-2	Benzene	27	U
10061-02-6	trans-1,3-Dichloropropene	27	U
75-25-2	Bromoform	27	U
108-10-1	Methyl-iso-butyl ketone	55	U
591-78-6	2-Hexanone	27	U
79-34-5	1,1,2,2-Tetrachloroethane	27	U
108-88-3	Toluene	27	U
108-90-7	Chlorobenzene	27	U
100-41-4	Ethylbenzene	27	U
100-42-5	Styrene	27	U
1330-20-7	Xylene (total)	27	U
156-60-5	1,2-Trans-dichloroethylene	27	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0031 EPA SAMPLE NO.

CLJ78SS001

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2875V

Sample wt/vol: 1.10 (g/mL) G Lab File ID: C8338

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. 17 Date Analyzed: 02/05/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

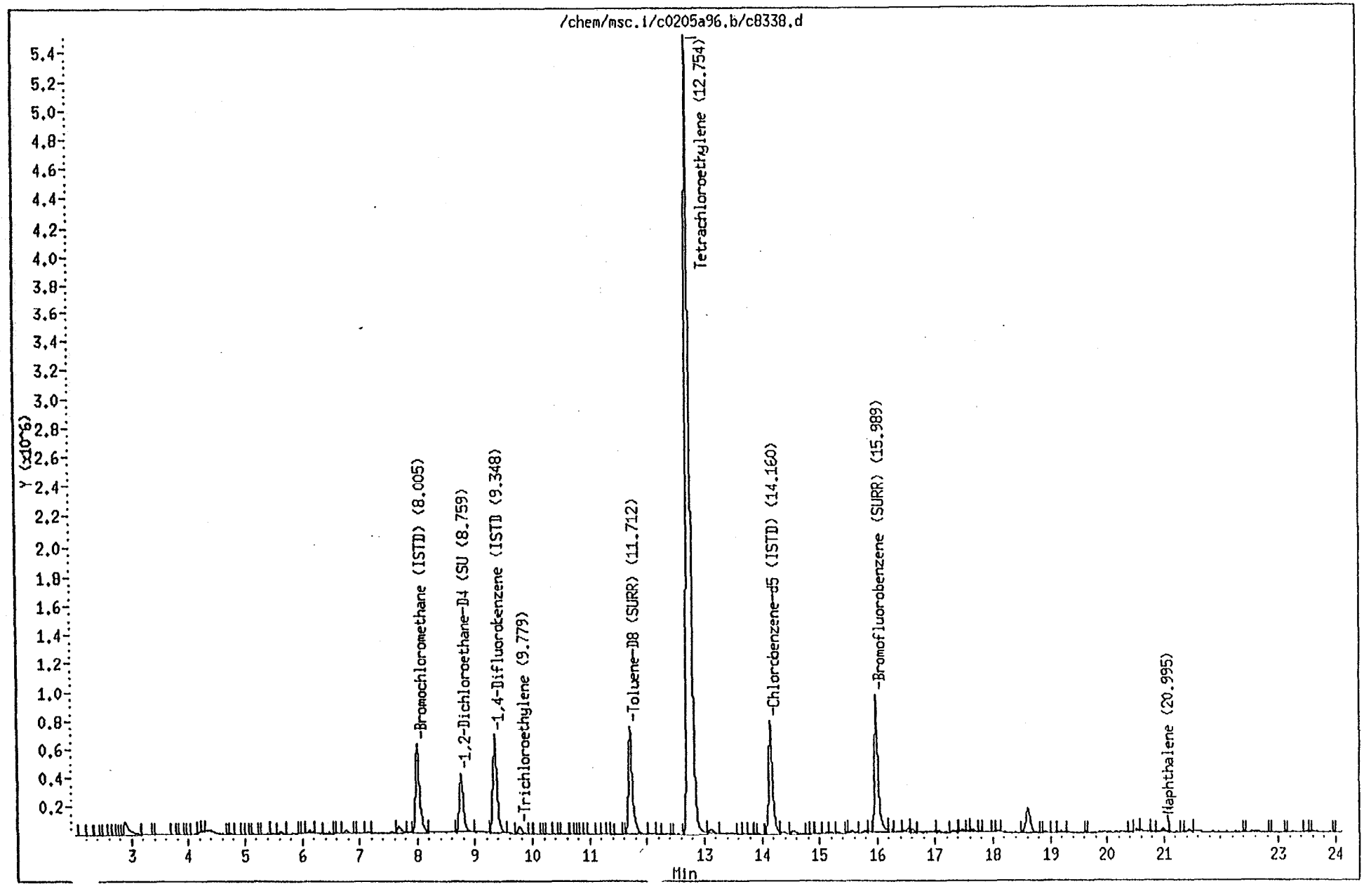
Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: /chem/msc.i/c0205a96.b/c8338.d
Date : 05-FEB-96 21:06
Client ID: 17418n clj78ss001
Sample Info: 17418n clj78ss001
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c0205a96.b/c8338.d
Report Date: 06-Feb-1996 08:31

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 & Screen

Data file : /chem/msc.i/c0205a96.b/c8338.d
Lab Smp Id: Client Smp ID: 17418n clj78ss001
Inj Date : 05-FEB-96 21:06
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj78ss001
Misc Info : jp2875v,n2v4947,m2,5000,1,1.10,5.0,960205
Comment :
Method : /chem/msc.i/c0205a96.b/020596_heatc.m
Meth Date : 06-Feb-1996 08:27 glenn Quant Type: ISTD
Cal Date : 05-FEB-96 18:25 Cal File: c8333.d
Als bottle: 10
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

JMK 2/6/96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
*	22 Bromochloromethane (ISTD)	128.00	8.005	7.937	(1.000)	377262	50.0	
$	27 1,2-Dichloroethane-D4 (SURR)	65.00	8.759	8.708	(1.094)	657821	42.5	42.5
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.348	9.280	(1.000)	1172181	50.0	
	31 Trichloroethylene	130.00	9.779	9.703	(1.046)	37934	3.66	3.66
$	38 Toluene-D8 (SURR)	98.00	11.712	11.637	(0.827)	1137716	52.7	52.7
	42 Tetrachloroethylene	164.00	12.754	12.670	(0.901)	3386006	325	~~325 (A)~~
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.160	14.092	(1.000)	910205	50.0	
$	56 Bromofluorobenzene (SURR)	95.00	15.989	15.938	(1.129)	809707	47.4	47.4
	75 Naphthalene	128.00	20.987	20.923	(1.482)	45379	1.02	1.02

QC Flag Legend

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

Data File: /chem/msc.i/c0205a96.b/c8338.d

Date : 05-FEB-96 21:06

Client ID: 17418n clj78ss001

Instrument: msc.i

Sample Info: 17418n clj78ss001

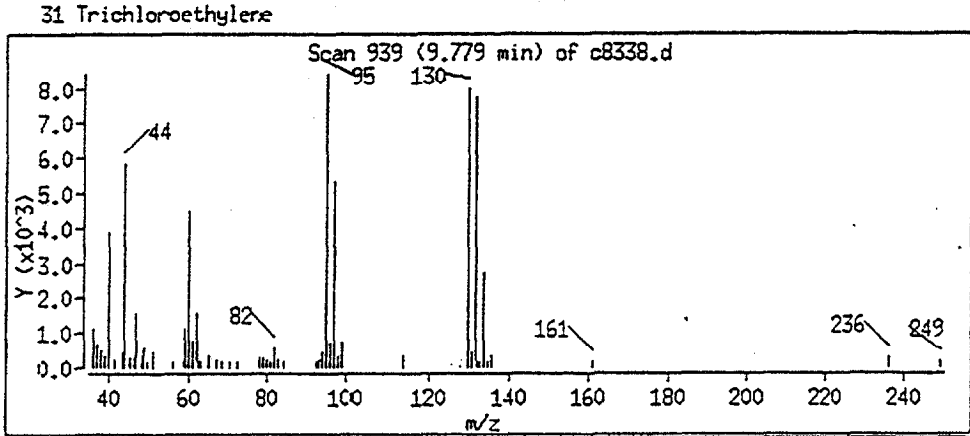
Purge Volume: 1.0

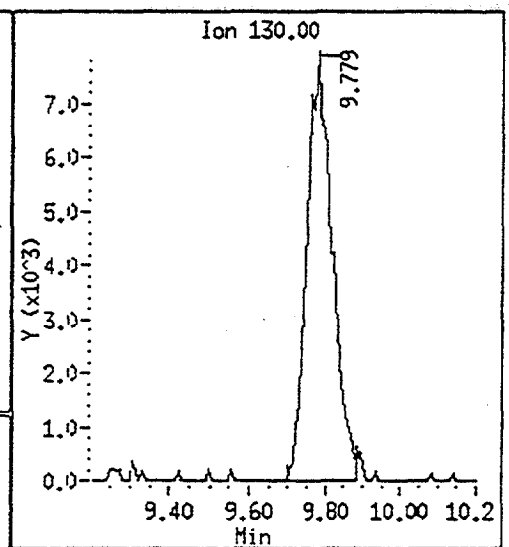
Operator: jk

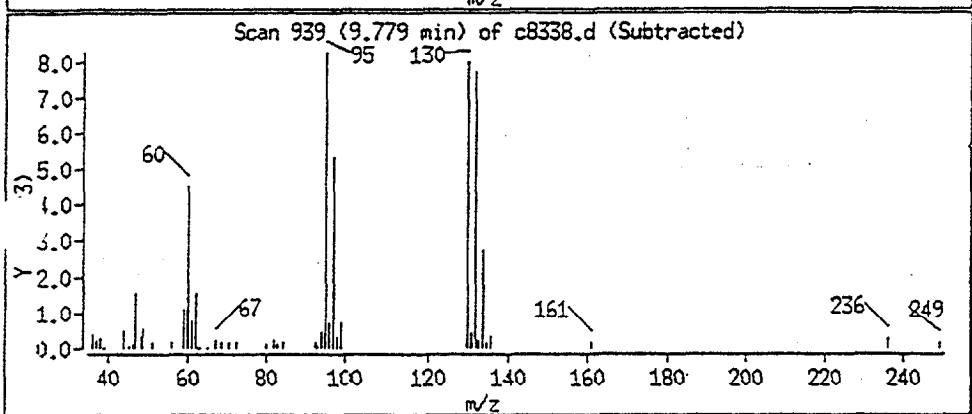
Column phase: J&W DB_624

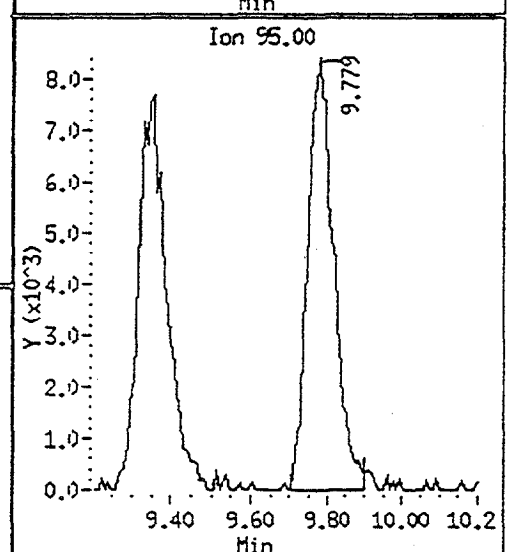
Column diameter: 0.53

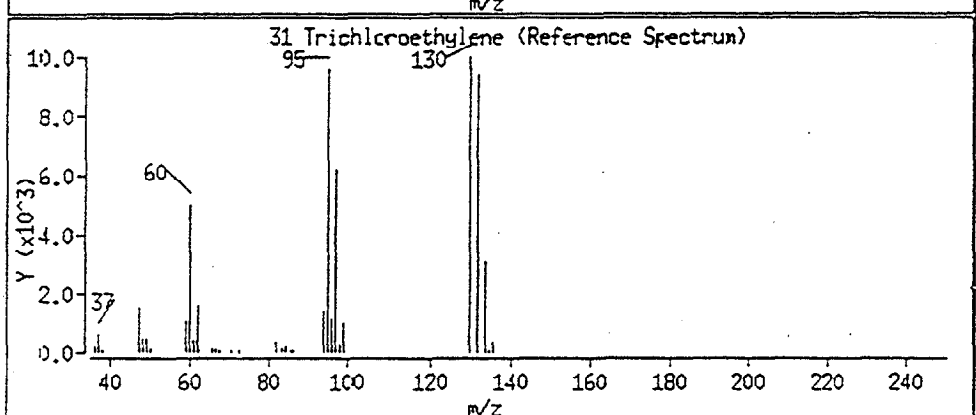
31 Trichloroethylene

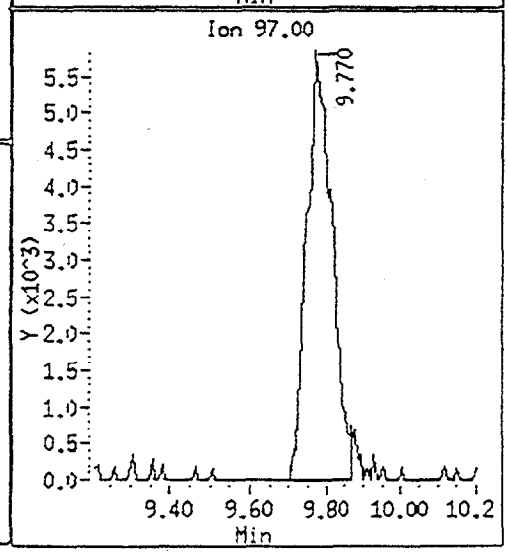


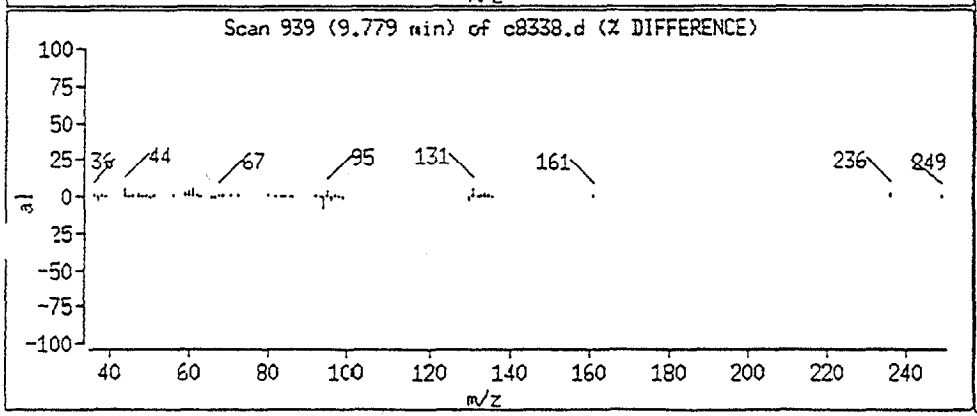












1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

0035 EPA SAMPLE NO.

CLJ78SS002

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2876V

Sample wt/vol: ~~2.66~~ 5.25 (g/mL) G Lab File ID: C8315

Level: (low/med) ~~LOW~~ la MED Date Received: 02/02/96

% Moisture: not dec. 22 Date Analyzed: 02/05/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 12.5

Soil Extract Volume: ~~5000~~ 10000 (uL) Soil Aliquot Volume: ~~5000~~ 400 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethylene	230	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0036 EPA SAMPLE NO.

CLJ78SS002

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2876V

Sample wt/vol: ~~2.66 AS~~ 5.25 (g/mL) G Lab File ID: C8315

Level: (low/med) ~~LOW~~ la MED Date Received: 02/02/96

% Moisture: not dec. 22 Date Analyzed: 02/05/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 12.5

Soil Extract Volume: ~~5000 AS~~ 10000 (uL) Soil Aliquot Volume: ~~5000 AS~~ 400 (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

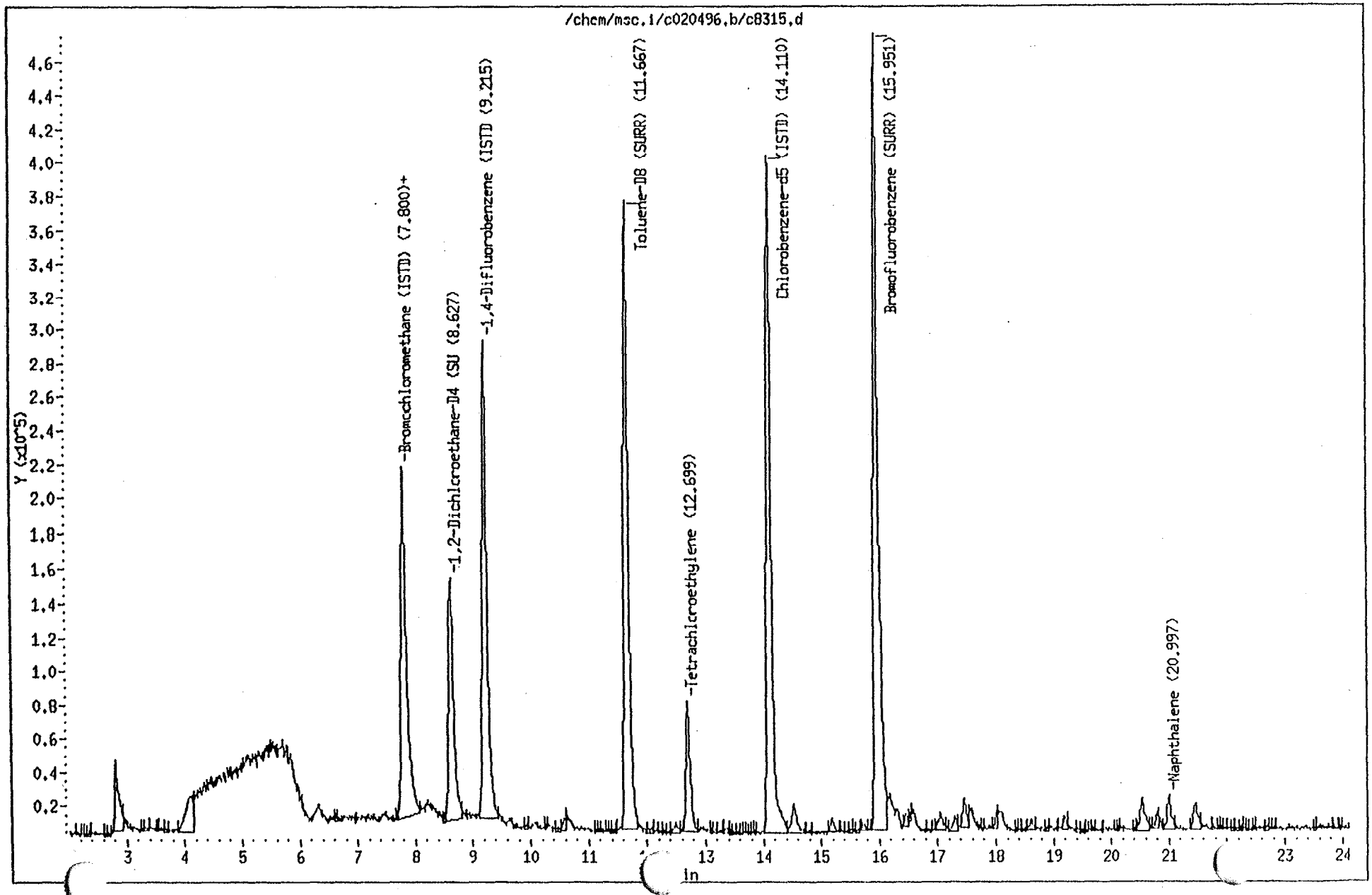
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0037

Data File: /chem/msc.i/c020496.b/c8315.d
Date : 05-FEB-96 01:05
Client ID: 17418n clj78ss002
Sample Info: 17418n clj78ss002 400ul/5ml (10)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 + Screen

Data file : /chem/msc.i/c020496.b/c8315.d
Lab Smp Id: Client Smp ID: 17418n clj78ss002
Inj Date : 05-FEB-96 01:05
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj78ss002 400ul/5ml (10)
Misc Info : jp2876v,n2v4939,m2,5000,12.5,2.66,5.0,960203
Comment :
Method : /chem/msc.i/c020496.b/020396_ambic.m
Meth Date : 05-Feb-1996 07:34 glenn Quant Type: ISTD
Cal Date : 04-FEB-96 15:19 Cal File: c8297.d
Als bottle: 10
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 2/5/96

+ 5490

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	2 Bromochloromethane (ISTD)	128.00	7.808	7.902	(1.000)	156813	50.0	(QM)
S	27 1,2-Dichloroethane-D4 (SURR)	65.00	8.619	8.673	(1.000)	283938	46.9	46.9
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.223	9.285	(1.000)	491126	50.0	
S	38 Toluene-D8 (SURR)	98.00	11.659	11.599	(0.826)	575384	47.8	47.8
	42 Tetrachloroethylene	164.00	12.699	12.624	(0.900)	43768	7.71	7.71 (QM)
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.110	14.029	(1.000)	469320	50.0	
S	56 Bromofluorobenzene (SURR)	95.00	15.959	15.883	(1.131)	550993	46.1	46.1
	75 Naphthalene	128.00	20.988	20.818	(1.487)	38841	2.10	2.10

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem/msc.i/c020496.b/c8315.d

Date : 05-FEB-96 01:05

Client ID: 17418n clj78ss002

Instrument: msc.i

Sample Info: 17418n clj78ss002 400ul/5ml (10)

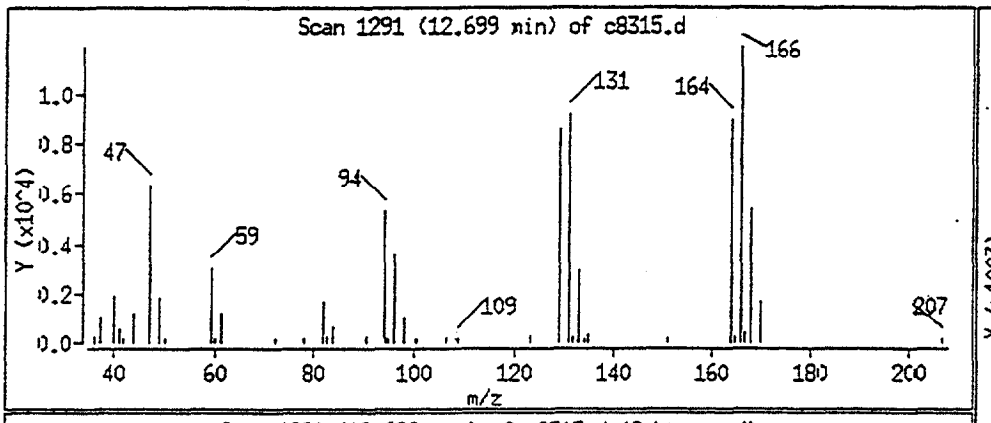
Purge Volume: 1.0

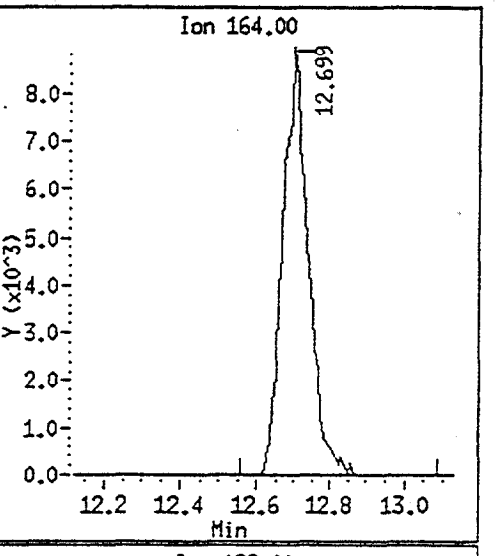
Operator: jk

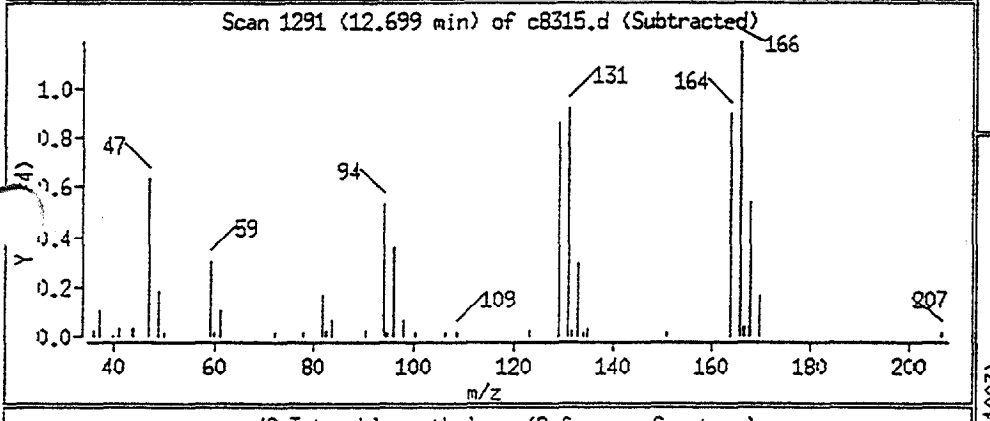
Column phase: J&W DB_624

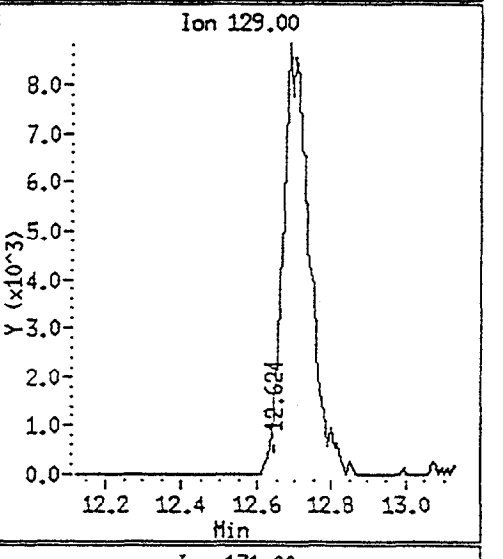
Column diameter: 0.53

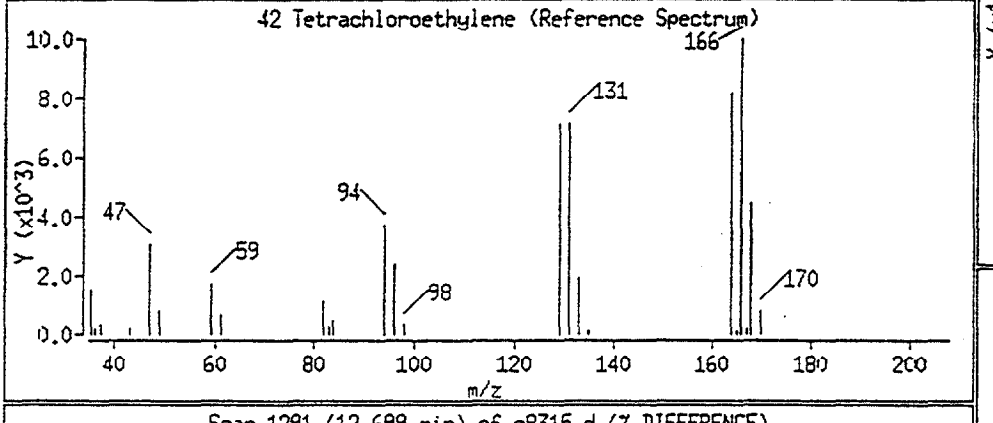
42 Tetrachloroethylene

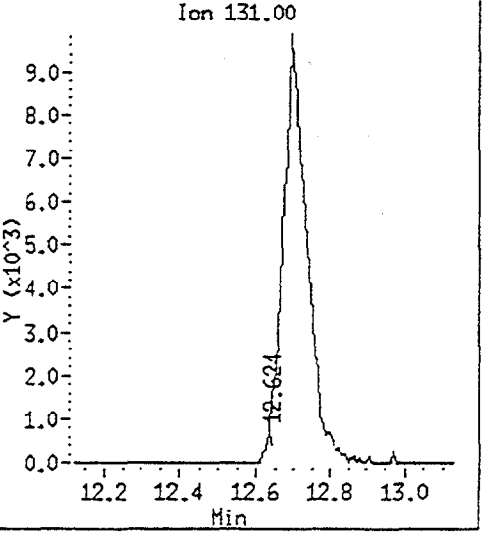


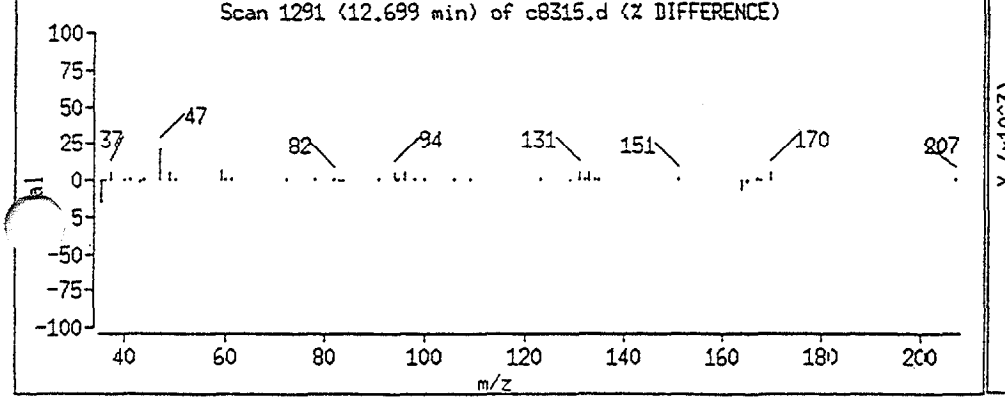












1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

0040 EPA SAMPLE NO.

CLJ78SS002

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2876V

Sample wt/vol: 2.68 (g/mL) G Lab File ID: C8339

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. 22 Date Analyzed: 02/05/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	19	J
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	24	
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	Methyl-iso-butyl ketone	24	U
591-78-6	2-Hexanone	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U
156-60-5	1,2-Trans-dichloroethylene	12	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0041 EPA SAMPLE NO.

CLJ78SS002

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2876V

Sample wt/vol: 2.68 (g/mL) G Lab File ID: C8339

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. 22 Date Analyzed: 02/05/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

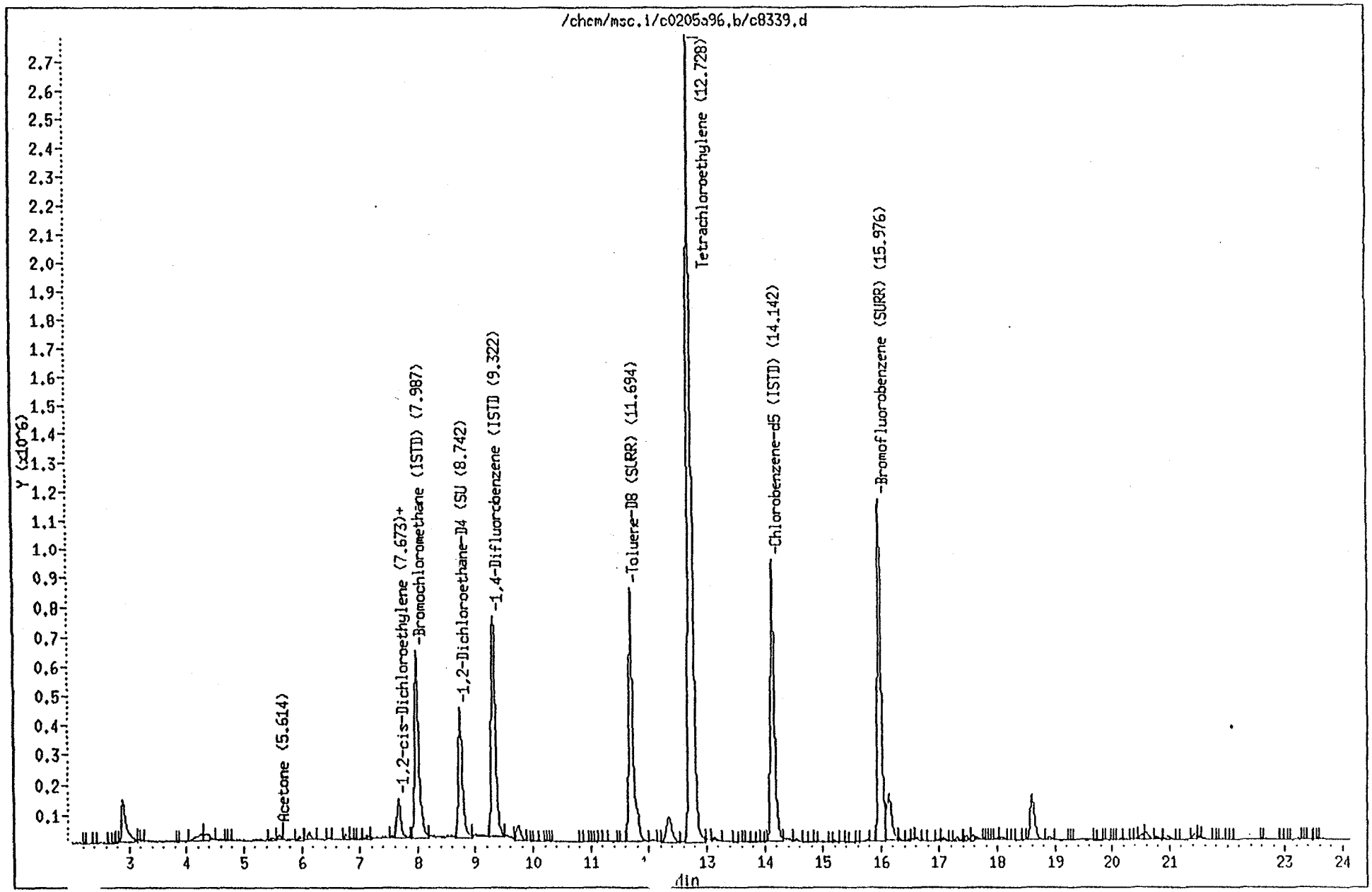
Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unk organic acid	12.35	16	J
2.		unknown	16.13	28	J

0042

Data File: /chem/msc.i/c0205a96.b/c8339.d
Date : 05-FEB-96 21:39
Client ID: 17418n clj78ss002
Sample Info: 17418n clj78ss002
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c0205a96.b/c8339.d
Report Date: 06-Feb-1996 10:46

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 + Screen

Data file : /chem/msc.i/c0205a96.b/c8339.d
Lab Smp Id: Client Smp ID: 17418n clj78ss002
Inj Date : 05-FEB-96 21:39
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj78ss002
Misc Info : jp2876v,n2v4947,m2,5000,1,2.68,5.0,960205
Comment :
Method : /chem/msc.i/c0205a96.b/020596_heatc.m
Meth Date : 06-Feb-1996 09:01 glenn Quant Type: ISTD
Cal Date : 05-FEB-96 18:25 Cal File: c8333.d
Als bottle: 11
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MP 2/6/96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	1 Acetone	43.00	5.614	5.564	(0.704)	53388	7.84	7.84
	18 1,2-cis-Dichloroethylene	96.00	7.673	7.622	(0.962)	108516	10.2	10.2 (QM)
*	22 Bromochloromethane (ISTD)	128.00	7.979	7.937	(1.000)	381393	50.0	
S	27 1,2-Dichloroethane-D4 (SURR)	65.00	8.742	8.708	(1.096)	704831	45.0	45.0
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.314	9.280	(1.000)	1252840	50.0	
S	38 Toluene-D8 (SURR)	98.00	11.694	11.637	(0.827)	1248739	49.2	49.2
	42 Tetrachloroethylene	164.00	12.728	12.670	(0.900)	1665239	136	~~136~~
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.142	14.092	(1.000)	1070280	50.0	
S	56 Bromofluorobenzene (SURR)	95.00	15.976	15.938	(1.130)	974100	48.5	48.5

See W204935

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem/msc.i/c0205a96.b/c8339.d

Date : 05-FEB-96 21:39

Client ID: 17418n clj78ss002

Instrument: msc.i

Sample Info: 17418n clj78ss002

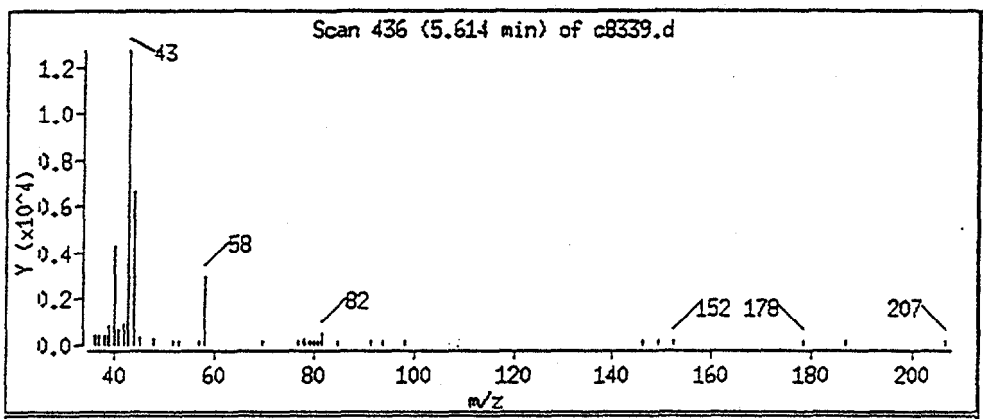
Purge Volume: 1.0

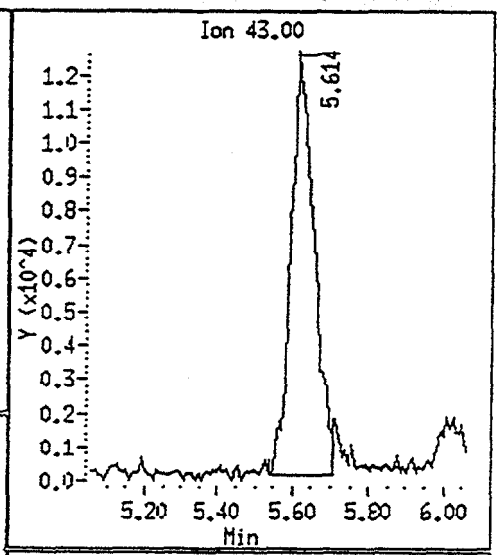
Operator: jk

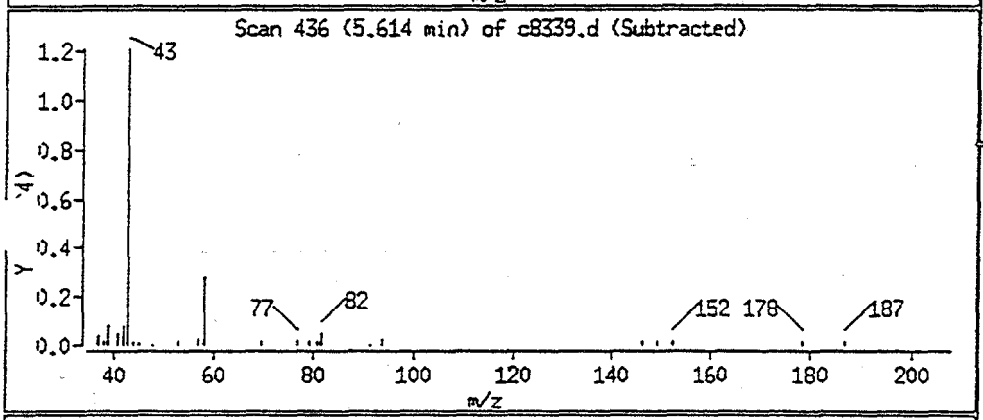
Column phase: J&W DB_624

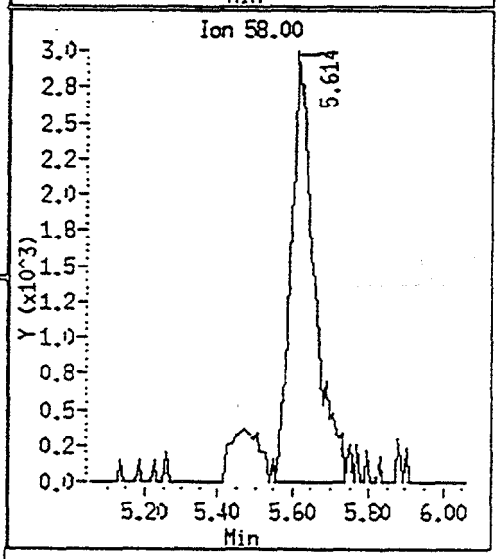
Column diameter: 0.53

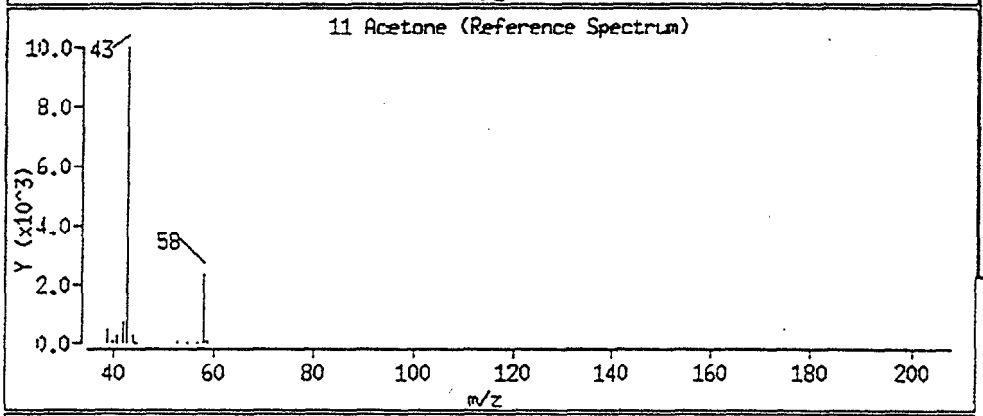
11 Acetone

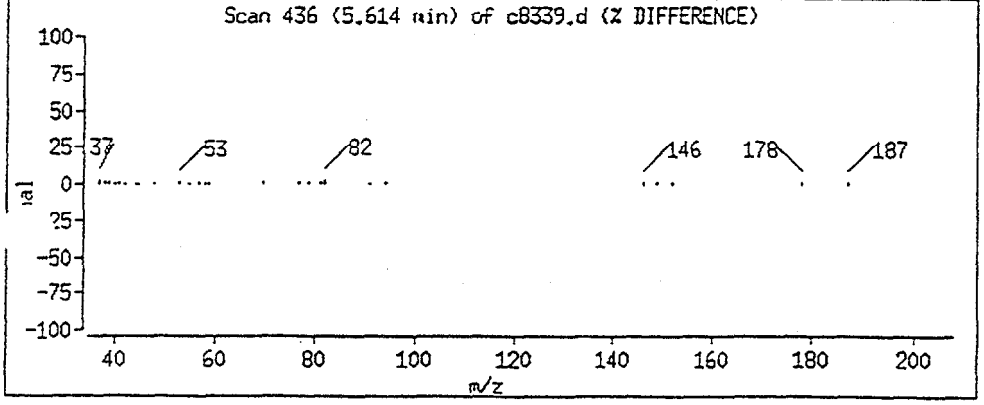






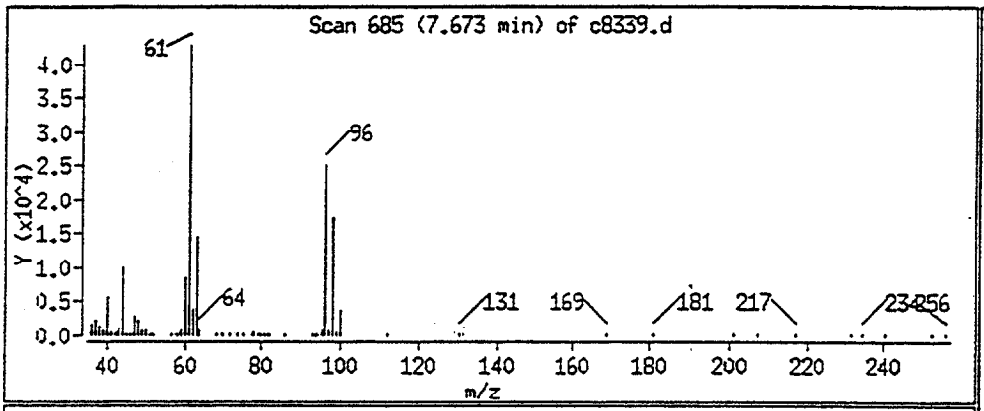


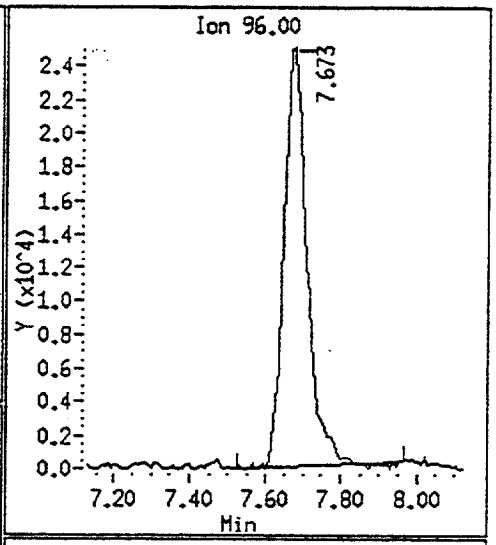


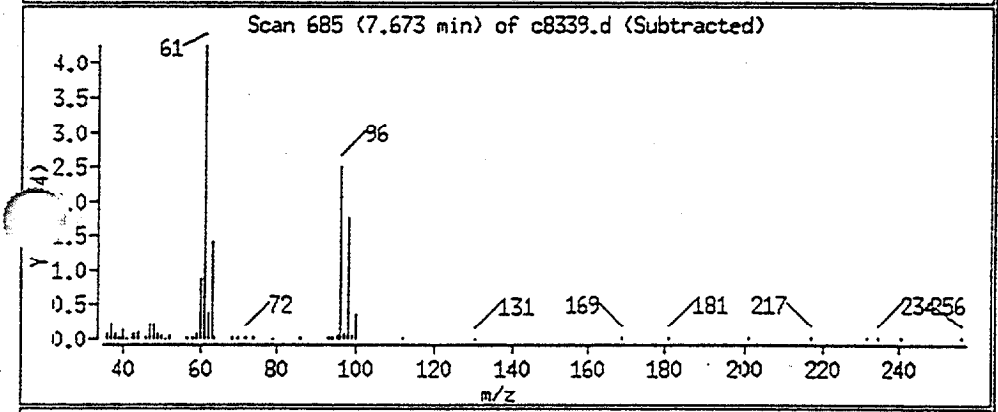


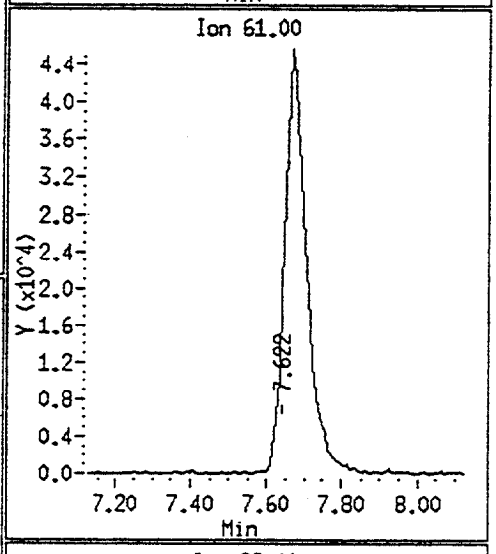
Data File: /chem/msc.i/c0205a96.b/c8339.d
Date : 05-FEB-96 21:39
Client ID: 17418n clj78ss002 Instrument: msc.i
Sample Info: 17418n clj78ss002
Purge Volume: 1.0 Operator: jk
Column phase: J&W DB_624 Column diameter: 0.53

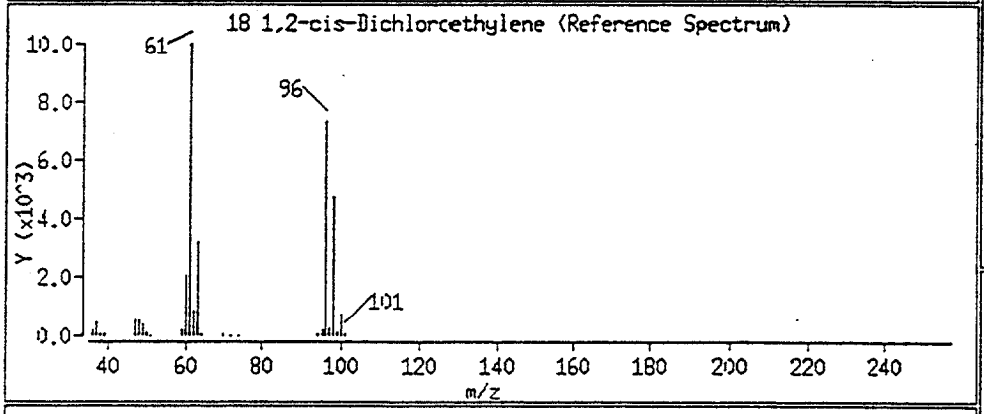
18 1,2-cis-Dichlorcethylene

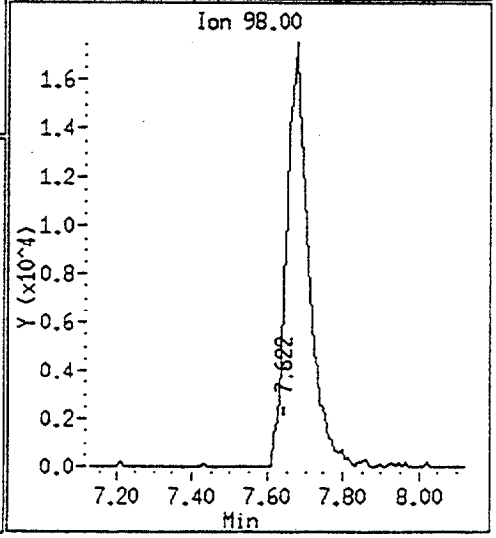


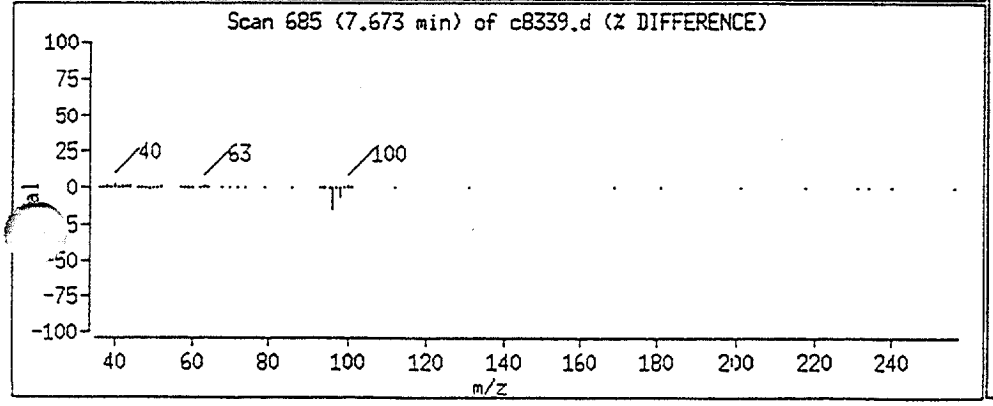












Data File: /chem/msc.i/c0205a96.b/c8339.d

Date : 05-FEB-96 21:39

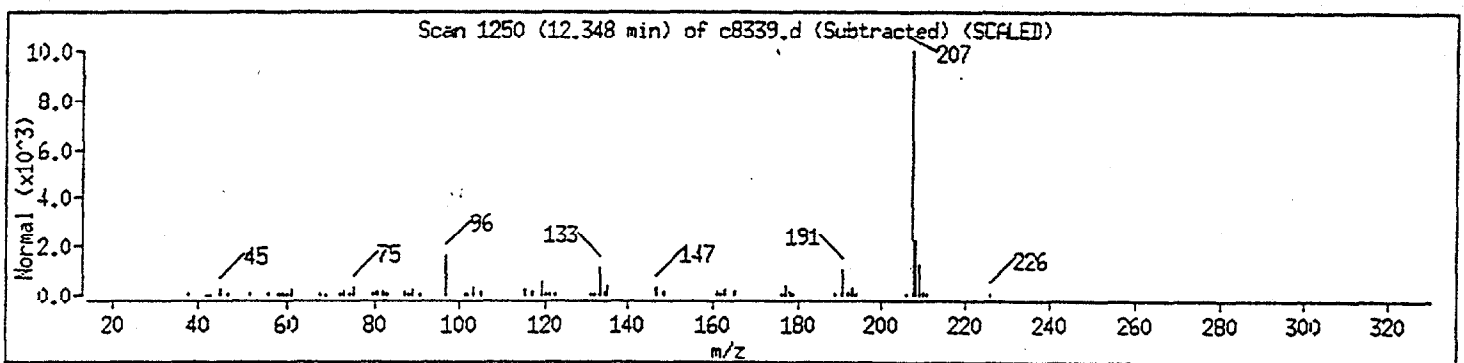
Client ID: 17418n clj78ss002 Instrument: msc.i

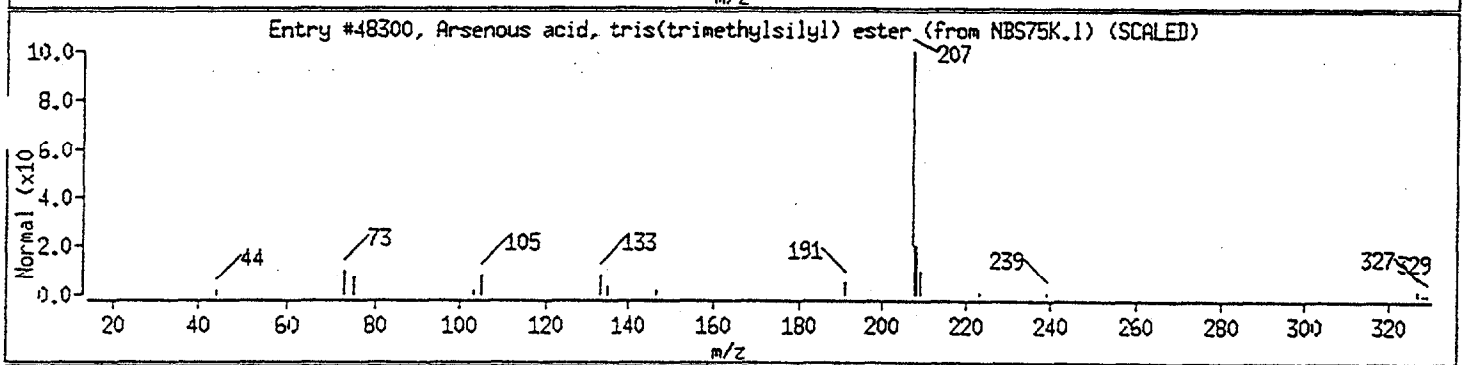
Sample Info: 17418n clj78ss002

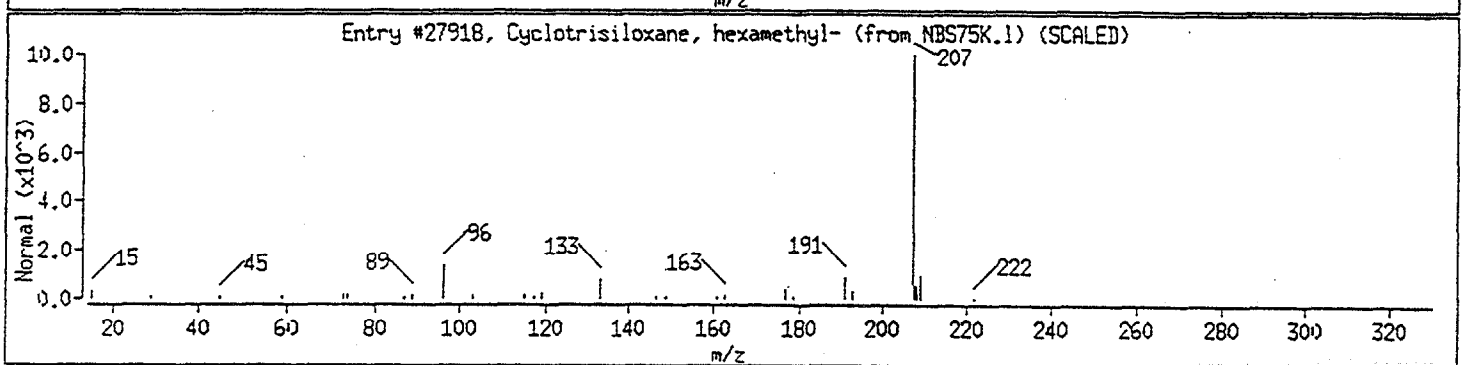
Purge Volume: 1.0 Operator: jk

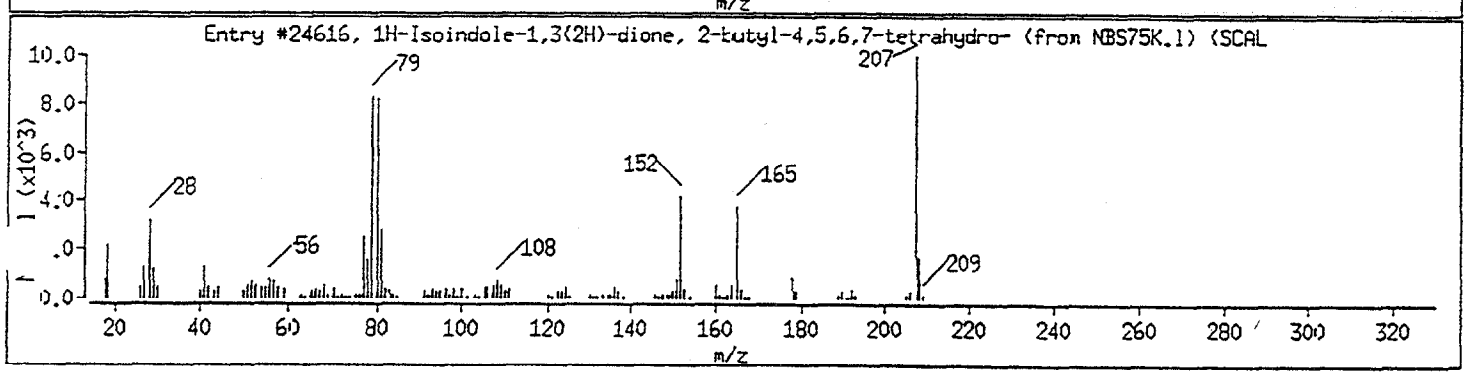
Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Arsenous acid, tris(trimethylsilyl) este	55429-29-3	NBS75K.l	48300	72	C9H27AsO3Si3	342
Cyclotrisiloxane, hexamethyl-	541-05-9	NBS75K.l	27918	64	C6H18O3Si3	222
1H-Isoindole-1,3(2H)-dione, 2-butyl-4,5,	54934-85-9	NBS75K.l	24616	38	C12H17NO2	207









Data File: /chem/msc.i/c0205a96.b/c8339.d

Date : 05-FEB-96 21:39

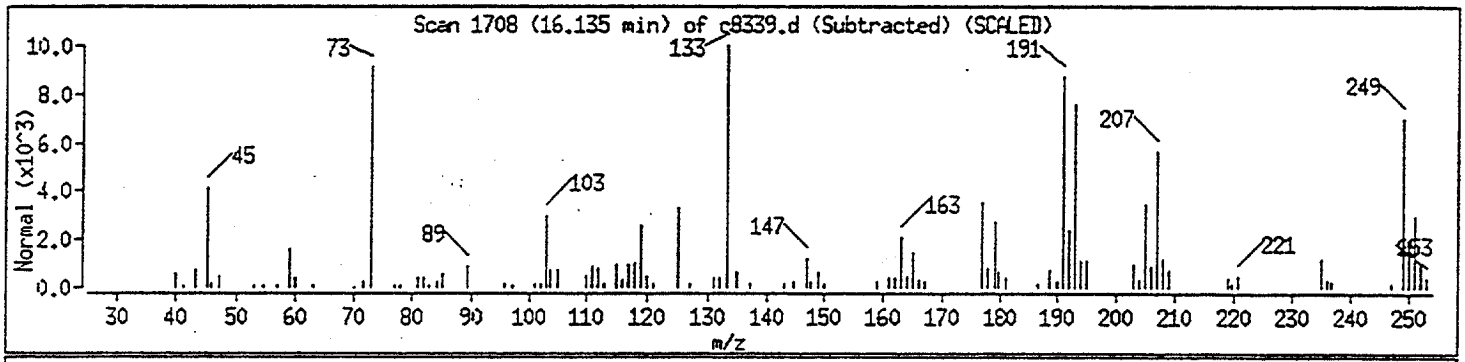
Client ID: 17418n clj78ss002 Instrument: msc.i

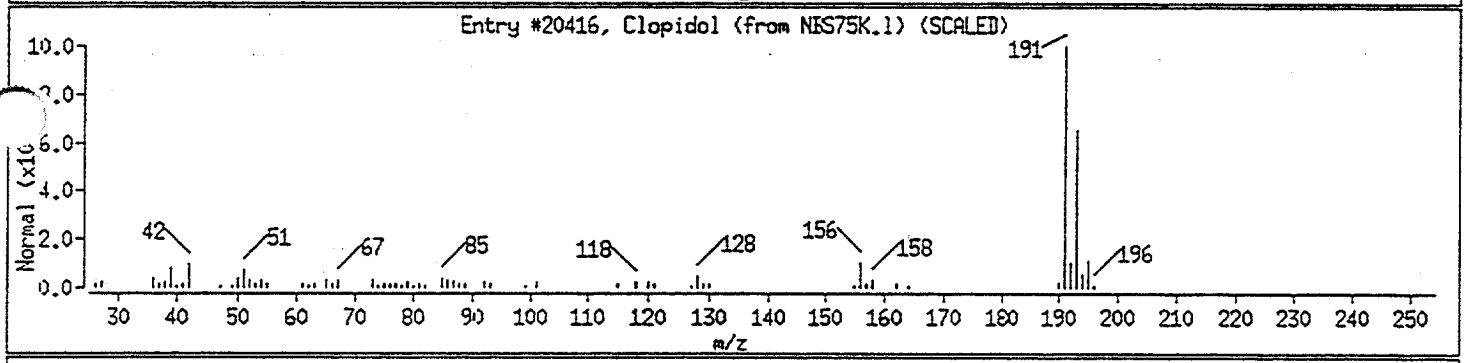
Sample Info: 17418n clj78ss002

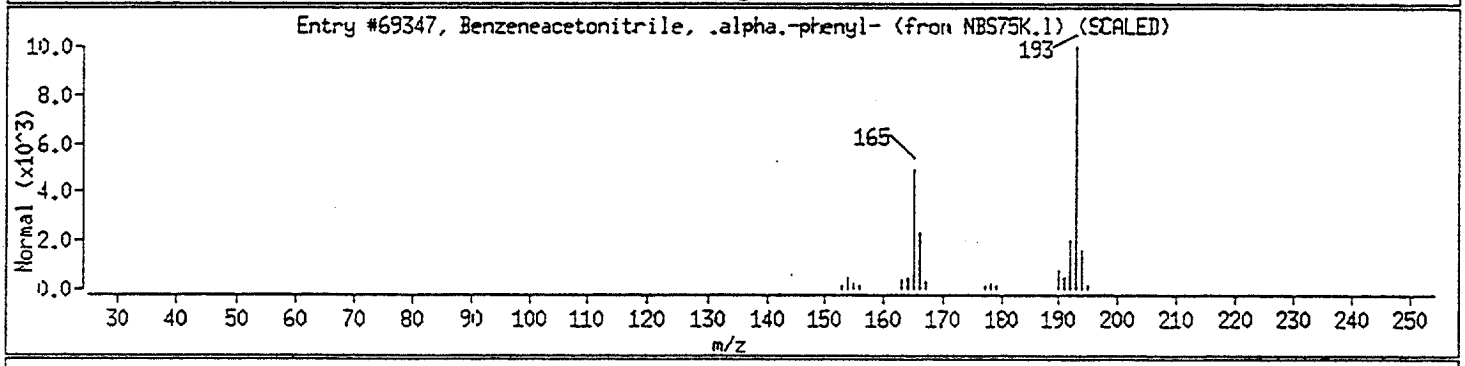
Purge Volume: 1.0 Operator: jk

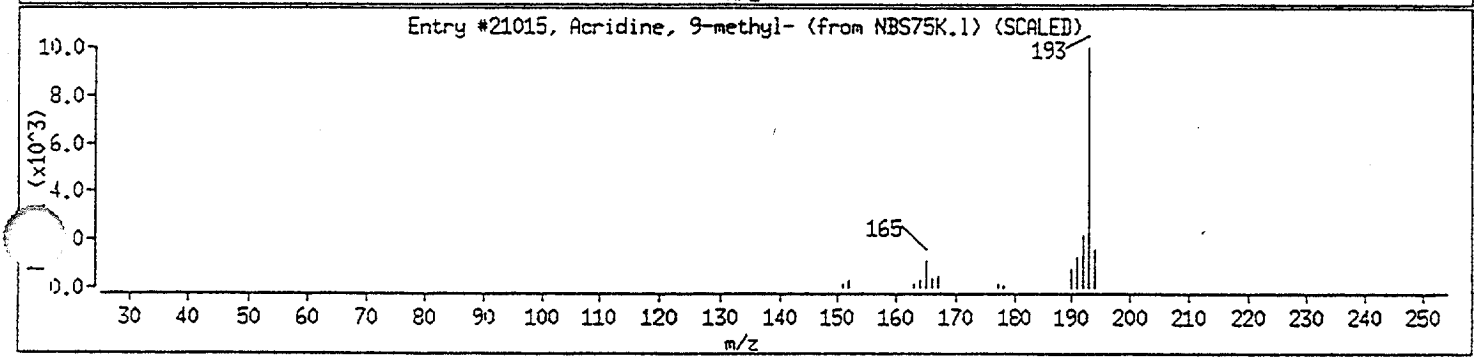
Column phase: J&W DB_624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Clopidol	2971-90-6	NBS75K.l	20416	27	C7H7C12NO	191
Benzeneacetonitrile, .alpha.-phenyl-	86-29-3	NBS75K.l	69347	14	C14H11N	193
Acridine, 9-methyl-	611-64-3	NBS75K.l	21015	14	C14H11N	193









1A

VOLATILE ORGANICS ANALYSIS DATA SHEET. 0048

EPA SAMPLE NO.

CLJ78SS003

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2877V

Sample wt/vol: ~~2.68~~ 5.32 (g/mL) G Lab File ID: C8287

Level: (low/med) ~~LOW~~ MED Date Received: 02/02/96

% Moisture: not dec. 16 Date Analyzed: 02/03/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume: ~~5000~~ 10000 (uL) Soil Aliquot Volume: ~~5000~~ 200 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethylene	4600	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0049 EPA SAMPLE NO.

CLJ78SS003

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2877V

Sample wt/vol: ~~2.66~~ 5.32 (g/mL) G Lab File ID: C8287

Level: (low/med) ~~LOW~~ MED Date Received: 02/02/96

% Moisture: not dec. 16 Date Analyzed: 02/03/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume: ~~5000~~ 10000 (uL) Soil Aliquot Volume: ~~5000~~ 200 (uL)

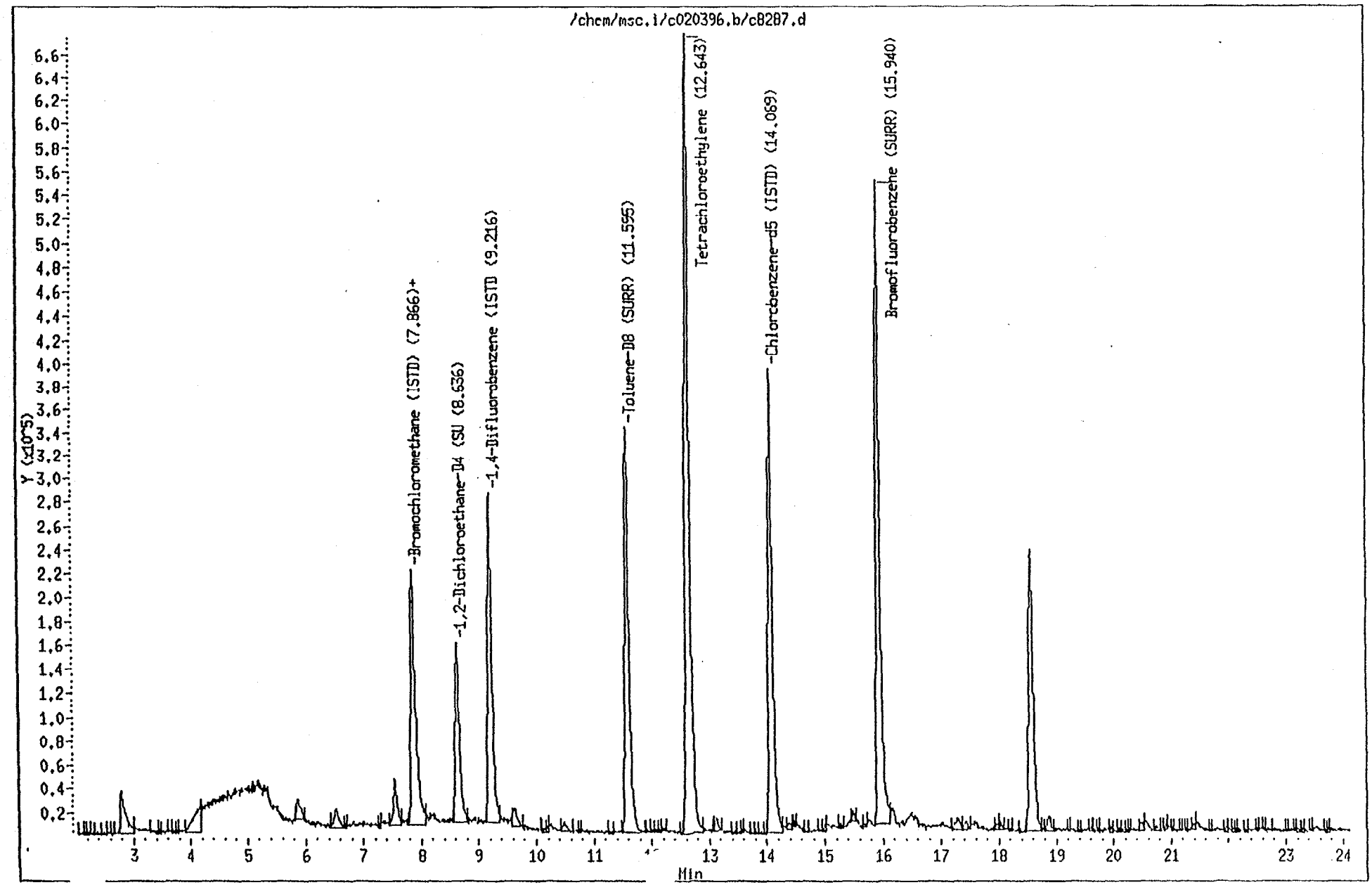
Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0050

Data File: /chem/msc.i/c020396.b/c8287.d
Date : 03-FEB-96 19:18
Client ID: 17418n clj7822003
Sample Info: 17418n clj7822003 (16)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c020396.b/c8287.d
Report Date: 04-Feb-1996 14:48

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 + Screen

Data file : /chem/msc.i/c020396.b/c8287.d
Lab Smp Id: Client Smp ID: 17418n clj7822003
Inj Date : 03-FEB-96 19:18
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj7822003 (16)
Misc Info : jp2877v,n2v4939,m2,5000,25,2.66,5.0,960203,
Comment :
Method : /chem/msc.i/c020396.b/020396_ambic.m
Meth Date : 04-Feb-1996 13:54 Quant Type: ISTD
Cal Date : 03-FEB-96 14:01 Cal File: c8279.d
Als bottle: 16
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

mk 2/4/96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	3 1,2-cis-Dichloroethylene	96.00	7.552	7.608	(0.959)	29493	7.49	7.49 (QM)
*	22 Bromochloromethane (ISTD)	128.00	7.874	7.923	(1.000)	141312	50.0	(QM)
$	27 1,2-Dichloroethane-D4 (SURR)	65.00	8.636	8.687	(1.000)	266316	48.6	48.6
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.216	9.268	(1.000)	417291	50.0	
$	38 Toluene-D8 (SURR)	98.00	11.595	11.630	(0.823)	493208	49.7	49.7
	42 Tetrachloroethylene	164.00	12.652	12.666	(0.898)	399800	81.1	81.1
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.089	14.083	(1.000)	401056	50.0	
$	56 Bromofluorobenzene (SURR)	95.00	15.940	15.934	(1.131)	480705	48.6	48.6

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem/msc.i/c020396.b/c8287.d

Date : 03-FEB-96 19:18

Client ID: 17418n clj7822003

Instrument: msc.i

Sample Info: 17418n clj7822003 (16)

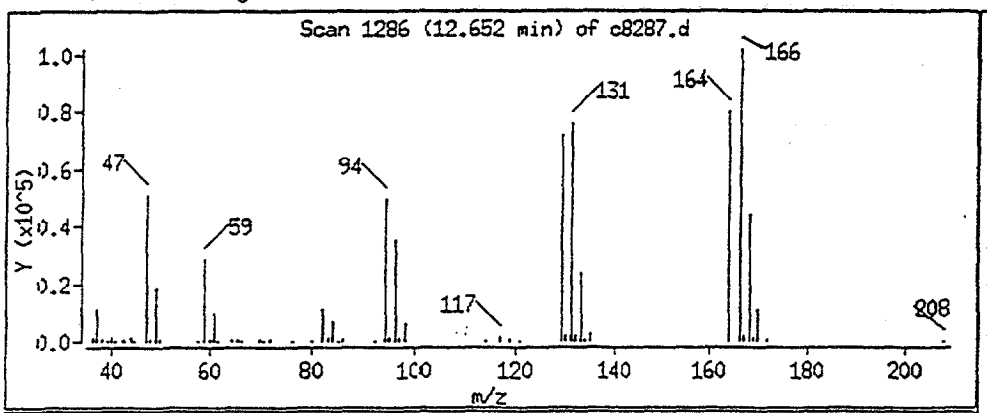
Purge Volume: 1.0

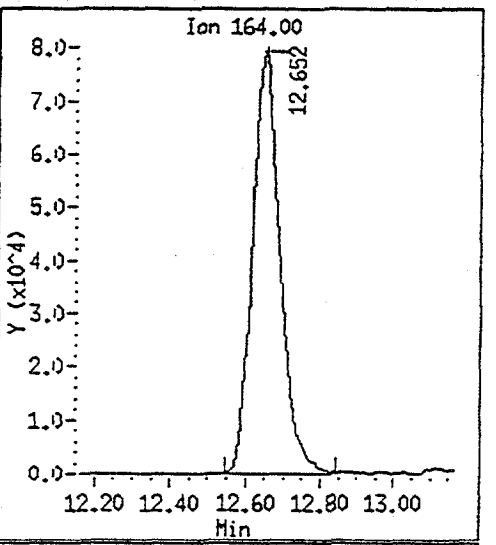
Operator: jk

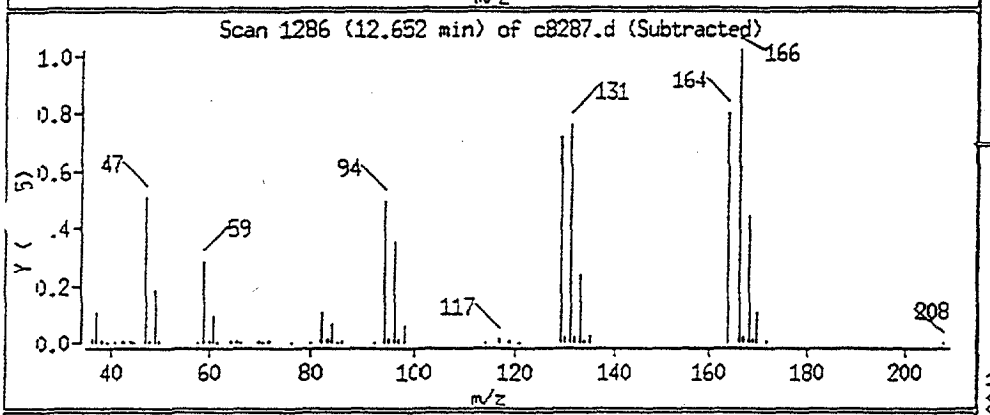
Column phase: J&W DB_624

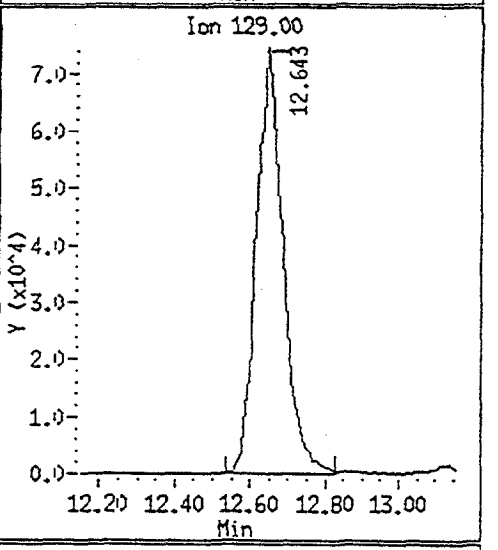
Column diameter: 0.53

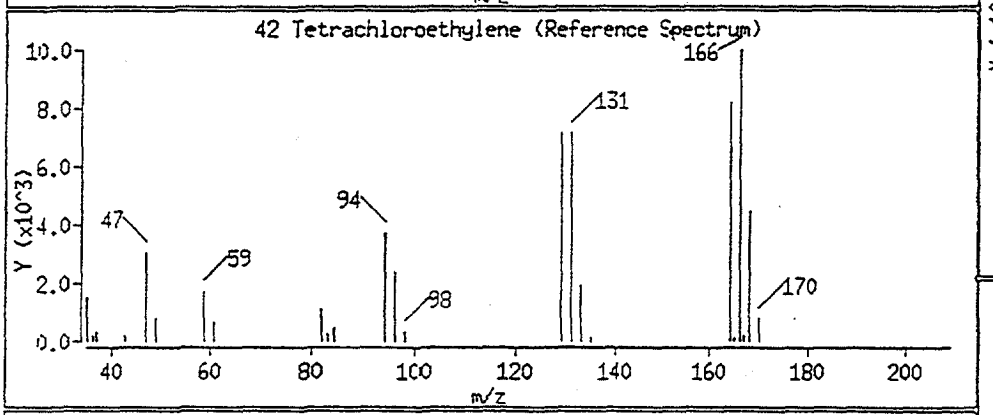
42 Tetrachloroethylene

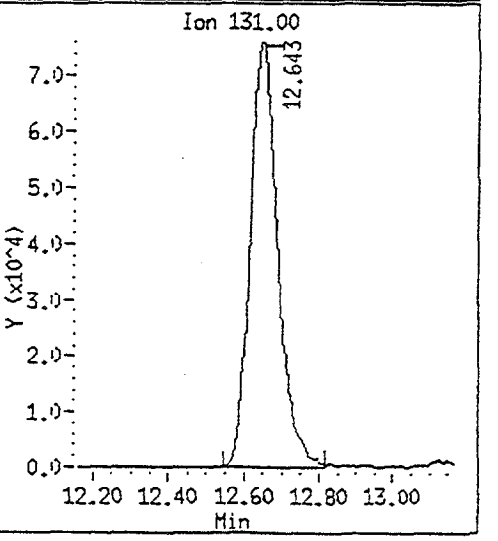


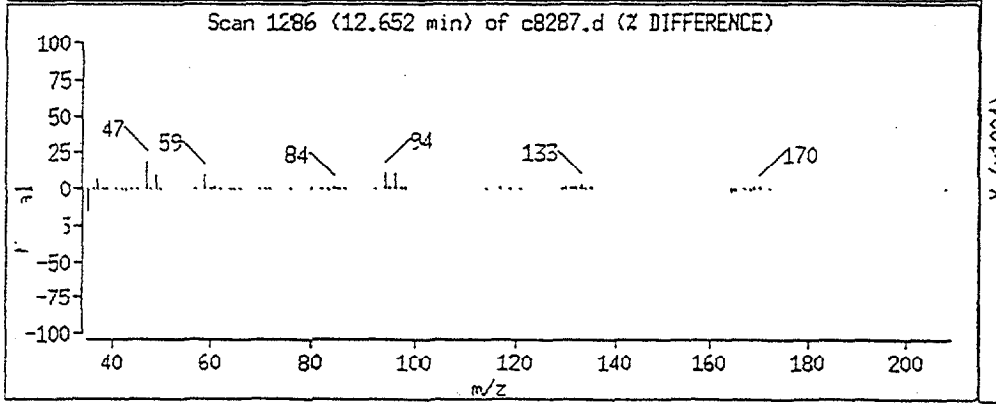












1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

0053 EPA SAMPLE NO.

CLJ78SS003

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2877V

Sample wt/vol: .66 (g/mL) G Lab File ID: C8343

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. 16 Date Analyzed: 02/05/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	45	U
74-83-9	Bromomethane	45	U
75-01-4	Vinyl Chloride	45	U
75-00-3	Chloroethane	45	U
75-09-2	Methylene Chloride	45	U
67-64-1	Acetone	91	U
75-15-0	Carbon Disulfide	45	U
75-35-4	1,1-Dichloroethene	45	U
75-34-3	1,1-Dichloroethane	45	U
540-59-0	1,2-Dichloroethene (total)	150	
67-66-3	Chloroform	45	U
107-06-2	1,2-Dichloroethane	45	U
78-93-3	2-Butanone	45	U
71-55-6	1,1,1-Trichloroethane	45	U
56-23-5	Carbon Tetrachloride	45	U
75-27-4	Bromodichloromethane	45	U
78-87-5	1,2-Dichloropropane	45	U
10061-01-5	cis-1,3-Dichloropropene	45	U
79-01-6	Trichloroethene	38	J
124-48-1	Dibromochloromethane	45	U
79-00-5	1,1,2-Trichloroethane	45	U
71-43-2	Benzene	45	U
10061-02-6	trans-1,3-Dichloropropene	45	U
75-25-2	Bromoform	45	U
108-10-1	Methyl-iso-butyl ketone	91	U
591-78-6	2-Hexanone	45	U
79-34-5	1,1,2,2-Tetrachloroethane	45	U
108-88-3	Toluene	45	U
108-90-7	Chlorobenzene	45	U
100-41-4	Ethylbenzene	45	U
100-42-5	Styrene	45	U
1330-20-7	Xylene (total)	45	U
156-60-5	1,2-Trans-dichloroethylene	45	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0054 EPA SAMPLE NO.

CLJ78SS003

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2877V

Sample wt/vol: .66 (g/mL) G Lab File ID: C8343

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. 16 Date Analyzed: 02/05/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0055

Data File: /chem/msc.i/c0205a96.b/c8343.d

Date : 05-FEB-96 23:48

Client ID: 17418n clj78ss003

Sample Info: 17418n clj78ss003

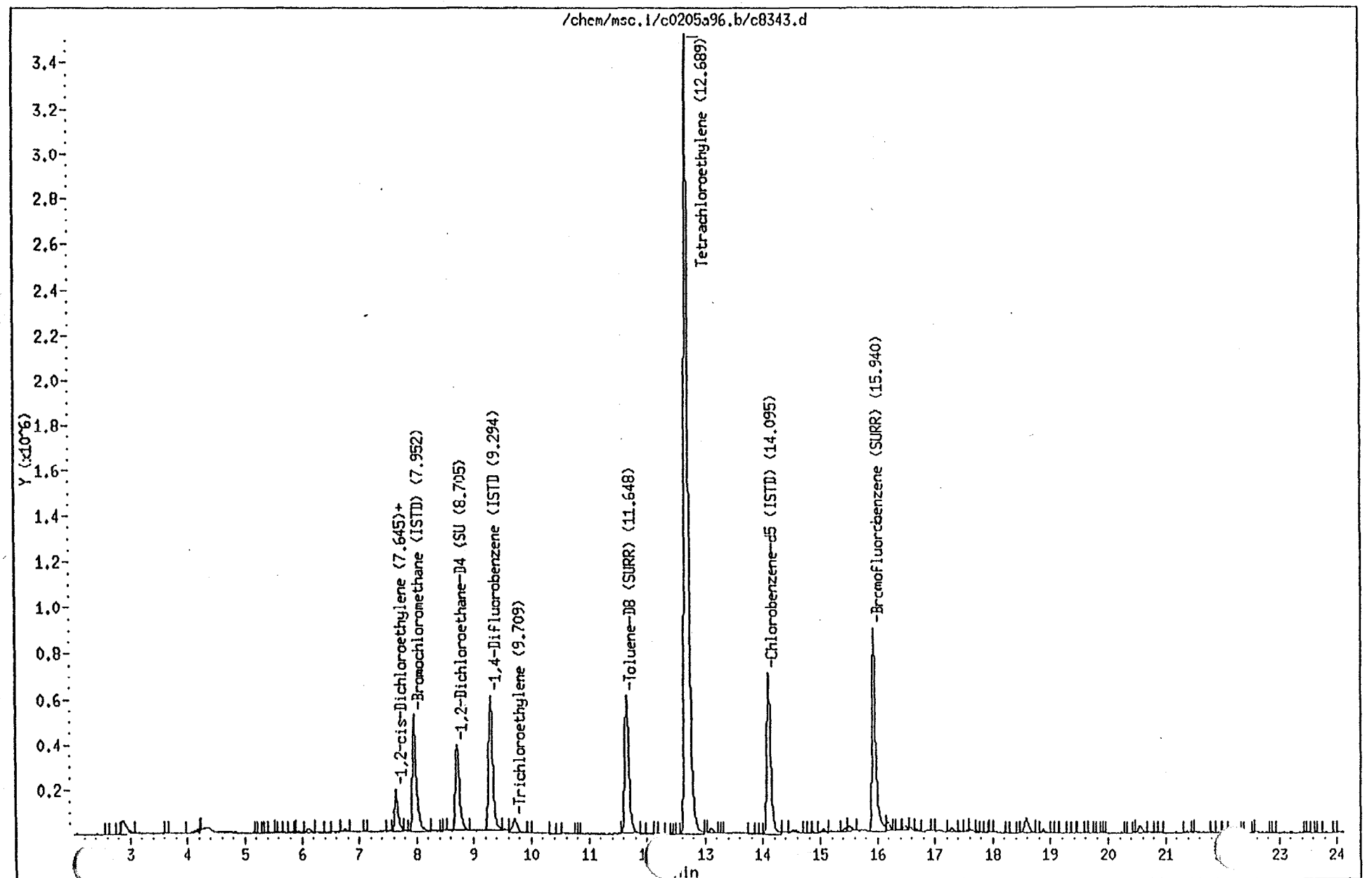
Purge Volume: 1.0

Column phase: J&W DB_624

Instrument: msc.i

Operator: jk

Column diameter: 0.53



Data File: /chem/msc.i/c0205a96.b/c8343.d
Report Date: 06-Feb-1996 11:13

OHM Analytical Division

+Screen

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c0205a96.b/c8343.d
Lab Smp Id:
Client Smp ID: 17418n clj78ss003
Inj Date : 05-FEB-96 23:48
Operator : jk
Inst ID: msc.i
Smp Info : 17418n clj78ss003
Misc Info : jp2877v,n2v4947,m2,5000,1,0.66,5.0,960205
Comment :
Method : /chem/msc.i/c0205a96.b/020596_heatc.m
Meth Date : 06-Feb-1996 09:01 glenn
Quant Type: ISTD
Cal Date : 05-FEB-96 18:25
Cal File: c8333.d
Als bottle: 15
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 3.10

MK 2/6/96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	8 1,2-cis-Dichloroethylene	96.00	7.645	7.622	(0.960)	134253	17.1	17.1 (QM)
*	22 Bromochloromethane (ISTD)	128.00	7.960	7.937	(1.000)	279607	50.0	
S	27 1,2-Dichloroethane-D4 (SURR)	65.00	8.705	8.708	(1.094)	676399	58.9	58.9
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.294	9.280	(1.000)	913689	50.0	
	31 Trichloroethylene	130.00	9.709	9.703	(1.045)	34233	4.24	4.24
S	38 Toluene-D8 (SURR)	98.00	11.648	11.637	(0.826)	869821	50.9	50.9
	42 Tetrachloroethylene	164.00	12.689	12.670	(0.900)	1921485	233	233 (A)
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.095	14.092	(1.000)	720133	50.0	
S	56 Bromofluorobenzene (SURR)	95.00	15.940	15.938	(1.131)	720158	53.3	53.3

— See NOV 4/97

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem/msc.i/c0205a96.b/c8343.d

Date : 05-FEB-96 23:48

Client ID: 17418n clj78ss003

Instrument: msc.i

Sample Info: 17418n clj78ss003

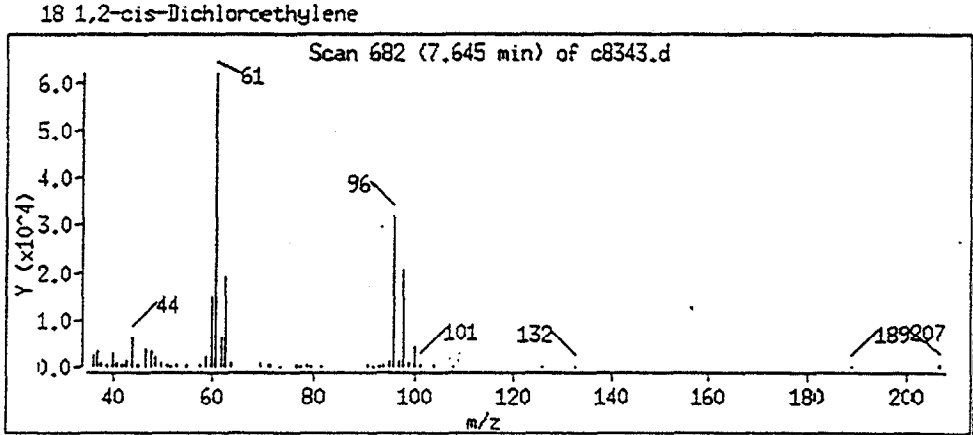
Purge Volume: 1.0

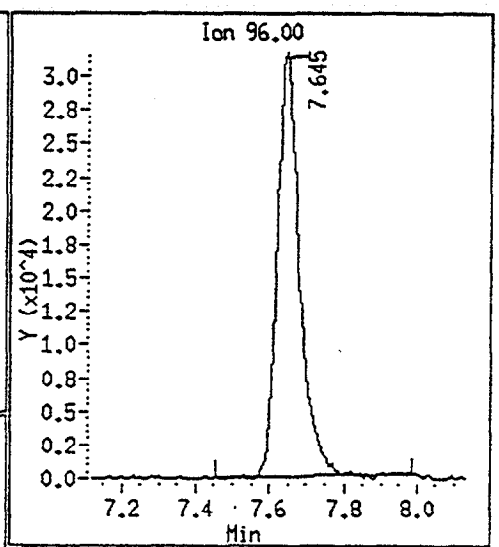
Operator: jk

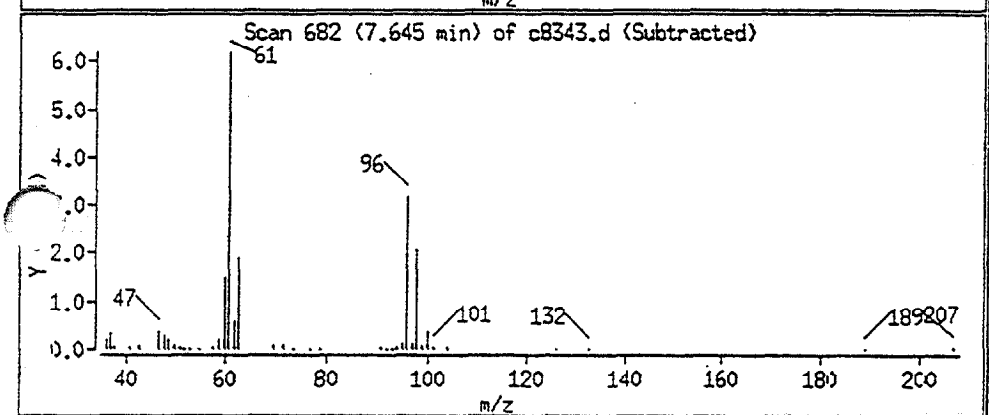
Column phase: J&W DB_624

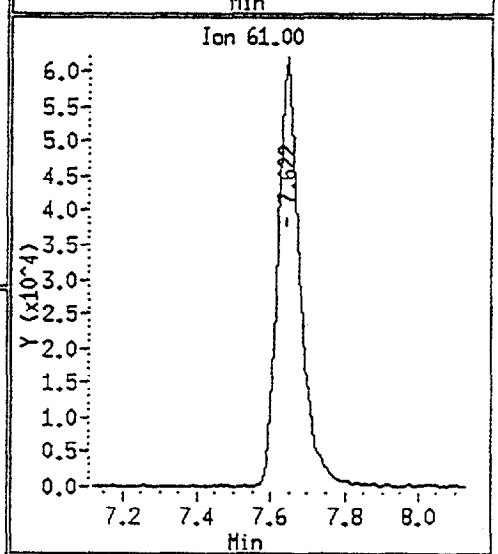
Column diameter: 0.53

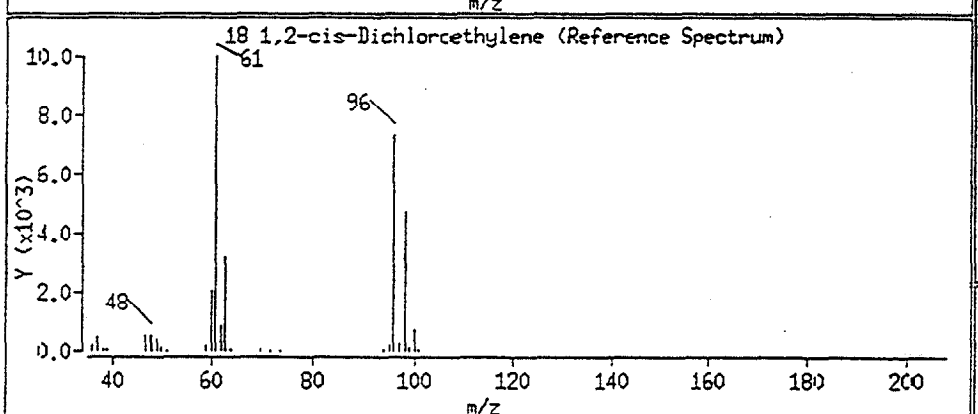
18 1,2-cis-Dichlorcethylene

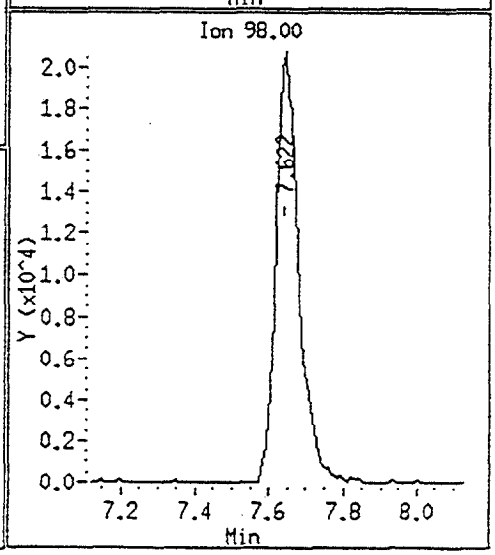


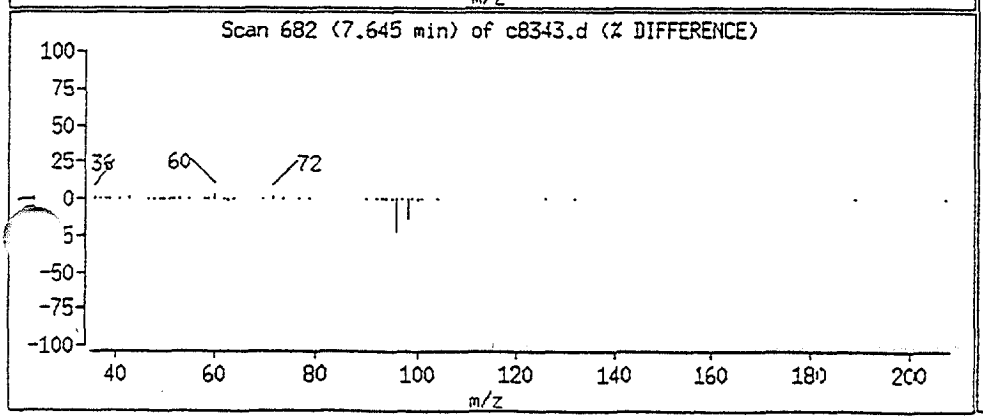












Data File: /chem/msc.i/c0205a96.b/c8343.d

Date : 05-FEB-96 23:48

Client ID: 17418n clj78ss003

Instrument: msc.i

Sample Info: 17418n clj78ss003

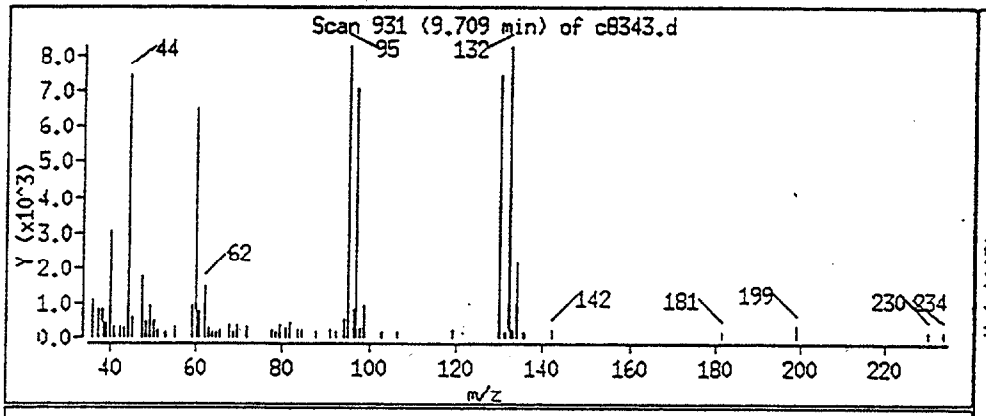
Purge Volume: 1.0

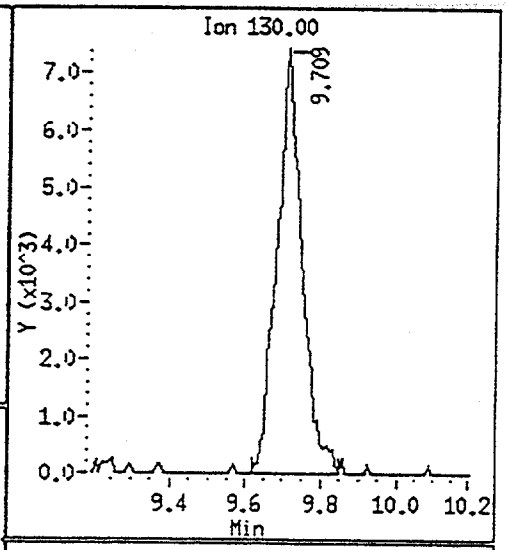
Operator: jk

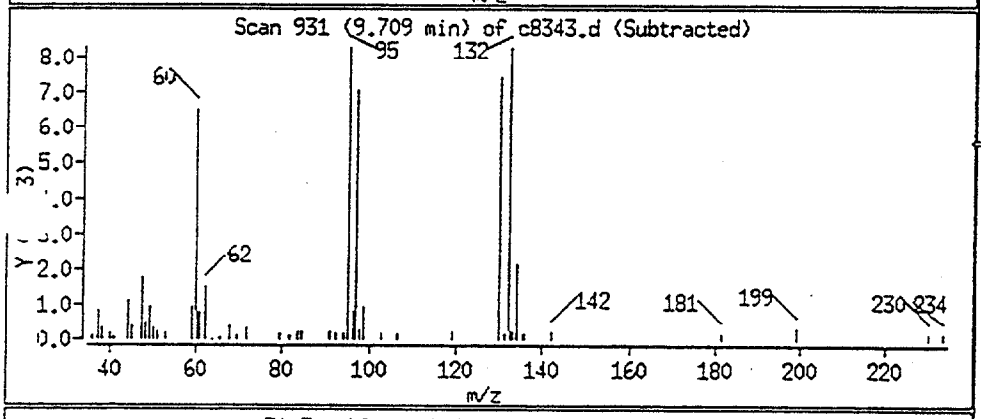
Column phase: J&W DB_624

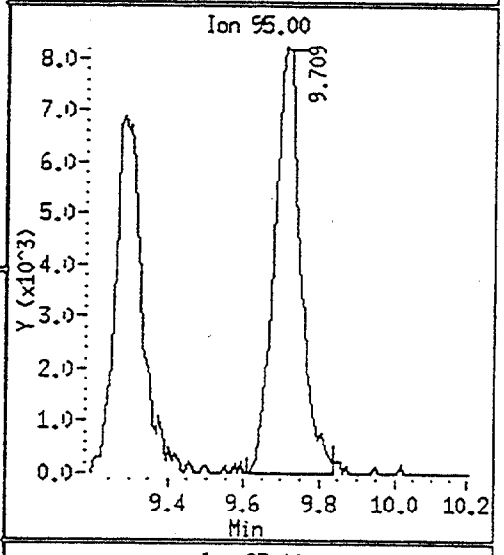
Column diameter: 0.53

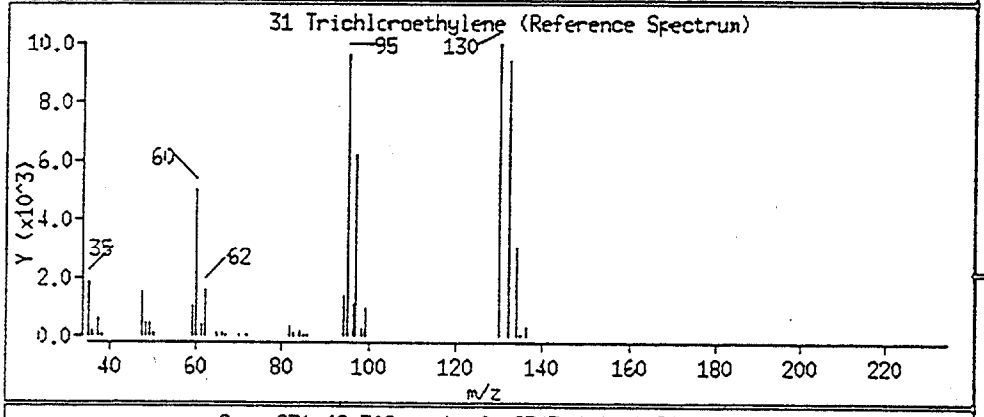
31 Trichloroethylene

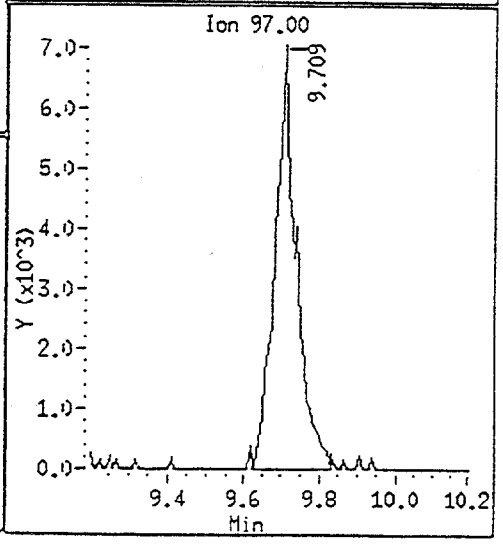


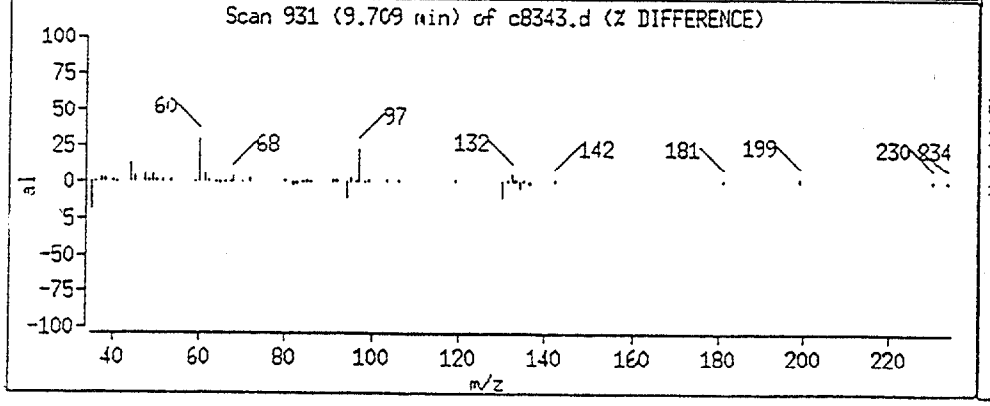












1A

VOLATILE ORGANICS ANALYSIS DATA SHEET 0059

EPA SAMPLE NO.

CLJ78SS004

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2878V

Sample wt/vol: ~~2.75~~ 5.49 AB (g/mL) G Lab File ID: C8288

Level: (low/med) ~~LOW~~ MED Date Received: 02/02/96

% Moisture: not dec. 23 Date Analyzed: 02/03/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume: ~~5000~~ 10000 AB (uL) Soil Aliquot Volume: ~~5000~~ 200 AB (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethylene	510	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0060 EPA SAMPLE NO.

CLJ78SS004

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2878V

Sample wt/vol: ~~2.75~~ 5.49 (g/mL) G Lab File ID: C8288

Level: (low/med) ~~LOW~~ MED Date Received: 02/02/96

% Moisture: not dec. 23 Date Analyzed: 02/03/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume: ~~5000~~ 10000 (uL) Soil Aliquot Volume: ~~5000~~ 200 (uL)

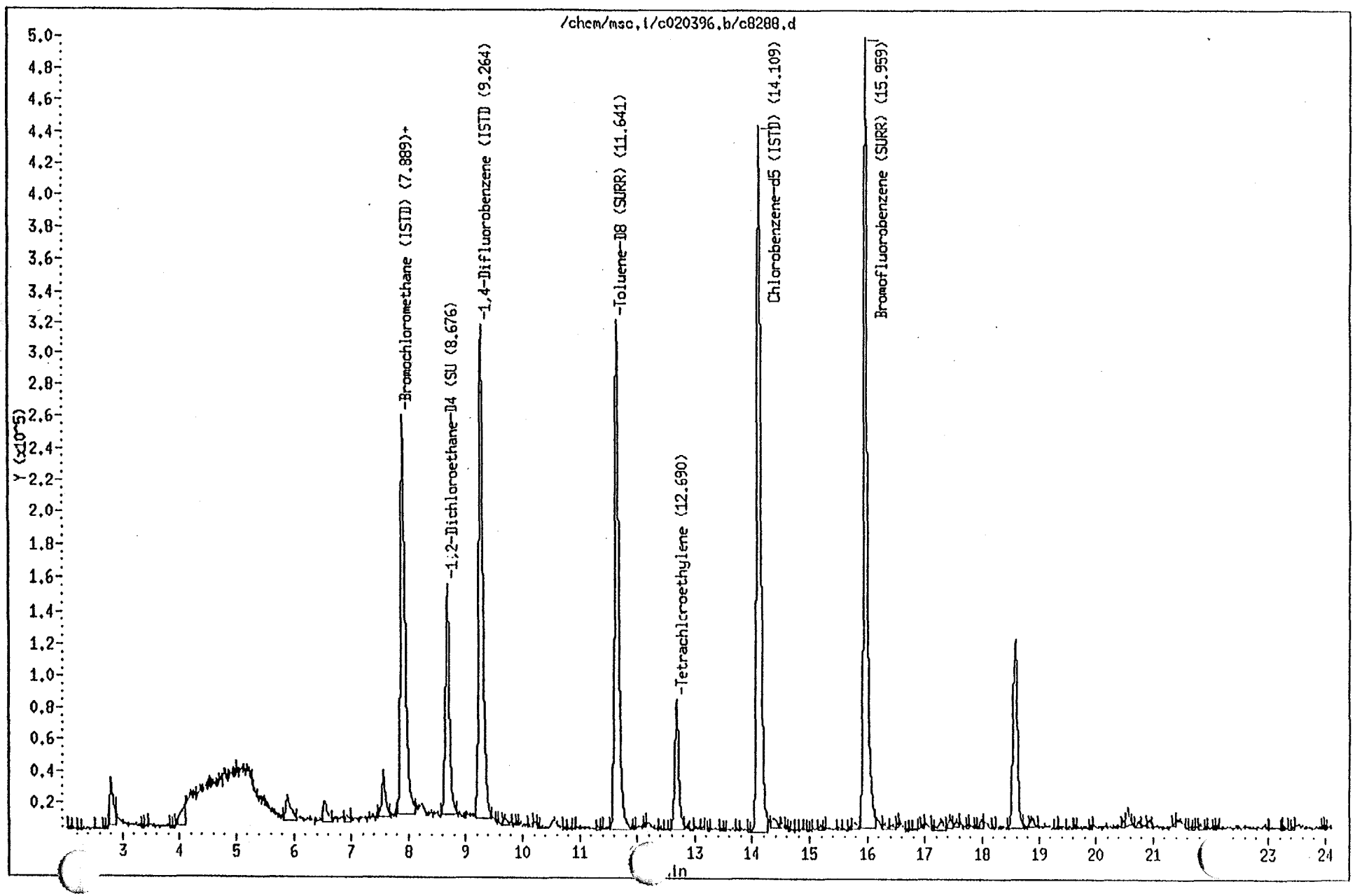
Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0061

Data File: /chem/msc.i/c020396.b/c8288.d
Date : 03-FEB-96 19:51
Client ID: 17418n clj7822004
Sample Info: 17418n clj7822004 (1)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c020396.b/c8288.d
Report Date: 04-Feb-1996 14:34

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 + Screen

Data file : /chem/msc.i/c020396.b/c8288.d
Lab Smp Id: Client Smp ID: 17418n clj7822004
Inj Date : 03-FEB-96 19:51
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj7822004 (1)
Misc Info : jp2878v,n2v4939,m2,5000,25,2.75,5.0,960203,
Comment :
Method : /chem/msc.i/c020396.b/020396_ambic.m
Meth Date : 04-Feb-1996 13:54 Quant Type: ISTD
Cal Date : 03-FEB-96 14:01 Cal File: c8279.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 2/4/96

#590

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	
	2 Bromochloromethane (ISTD)	128.00	7.897	7.923	(1.000)	161747	50.0		(OM)
S	27 1,2-Dichloroethane-D4 (SURR)	65.00	8.676	8.687	(1.000)	257402	41.0	41.0	
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.272	9.268	(1.000)	473681	50.0		
S	38 Toluene-D8 (SURR)	98.00	11.641	11.630	(0.825)	458545	41.8	41.8	
	42 Tetrachloroethylene	164.00	12.690	12.666	(0.899)	46889	8.59	8.59	
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.109	14.083	(1.000)	443754	50.0		
S	56 Bromofluorobenzene (SURR)	95.00	15.959	15.934	(1.131)	446745	40.8	40.8	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem/msc.i/c020396.b/c8288.d

Date : 03-FEB-96 19:51

Client ID: 17418n clj7822004

Instrument: msc.i

Sample Info: 17418n clj7822004 (1)

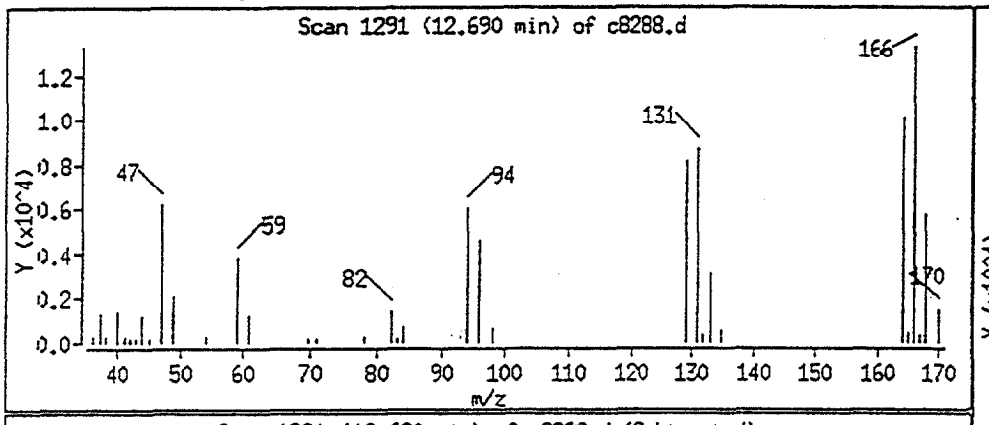
Purge Volume: 1.0

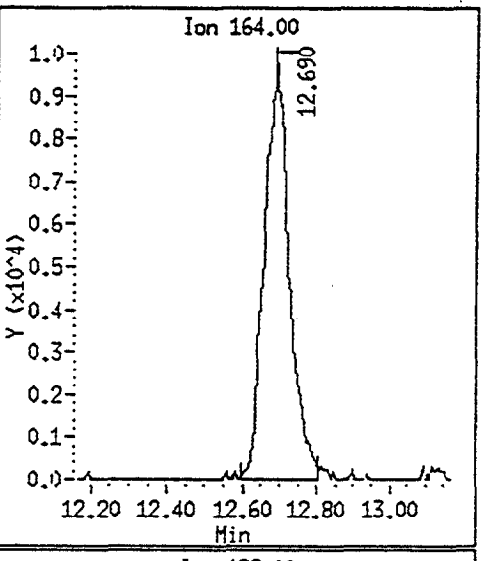
Operator: jk

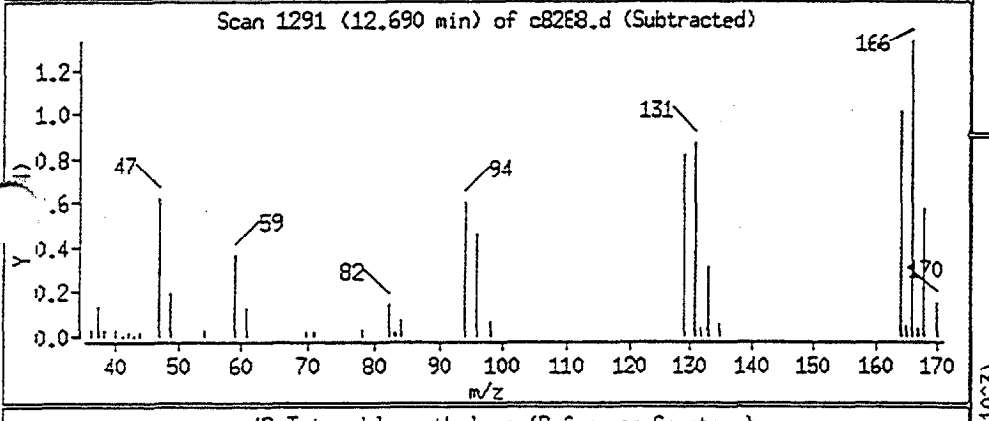
Column phase: J&W DB_624

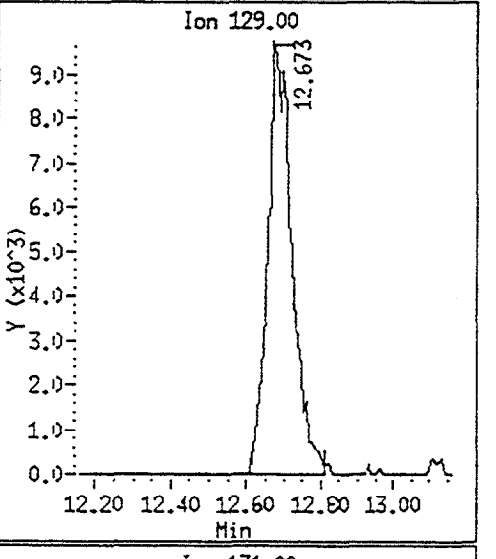
Column diameter: 0.53

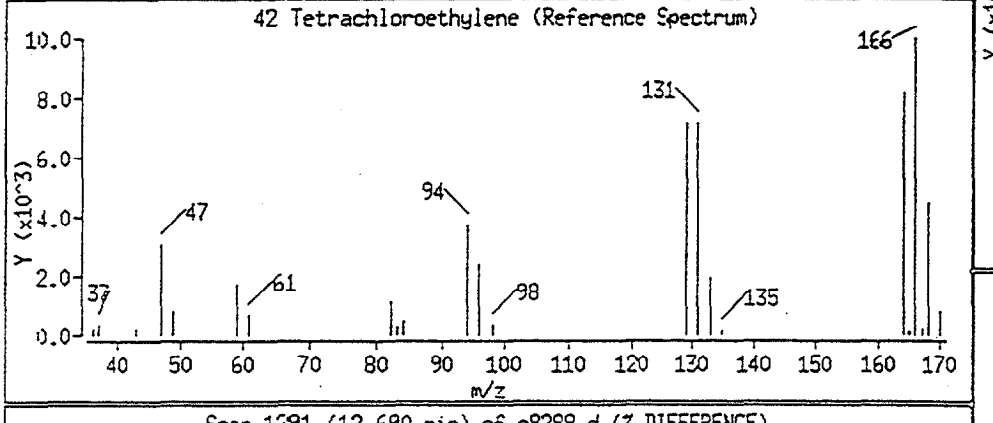
42 Tetrachloroethylene

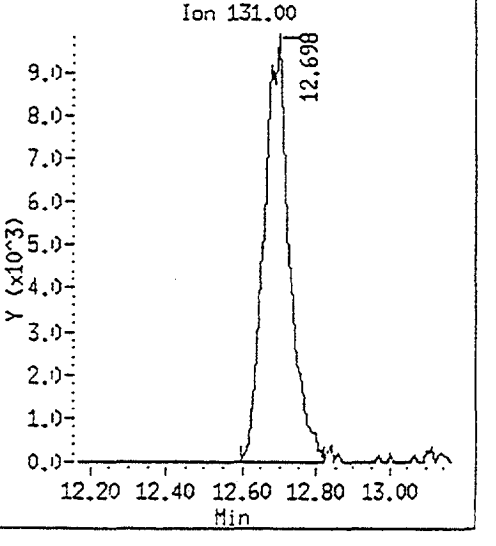


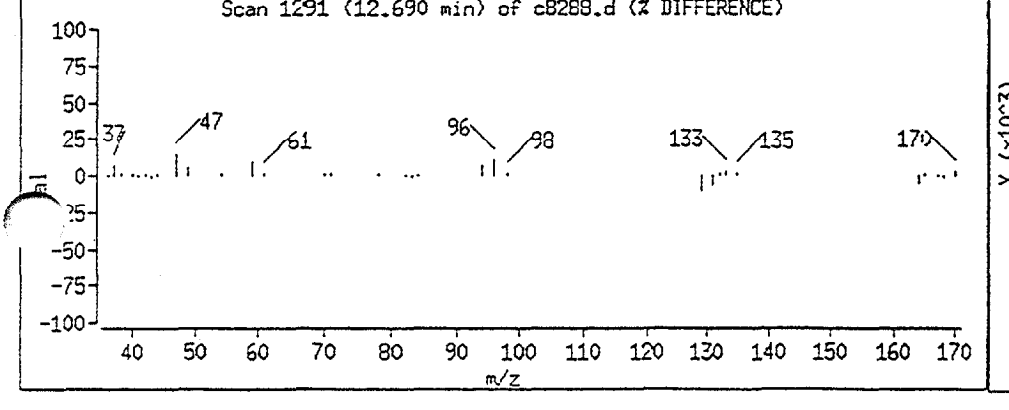












1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

0064 EPA SAMPLE NO.

CLJ78SS004

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2878V

Sample wt/vol: .97 (g/mL) G Lab File ID: C8340

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. 23 Date Analyzed: 02/05/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	34	U
74-83-9	Bromomethane	34	U
75-01-4	Vinyl Chloride	34	U
75-00-3	Chloroethane	34	U
75-09-2	Methylene Chloride	14	BJ
67-64-1	Acetone	84	
75-15-0	Carbon Disulfide	34	U
75-35-4	1,1-Dichloroethene	34	U
75-34-3	1,1-Dichloroethane	34	U
540-59-0	1,2-Dichloroethene (total)	240	
67-66-3	Chloroform	34	U
107-06-2	1,2-Dichloroethane	34	U
78-93-3	2-Butanone	34	U
71-55-6	1,1,1-Trichloroethane	34	U
56-23-5	Carbon Tetrachloride	34	U
75-27-4	Bromodichloromethane	34	U
78-87-5	1,2-Dichloropropane	34	U
10061-01-5	cis-1,3-Dichloropropene	34	U
79-01-6	Trichloroethene	34	U
124-48-1	Dibromochloromethane	34	U
79-00-5	1,1,2-Trichloroethane	34	U
71-43-2	Benzene	34	U
10061-02-6	trans-1,3-Dichloropropene	34	U
75-25-2	Bromoform	34	U
108-10-1	Methyl-iso-butyl ketone	67	U
591-78-6	2-Hexanone	34	U
79-34-5	1,1,2,2-Tetrachloroethane	34	U
108-88-3	Toluene	34	U
108-90-7	Chlorobenzene	34	U
100-41-4	Ethylbenzene	34	U
100-42-5	Styrene	34	U
1330-20-7	Xylene (total)	34	U
156-60-5	1,2-Trans-dichloroethylene	34	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0065 EPA SAMPLE NO.

CLJ78SS004

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2878V

Sample wt/vol: .97 (g/mL) G Lab File ID: C8340

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. 23 Date Analyzed: 02/05/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

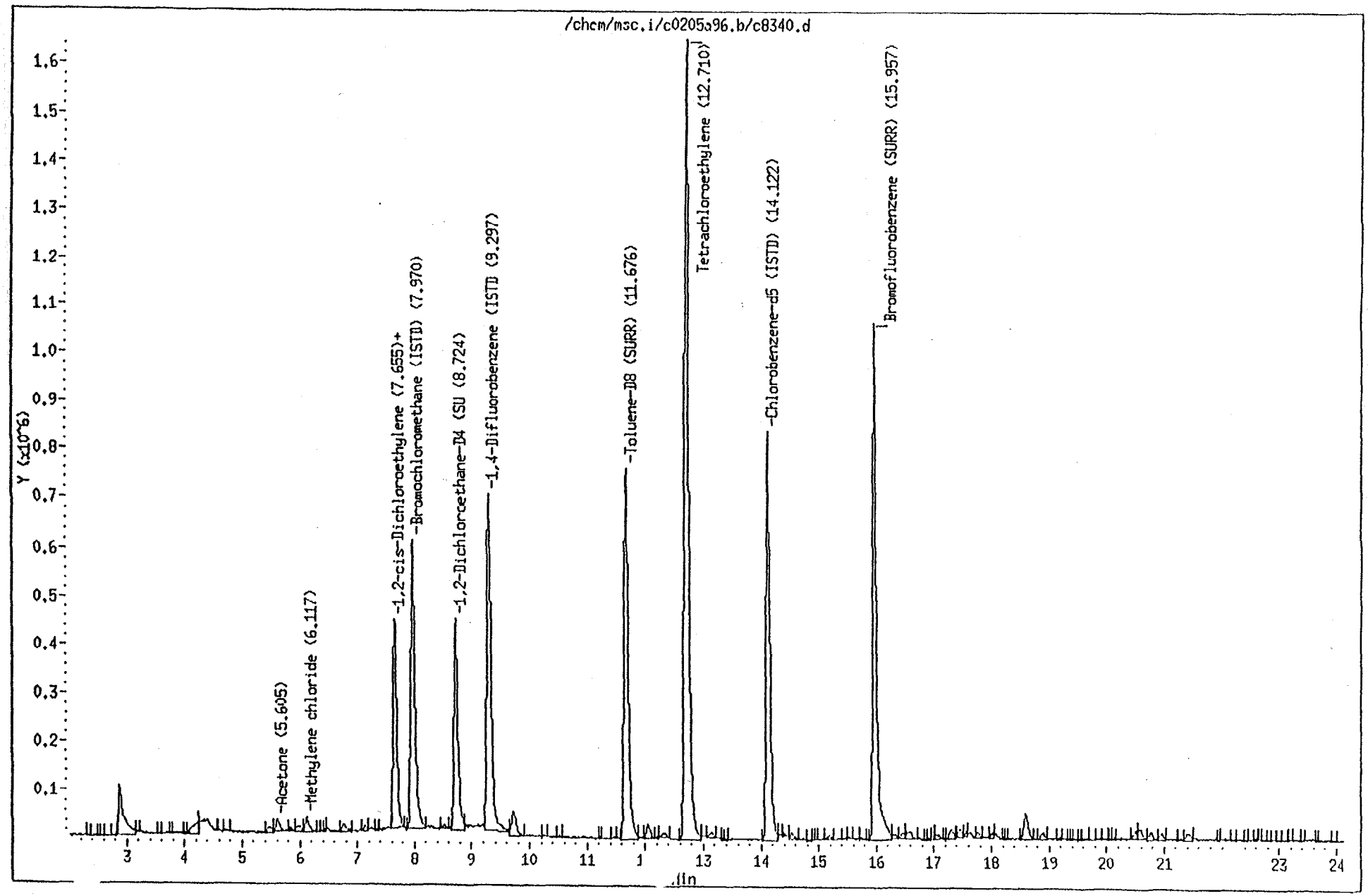
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0066

Data File: /chem/msc.i/c0205a96.b/c8340.d
Date : 05-FEB-96 22:11
Client ID: 17418n clj78ss004
Sample Info: 17418n clj78ss004
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c0205a96.b/c8340.d
Report Date: 06-Feb-1996 10:55

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 + Screen

Data file : /chem/msc.i/c0205a96.b/c8340.d
Lab Smp Id: Client Smp ID: 17418n clj78ss004
Inj Date : 05-FEB-96 22:11
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj78ss004
Misc Info : jp2878v,n2v4947,m2,5000,1,0.97,5.0,960205
Comment :
Method : /chem/msc.i/c0205a96.b/020596_heatc.m
Meth Date : 06-Feb-1996 09:01 glenn Quant Type: ISTD
Cal Date : 05-FEB-96 18:25 Cal File: c8333.d
Als bottle: 12
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MJL 2/6/96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	11 Acetone	43.00	5.605	5.564	(0.703)	78616	12.5	12.5
	13 Methylene chloride	84.00	6.117	6.092	(0.767)	21639	2.16	2.16
	18 1,2-cis-Dichloroethylene	96.00	7.655	7.622	(0.960)	351034	35.7	35.7(QM)
*	22 Bromochloromethane (ISTD)	128.00	7.970	7.937	(1.000)	351509	50.0	
S	27 1,2-Dichloroethane-D4 (SURR)	65.00	8.724	8.708	(1.095)	743597	51.5	51.5
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.297	9.280	(1.000)	1088107	50.0	
S	38 Toluene-D8 (SURR)	98.00	11.676	11.637	(0.827)	1074536	51.0	51.0
	42 Tetrachloroethylene	164.00	12.710	12.670	(0.900)	926010	91.1	91.1
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.122	14.092	(1.000)	887499	50.0	
S	56 Bromofluorobenzene (SURR)	95.00	15.957	15.938	(1.130)	857099	51.5	51.5

See N2v4947

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem/msc.i/c0205a96.b/c8340.d

Date : 05-FEB-96 22:11

Client ID: 17418n clj78ss004

Instrument: msc.i

Sample Info: 17418n clj78ss004

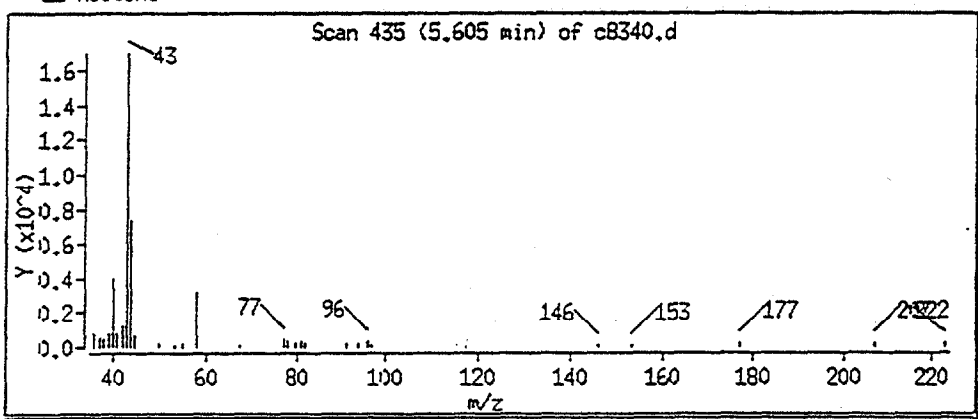
Purge Volume: 1.0

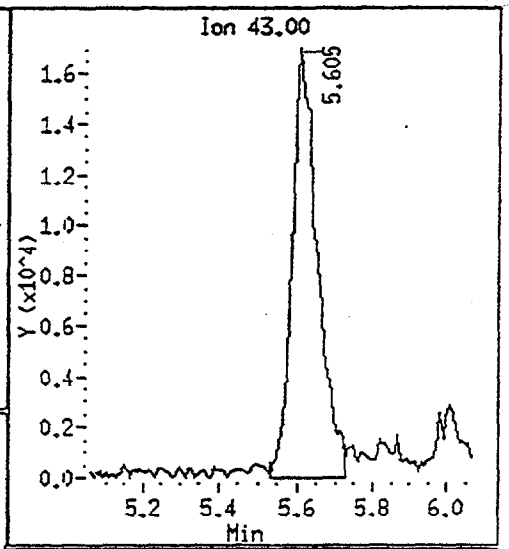
Operator: jk

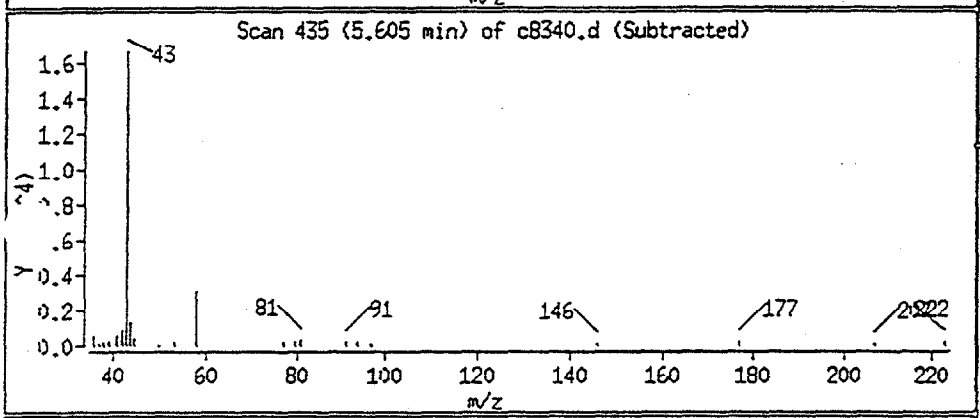
Column phase: J&W DB_624

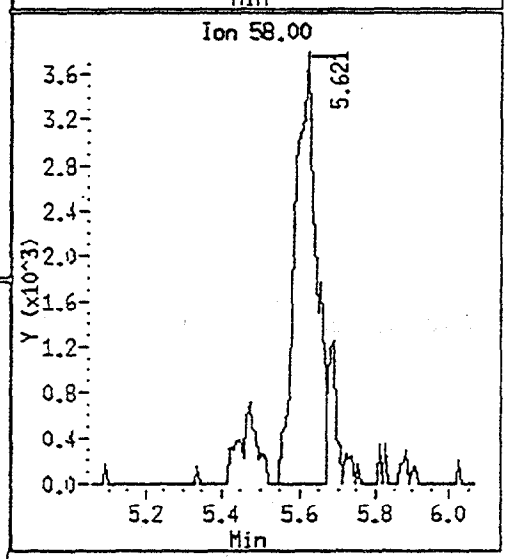
Column diameter: 0.53

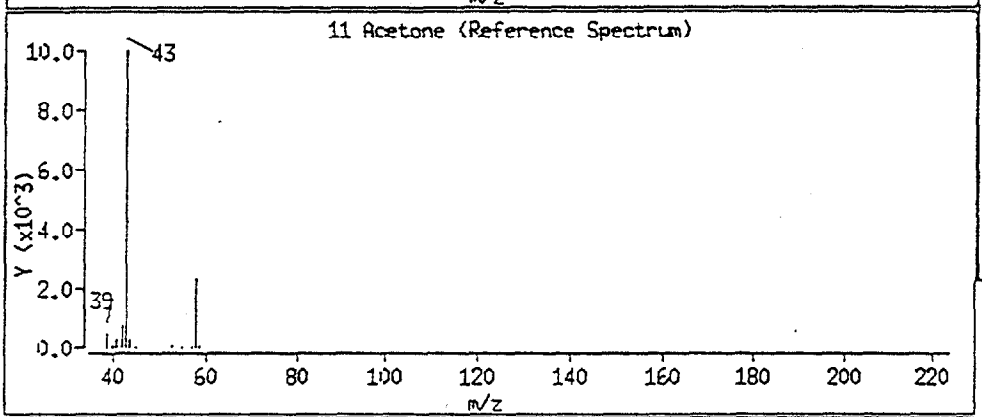
11 Acetone

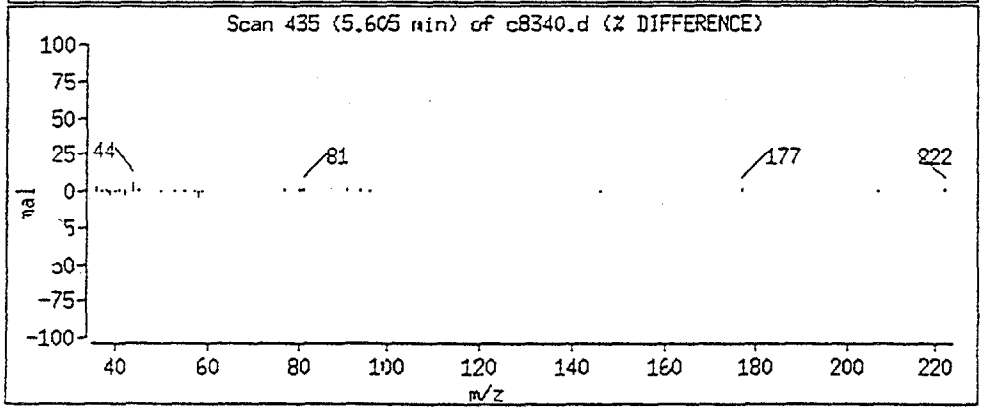












Data File: /chem/msc.i/c0205a96.b/c8340.d

Date : 05-FEB-96 22:11

Client ID: 17418n clj78ss004

Instrument: msc.i

Sample Info: 17418n clj78ss004

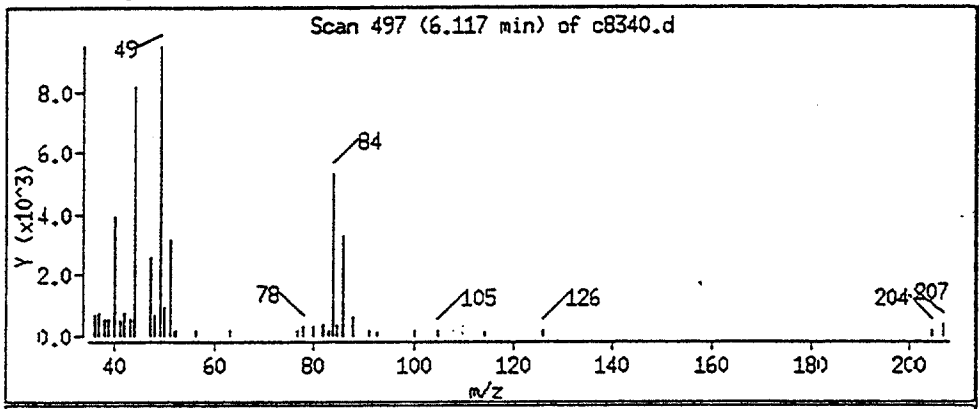
Purge Volume: 1.0

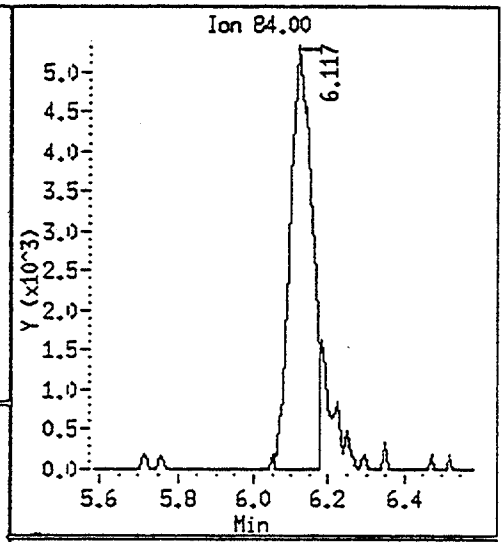
Operator: jk

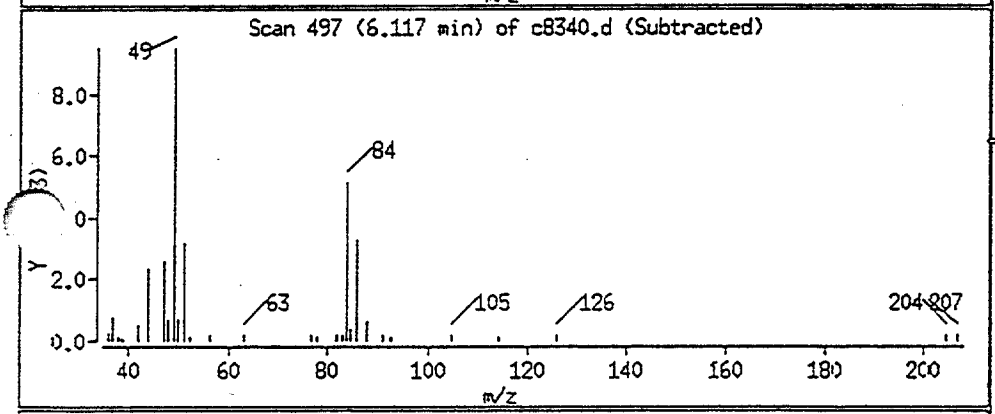
Column phase: J&W DB_624

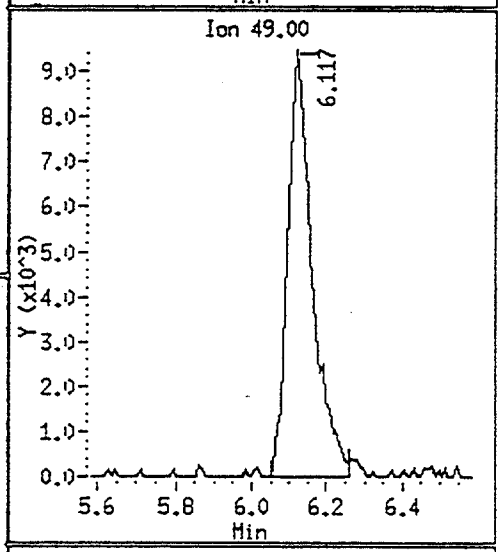
Column diameter: 0.53

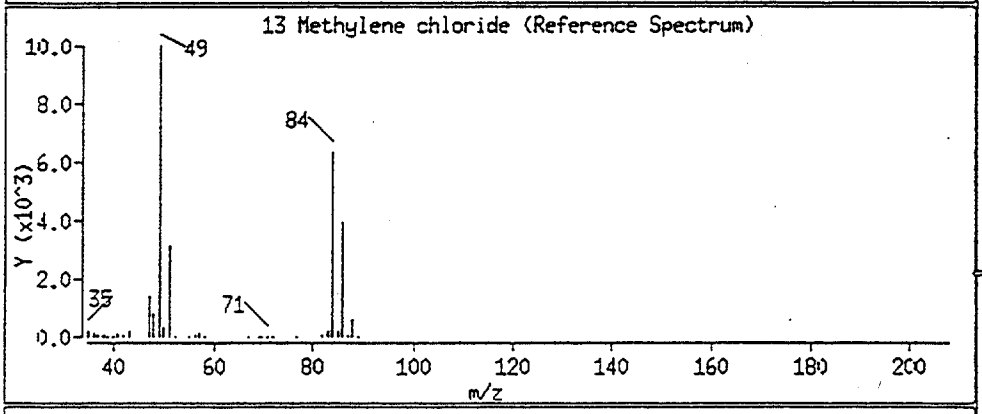
13 Methylene chloride

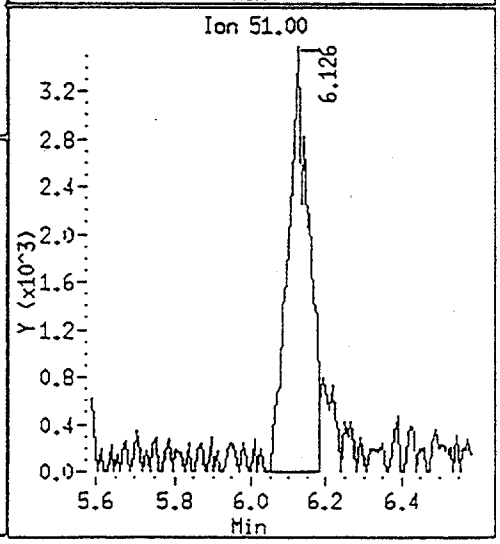


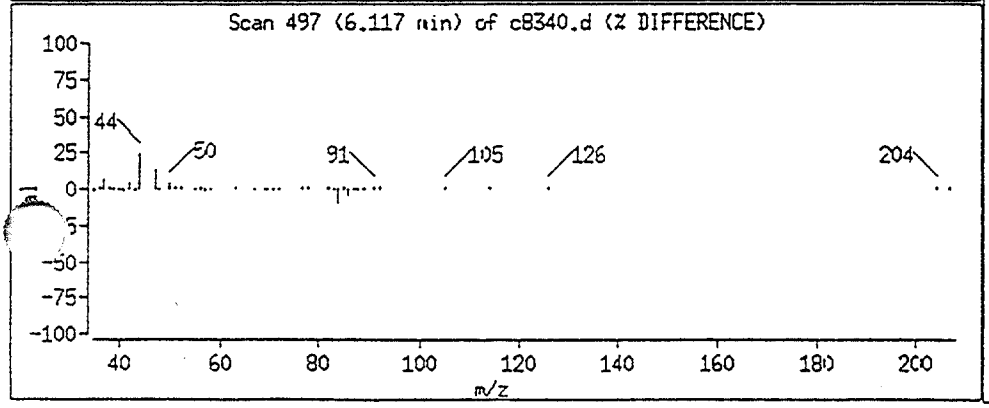












Data File: /chem/msc.i/c0205a96.b/c8340.d

Date : 05-FEB-96 22:11

Client ID: 17418n clj78ss004

Instrument: msc.i

Sample Info: 17418n clj78ss004

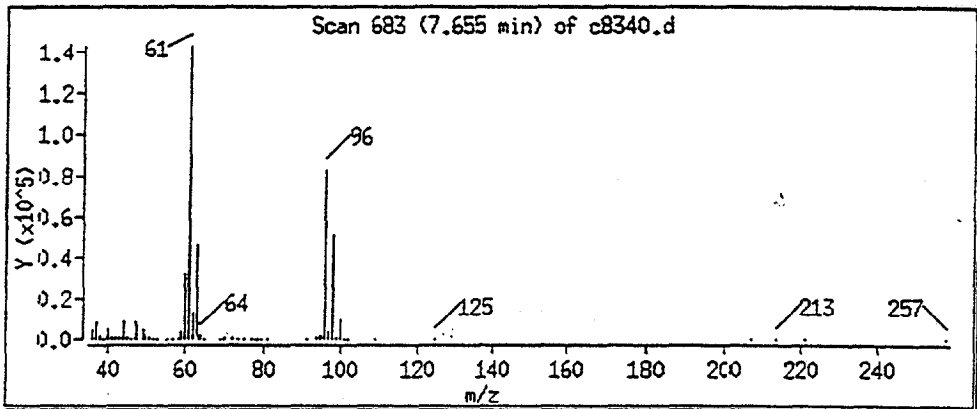
Purge Volume: 1.0

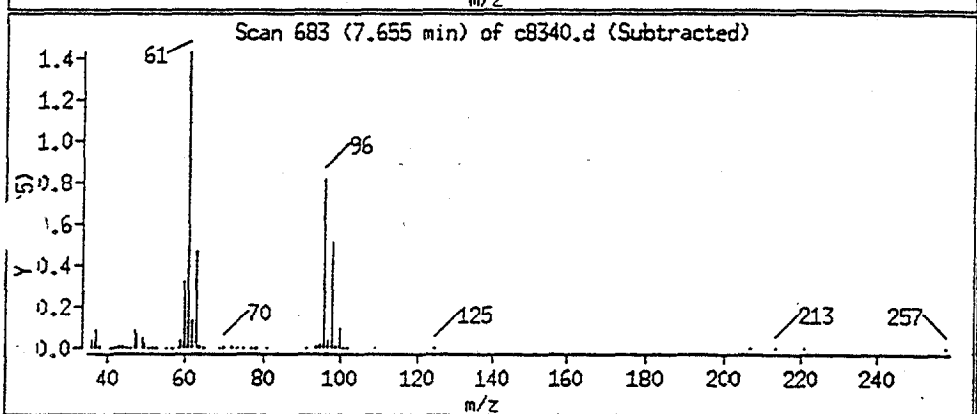
Operator: jk

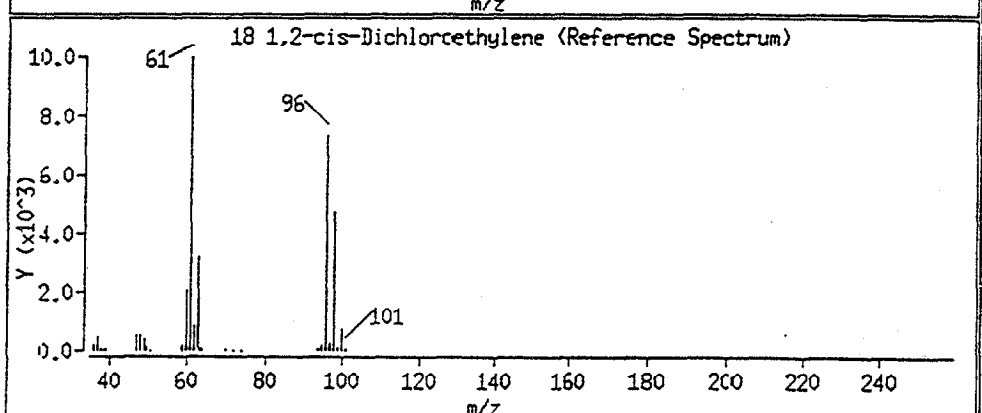
Column phase: J&W DB_624

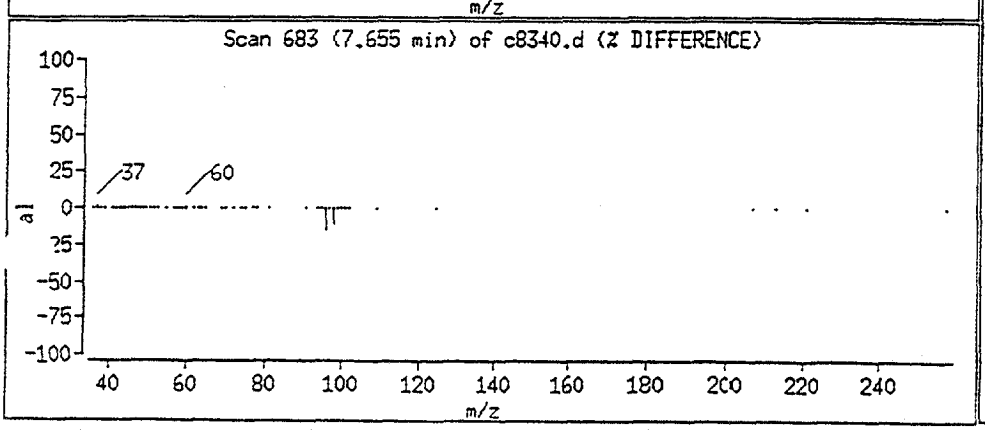
Column diameter: 0.53

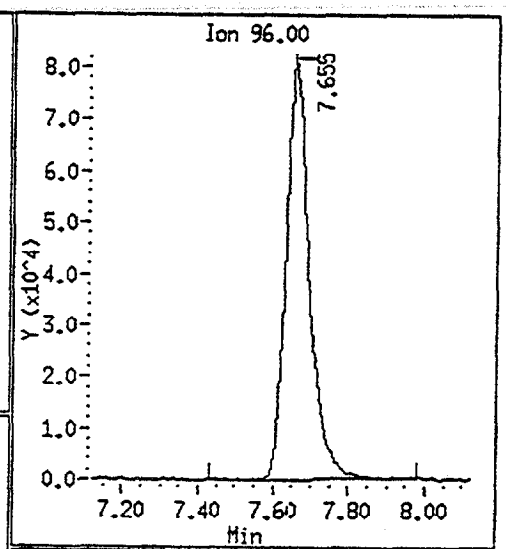
18 1,2-cis-Dichloroethylene

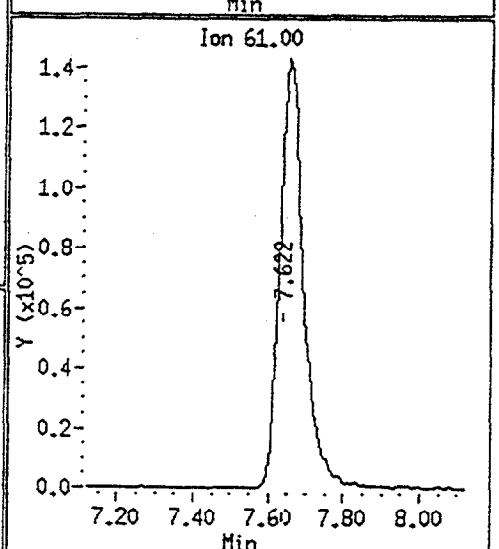


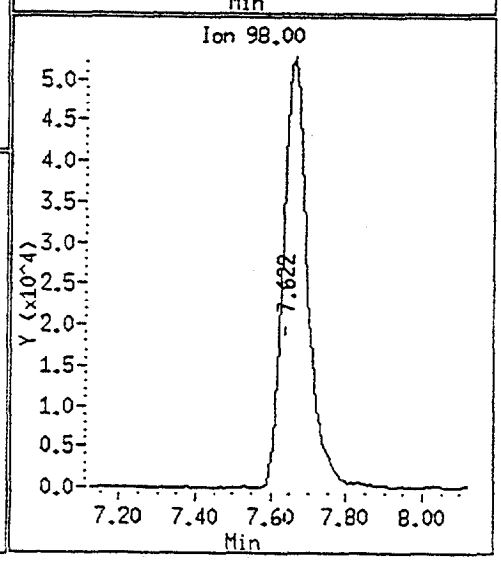












1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0071

CLJ78SS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2879V

Sample wt/vol: ~~2.58~~ 5.16 (g/mL) G Lab File ID: C8289

Level: (low/med) ~~LOW~~ MED Date Received: 02/02/96

% Moisture: not dec. 18 Date Analyzed: 02/03/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume: ~~5000~~ 10000 (uL) Soil Aliquot Volume: ~~5000~~ 200 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethylene	5700	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0072 EPA SAMPLE NO.

CLJ78SS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2879V

Sample wt/vol: ~~2.5~~ 5.16 (g/mL) G Lab File ID: C8289

Level: (low/med) ~~LOW~~ MED Date Received: 02/02/96

% Moisture: not dec. 18 Date Analyzed: 02/03/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume: ~~5000~~ 10000 (uL) Soil Aliquot Volume: ~~5000~~ 200 (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

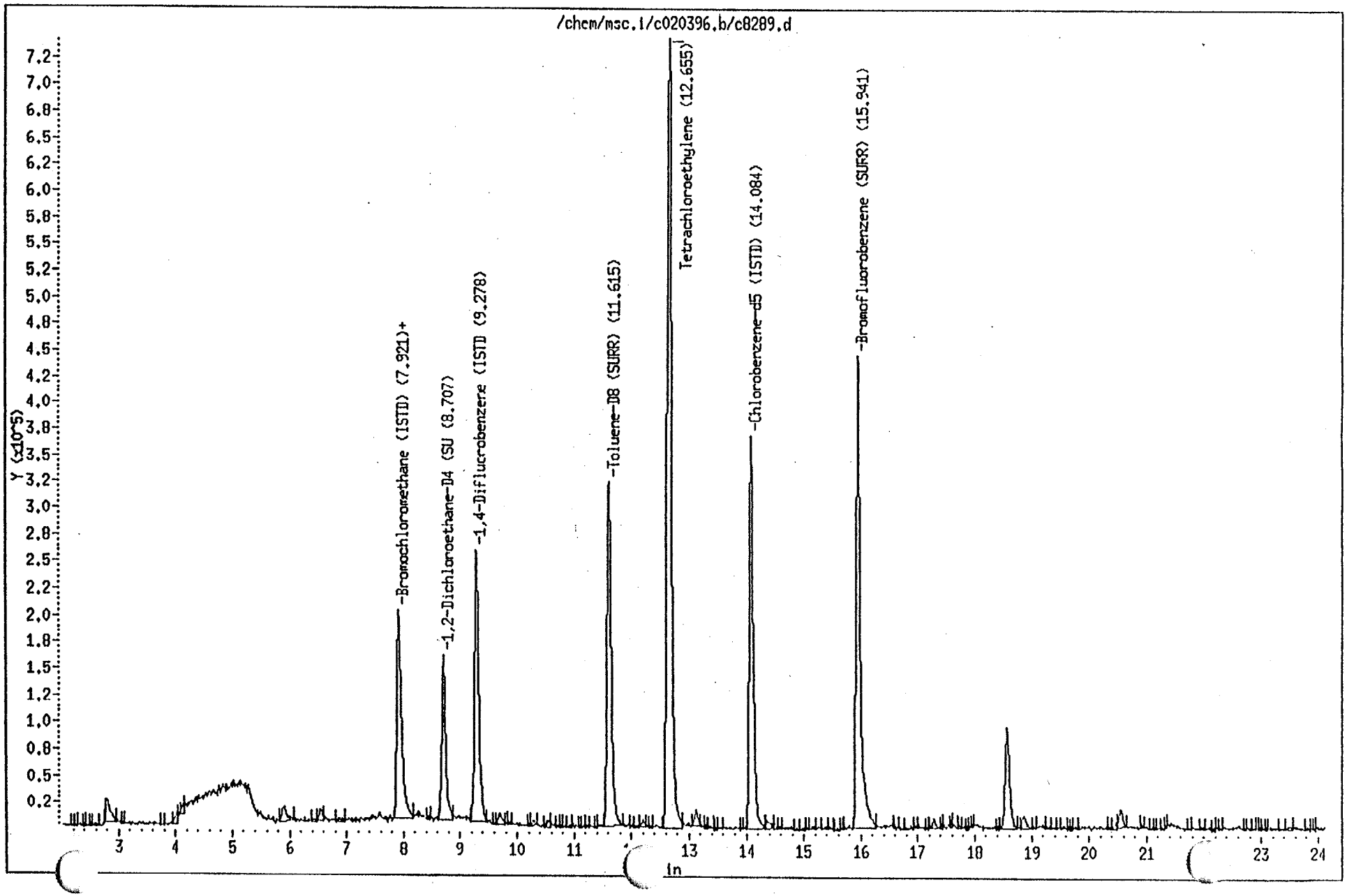
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0073

Data File: /chem/msc.i/c020396.b/c8289.d
Date : 03-FEB-96 20:24
Client ID: 17418n clj7822005
Sample Info: 17418n clj7822005 (2)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c020396.b/c8289.d
Report Date: 04-Feb-1996 14:36

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 & Screen

Data file : /chem/msc.i/c020396.b/c8289.d
Lab Smp Id:
Client Smp ID: 17418n clj7822005
Inj Date : 03-FEB-96 20:24
Operator : jk
Inst ID: msc.i
Smp Info : 17418n clj7822005 (2)
Misc Info : jp2879v,n2v4939,m2,5000,25,2.58,5.0,960203,
Comment :
Method : /chem/msc.i/c020396.b/020396_ambic.m
Meth Date : 04-Feb-1996 13:54
Quant Type: ISTD
Cal Date : 03-FEB-96 14:01
Cal File: c8279.d
Als bottle: 2
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 3.10

MK 2/4/96

#540

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	2 Bromochloromethane (ISTD)	128.00	7.921	7.923	(1.000)	128927	50.0	(QM)
$	27 1,2-Dichloroethane-D4 (SURR)	65.00	8.699	8.687	(1.000)	274903	55.0	55.0
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.287	9.268	(1.000)	389954	50.0	
$	38 Toluene-D8 (SURR)	98.00	11.615	11.630	(0.824)	448907	49.9	49.9
	42 Tetrachloroethylene	164.00	12.655	12.666	(0.898)	427815	95.6	95.6
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.092	14.083	(1.000)	363992	50.0	
$	56 Bromofluorobenzene (SURR)	95.00	15.941	15.934	(1.131)	464562	51.7	51.7

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem/msc.i/c020396.b/c8289.d

Date : 03-FEB-96 20:24

Client ID: 17418n clj7822005

Instrument: msc.i

Sample Info: 17418n clj7822005 (2)

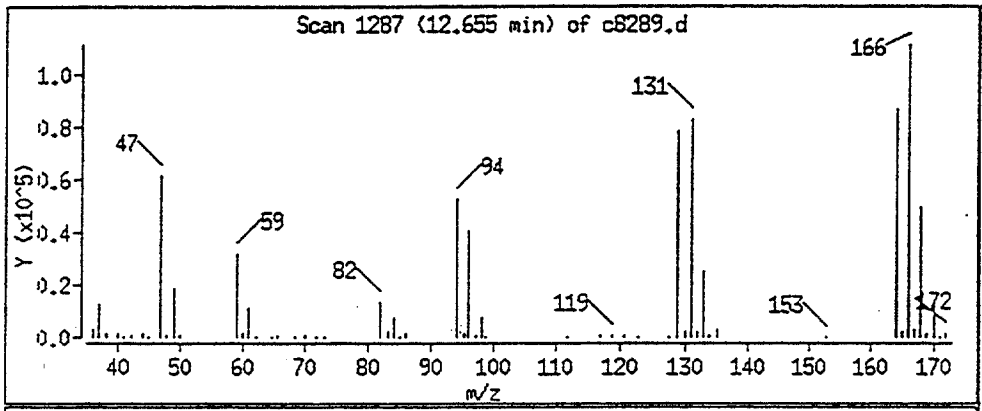
Purge Volume: 1.0

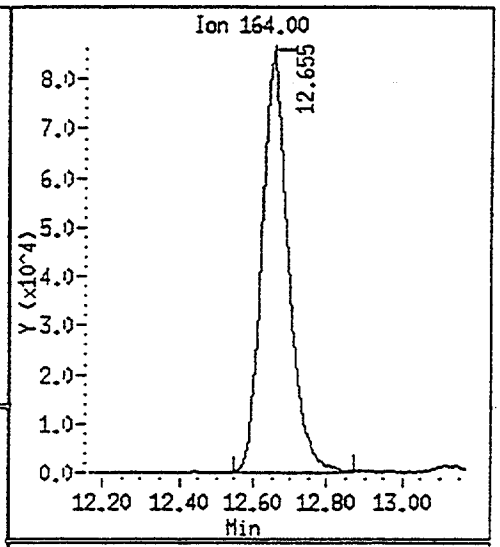
Operator: jk

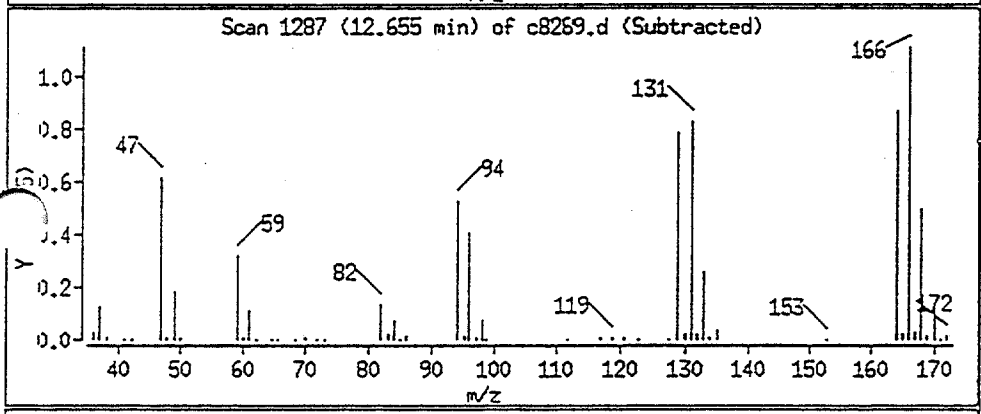
Column phase: J&W DB_624

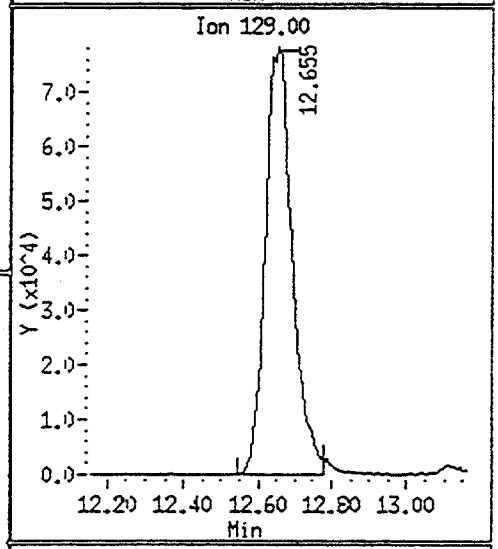
Column diameter: 0.53

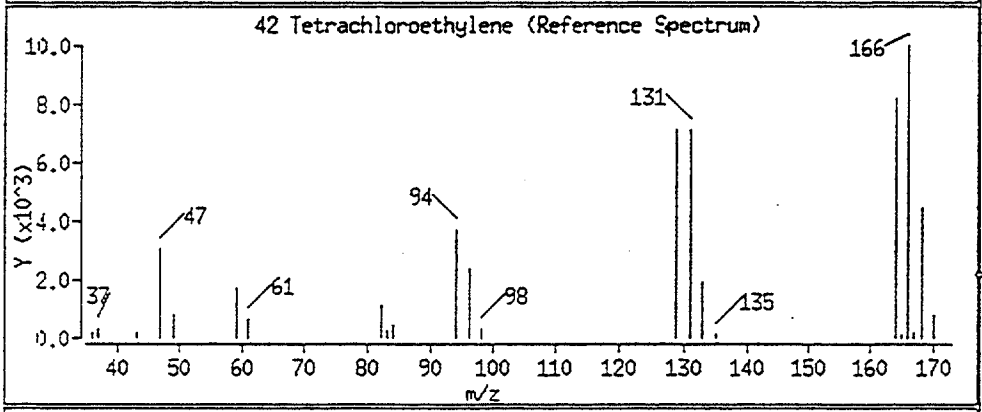
42 Tetrachloroethylene

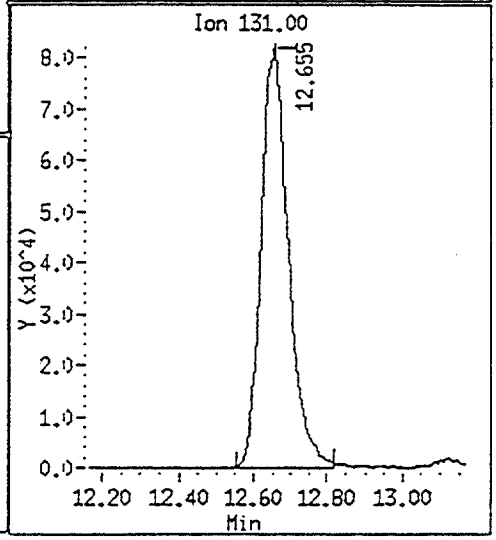


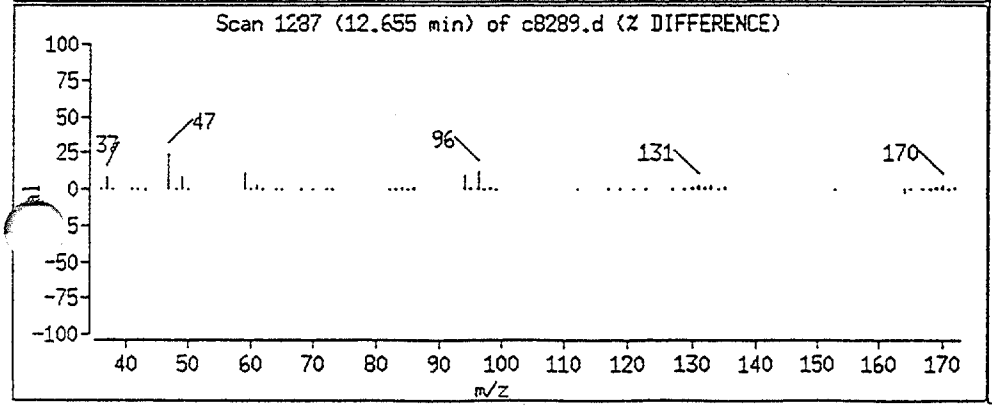












1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

0076 EPA SAMPLE NO.

CLJ78SS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2879V

Sample wt/vol: .50 (g/mL) G Lab File ID: C8344

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. 18 Date Analyzed: 02/06/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	61	U
74-83-9	Bromomethane	61	U
75-01-4	Vinyl Chloride	61	U
75-00-3	Chloroethane	61	U
75-09-2	Methylene Chloride	61	U
67-64-1	Acetone	120	U
75-15-0	Carbon Disulfide	61	U
75-35-4	1,1-Dichloroethene	61	U
75-34-3	1,1-Dichloroethane	61	U
540-59-0	1,2-Dichloroethene (total)	52	J
67-66-3	Chloroform	61	U
107-06-2	1,2-Dichloroethane	61	U
78-93-3	2-Butanone	61	U
71-55-6	1,1,1-Trichloroethane	61	U
56-23-5	Carbon Tetrachloride	61	U
75-27-4	Bromodichloromethane	61	U
78-87-5	1,2-Dichloropropane	61	U
10061-01-5	cis-1,3-Dichloropropene	61	U
79-01-6	Trichloroethene	59	J
124-48-1	Dibromochloromethane	61	U
79-00-5	1,1,2-Trichloroethane	61	U
71-43-2	Benzene	61	U
10061-02-6	trans-1,3-Dichloropropene	61	U
75-25-2	Bromoform	61	U
108-10-1	Methyl-iso-butyl ketone	120	U
591-78-6	2-Hexanone	61	U
79-34-5	1,1,2,2-Tetrachloroethane	61	U
108-88-3	Toluene	61	U
108-90-7	Chlorobenzene	61	U
100-41-4	Ethylbenzene	61	U
100-42-5	Styrene	61	U
1330-20-7	Xylene (total)	61	U
156-60-5	1,2-Trans-dichloroethylene	61	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0077 EPA SAMPLE NO.

CLJ78SS005

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2879V

Sample wt/vol: .50 (g/mL) G Lab File ID: C8344

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. 18 Date Analyzed: 02/06/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

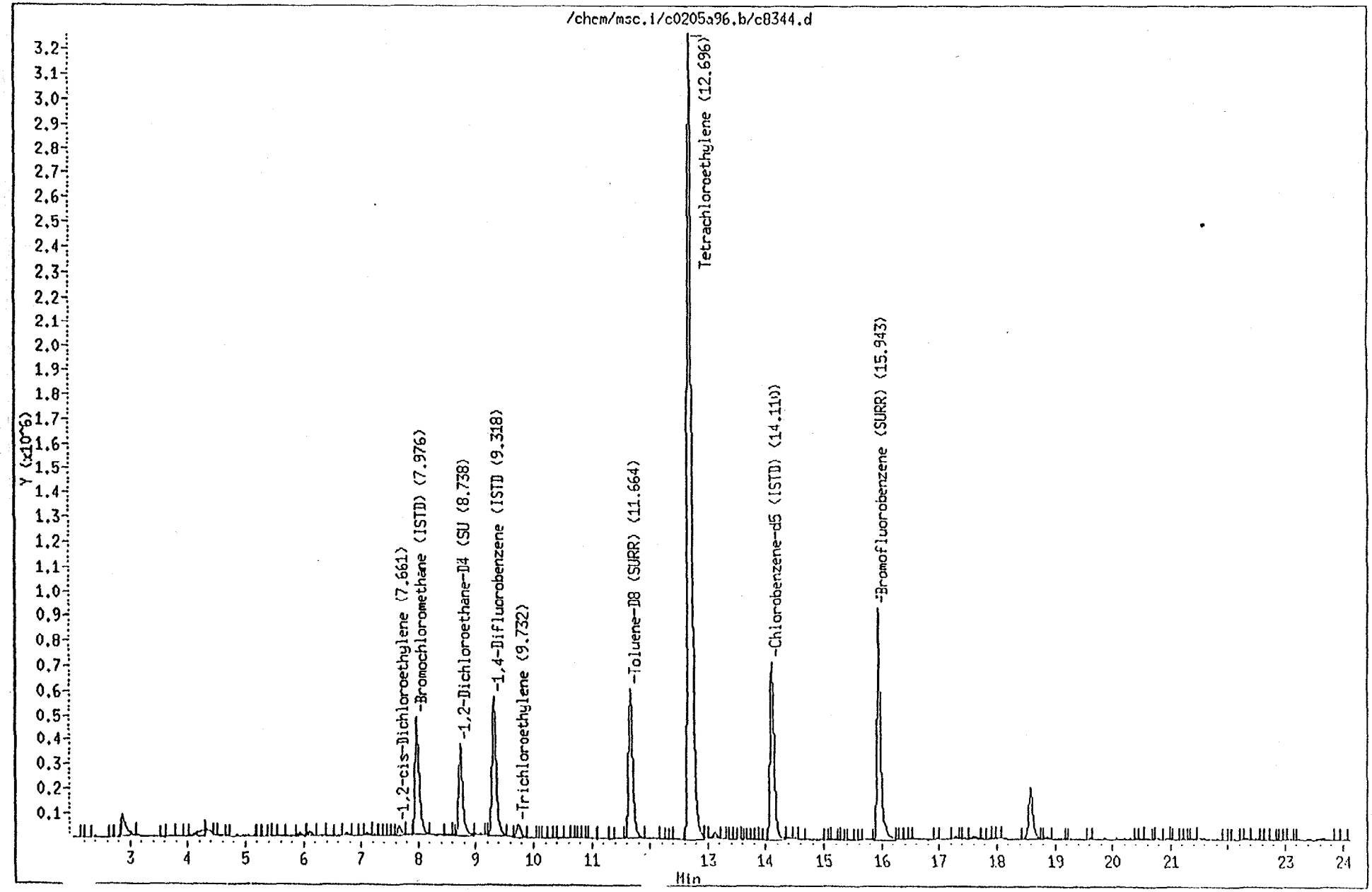
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0078

Data File: /chem/msc.i/c0205a96.b/c8344.d
Date : 06-FEB-96 00:20
Client ID: 17418n clj78ss005
Sample Info: 17418n clj78ss005
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c0205a96.b/c8344.d
Report Date: 06-Feb-1996 11:28

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 & Screen

Data file : /chem/msc.i/c0205a96.b/c8344.d
Lab Smp Id: Client Smp ID: 17418n clj78ss005
Inj Date : 06-FEB-96 00:20
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj78ss005
Misc Info : jp2879v,n2v4947,m2,5000,1,0.50,5.0,960205
Comment :
Method : /chem/msc.i/c0205a96.b/020596_heatc.m
Meth Date : 06-Feb-1996 09:01 glenn Quant Type: ISTD
Cal Date : 05-FEB-96 18:25 Cal File: c8333.d
Als bottle: 16
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 2/6/96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	18 1,2-cis-Dichloroethylene	96.00	7.661	7.622	(0.952)	31820	4.25	4.25(QM)
*	22 Bromochloromethane (ISTD)	128.00	7.968	7.937	(1.000)	267301	50.0	
S	27 1,2-Dichloroethane-D4 (SURR)	65.00	8.738	8.708	(1.097)	666213	60.7	60.7
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.326	9.280	(1.000)	868821	50.0	
	31 Trichloroethylene	130.00	9.724	9.703	(1.043)	37211	4.84	4.84
S	38 Toluene-D8 (SURR)	98.00	11.664	11.637	(0.827)	838465	47.7	47.7
	42 Tetrachloroethylene	164.00	12.705	12.670	(0.901)	1790827	211	211(A)
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.101	14.092	(1.000)	740004	50.0	
S	56 Bromofluorobenzene (SURR)	95.00	15.943	15.938	(1.131)	722763	52.1	52.1

olc

olc

- See N2V4937

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem/msc.i/c0205a96.b/c8344.d

Date : 06-FEB-96 00:20

Client ID: 17418n clj78ss005

Instrument: msc.i

Sample Info: 17418n clj78ss005

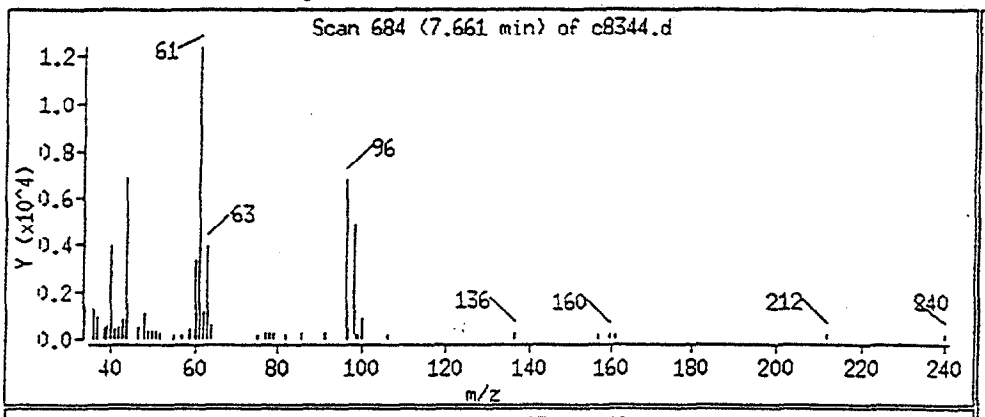
Purge Volume: 1.0

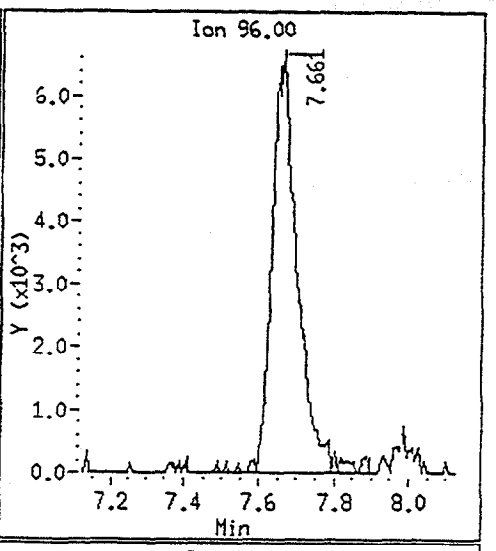
Operator: jk

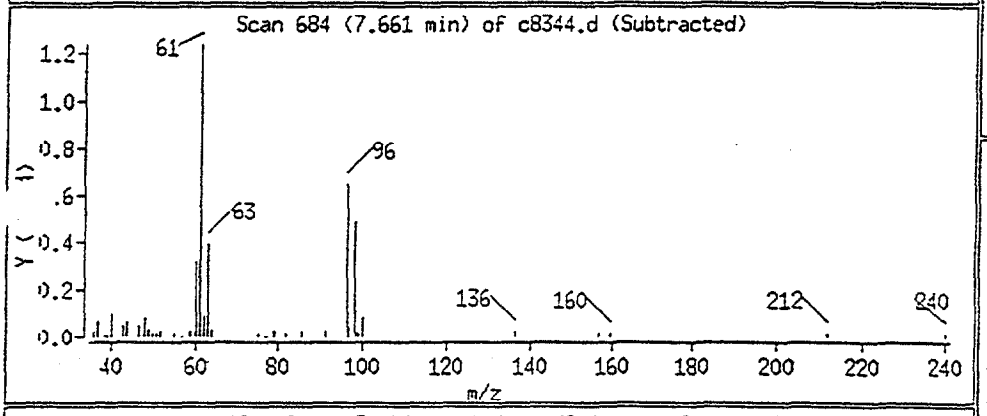
Column phase: J&W DB_624

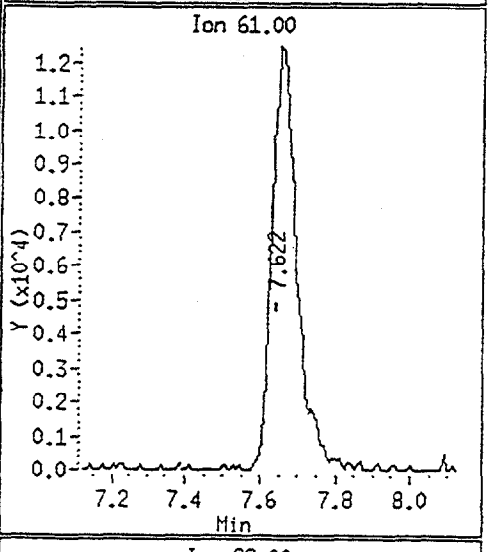
Column diameter: 0.53

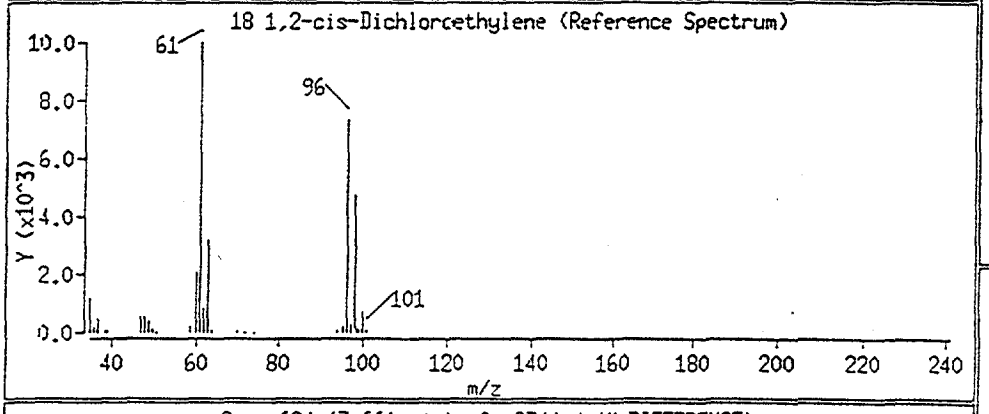
18 1,2-cis-Dichlorcethylene

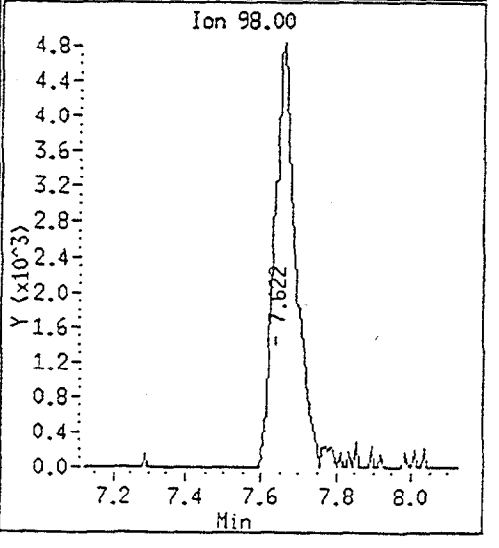


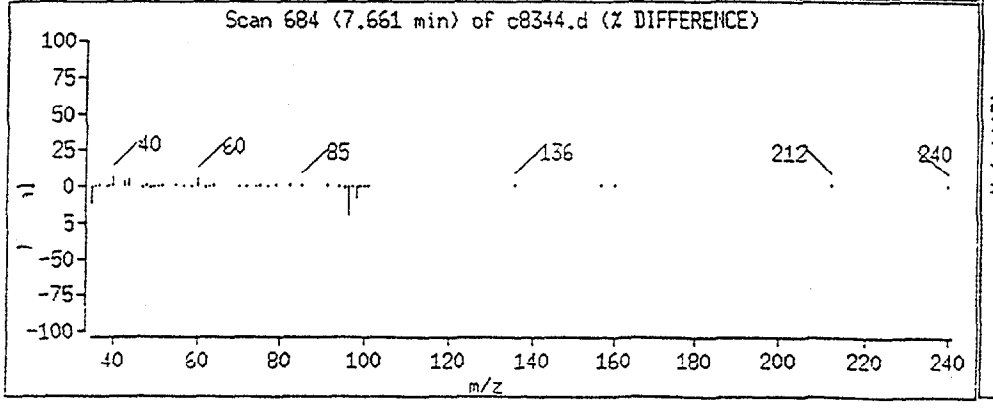












Data File: /chem/msc.i/c0205a96.b/c8344.d

Date : 06-FEB-96 00:20

Client ID: 17418n clj78ss005

Instrument: msc.i

Sample Info: 17418n clj78ss005

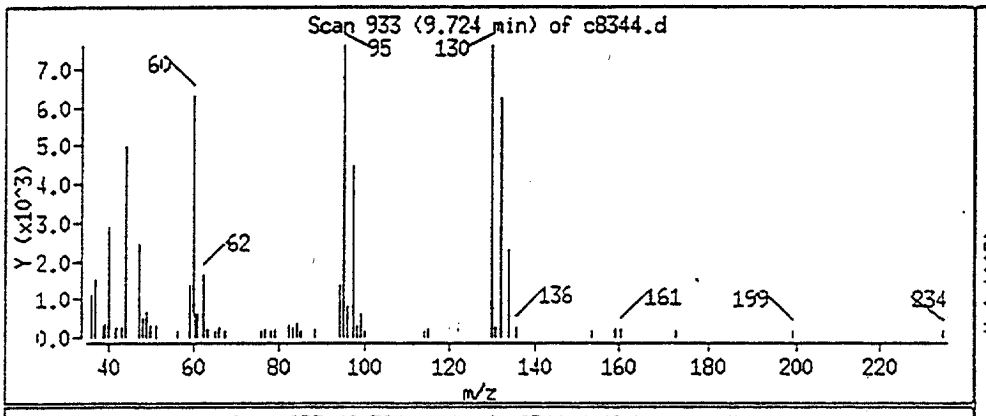
Purge Volume: 1.0

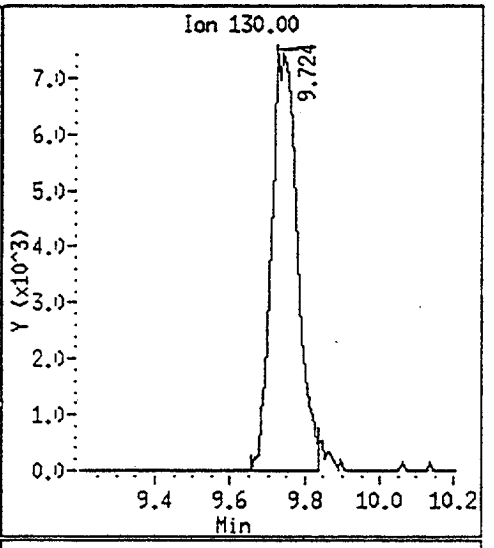
Operator: jk

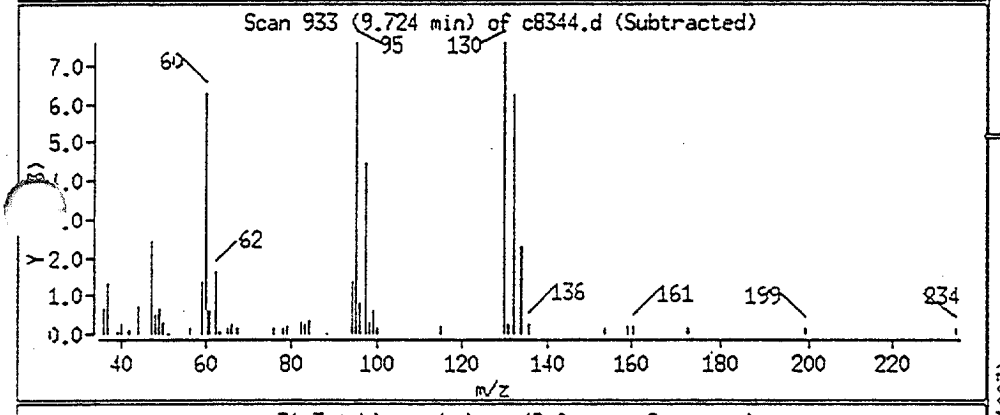
Column phase: J&W DB_624

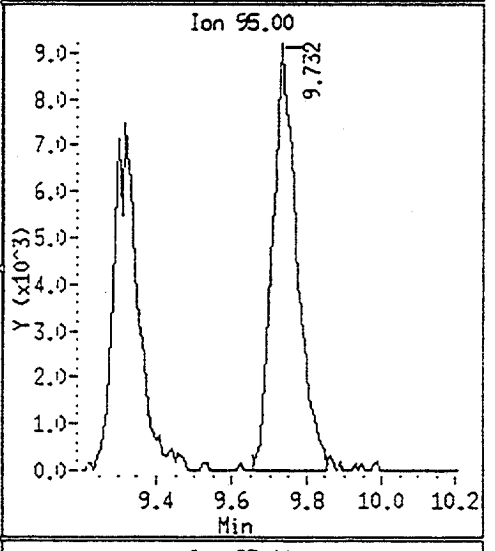
Column diameter: 0.53

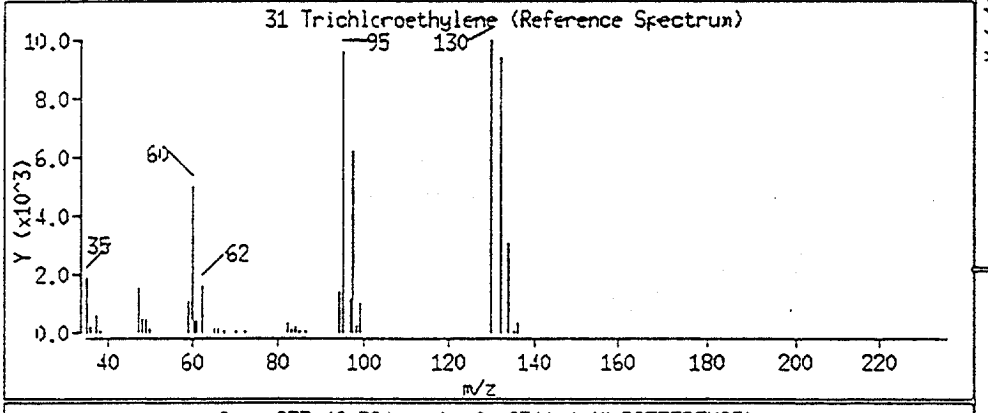
31 Trichloroethylene

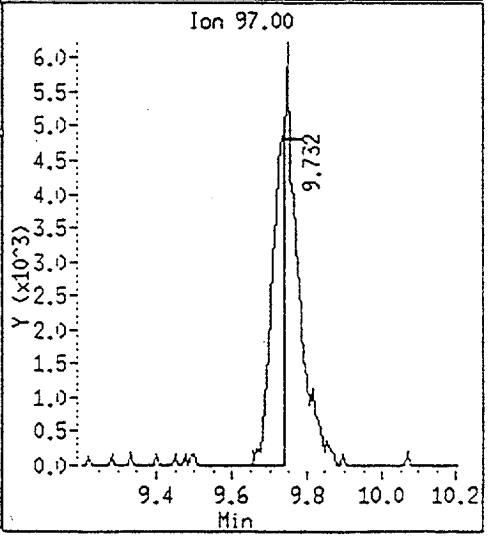


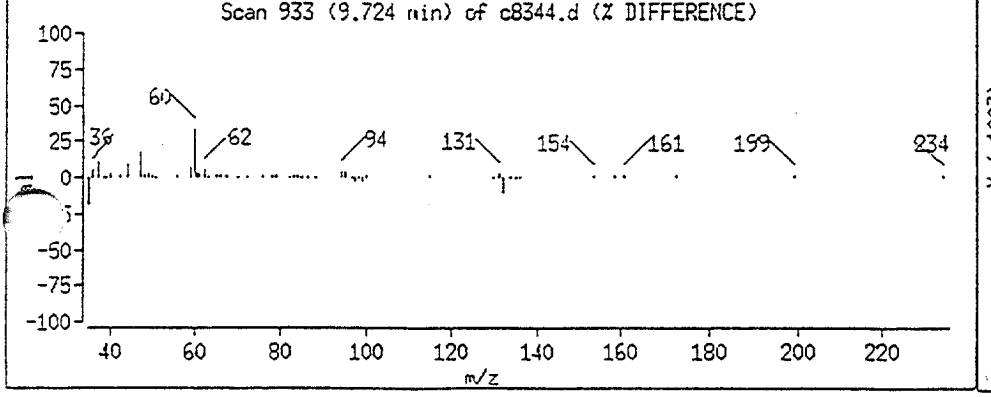












1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

0082 EPA SAMPLE NO.

CLJ78SS006

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2880V

Sample wt/vol: ~~2.61~~ 5.22 AS (g/mL) G Lab File ID: C8290

Level: (low/med) ~~LOW~~ MED Date Received: 02/02/96

% Moisture: not dec. 18 Date Analyzed: 02/03/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume: ~~5000~~ 10000 AS (uL) Soil Aliquot Volume: ~~5000~~ 200 AS (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethylene	550	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 0083

CLJ78SS006

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2880V

Sample wt/vol: ~~5.03~~ 5.22 ~~AB~~ (g/mL) G Lab File ID: C8290

Level: (low/med) ~~LOW~~ MED Date Received: 02/02/96

% Moisture: not dec. 18 Date Analyzed: 02/03/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume: ~~5000~~ 10000 ~~AB~~ (uL) Soil Aliquot Volume: ~~5000~~ ~200 ~~AB~~ (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

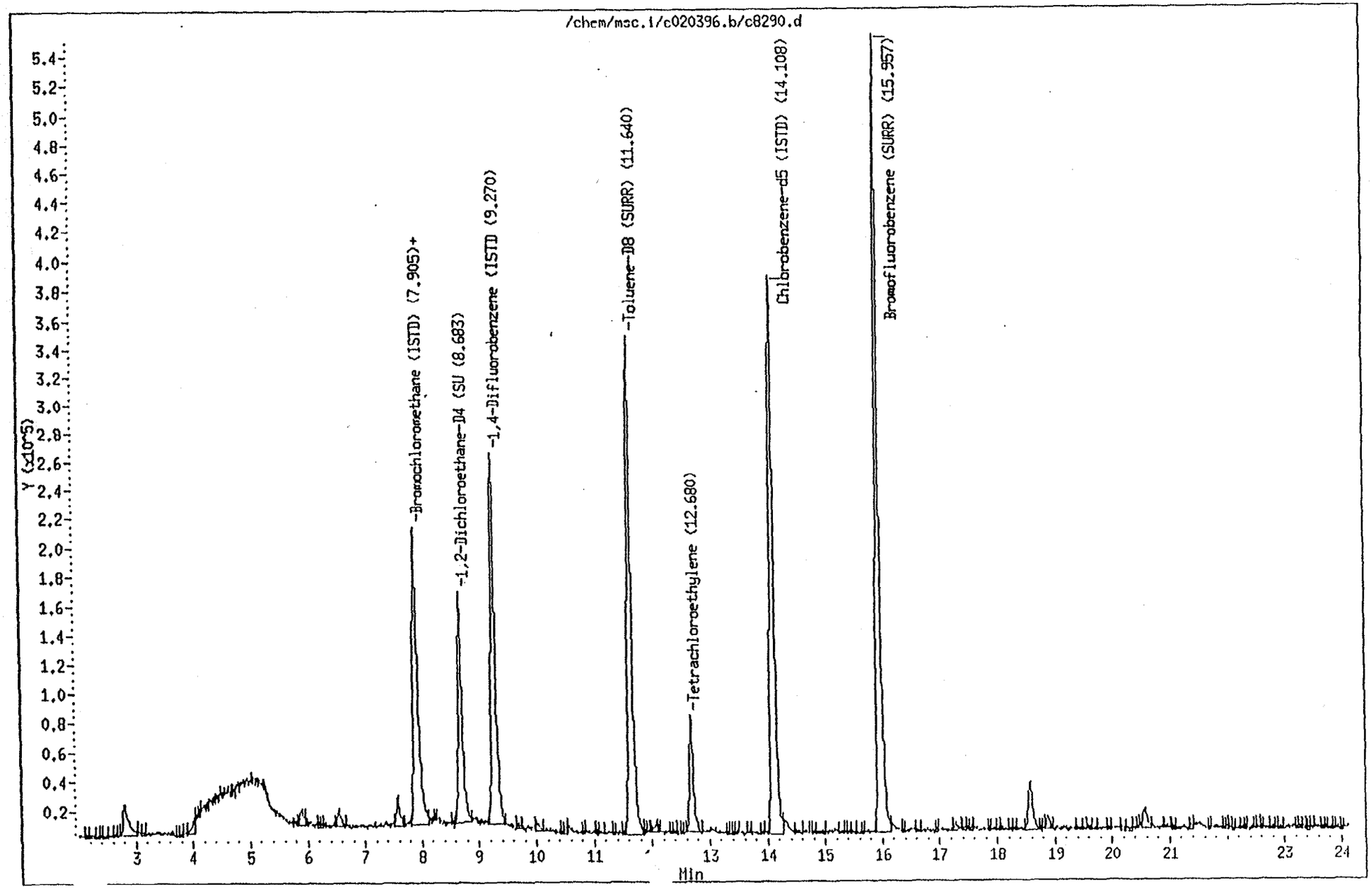
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0084

Data File: /chem/msc.i/c020396.b/c8290.d
Date : 03-FEB-96 20;56
Client ID: 17418n clj7822006
Sample Info: 17418n clj7822006 (3)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c020396.b/c8290.d
Report Date: 04-Feb-1996 14:36

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 + Screen

Data file : /chem/msc.i/c020396.b/c8290.d
Lab Smp Id: Client Smp ID: 17418n clj7822006
Inj Date : 03-FEB-96 20:56
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj7822006 (3)
Misc Info : jp2880v,n2v4939,m2,5000,25,2.61,5.0,960203,
Comment :
Method : /chem/msc.i/c020396.b/020396_ambic.m
Meth Date : 04-Feb-1996 13:54 Quant Type: ISTD
Cal Date : 03-FEB-96 14:01 Cal File: c8279.d
Als bottle: 3
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

mk 2/4/96

#590

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
2 Bromochloromethane (ISTD)	128.00	7.913	7.923	(1.000)	129172	50.0	(QM)
$ 27 1,2-Dichloroethane-D4 (SURR)	65.00	8.683	8.687	(1.000)	277857	55.5	55.5
* 30 1,4-Difluorobenzene (ISTD)	114.00	9.270	9.268	(1.000)	392031	50.0	
$ 38 Toluene-D8 (SURR)	98.00	11.640	11.630	(0.825)	483760	51.4	51.4
42 Tetrachloroethylene	164.00	12.672	12.666	(0.898)	44160	9.44	9.44
* 47 Chlorobenzene-d5 (ISTD)	117.00	14.108	14.083	(1.000)	380484	50.0	
$ 56 Bromofluorobenzene (SURR)	95.00	15.957	15.934	(1.131)	482989	51.4	51.4

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem/msc.i/c020396.b/c8290.d

Date : 03-FEB-96 20:56

Client ID: 17418n clj7822006

Instrument: msc.i

Sample Info: 17418n clj7822006 (3)

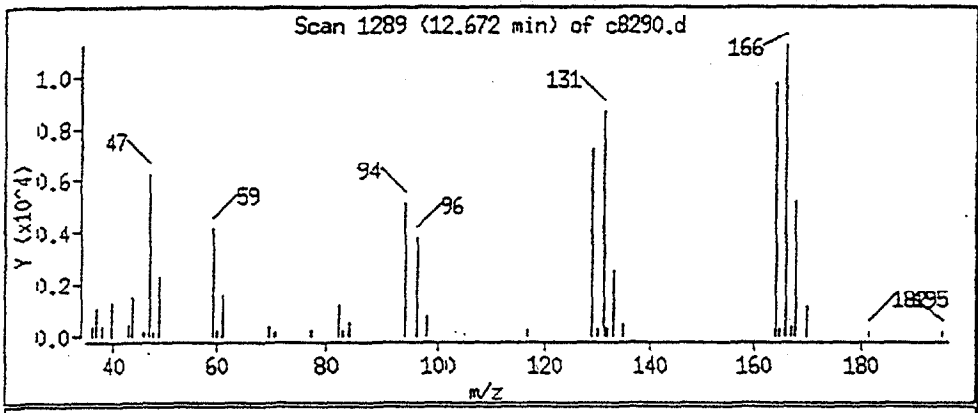
Purge Volume: 1.0

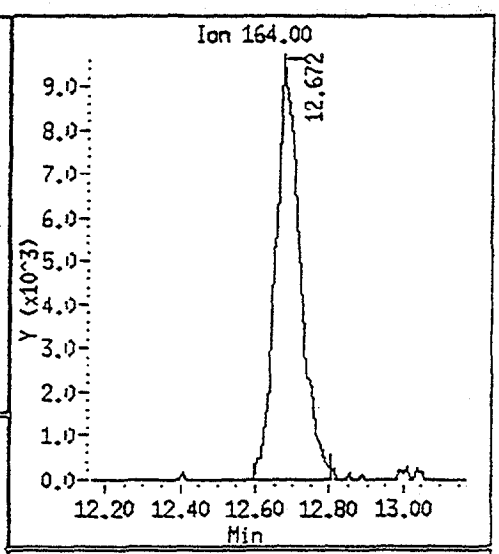
Operator: jk

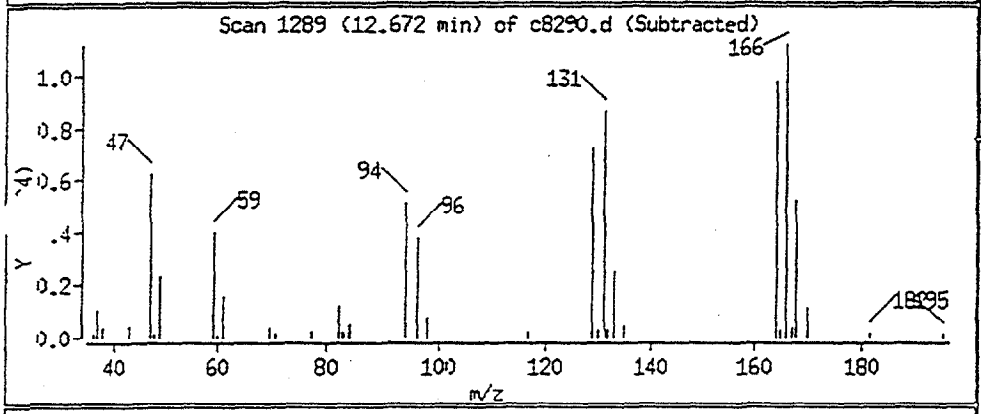
Column phase: J&W DB_624

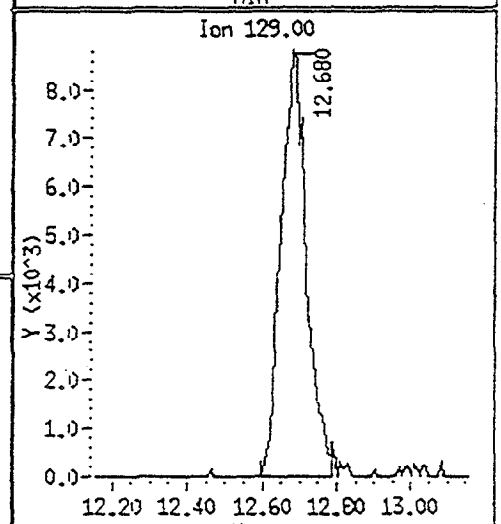
Column diameter: 0.53

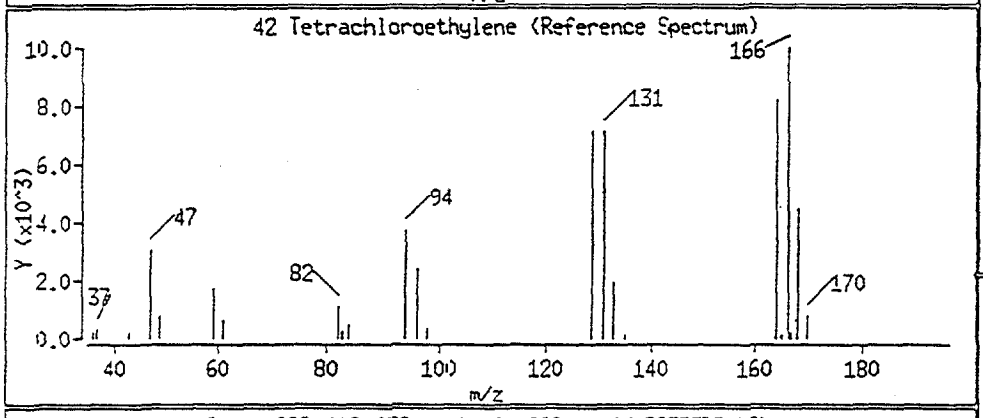
42 Tetrachloroethylene

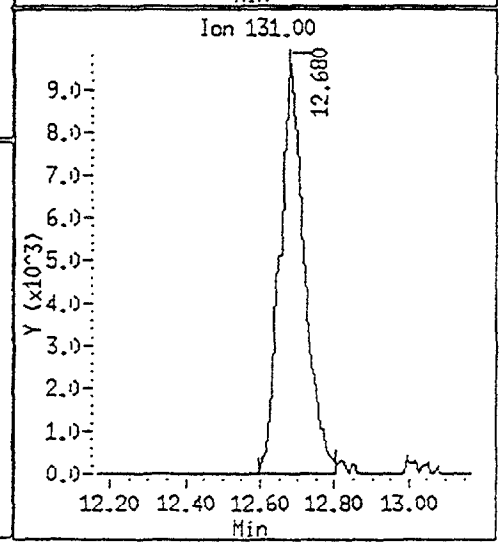


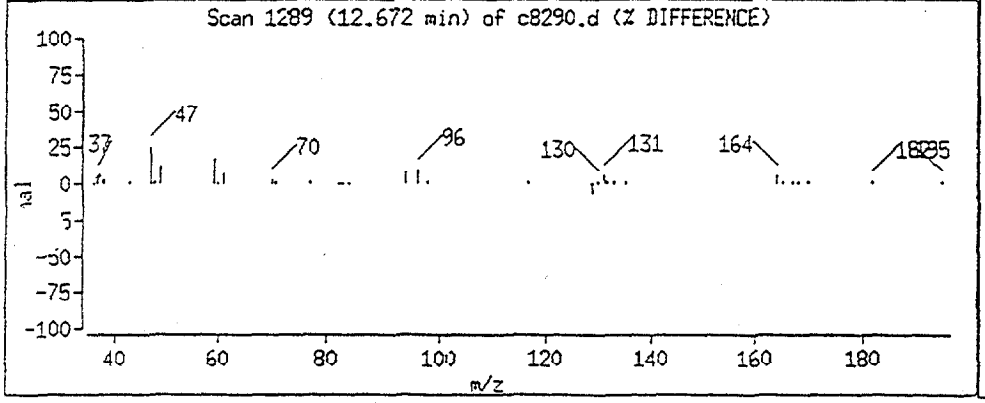












1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

0087 EPA SAMPLE NO.

CLJ78SS006

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2880V

Sample wt/vol: 1.00 (g/mL) G Lab File ID: C8341

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. 18 Date Analyzed: 02/05/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	31	U
74-83-9	Bromomethane	31	U
75-01-4	Vinyl Chloride	31	U
75-00-3	Chloroethane	31	U
75-09-2	Methylene Chloride	31	U
67-64-1	Acetone	61	U
75-15-0	Carbon Disulfide	31	U
75-35-4	1,1-Dichloroethene	31	U
75-34-3	1,1-Dichloroethane	31	U
540-59-0	1,2-Dichloroethene (total)	100	
67-66-3	Chloroform	31	U
107-06-2	1,2-Dichloroethane	31	U
78-93-3	2-Butanone	31	U
71-55-6	1,1,1-Trichloroethane	31	U
56-23-5	Carbon Tetrachloride	31	U
75-27-4	Bromodichloromethane	31	U
78-87-5	1,2-Dichloropropane	31	U
10061-01-5	cis-1,3-Dichloropropene	31	U
79-01-6	Trichloroethene	10	J
124-48-1	Dibromochloromethane	31	U
79-00-5	1,1,2-Trichloroethane	31	U
71-43-2	Benzene	31	U
10061-02-6	trans-1,3-Dichloropropene	31	U
75-25-2	Bromoform	31	U
108-10-1	Methyl-iso-butyl ketone	61	U
591-78-6	2-Hexanone	31	U
79-34-5	1,1,2,2-Tetrachloroethane	31	U
108-88-3	Toluene	31	U
108-90-7	Chlorobenzene	31	U
100-41-4	Ethylbenzene	31	U
100-42-5	Styrene	31	U
1330-20-7	Xylene (total)	31	U
156-60-5	1,2-Trans-dichloroethylene	31	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0088 EPA SAMPLE NO.

CLJ78SS006

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2880V

Sample wt/vol: 1.00 (g/mL) G Lab File ID: C8341

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. 18 Date Analyzed: 02/05/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

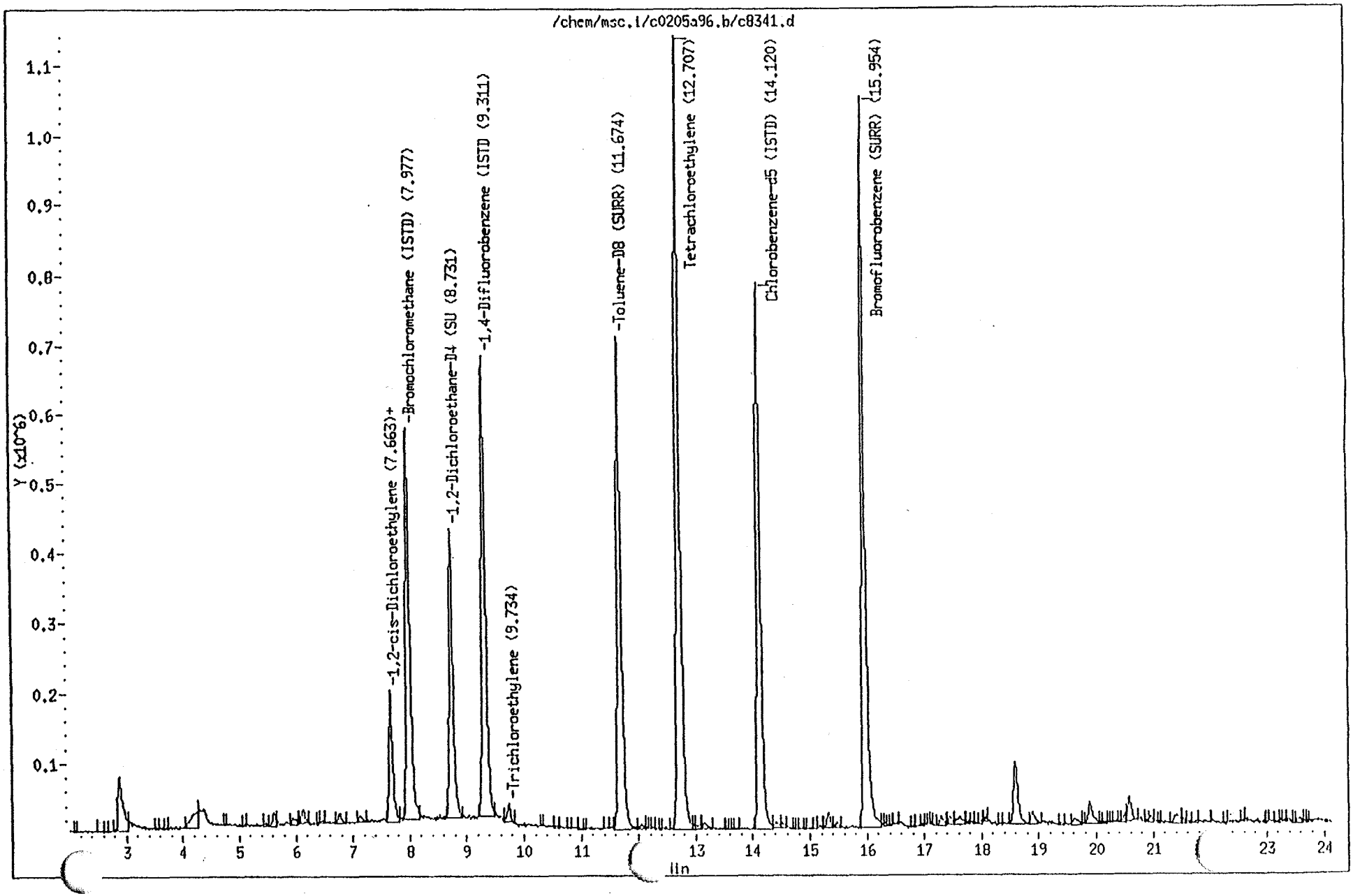
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0089

Data File: /chem/msc.i/c0205a96.b/c8341.d
Date : 05-FEB-96 22:43
Client ID: 17418n clj78ss006
Sample Info: 17418n clj78ss006
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c0205a96.b/c8341.d
Report Date: 06-Feb-1996 11:02

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 &Screen

Data file : /chem/msc.i/c0205a96.b/c8341.d
Lab Smp Id:
Client Smp ID: 17418n clj78ss006
Inj Date : 05-FEB-96 22:43
Operator : jk
Inst ID: msc.i
Smp Info : 17418n clj78ss006
Misc Info : jp2880v,n2v4947,m2,5000,1,1.00,5.0,960205
Comment :
Method : /chem/msc.i/c0205a96.b/020596_heatc.m
Meth Date : 06-Feb-1996 09:01 glenn
Quant Type: ISTD
Cal Date : 05-FEB-96 18:25
Cal File: c8333.d
Als bottle: 13
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 3.10

MJC 2/6/96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	.8 1,2-cis-Dichloroethylene	96.00	7.654	7.622	(0.959)	145335	16.4	16.4 (QM)
*	22 Bromochloromethane (ISTD)	128.00	7.977	7.937	(1.000)	316911	50.0	
$	27 1,2-Dichloroethane-D4 (SURR)	65.00	8.731	8.708	(1.094)	730034	56.1	56.1
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.311	9.280	(1.000)	1040821	50.0	
	31 Trichloroethylene	130.00	9.726	9.703	(1.045)	15440	1.68	1.68
$	38 Toluene-D8 (SURR)	98.00	11.674	11.637	(0.827)	996382	52.1	52.1
	42 Tetrachloroethylene	164.00	12.707	12.670	(0.900)	630392	68.4	68.4 Sec
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.120	14.092	(1.000)	805279	50.0	
$	56 Bromofluorobenzene (SURR)	95.00	15.954	15.938	(1.130)	841814	55.7	55.7

N2V4947

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem/msc.i/c0205a96.b/c8341.d

Date : 05-FEB-96 22:43

Client ID: 17418n clj78ss006

Instrument: msc.i

Sample Info: 17418n clj78ss006

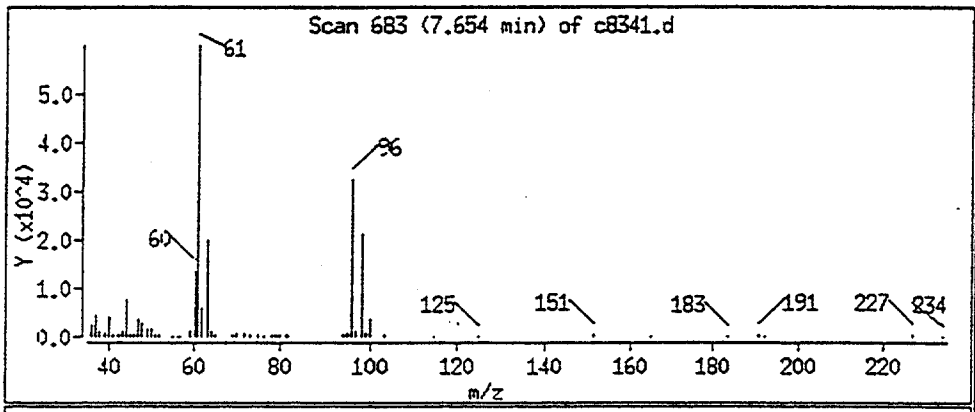
Purge Volume: 1.0

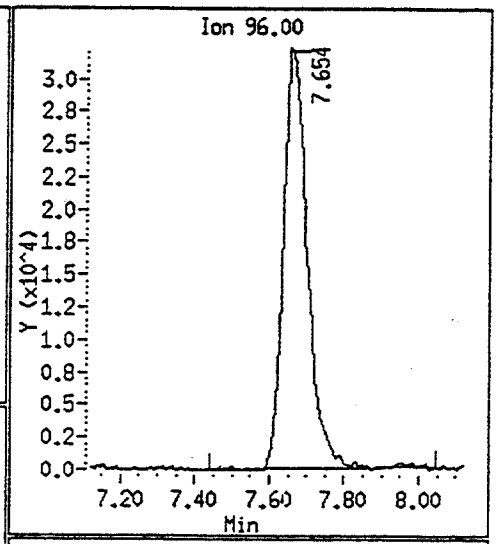
Operator: jk

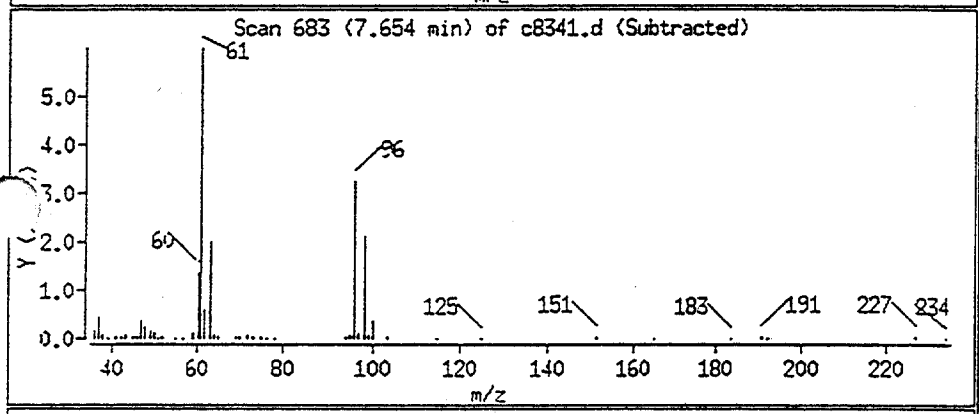
Column phase: J&W DB_624

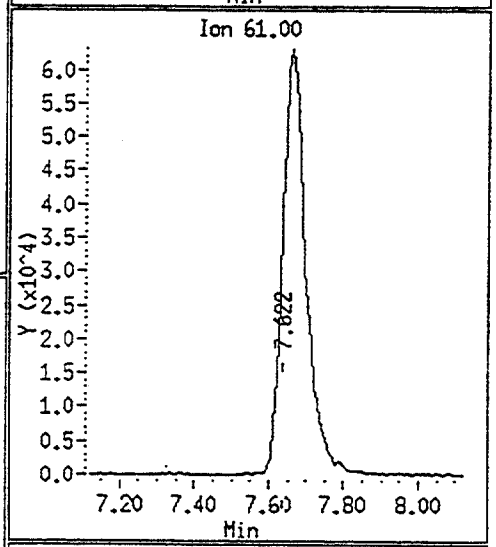
Column diameter: 0.53

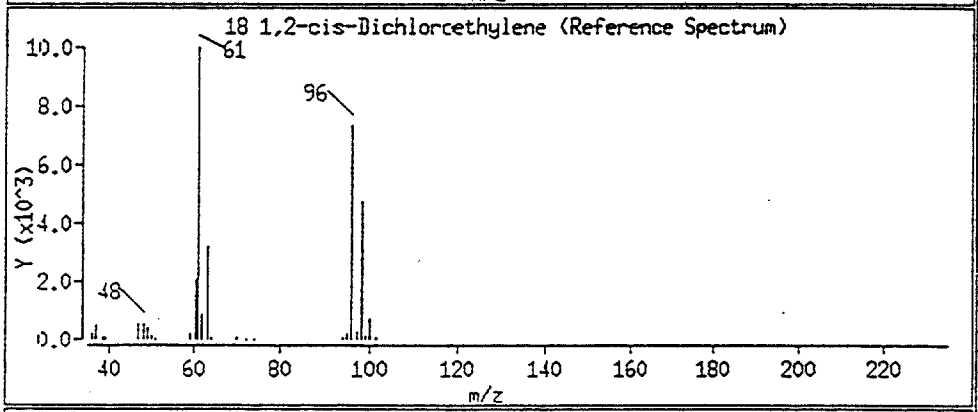
18 1,2-cis-Dichlorcethylene

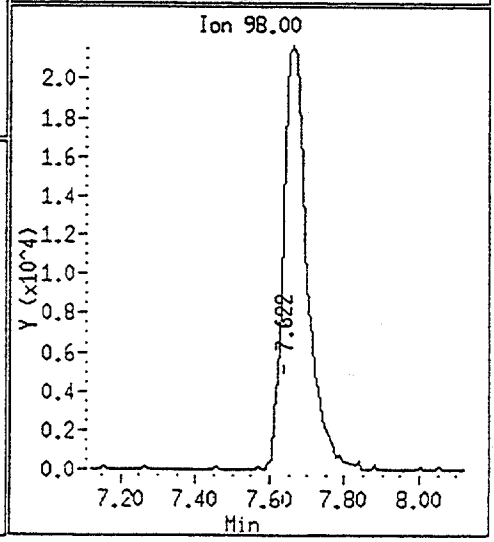


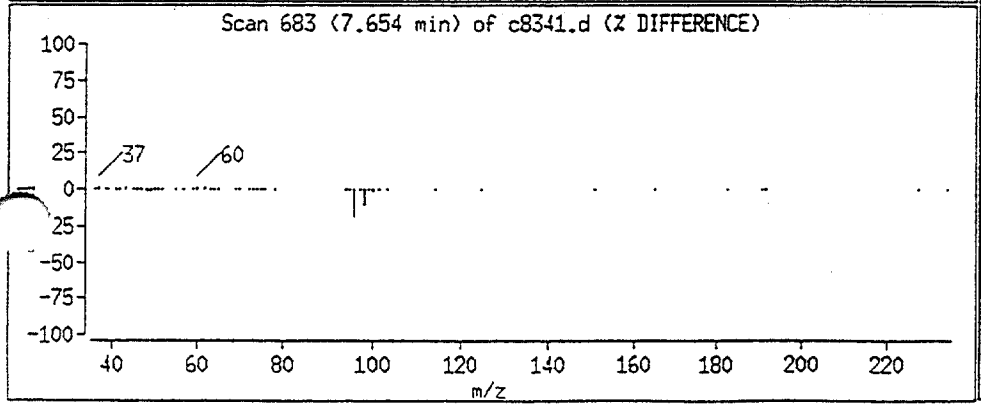












Data File: /chem/msc.i/c0205a96.b/c8341.d

Date : 05-FEB-96 22:43

Client ID: 17418n clj78ss006

Instrument: msc.i

Sample Info: 17418n clj78ss006

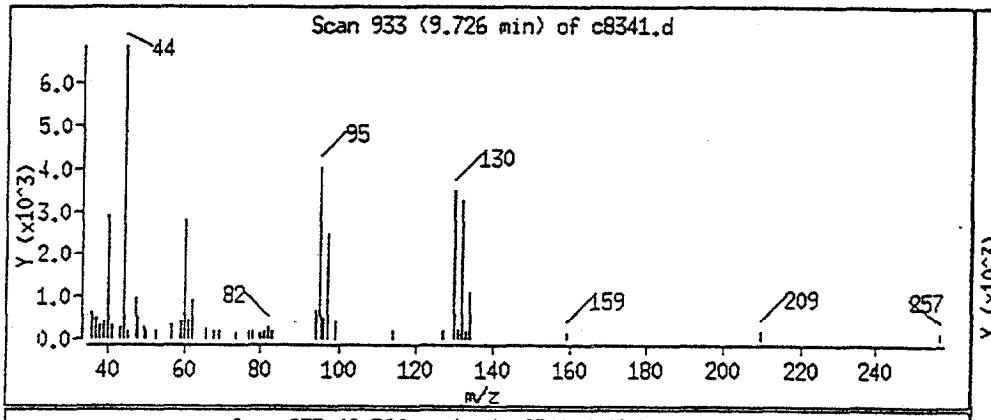
Purge Volume: 1.0

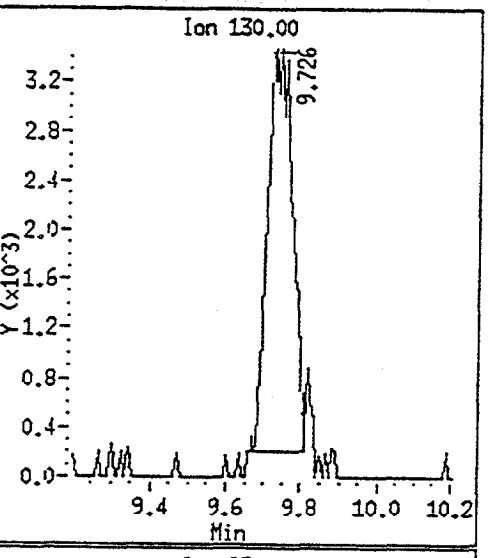
Operator: jk

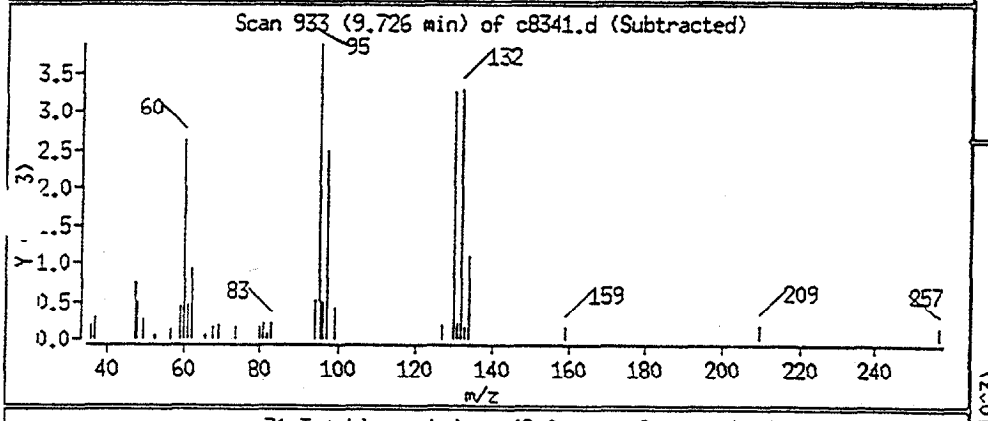
Column phase: J&W DB_624

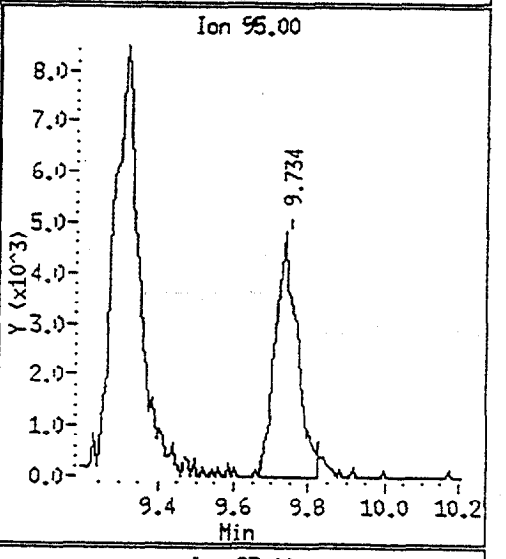
Column diameter: 0.53

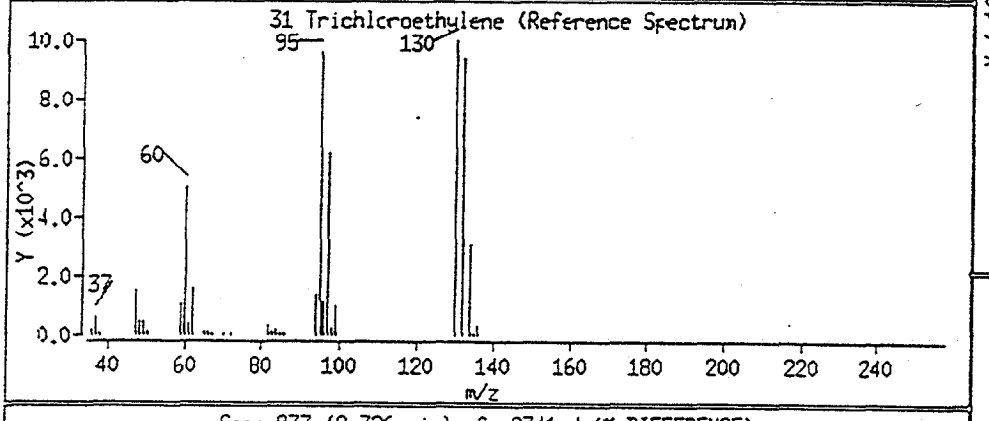
31 Trichloroethylene

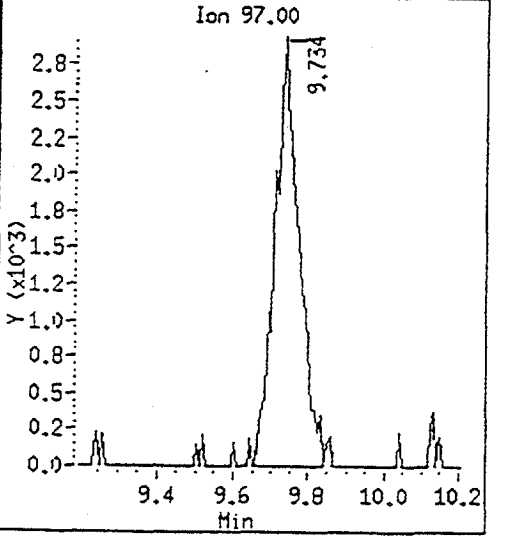


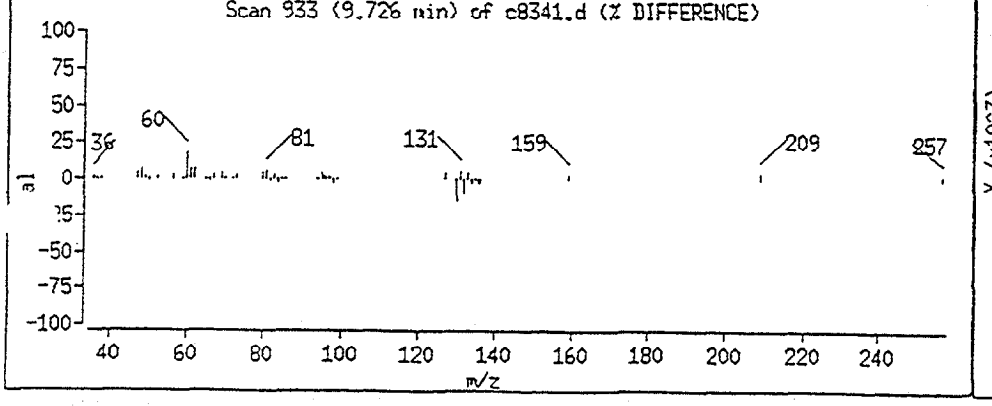












1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0093

CL78SS06D

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2881V

Sample wt/vol: ~~2.6~~ 5.32 (g/mL) G Lab File ID: C8291

Level: (low/med) ~~LOW~~ MED Date Received: 02/02/96

% Moisture: not dec. 20 Date Analyzed: 02/03/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume: ~~5000~~ 10000 (uL) Soil Aliquot Volume: ~~5000~~ 200 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethylene	630	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0094 EPA SAMPLE NO.

CL78SS06D

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2881V

Sample wt/vol: ~~2.6018~~ 5.32 (g/mL) G Lab File ID: C8291

Level: (low/med) ~~LOW~~ MED Date Received: 02/02/96

% Moisture: not dec. 20 Date Analyzed: 02/03/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume: ~~5000~~ 10000 (uL) Soil Aliquot Volume: ~~5000~~ 200 (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

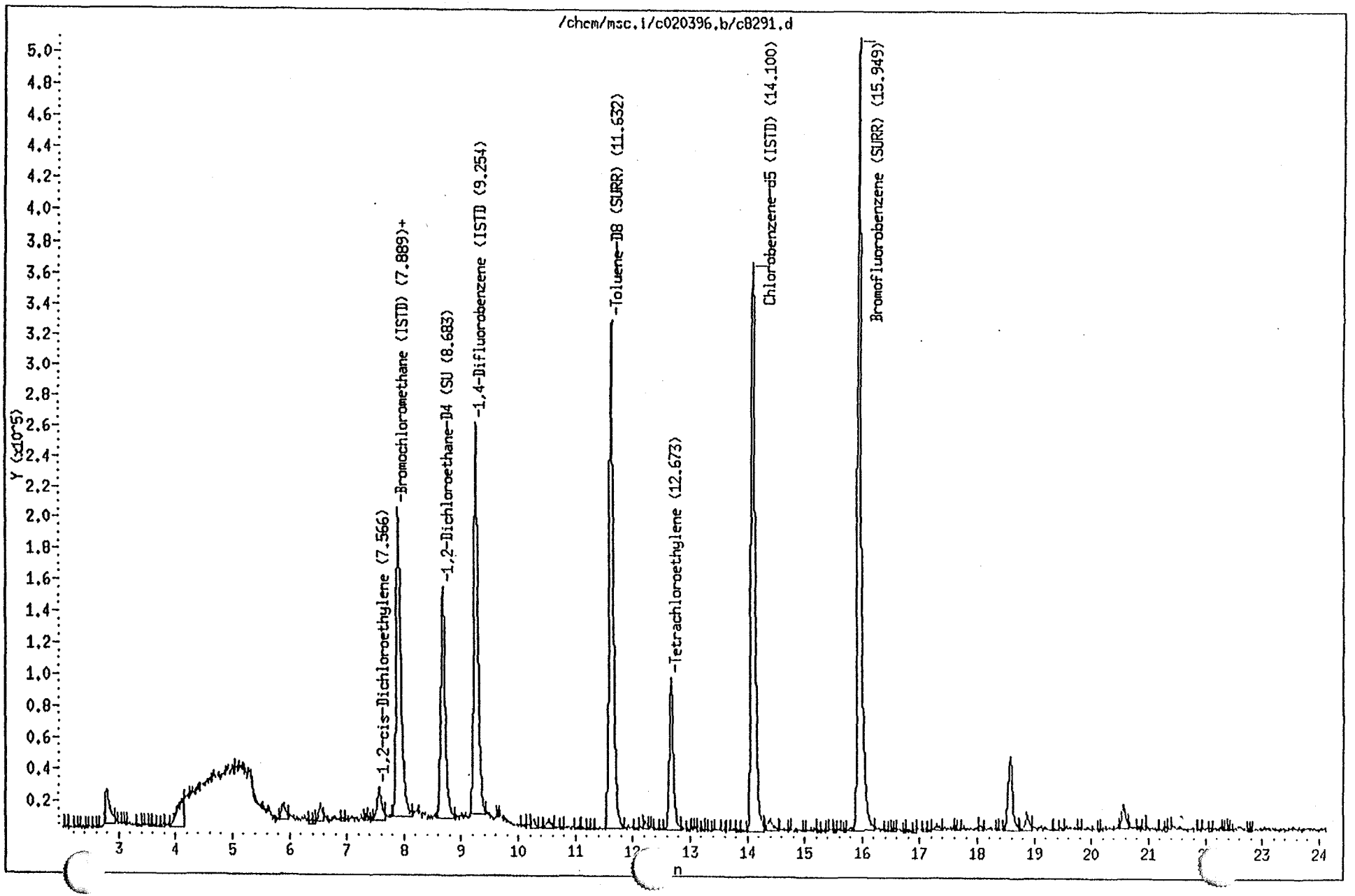
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0095

Data File: /chem/msc.i/c020396.b/c8291.d
Date : 03-FEB-96 21:28
Client ID: 17418n clj7822006d
Sample Info: 17418n clj7822006d (4)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c020396.b/c8291.d
Report Date: 04-Feb-1996 14:37

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 V Screen

Data file : /chem/msc.i/c020396.b/c8291.d
Lab Smp Id: Client Smp ID: 17418n clj7822006d
Inj Date : 03-FEB-96 21:28
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj7822006d (4)
Misc Info : jp2881v,n2v4939,m2,5000,25,2.66,5.0,960203,
Comment :
Method : /chem/msc.i/c020396.b/020396_ambic.m
Meth Date : 04-Feb-1996 13:54 Quant Type: ISTD
Cal Date : 03-FEB-96 14:01 Cal File: c8279.d
Als bottle: 4
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 2/4/96

590

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
3 1,2-cis-Dichloroethylene	96.00	7.574	7.608	(0.959)	16718	4.76	4.76 (QM)
* 22 Bromochloromethane (ISTD)	128.00	7.897	7.923	(1.000)	125900	50.0	(QM)
$ 27 1,2-Dichloroethane-D4 (SURR)	65.00	8.683	8.687	(1.000)	272078	55.7	55.7
* 30 1,4-Difluorobenzene (ISTD)	114.00	9.263	9.268	(1.000)	383150	50.0	
$ 38 Toluene-D8 (SURR)	98.00	11.632	11.630	(0.824)	464850	51.0	51.0
42 Tetrachloroethylene	164.00	12.673	12.666	(0.898)	48953	10.8	10.8
* 47 Chlorobenzene-d5 (ISTD)	117.00	14.108	14.083	(1.000)	368247	50.0	
$ 56 Bromofluorobenzene (SURR)	95.00	15.949	15.934	(1.130)	461160	50.8	50.8

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem/msc.i/c020396.b/c8291.d

Date : 03-FEB-96 21:28

Client ID: 17418n clj7822006d

Instrument: msc.i

Sample Info: 17418n clj7822006d (4)

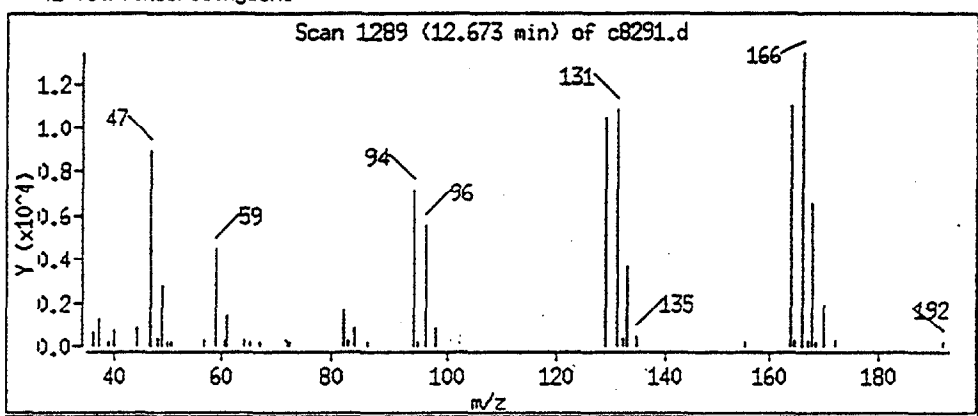
Purge Volume: 1.0

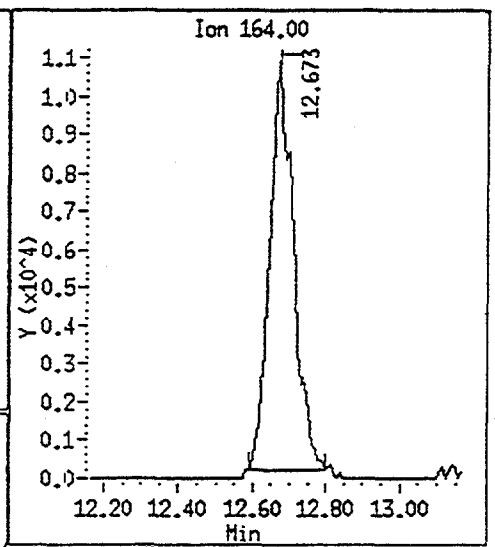
Operator: jk

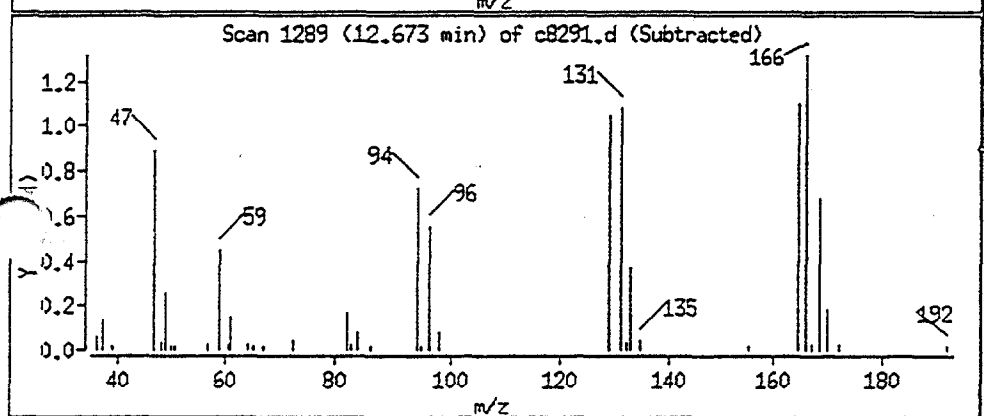
Column phase: J&W DB_624

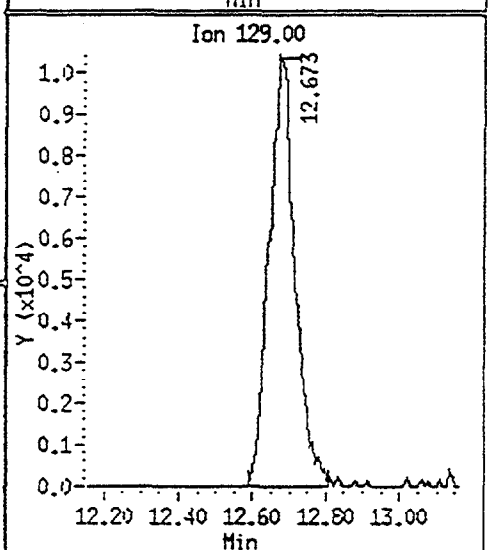
Column diameter: 0.53

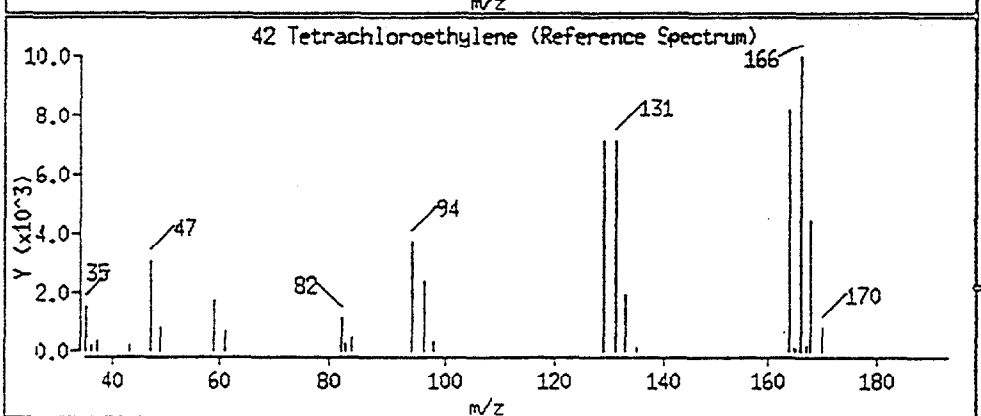
42 Tetrachloroethylene

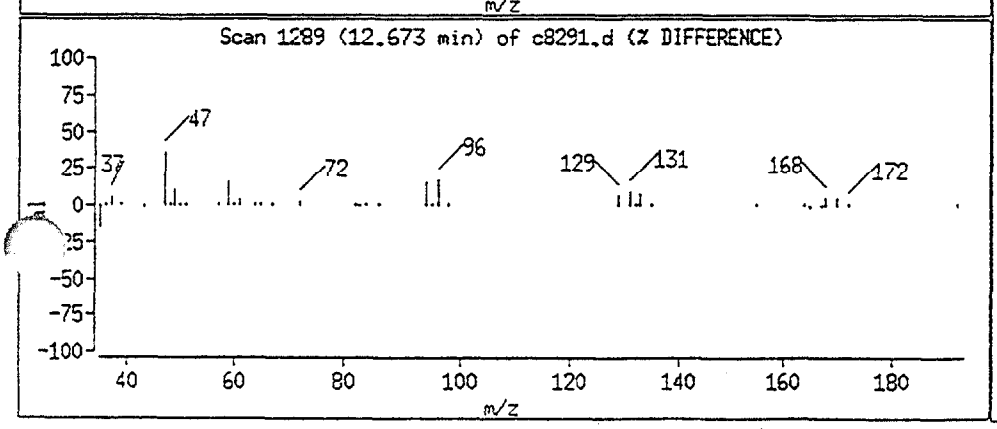


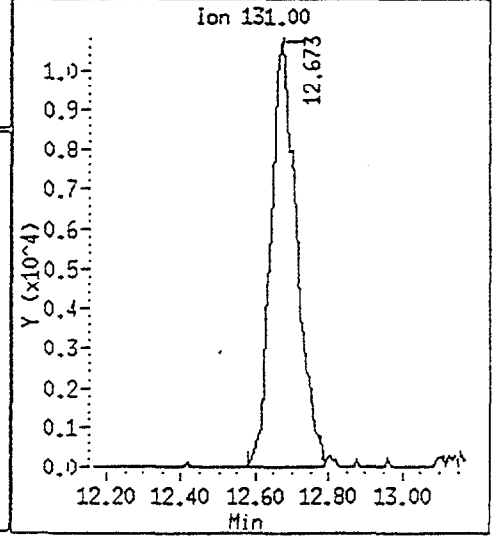












1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

0098 EPA SAMPLE NO.

CL78SS06D

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2881V

Sample wt/vol: .91 (g/mL) G Lab File ID: C8342

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. 20 Date Analyzed: 02/05/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	34	U
74-83-9	Bromomethane	34	U
75-01-4	Vinyl Chloride	34	U
75-00-3	Chloroethane	34	U
75-09-2	Methylene Chloride	34	U
67-64-1	Acetone	68	U
75-15-0	Carbon Disulfide	34	U
75-35-4	1,1-Dichloroethene	34	U
75-34-3	1,1-Dichloroethane	34	U
540-59-0	1,2-Dichloroethene (total)	140	
67-66-3	Chloroform	34	U
107-06-2	1,2-Dichloroethane	34	U
78-93-3	2-Butanone	34	U
71-55-6	1,1,1-Trichloroethane	34	U
56-23-5	Carbon Tetrachloride	34	U
75-27-4	Bromodichloromethane	34	U
78-87-5	1,2-Dichloropropane	34	U
10061-01-5	cis-1,3-Dichloropropene	34	U
79-01-6	Trichloroethene	34	U
124-48-1	Dibromochloromethane	34	U
79-00-5	1,1,2-Trichloroethane	34	U
71-43-2	Benzene	34	U
10061-02-6	trans-1,3-Dichloropropene	34	U
75-25-2	Bromoform	34	U
108-10-1	Methyl-iso-butyl ketone	68	U
591-78-6	2-Hexanone	34	U
79-34-5	1,1,2,2-Tetrachloroethane	34	U
108-88-3	Toluene	34	U
108-90-7	Chlorobenzene	34	U
100-41-4	Ethylbenzene	34	U
100-42-5	Styrene	34	U
1330-20-7	Xylene (total)	34	U
156-60-5	1,2-Trans-dichloroethylene	34	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0099 EPA SAMPLE NO.

CL78SS06D

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2881V

Sample wt/vol: .91 (g/mL) G Lab File ID: C8342

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. 20 Date Analyzed: 02/05/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

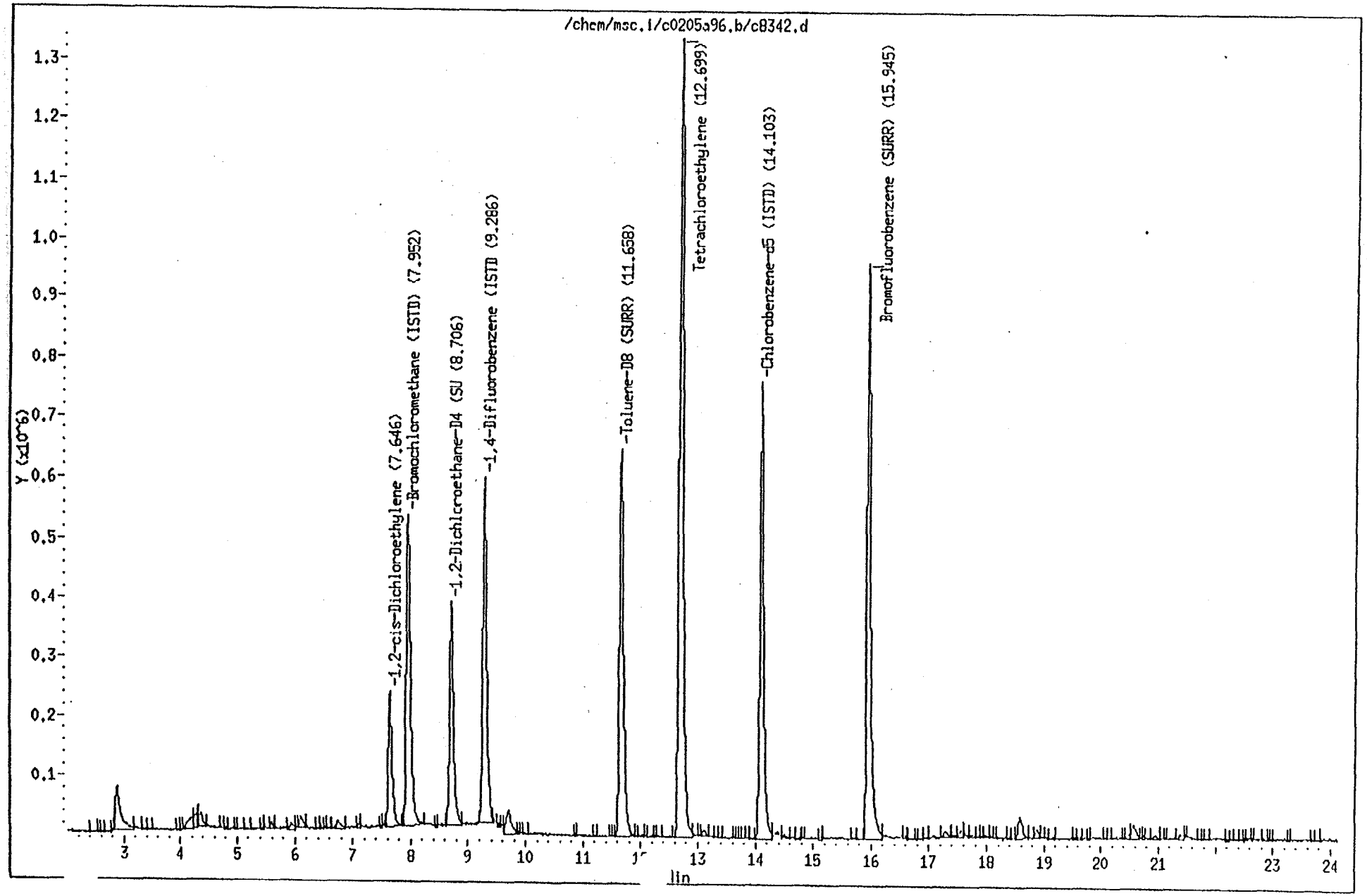
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0100

Data File: /chem/msc.i/c0205a96.b/c8342.d
Date : 05-FEB-96 23:15
Client ID: 17418n clj78ss006d
Sample Info: 17418n clj78ss006d
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c0205a96.b/c8342.d
Report Date: 06-Feb-1996 11:10

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 + Screen

Data file : /chem/msc.i/c0205a96.b/c8342.d
Lab Smp Id:
Client Smp ID: 17418n clj78ss006d
Inj Date : 05-FEB-96 23:15
Operator : jk
Inst ID: msc.i
Smp Info : 17418n clj78ss006d
Misc Info : jp2881v,n2v4947,m2,5000,1,0.91,5.0,960205
Comment :
Method : /chem/msc.i/c0205a96.b/020596_heatc.m
Meth Date : 06-Feb-1996 09:01 glenn
Quant Type: ISTD
Cal Date : 05-FEB-96 18:25
Cal File: c8333.d
Als bottle: 14
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 3.10

MK 2/6/96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	18 1,2-cis-Dichloroethylene	96.00	7.654	7.622	(0.963)	170741	20.9	20.9 (QM)
*	22 Bromochloromethane (ISTD)	128.00	7.952	7.937	(1.000)	292140	50.0	
$	27 1,2-Dichloroethane-D4 (SURR)	65.00	8.706	8.708	(1.095)	668555	55.7	55.7
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.295	9.280	(1.000)	901354	50.0	
$	38 Toluene-D8 (SURR)	98.00	11.666	11.637	(0.827)	907695	50.5	50.5
	42 Tetrachloroethylene	164.00	12.699	12.670	(0.900)	729445	84.1	84.1 → see N2049
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.103	14.092	(1.000)	757692	50.0	
$	56 Bromofluorobenzene (SURR)	95.00	15.945	15.938	(1.131)	760785	53.5	53.5

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem/msc.i/c0205a96.b/c8342.d

Date : 05-FEB-96 23:15

Client ID: 17418n clj78ss006d

Instrument: msc.i

Sample Info: 17418n clj78ss006d

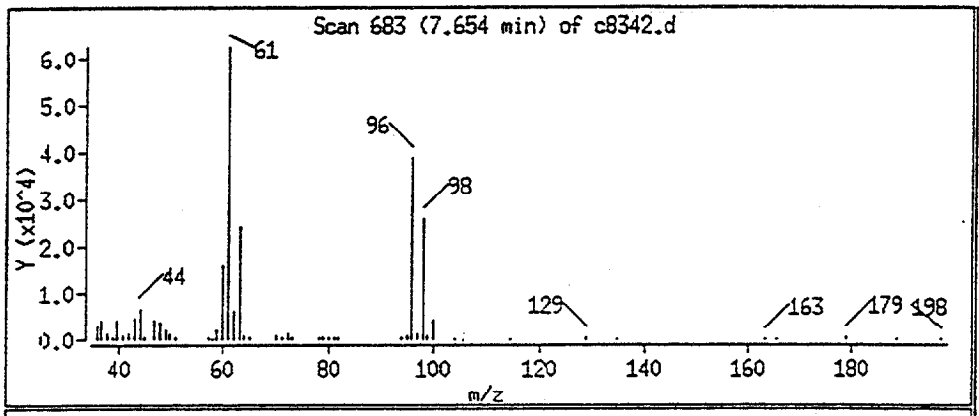
Purge Volume: 1.0

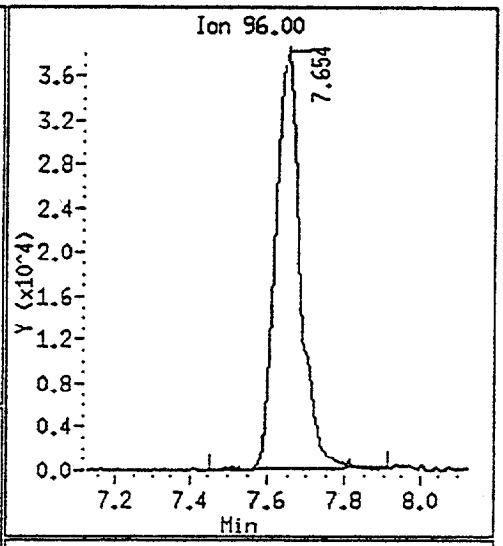
Operator: jk

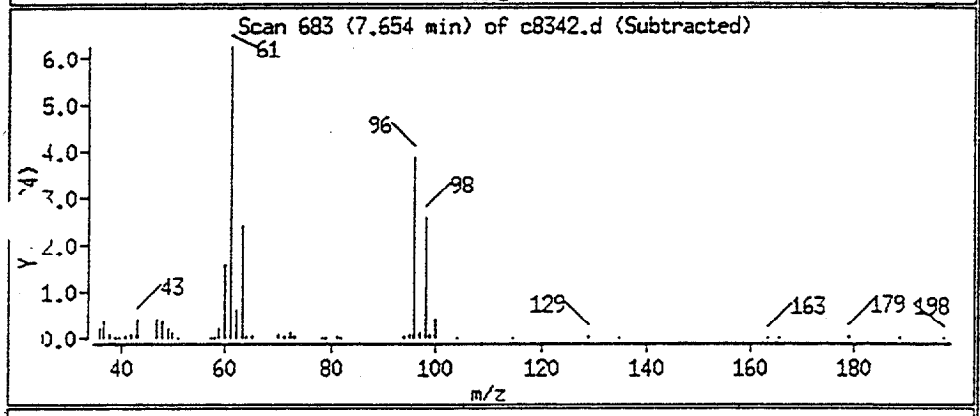
Column phase: J&W DB_624

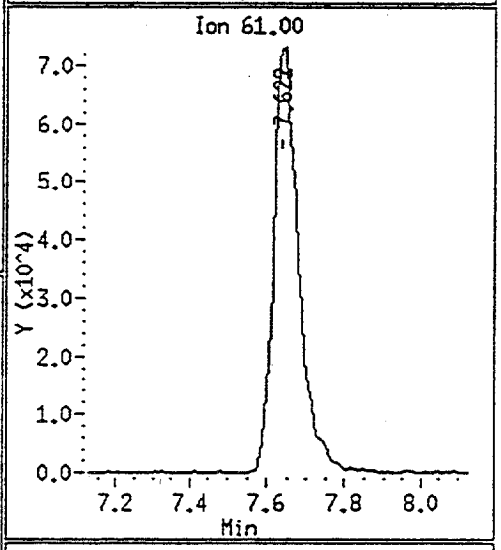
Column diameter: 0.53

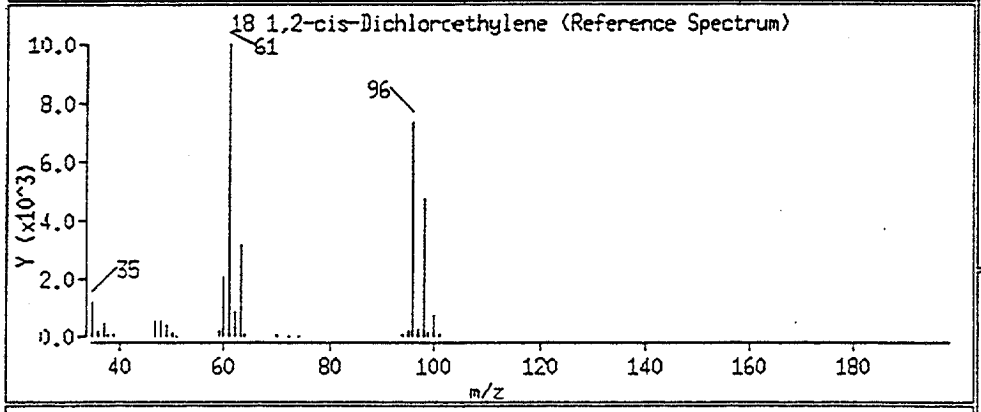
18 1,2-cis-Dichlorcethylene

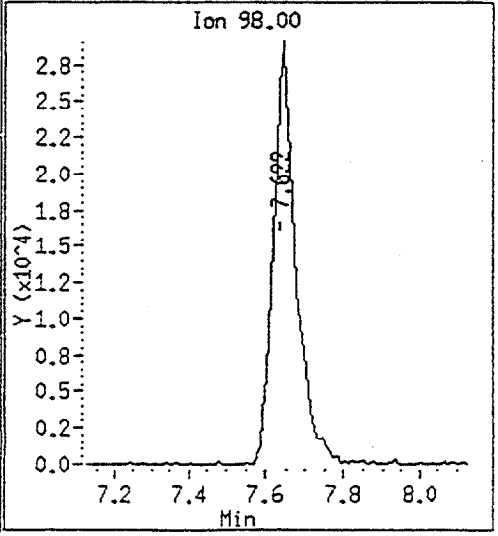


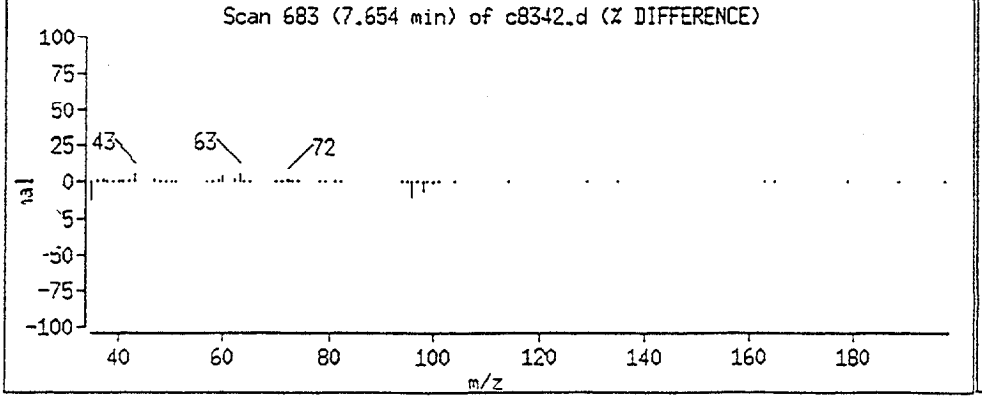












1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

0103 EPA SAMPLE NO.

CLJ-FB

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS01

Matrix: (soil/water) WATER Lab Sample ID: JP2882V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C8308

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. N/A Date Analyzed: 02/04/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	Methyl-iso-butyl ketone	10	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethylene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0104 EPA SAMPLE NO.

CLJ-FB

ab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS01

Matrix: (soil/water) WATER Lab Sample ID: JP2882V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C8308

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. N/A Date Analyzed: 02/04/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

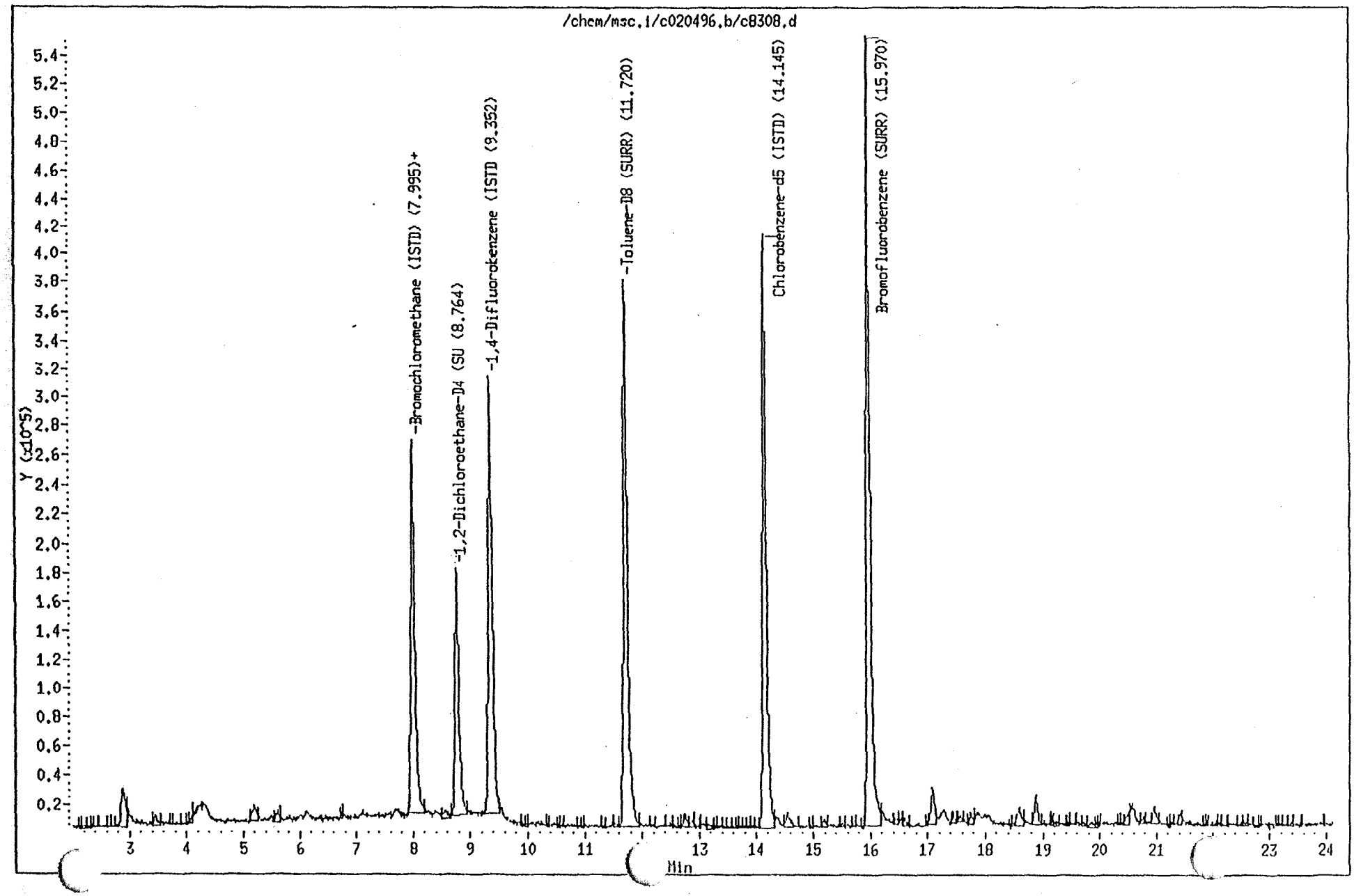
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0105

Data File: /chem/msc.i/c020496.b/c8308.d
Date : 04-FEB-96 21:21
Client ID: 17418n clj-fb
Sample Info: 17418n clj-fb (2)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c020496.b/c8308.d
Report Date: 05-Feb-1996 09:24

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 + Screen

Data file : /chem/msc.i/c020496.b/c8308.d
Lab Smp Id: Client Smp ID: 17418n clj-fb
Inj Date : 04-FEB-96 21:21
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj-fb (2)
Misc Info : jp2882v,n1v4940,m2,5000,1,5.0,5.0,960204,
Comment :
Method : /chem/msc.i/c020496.b/020396_ambic.m
Meth Date : 05-Feb-1996 09:20 glenn Quant Type: ISTD
Cal Date : 04-FEB-96 15:19 Cal File: c8297.d
Als bottle: 2
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MC 2/5/96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	
	2 Bromochloromethane (ISTD)	128.00	7.995	7.902	(1.000)	143214	50.0		(QM)
$	27 1,2-Dichloroethane-D4 (SURR)	65.00	8.756	8.673	(1.000)	289921	52.4	52.4	
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.352	9.285	(1.000)	428104	50.0		
$	38 Toluene-D8 (SURR)	98.00	11.720	11.599	(0.828)	514642	48.9	48.9	
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.154	14.029	(1.000)	410183	50.0		
$	56 Bromofluorobenzene (SURR)	95.00	15.978	15.883	(1.129)	486277	46.6	46.6	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. **0107**

CLJ-RB

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS01

Matrix: (soil/water) WATER Lab Sample ID: JP2883V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C8309

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. N/A Date Analyzed: 02/04/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	Methyl-iso-butyl ketone	10	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethylene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0108 EPA SAMPLE NO.

CLJ-RB

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS01

Matrix: (soil/water) WATER Lab Sample ID: JP2883V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C8309

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. N/A Date Analyzed: 02/04/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

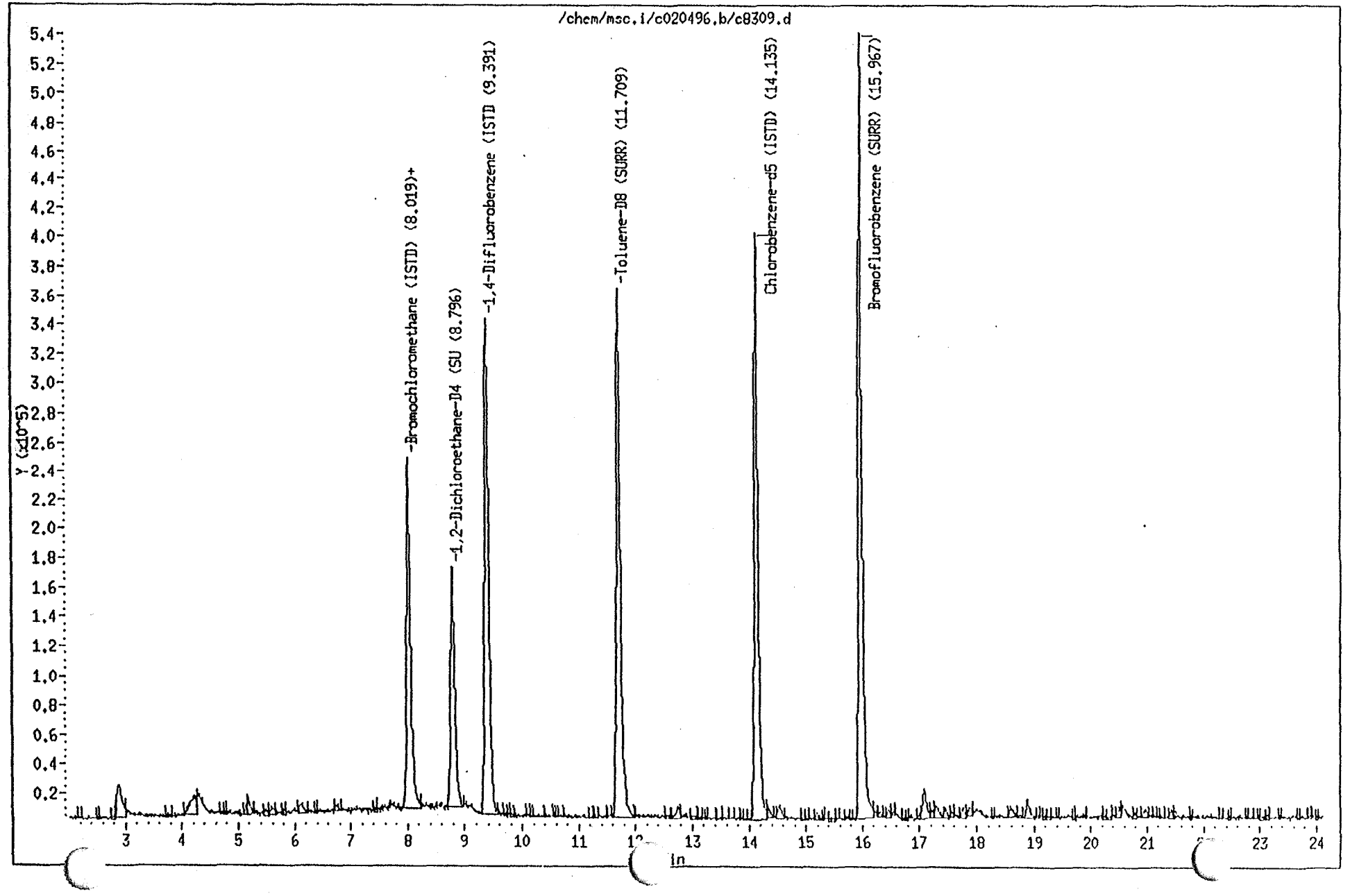
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0109

Data File: /chem/msc.i/c020496.b/c8309.d
Date : 04-FEB-96 21:53
Client ID: 17418n clj-rb
Sample Info: 17418n clj-rb (3)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c020496.b/c8309.d
Lab Smp Id: Client Smp ID: 17418n clj-rb
Inj Date : 04-FEB-96 21:53
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj-rb (3)
Misc Info : jp2883v,nlv4940,m2,5000,1,5.0,5.0,960204,
Comment :
Method : /chem/msc.i/c020496.b/020396_ambic.m
Meth Date : 05-Feb-1996 09:20 glenn Quant Type: ISTD
Cal Date : 04-FEB-96 15:19 Cal File: c8297.d
Als bottle: 3
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	
* Bromochloromethane (ISTD)	128.00	8.019	7.902	(1.000)	129204	50.0		(QM)
$ 27 1,2-Dichloroethane-D4 (SURR)	65.00	8.796	8.673	(1.000)	282800	56.7	56.7	
* 30 1,4-Difluorobenzene (ISTD)	114.00	9.383	9.285	(1.000)	489855	50.0		
$ 38 Toluene-D8 (SURR)	98.00	11.709	11.599	(0.828)	494264	49.2	49.2	
* 47 Chlorobenzene-d5 (ISTD)	117.00	14.143	14.029	(1.000)	391601	50.0		
$ 56 Bromofluorobenzene (SURR)	95.00	15.967	15.883	(1.129)	467756	46.9	46.9	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0111
CLJ-TB

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS01

Matrix: (soil/water) WATER Lab Sample ID: JP2884V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C8310

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. N/A Date Analyzed: 02/04/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	Methyl-iso-butyl ketone	10	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethylene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET 0112
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CLJ-TB

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS01

Matrix: (soil/water) WATER Lab Sample ID: JP2884V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C8310

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. N/A Date Analyzed: 02/04/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

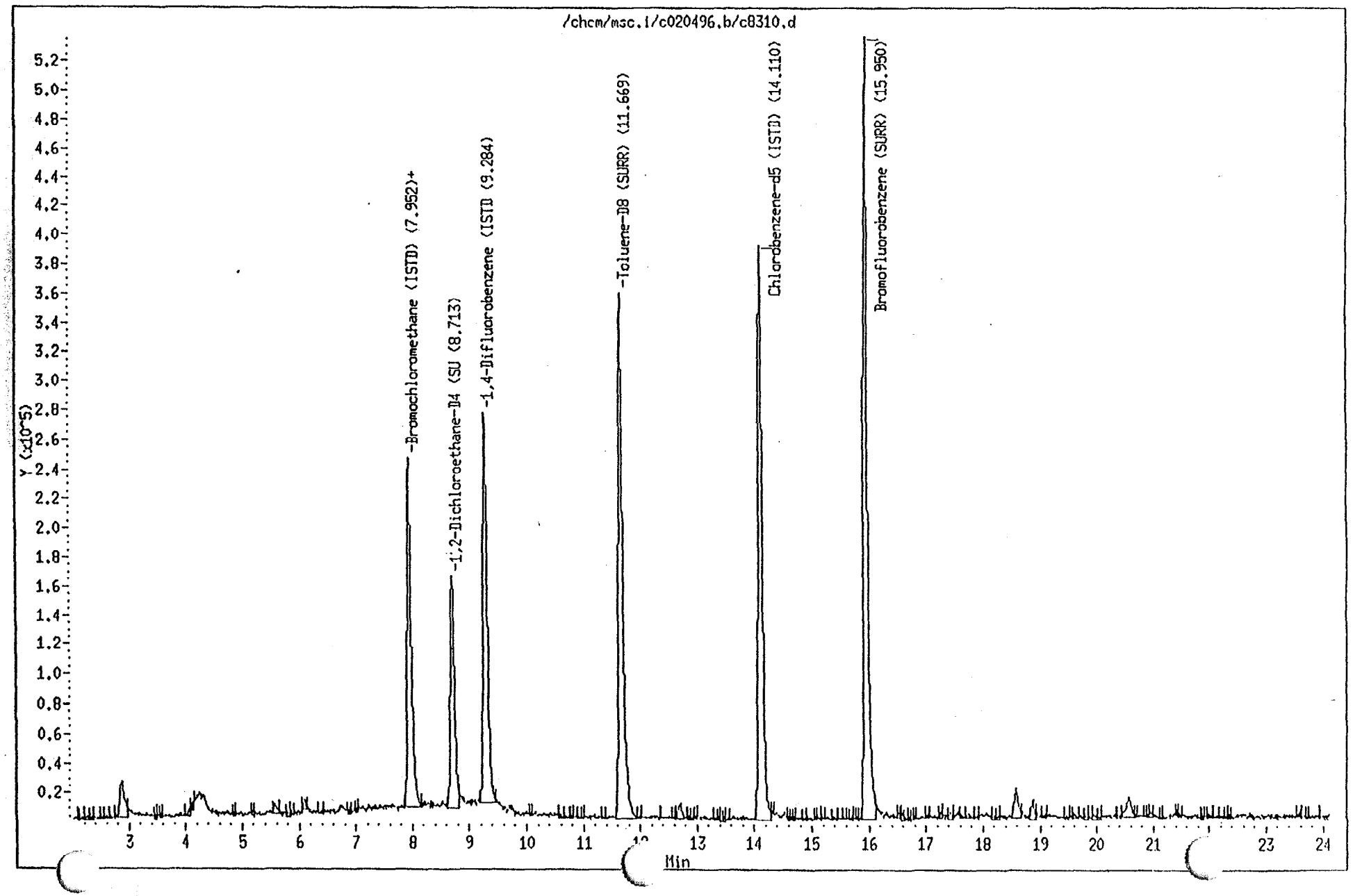
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0113

Data File: /chem/msc.i/c020496.b/c8310.d
Date : 04-FEB-96 22:25
Client ID: 17418n clj-tb
Sample Info: 17418n clj-tb (4)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c020496.b/c8310.d
Report Date: 05-Feb-1996 09:26

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 + Screen

Data file : /chem/msc.i/c020496.b/c8310.d
Lab Smp Id: Client Smp ID: 17418n clj-tb
Inj Date : 04-FEB-96 22:25
Operator : jk Inst ID: msc.i
Smp Info : 17418n clj-tb (4)
Misc Info : jp2884v,n1v4940,m2,5000,1,5.0,5.0,960204,
Comment :
Method : /chem/msc.i/c020496.b/020396_ambic.m
Meth Date : 05-Feb-1996 09:20 glenn Quant Type: ISTD
Cal Date : 04-FEB-96 15:19 Cal File: c8297.d
Als bottle: 4
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

mlc 2/5/96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	
	22 Bromochloromethane (ISTD)	128.00	7.952	7.902	(1.000)	122713	50.0		(QM)
$	27 1,2-Dichloroethane-D4 (SURR)	65.00	8.713	8.673	(1.000)	257411	54.4	54.4	
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.292	9.285	(1.000)	368001	50.0		
$	38 Toluene-D8 (SURR)	98.00	11.669	11.599	(0.826)	490053	49.5	49.5	
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.118	14.029	(1.000)	385890	50.0		
$	56 Bromofluorobenzene (SURR)	95.00	15.950	15.883	(1.130)	449403	45.8	45.8	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Report Date : 04-Feb-1996 14:07

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-96 14:01
End Cal Date : 03-FEB-96 17:08
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msc.i/c020396.b/020396_ambic.m
Cal Date : 04-Feb-1996 13:54
Curve Type : Average

CLB-OK
lw

Calibration File Names:
Level 1: /chem/msc.i/c020396.b/c8280.d
Level 2: /chem/msc.i/c020396.b/c8281.d
Level 3: /chem/msc.i/c020396.b/c8279.d
Level 4: /chem/msc.i/c020396.b/c8282.d
Level 5: /chem/msc.i/c020396.b/c8283.d

		10	20	50	100	200		
	Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD
1	Dichlorodifluoromethane	2.38006	2.09154	2.74167	2.42025	2.10877	2.34846	11.351
2	Methyl chloride	1.18747	0.90710	1.35244	0.88843	0.91749	1.05058	19.878
3	Vinyl chloride	1.22041	1.31220	1.26751	1.14371	1.10303	1.20937	7.124
4	Methyl bromide	1.55661	1.29912	0.96327	1.11648	0.95311	1.17772	21.585
5	Chloroethane	0.77681	0.59763	0.58796	0.48054	0.44965	0.57852	22.200
6	Trichlorofluoromethane	3.09033	2.80147	2.99769	2.15640	1.31263	2.47171	30.079 <-
7	Ethyl ether	1.08432	0.94857	1.06395	0.95642	0.91553	0.99376	7.578
8	Acrolein	1.17132	1.02845	1.17021	1.03662	0.96491	1.07430	8.594
9	1,1,2-Trichlorotrifluoroethan	2.71142	2.19451	2.84512	2.50361	2.38386	2.52770	10.217
10	1,1-Dichloroethylene	1.28804	1.00436	1.33979	1.16815	1.12631	1.18533	11.235
11	Acetone	0.79412	0.59928	0.82286	0.54818	0.47253	0.64739	23.811
12	Carbon disulfide	3.76763	3.08204	3.97903	3.56864	3.63025	3.60552	9.217
13	Methylene chloride	1.66501	1.36309	1.48058	1.27375	1.25204	1.40690	12.088
14	Acrylonitrile	0.41707	0.41988	0.41944	0.39504	0.37955	0.40620	4.465
15	1,2-Trans-dichloroethylene	1.38332	1.16366	1.41248	1.26016	1.27371	1.29867	7.744
16	Tert-Butyl Methyl Ether	3.71071	3.52675	3.64329	3.37861	3.24483	3.50084	5.448
17	1,1-Dichloroethane	3.11896	2.68080	3.09452	2.83175	2.71715	2.88863	7.163
18	1,2-cis-Dichloroethylene	1.36246	1.23271	1.39364	1.19825	1.21659	1.28073	7.055
19	2,2-Dichloropropane	2.51550	2.13160	2.54314	2.36180	2.16119	2.34265	8.208
20	Methyl ethyl ketone	0.05198	0.04909	0.04871	0.04342	0.03734	0.04711	11.982
21	Ethyl acetate	5.16997	5.08064	5.24828	4.71052	4.38074	4.91803	7.407
23	Chloroform	3.03982	3.04631	3.21305	2.98612	2.81889	3.02084	4.680
24	1,1,1-Trichloroethane	0.72677	0.73654	0.83144	0.80585	0.72150	0.76442	6.621
25	1,1-Dichloropropene	0.58277	0.59382	0.67296	0.66667	0.56024	0.61529	8.332
26	Carbon tetrachloride	0.62839	0.63298	0.68015	0.69209	0.59979	0.64668	5.940
28	Benzene	0.90246	0.84286	0.96183	0.93374	0.82728	0.89363	6.457
29	1,2-Dichloroethane	2.40339	2.39289	2.44192	2.34657	2.02317	2.32259	7.356

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-96 14:01
End Cal Date : 03-FEB-96 17:08
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msc.i/c020396.b/020396_ambic.m
Cal Date : 04-Feb-1996 13:54
Curve Type : Average

Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	RRF	% RSD	
31 Trichloroethylene	0.53474	0.52577	0.56446	0.55468	0.49223	0.53438	5.266	
32 1,2-Dichloropropane	0.63068	0.58211	0.61978	0.60842	0.54278	0.59675	5.892	
33 Dibromomethane	0.60651	0.60734	0.62405	0.62471	0.54154	0.60083	5.705	
34 Dichlorobromomethane	1.19570	1.21861	1.24153	1.25619	1.08086	1.20058	5.987	
35 2-Chloroethylvinyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
36 cis-1,3-Dichloropropylene	0.82794	0.83603	0.88257	0.88615	0.78833	0.84420	4.843	
37 Methyl-iso-butyl ketone	0.82636	0.91016	0.86449	0.77871	0.70231	0.81641	9.807	
39 Toluene	1.28756	1.21855	1.34694	1.18941	1.20461	1.24942	5.298	
40 trans-1,3-Dichloropropylene	0.72441	0.79186	0.86002	0.90138	0.80595	0.81672	8.281	
41 1,1,2-Trichloroethane	0.45288	0.46115	0.48751	0.52008	0.45815	0.47597	5.897	
42 Tetrachloroethylene	0.61038	0.55528	0.61473	0.54490	0.53054	0.57137	6.777	
43 1,3-Dichloropropane	0.94652	0.92114	0.93442	0.85779	0.78748	0.88947	7.475	
44 2-Hexanone	0.55237	0.59940	0.58422	0.54614	0.52147	0.56072	5.549	
45 Chlorodibromomethane	0.92834	0.80501	0.95933	1.04343	0.93637	0.93449	9.157	
46 Ethylene dibromide	0.82984	0.77595	0.82151	0.75335	0.76431	0.79019	4.186	
48 Chlorobenzene	1.04009	0.98309	1.13413	1.02577	0.98654	1.03412	5.914	
49 1,1,1,2-Tetrachloroethane	0.63844	0.62061	0.66520	0.62025	0.58984	0.62687	4.410	
50 Ethylbenzene	0.48076	0.44978	0.53540	0.48079	0.44927	0.47920	7.323	
51 m+p-Xylenes	0.57481	0.51511	0.62598	0.59032	0.55493	0.57223	7.197	
52 o-Xylene	0.55732	0.54683	0.63386	0.57602	0.56188	0.57518	5.987	
53 Styrene	0.86966	0.82008	0.97038	0.96524	0.91880	0.90903	7.085	
54 Bromoform	0.75077	0.78063	0.86331	1.01069	0.88877	0.85883	11.899	
55 Isopropylbenzene	1.38670	1.42702	1.79518	1.74700	1.66973	1.60512	11.649	
57 1,1,2,2-Tetrachloroethane	0.93837	1.02609	1.04716	1.02363	0.94222	0.99649	5.214	
58 1,2,3-Trichloropropane	0.90418	0.95434	0.93573	0.92367	0.81330	0.90625	6.077	
59 Bromobenzene	0.64382	0.66884	0.74141	0.71468	0.66845	0.68744	5.757	
60 n-Propylbenzene	1.93339	2.08267	2.38942	2.28980	2.17123	2.17330	8.168	
61 o-Chlorotoluene	1.56634	1.71352	1.93525	1.88009	1.74148	1.76834	8.212	
62 1,3,5-Trimethylbenzene	1.26327	1.34007	1.61384	1.57014	1.47112	1.45169	10.256	
63 p-Chlorotoluene	1.92425	1.95046	2.18605	2.09244	1.85445	2.00153	6.727	
64 tert-Butylbenzene	1.49603	1.54640	1.81534	1.75128	1.63428	1.64866	8.153	
5 1,2,4-Trimethylbenzene	1.39071	1.43525	1.64965	1.63420	1.49143	1.52025	7.683	
66 sec-Butylbenzene	1.71881	1.86919	2.25918	2.13489	2.06585	2.01959	11.071	
67 4-Isopropyltoluene	1.57835	1.66595	1.99600	1.85492	1.69299	1.75764	9.478	

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-96 14:01
End Cal Date : 03-FEB-96 17:08
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msc.i/c020396.b/020396_ambic.m
Cal Date : 04-Feb-1996 13:54
Curve Type : Average

	Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	RRF	% RSD
	68 1,3-Dichlorobenzene	1.10071	1.17326	1.21817	1.11943	1.02407	1.12713	6.549
	69 1,4-Dichlorobenzene	1.35622	1.26546	1.49044	1.37061	1.34089	1.36472	5.945
	70 n-Butylbenzene	1.69719	1.88032	2.17963	2.09151	1.93674	1.95708	9.609
	71 1,2-Dichlorobenzene	1.16859	1.21187	1.31679	1.25465	1.16284	1.22295	5.252
	72 1,2-Dibromo-3-chloropropane	0.35731	0.41629	0.42236	0.42113	0.37847	0.39911	7.405
	73 1,2,4-Trichlorobenzene	1.11503	1.08194	1.23423	1.20688	1.08617	1.14485	6.196
	74 Hexachlorobutadiene	0.71935	0.69591	0.56938	0.69245	0.46415	0.64825	16.109
	75 Naphthalene	2.05869	2.05943	2.30089	2.29967	1.98656	2.14105	6.928
	76 1,2,3-Trichlorobenzene	1.07501	1.08118	1.23914	1.19556	1.03629	1.12544	7.732
S	27 1,2-Dichloroethane-D4 (SURR)	2.33209	2.02821	1.93916	1.85718	1.67189	1.96571	12.382
S	38 Toluene-D8 (SURR)	1.37845	1.17941	1.23675	1.09250	1.02813	1.18305	11.441
S	56 Bromofluorobenzene (SURR)	1.41470	1.23084	1.23375	1.23241	1.12859	1.24806	8.287

Report Date : 06-Feb-1996 08:25

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 05-FEB-96 17:21
End Cal Date : 05-FEB-96 19:29
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msc.i/c0205a96.b/020596_heatc.m
Cal Date : 06-Feb-1996 08:25 glenn
Curve Type : Average

CLP-01

Calibration File Names:
Level 1: /chem/msc.i/c0205a96.b/c8331.d
Level 2: /chem/msc.i/c0205a96.b/c8332.d
Level 3: /chem/msc.i/c0205a96.b/c8333.d
Level 4: /chem/msc.i/c0205a96.b/c8334.d
Level 5: /chem/msc.i/c0205a96.b/c8335.d

	Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	RRF	% RSD
1	Dichlorodifluoromethane	1.93483	2.30020	2.09487	1.90006	1.79269	2.00453	9.859
2	Methyl chloride	0.79132	0.97831	1.08451	0.93181	0.90387	0.93796	11.409
3	Vinyl chloride	0.81630	1.10803	1.00509	0.99568	0.98058	0.98113	10.697
4	Methyl bromide	1.01442	1.18721	0.87273	0.89927	0.82985	0.96070	14.979
5	Chloroethane	0.65733	0.71848	0.63107	0.56605	0.49393	0.61337	14.071
6	Trichlorofluoromethane	2.88882	3.12448	2.36522	1.54088	1.38020	2.25992	34.595
7	Ethyl ether	0.86134	1.06355	0.97529	0.96078	0.44086	0.86037	28.503
8	Acrolein	1.35248	1.61552	1.50074	1.44393	0.96937	1.37641	17.924
9	1,1,2-Trichlorotrifluoroethan	2.37823	2.90494	2.63195	2.52907	1.54442	2.39772	21.448
10	1,1-Dichloroethylene	0.96279	1.38114	1.30690	1.22288	0.92333	1.15941	17.747
11	Acetone	1.10386	1.05086	0.89307	0.82493	0.78349	0.93124	15.062
12	Carbon disulfide	2.94448	3.68669	3.54164	3.48690	3.37754	3.40745	8.269
13	Methylene chloride	1.69394	1.61027	1.42405	1.35933	1.32170	1.48186	10.958
14	Acrylonitrile	0.54056	0.60526	0.56846	0.57333	0.55048	0.56762	4.383
15	1,2-Trans-dichloroethylene	1.21600	1.50110	1.38728	1.36628	1.33527	1.36119	7.531
16	Tert-Butyl Methyl Ether	3.66859	4.12548	3.83659	3.70526	3.53541	3.77427	5.928
17	1,1-Dichloroethane	2.77132	3.21893	2.94697	2.83084	2.64342	2.88230	7.552
18	1,2-cis-Dichloroethylene	1.28077	1.50778	1.39992	1.38885	1.32725	1.38091	6.211
19	2,2-Dichloropropane	2.30004	2.68271	2.39656	2.22312	2.06066	2.33262	9.908
20	Methyl ethyl ketone	0.07138	0.08156	0.07222	0.06262	0.06177	0.06991	11.592
21	Ethyl acetate	7.21466	7.91873	7.17477	6.76180	6.55572	7.12513	7.348
23	Chloroform	2.94316	3.45499	3.19100	2.93396	2.79765	3.06415	8.502
24	1,1,1-Trichloroethane	0.69841	0.90817	0.79796	0.71445	0.66154	0.75611	13.040
25	1,1-Dichloropropene	0.54146	0.69798	0.66397	0.60634	0.57775	0.61750	10.282
6	Carbon tetrachloride	0.56448	0.72749	0.68671	0.61772	0.56701	0.63268	11.479
28	Benzene	0.78882	0.99353	0.92684	0.80590	0.86738	0.87649	9.712
29	1,2-Dichloroethane	2.63846	2.73153	2.55348	2.07383	2.08783	2.41703	12.964

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 05-FEB-96 17:21
End Cal Date : 05-FEB-96 19:29
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msc.i/c0205a96.b/020596_heatc.m
Cal Date : 06-Feb-1996 08:25 glenn
Curve Type : Average

Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	RRF	% RSD	
31 Trichloroethylene	0.41001	0.54437	0.44206	0.45231	0.47565	0.46688	10.684	
32 1,2-Dichloropropane	0.42608	0.58458	0.50205	0.46615	0.49157	0.49409	11.830	
33 Dibromomethane	0.49697	0.62889	0.55087	0.50744	0.51434	0.53970	9.974	
34 Dichlorobromomethane	0.92793	1.16366	1.04745	0.95745	0.94517	1.00833	9.755	
35 2-Chloroethylvinyl ether	*****	*****	*****	*****	*****	*****	*****	<-
36 cis-1,3-Dichloropropylene	0.60498	0.80907	0.75381	0.70032	0.73154	0.71994	10.493	
37 Methyl-iso-butyl ketone	1.16797	1.42368	1.12918	1.05357	1.02266	1.15943	13.686	
39 Toluene	1.17138	1.50739	1.31335	1.22283	1.21023	1.28504	10.486	
40 trans-1,3-Dichloropropylene	0.58830	0.77035	0.73634	0.67512	0.68832	0.69188	9.994	
41 1,1,2-Trichloroethane	0.37432	0.46174	0.45856	0.42531	0.45019	0.43423	8.347	
42 Tetrachloroethylene	0.52081	0.65251	0.57236	0.55046	0.53377	0.56598	9.200	
43 1,3-Dichloropropane	0.89950	1.07043	0.94472	0.85875	0.84714	0.92411	9.775	
44 2-Hexanone	0.80155	0.94968	0.85460	0.82756	0.72078	0.83084	10.010	
45 Chlorodibromomethane	0.66201	0.83245	0.82706	0.78185	0.80287	0.78125	8.915	
46 Ethylene dibromide	0.81952	0.96288	0.87994	0.85306	0.83556	0.87019	6.487	
48 Chlorobenzene	0.96473	1.14104	1.06334	1.00606	0.99350	1.03373	6.761	
49 1,1,1,2-Tetrachloroethane	0.59287	0.69325	0.62017	0.60495	0.57396	0.61704	7.429	
50 Ethylbenzene	0.42162	0.52649	0.49947	0.47938	0.46730	0.47885	8.158	
51 m+p-Xylenes	0.49069	0.63217	0.61857	0.58093	0.57148	0.57877	9.563	
52 o-Xylene	0.50090	0.61841	0.60357	0.57342	0.54350	0.56796	8.323	
53 Styrene	0.77712	0.99619	0.99472	0.97527	0.92813	0.93429	9.854	
54 Bromoform	0.62101	0.79145	0.76184	0.76062	0.77272	0.74153	9.237	
55 Isopropylbenzene	1.45905	1.85533	1.76047	1.68072	1.55525	1.66200	9.513	
57 1,1,2,2-Tetrachloroethane	1.20072	1.42187	1.21519	1.16183	1.12860	1.22565	9.367	
58 1,2,3-Trichloropropane	1.10429	1.25990	1.11935	1.02180	0.89023	1.07911	12.596	
59 Bromobenzene	0.60064	0.64251	0.68021	0.65578	0.62006	0.63984	4.829	
60 n-Propylbenzene	1.97278	2.37680	2.32432	2.29116	2.06422	2.20585	8.011	
61 o-Chlorotoluene	1.62039	2.03876	2.32432	2.29116	1.56926	1.96878	18.247	
62 1,3,5-Trimethylbenzene	1.24961	1.73669	1.59223	1.54503	1.38728	1.50217	12.540	
63 p-Chlorotoluene	1.71216	2.05619	1.79606	1.63215	1.68352	1.77602	9.431	
64 tert-Butylbenzene	1.37824	1.75219	1.65902	1.54994	1.44546	1.55697	9.791	
65 1,2,4-Trimethylbenzene	1.37045	1.72387	1.62182	1.50412	1.40124	1.52430	9.761	
66 sec-Butylbenzene	1.75144	2.23078	2.25762	2.14571	1.92985	2.06308	10.499	
67 4-Isopropyltoluene	1.51253	1.92180	1.88142	1.73782	1.58340	1.72740	10.377	

OHM Analytical Division

INITIAL CALIBRATION DATA

Start Cal Date : 05-FEB-96 17:21
End Cal Date : 05-FEB-96 19:29
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem/msc.i/c0205a96.b/020596_heatc.m
Cal Date : 06-Feb-1996 08:25 glenn
Curve Type : Average

	Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	RRF	% RSD
	68 1,3-Dichlorobenzene	0.96058	1.11310	1.10080	1.01488	0.83590	1.00505	11.293
	69 1,4-Dichlorobenzene	1.18098	1.32979	1.35703	1.25000	1.19344	1.26225	6.267
	70 n-Butylbenzene	1.73909	2.18263	2.27931	2.02472	1.76737	1.99862	12.106
	71 1,2-Dichlorobenzene	1.02884	1.18438	1.35703	1.25000	0.95998	1.15604	13.991
	72 1,2-Dibromo-3-chloropropane	0.60383	0.66434	0.57397	0.53192	0.46026	0.56687	13.523
	73 1,2,4-Trichlorobenzene	0.99462	1.18151	1.18445	1.08731	0.96763	1.08311	9.363
	74 Hexachlorobutadiene	0.64180	0.64413	0.71008	0.62881	0.58887	0.64274	6.796
	75 Naphthalene	2.09477	2.49608	2.43470	2.26097	2.02167	2.26164	9.124
	76 1,2,3-Trichlorobenzene	0.96555	1.16616	1.17131	1.06181	0.94666	1.06230	10.029
$	27 1,2-Dichloroethane-D4 (SURR)	2.01371	1.97906	2.05319	1.66196	1.73643	1.88887	9.375
$	38 Toluene-D8 (SURR)	1.00639	1.24318	1.18662	1.10893	1.08114	1.12525	8.195
$	56 Bromofluorobenzene (SURR)	0.94989	0.99413	0.97164	0.90919	0.86509	0.93800	5.480

Data File: /chem/msc.i/c020496.b/c8297.d
Report Date: 04-Feb-1996 15:53

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msc.i
Lab File ID: c8297.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 04-FEB-96 15:19
Init. Calibration Date(s): 02/03/96 02/03/96
Init. Calibration Times: 14:01 17:08
Method File: /chem/msc.i/c020496.b/020396_ambic.m

CLP-ok

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	1 Dichlorodifluoromethane	2.348	2.258	0.100	3.9	30.0	
	2 Methyl chloride	1.051	1.022	0.300	2.7	30.0	
	3 Vinyl chloride	1.209	1.022	0.100	15.5	20.0	
	4 Methyl bromide	1.178	0.826	0.100	29.9	30.0	
	5 Chloroethane	0.579	0.535	0.100	7.5	30.0	
	6 Trichlorofluoromethane	2.472	2.988	0.100	20.9	30.0	
	7 Ethyl ether	0.994	1.079	0.100	8.6	30.0	
	8 Acrolein	1.074	0.995	0.100	7.4	30.0	
	9 1,1,2-Trichlorotrifluoroetha	2.528	2.856	0.100	13.0	30.0	
	10 1,1-Dichloroethylene	1.185	1.280	0.100	8.0	20.0	
	11 Acetone	0.647	0.577	0.100	10.9	30.0	
	12 Carbon disulfide	3.606	3.952	0.100	9.6	30.0	
	13 Methylene chloride	1.407	1.431	0.100	1.7	30.0	
	14 Acrylonitrile	0.406	0.365	0.100	10.3	30.0	
	15 1,2-Trans-dichloroethylene	1.299	1.382	0.100	6.4	30.0	
	16 Tert-Butyl Methyl Ether	3.501	3.469	0.100	0.9	30.0	
	17 1,1-Dichloroethane	2.889	3.159	0.300	9.4	30.0	
	18 1,2-cis-Dichloroethylene	1.281	1.364	0.100	6.5	30.0	
	19 2,2-Dichloropropane	2.343	2.683	0.100	14.5	30.0	
	20 Methyl ethyl ketone	0.047	0.036	0.010	23.8	30.0	
	21 Ethyl acetate	4.918	4.870	0.100	1.0	30.0	
	23 Chloroform	3.021	3.264	0.200	8.0	20.0	
	24 1,1,1-Trichloroethane	0.764	0.657	0.100	14.0	30.0	
	25 1,1-Dichloropropene	0.615	0.568	0.100	7.7	30.0	
	26 Carbon tetrachloride	0.647	0.522	0.100	19.2	30.0	
$	27 1,2-Dichloroethane-D4 (SURR)	1.966	1.930	0.100	1.8	30.0	
	28 Benzene	0.894	0.811	0.500	9.2	30.0	
	29 1,2-Dichloroethane	2.323	2.854	0.100	22.9	30.0	
	31 Trichloroethylene	0.534	0.453	0.300	15.2	30.0	
	32 1,2-Dichloropropane	0.597	0.516	0.100	13.5	20.0	
	33 Dibromomethane	0.601	0.454	0.100	24.5	30.0	
	34 Dichlorobromomethane	1.201	0.915	0.200	23.8	30.0	
	35 2-Chloroethylvinyl ether	++++	++++	0.100	++++	30.0	<-
	36 cis-1,3-Dichloropropylene	0.844	0.709	0.200	16.1	30.0	
	37 Methyl-iso-butyl ketone	0.816	0.854	0.100	4.6	30.0	
$	38 Toluene-D8 (SURR)	1.183	1.284	0.100	8.5	30.0	
	39 Toluene	1.249	1.343	0.400	7.5	20.0	
	40 trans-1,3-Dichloropropylene	0.817	0.635	0.100	22.2	30.0	
	41 1,1,2-Trichloroethane	0.476	0.373	0.100	21.6	30.0	
	42 Tetrachloroethylene	0.571	0.605	0.200	5.9	30.0	

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msc.i
Lab File ID: c8297.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 04-FEB-96 15:19
Init. Calibration Date(s): 02/03/96 02/03/96
Init. Calibration Times: 14:01 17:08
Method File: /chem/msc.i/c020496.b/020396_ambic.m

	COMPOUND	RRF	RFSO	MIN RRF	%D	MAX %D
43	1,3-Dichloropropane	0.889	0.996	0.100	12.0	30.0
44	2-Hexanone	0.561	0.563	0.100	0.3	30.0
45	Chlorodibromomethane	0.934	0.693	0.100	25.8	30.0
46	Ethylene dibromide	0.790	0.826	0.100	4.5	30.0
48	Chlorobenzene	1.034	1.071	0.500	3.6	30.0
49	1,1,1,2-Tetrachloroethane	0.627	0.685	0.100	9.2	30.0
50	Ethylbenzene	0.479	0.505	0.100	5.3	20.0
51	m+p-Xylenes	0.572	0.619	0.300	8.1	30.0
52	o-Xylene	0.575	0.621	0.300	8.0	30.0
53	Styrene	0.909	0.960	0.300	5.6	30.0
54	Bromoform	0.859	0.616	0.100	28.3	30.0
55	Isopropylbenzene	1.605	1.905	0.100	18.7	30.0
$ 56	Bromofluorobenzene (SURR)	1.248	1.273	0.200	2.0	30.0
57	1,1,2,2-Tetrachloroethane	0.996	1.036	0.300	3.9	30.0
58	1,2,3-Trichloropropane	0.906	0.994	0.100	9.7	30.0
59	Bromobenzene	0.687	0.696	0.100	1.3	30.0
60	n-Propylbenzene	2.173	2.416	0.100	11.2	30.0
61	o-Chlorotoluene	1.768	1.997	0.100	12.9	30.0
62	1,3,5-Trimethylbenzene	1.452	1.673	0.100	15.2	30.0
63	p-Chlorotoluene	2.002	2.173	0.100	8.6	30.0
64	tert-Butylbenzene	1.649	1.797	0.100	9.0	30.0
65	1,2,4-Trimethylbenzene	1.520	1.711	0.100	12.5	30.0
66	sec-Butylbenzene	2.020	2.266	0.100	12.2	30.0
67	4-Isopropyltoluene	1.758	2.037	0.100	15.9	30.0
68	1,3-Dichlorobenzene	1.127	1.162	0.100	3.1	30.0
69	1,4-Dichlorobenzene	1.365	1.445	0.100	5.9	30.0
70	n-Butylbenzene	1.957	2.221	0.100	13.5	30.0
71	1,2-Dichlorobenzene	1.223	1.237	0.100	1.1	30.0
72	1,2-Dibromo-3-chloropropane	0.399	0.406	0.100	1.8	30.0
73	1,2,4-Trichlorobenzene	1.145	1.160	0.100	1.3	30.0
74	Hexachlorobutadiene	0.648	0.721	0.100	11.2	30.0
75	Naphthalene	2.141	1.972	0.100	7.9	30.0
76	1,2,3-Trichlorobenzene	1.125	1.134	0.100	0.7	30.0

Data File: /chem/msc.i/c020696.b/c8348.d
Report Date: 06-Feb-1996 10:34

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msc.i
Lab File ID: c8348.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 06-FEB-96 09:49
Init. Calibration Date(s): 02/05/96 02/05/96
Init. Calibration Times: 17:21 19:29
Method File: /chem/msc.i/c020696.b/020596_heatc.m

CLP - 6/L

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	1 Dichlorodifluoromethane	2.005	1.666	0.100	16.9	30.0	
	2 Methyl chloride	0.938	0.583	0.300	37.9	30.0	<-
	3 Vinyl chloride	0.981	0.691	0.100	29.6	20.0	<-
	4 Methyl bromide	0.961	0.886	0.100	7.8	30.0	
	5 Chloroethane	0.613	0.509	0.100	16.9	30.0	
	6 Trichlorofluoromethane	2.260	1.946	0.100	13.9	30.0	
	7 Ethyl ether	0.860	0.802	0.100	6.8	30.0	
	8 Acrolein	1.376	1.229	0.100	10.7	30.0	
	9 1,1,2-Trichlorotrifluoroetha	2.398	2.486	0.100	3.7	30.0	
	10 1,1-Dichloroethylene	1.159	1.106	0.100	4.6	20.0	
	11 Acetone	0.931	0.872	0.100	6.4	30.0	
	12 Carbon disulfide	3.407	2.893	0.100	15.1	30.0	
	13 Methylene chloride	1.482	1.236	0.100	16.6	30.0	
	14 Acrylonitrile	0.568	0.462	0.100	18.6	30.0	
	15 1,2-Trans-dichloroethylene	1.361	1.216	0.100	10.7	30.0	
	16 Tert-Butyl Methyl Ether	3.774	3.382	0.100	10.4	30.0	
	17 1,1-Dichloroethane	2.882	2.702	0.300	6.3	30.0	
	18 1,2-cis-Dichloroethylene	1.381	1.294	0.100	6.3	30.0	
	19 2,2-Dichloropropane	2.333	2.376	0.100	1.9	30.0	
	20 Methyl ethyl ketone	0.070	0.072	0.010	2.7	30.0	
	21 Ethyl acetate	7.125	6.133	0.100	13.9	30.0	
	23 Chloroform	3.064	2.954	0.200	3.6	20.0	
	24 1,1,1-Trichloroethane	0.756	0.869	0.100	15.0	30.0	
	25 1,1-Dichloropropene	0.618	0.662	0.100	7.2	30.0	
	26 Carbon tetrachloride	0.633	0.715	0.100	13.0	30.0	
$	27 1,2-Dichloroethane-D4 (SURR)	1.889	2.065	0.100	9.3	30.0	
	28 Benzene	0.876	0.914	0.500	4.3	30.0	
	29 1,2-Dichloroethane	2.417	2.187	0.100	9.5	30.0	
	31 Trichloroethylene	0.467	0.488	0.300	4.5	30.0	
	32 1,2-Dichloropropane	0.494	0.481	0.100	2.7	20.0	
	33 Dibromomethane	0.540	0.547	0.100	1.4	30.0	
	34 Dichlorobromomethane	1.008	0.985	0.200	2.4	30.0	
	35 2-Chloroethylvinyl ether	++++	++++	0.100	++++	30.0	<-
	36 cis-1,3-Dichloropropylene	0.720	0.740	0.200	2.8	30.0	
	37 Methyl-iso-butyl ketone	1.159	1.095	0.100	5.6	30.0	
$	38 Toluene-D8 (SURR)	1.125	1.154	0.100	2.5	30.0	
	39 Toluene	1.285	1.303	0.400	1.4	20.0	
	40 trans-1,3-Dichloropropylene	0.692	0.681	0.100	1.5	30.0	
	41 1,1,2-Trichloroethane	0.434	0.455	0.100	4.8	30.0	
	42 Tetrachloroethylene	0.566	0.566	0.200	0.1	30.0	

< 40 2

Data File: /chem/msc.i/c020696.b/c8348.d
Report Date: 06-Feb-1996 10:34

OHM Analytical Division

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msc.i
Lab File ID: c8348.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 06-FEB-96 09:49
Init. Calibration Date(s): 02/05/96 02/05/96
Init. Calibration Times: 17:21 19:29
Method File: /chem/msc.i/c020696.b/020596_heatc.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
43	1,3-Dichloropropane	0.924	0.953	0.100	3.1	30.0
44	2-Hexanone	0.831	0.860	0.100	3.6	30.0
45	Chlorodibromomethane	0.781	0.858	0.100	9.8	30.0
46	Ethylene dibromide	0.870	0.914	0.100	5.1	30.0
48	Chlorobenzene	1.034	1.048	0.500	1.4	30.0
49	1,1,1,2-Tetrachloroethane	0.617	0.663	0.100	7.5	30.0
50	Ethylbenzene	0.479	0.485	0.100	1.2	20.0
51	m+p-Xylenes	0.579	0.588	0.300	1.6	30.0
52	o-Xylene	0.568	0.571	0.300	0.6	30.0
53	Styrene	0.934	0.965	0.300	3.3	30.0
54	Bromoform	0.742	0.826	0.100	11.4	30.0
55	Isopropylbenzene	1.662	1.852	0.100	11.4	30.0
$ 56	Bromofluorobenzene (SURR)	0.938	1.020	0.200	8.7	30.0
57	1,1,2,2-Tetrachloroethane	1.226	1.266	0.300	3.3	30.0
58	1,2,3-Trichloropropane	1.079	1.164	0.100	7.8	30.0
59	Bromobenzene	0.640	0.664	0.100	3.7	30.0
60	n-Propylbenzene	2.206	2.312	0.100	4.8	30.0
61	o-Chlorotoluene	1.969	1.793	0.100	8.9	30.0
62	1,3,5-Trimethylbenzene	1.502	1.580	0.100	5.2	30.0
63	p-Chlorotoluene	1.776	1.970	0.100	10.9	30.0
64	tert-Butylbenzene	1.557	1.642	0.100	5.5	30.0
65	1,2,4-Trimethylbenzene	1.524	1.647	0.100	8.0	30.0
66	sec-Butylbenzene	2.063	2.207	0.100	7.0	30.0
67	4-Isopropyltoluene	1.727	1.887	0.100	9.2	30.0
68	1,3-Dichlorobenzene	1.005	1.059	0.100	5.4	30.0
69	1,4-Dichlorobenzene	1.262	1.285	0.100	1.8	30.0
70	n-Butylbenzene	1.999	2.041	0.100	2.1	30.0
71	1,2-Dichlorobenzene	1.156	1.119	0.100	3.2	30.0
72	1,2-Dibromo-3-chloropropane	0.567	0.631	0.100	11.4	30.0
73	1,2,4-Trichlorobenzene	1.083	1.175	0.100	8.4	30.0
74	Hexachlorobutadiene	0.643	0.651	0.100	1.2	30.0
75	Naphthalene	2.262	2.510	0.100	11.0	30.0
76	1,2,3-Trichlorobenzene	1.062	1.170	0.100	10.1	30.0

Data File: /chem/msc.i/c020396.b/c8275.d

Date : 03-FEB-96 11:16

Client ID:

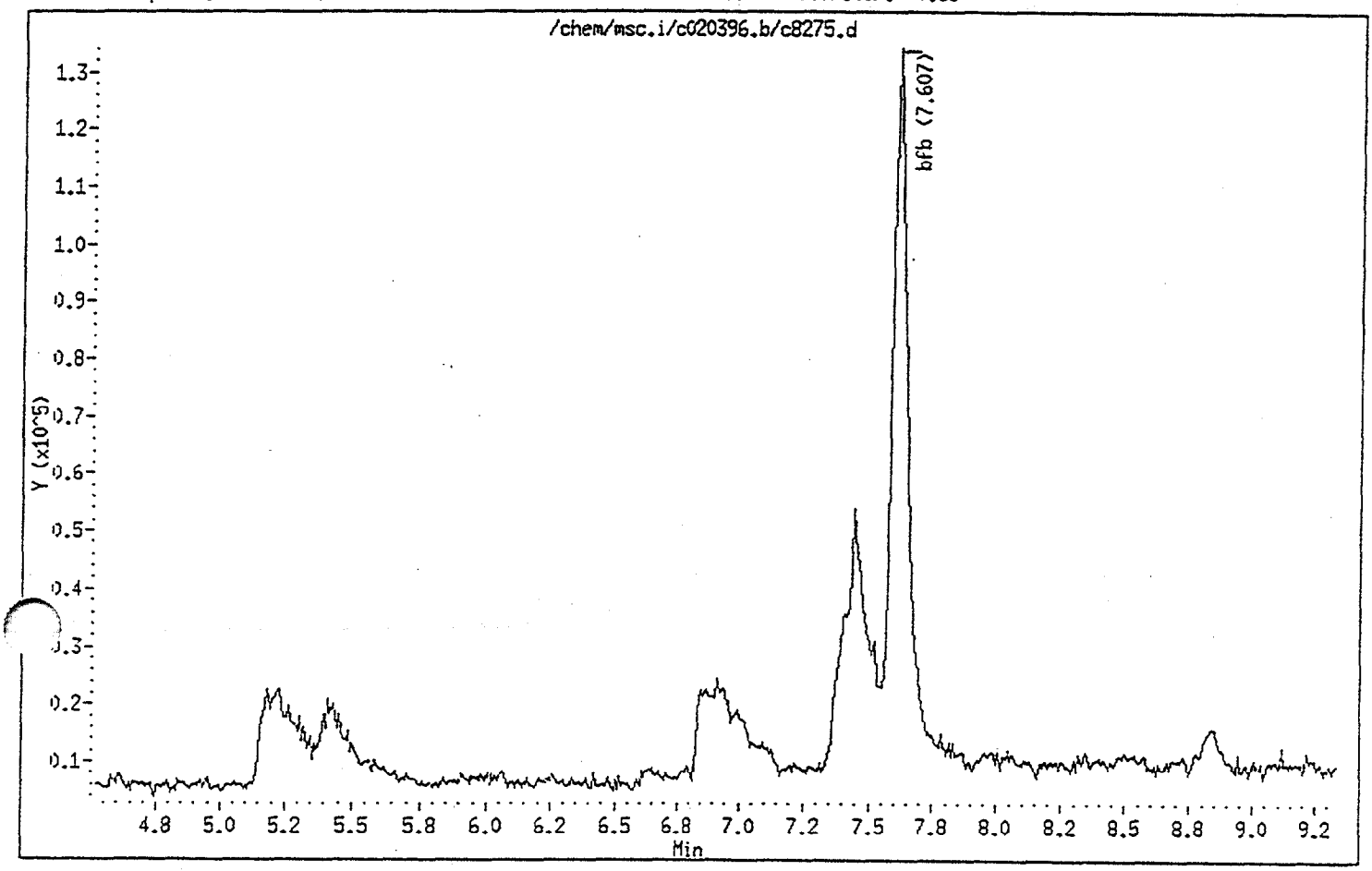
Instrument: msc.i

Sample Info: bfb tune

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53



CLP

Data File: /chem/msc.i/c020396.b/c8275.d

Date : 03-FEB-96 11:16

Client ID:

Instrument: msc.i

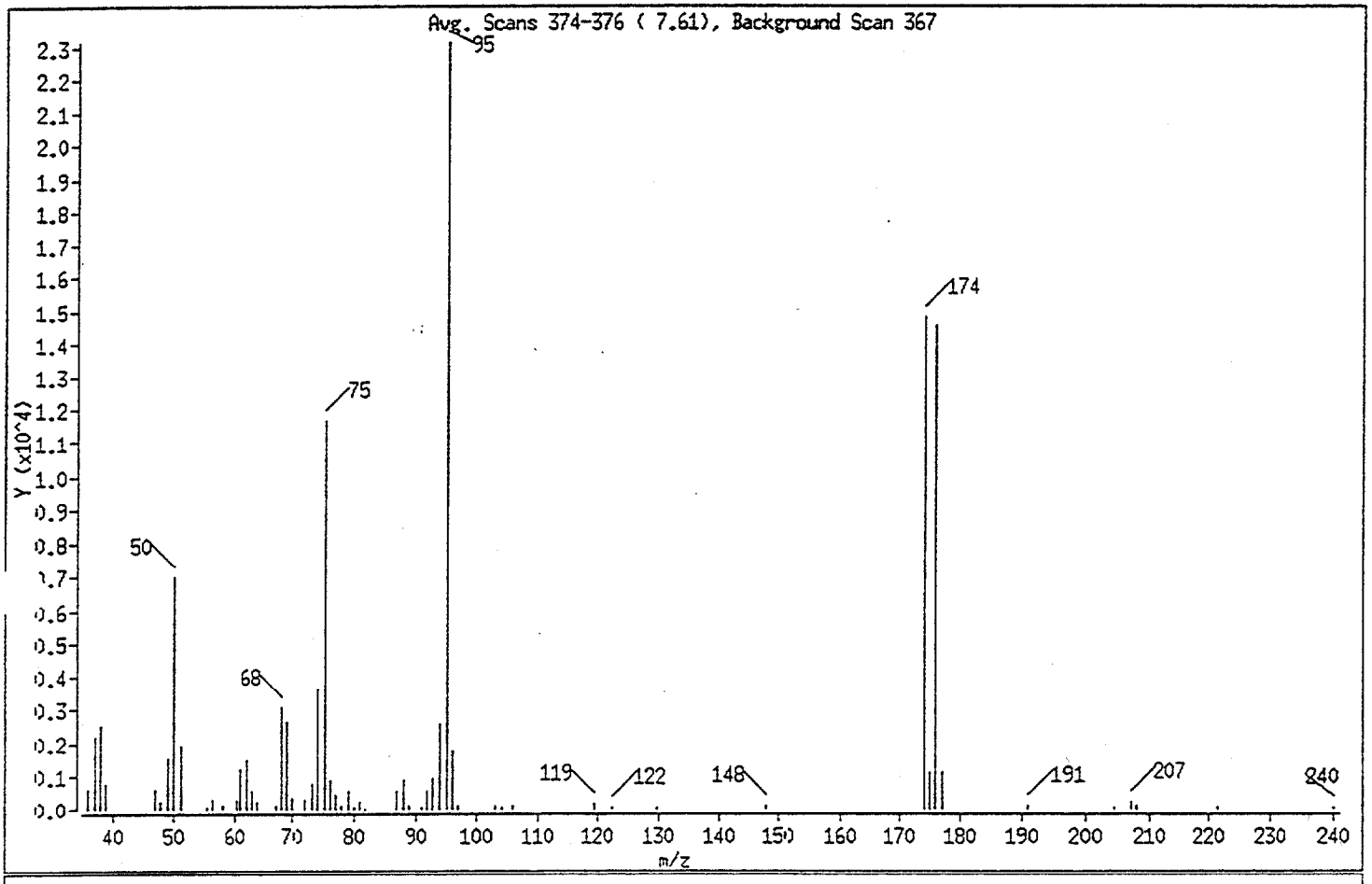
Sample Info: bfb tune

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	30.36
75	30.00 - 60.00% of mass 95	50.47
96	5.00 - 9.00% of mass 95	7.67
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	64.05
175	5.00 - 9.00% of mass 174	4.79 (7.48)
176	95.00 - 101.00% of mass 174	62.75 (97.96)
177	5.00 - 9.00% of mass 176	4.82 (7.68)

Data File: /chem/msc.i/c020396.b/c8275.d

Date : 03-FEB-96 11:16

Client ID:

Instrument: msc.i

Sample Info: bfb tune

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

Data File: c8275.d

Spectrum : Avg. Scans 374-376 (7.61), Background Scan 367

Largest m/z: 95.05

Number of peaks: 59

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.05	621	63.10	556	80.95	219	119.20	150
37.05	2180	64.00	214	81.75	5	122.20	68
38.05	2516	67.20	98	86.95	529	129.80	67
39.05	749	68.10	3081	87.95	874	147.85	110
47.10	596	69.10	2636	88.95	94	173.90	14830
47.90	227	69.90	323	91.15	76	174.90	1109
49.00	1520	72.00	260	91.95	555	175.90	14527
50.00	7028	73.10	775	92.85	937	176.90	1116
51.00	1924	74.10	3648	94.05	2600	191.10	110
55.20	63	75.10	11685	95.05	23152	204.25	75
56.10	299	76.10	888	96.05	1776	207.05	198
58.00	84	77.05	412	96.95	92	207.85	113
60.40	274	78.05	106	103.05	85	221.35	67
61.00	1187	78.95	528	104.15	67	240.00	68
62.10	1495	79.95	28	105.85	91		

Data File: /chem/msc.i/c0205a96.b/c8330.d

Date : 05-FEB-96 16:48

Client ID:

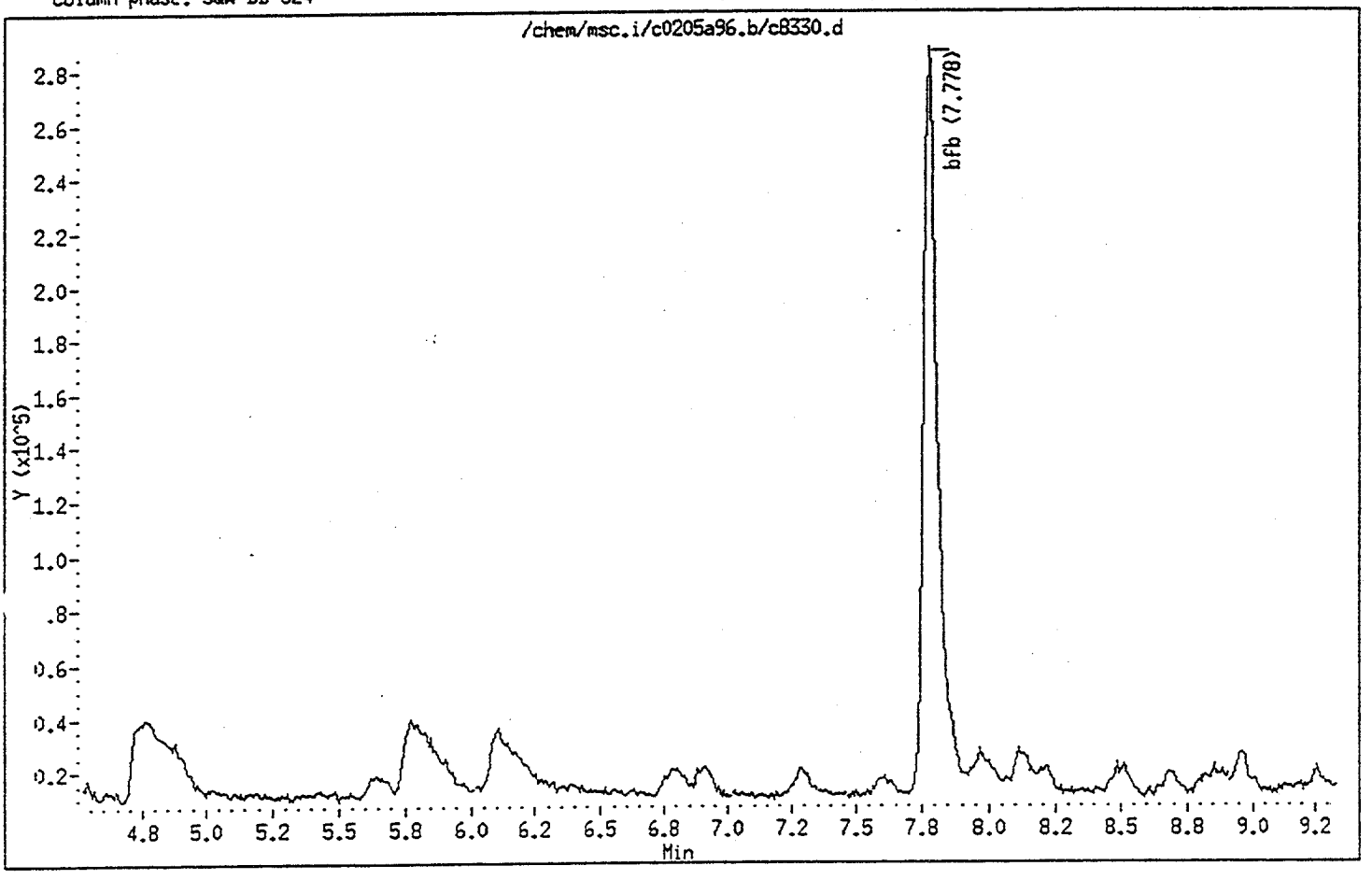
Instrument: msc.i

Sample Info: bfb tune

Operator: jk

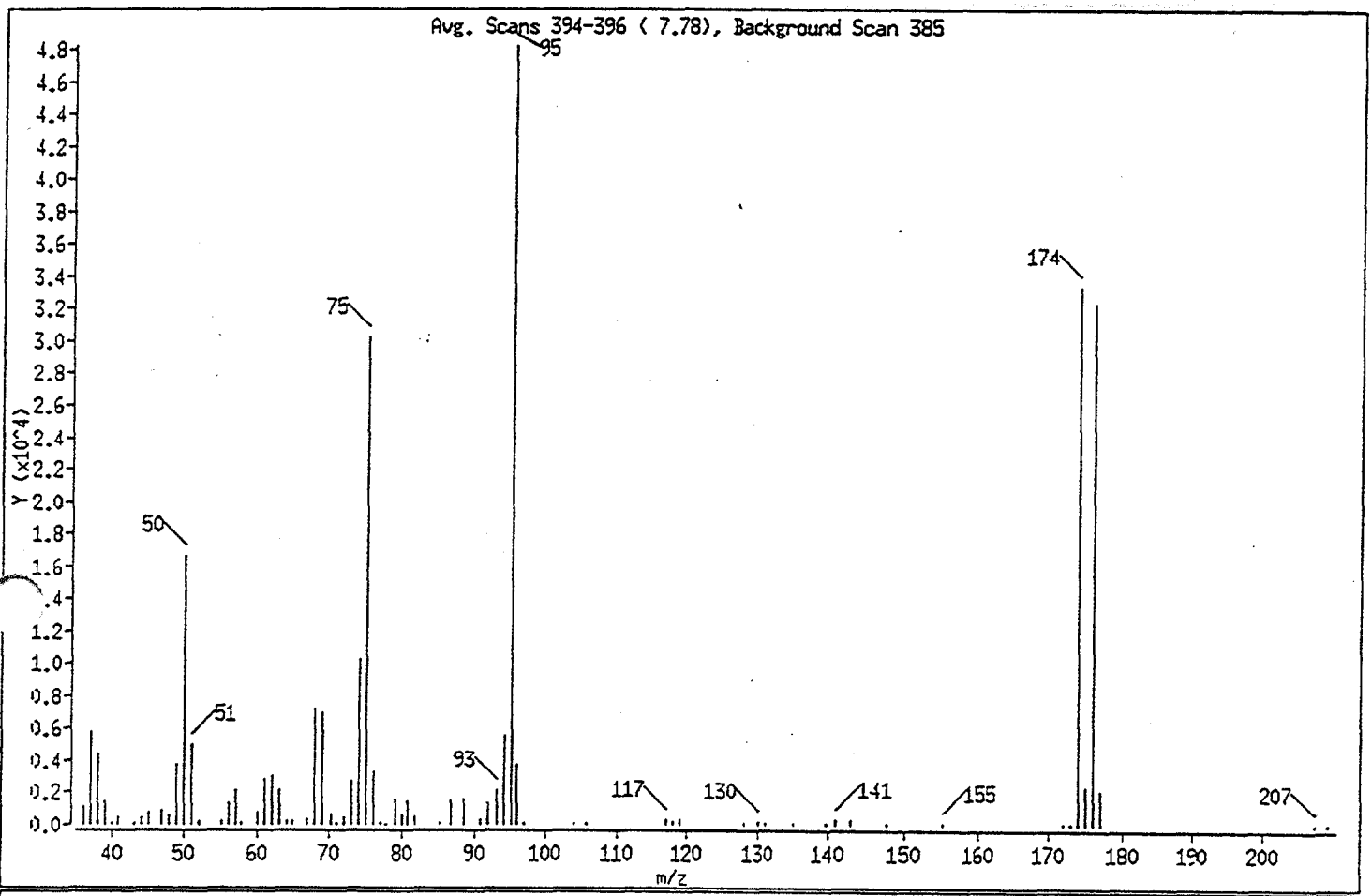
Column phase: J&W DB-624

Column diameter: 0.53



CLP

Data File: /chem/msc.i/c0205a96.b/c8330.d
Date : 05-FEB-96 16:48
Client ID:
Instrument: msc.i
Sample Info: bfb tune
Operator: jk
Column phase: J&W DB-624
Column diameter: 0.53
1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	34.44
75	30.00 - 60.00% of mass 95	62.58
96	5.00 - 9.00% of mass 95	7.75
173	Less than 2.00% of mass 174	0.19 (0.28)
174	50.00 - 100.00% of mass 95	69.22
175	5.00 - 9.00% of mass 174	4.91 (7.10)
176	95.00 - 101.00% of mass 174	67.19 (97.06)
177	5.00 - 9.00% of mass 176	4.59 (6.83)

Passed CLP criteria
30-66 %.
GAC
2-5-96

Data File: /chem/msc.i/c0205a96.b/c8330.d

Date : 05-FEB-96 16:48

Client ID:

Instrument: msc.i

Sample Info: bfb tune

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

Data File: c8330.d

Spectrum : Avg. Scans 394-396 (7.78), Background Scan 385

Largest m/z: 95.05

Number of peaks: 73

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.05	1175	60.00	831	79.95	572	130.00	202
37.05	5785	61.00	2841	80.85	1451	131.00	76
38.05	4423	62.00	3114	81.75	426	135.00	68
39.05	1501	63.00	2157	85.25	73	139.55	67
40.05	73	64.10	252	86.95	1472	140.85	375
40.95	429	64.90	201	88.55	1543	142.85	322
43.05	124	67.00	324	90.85	309	147.65	71
44.05	460	68.00	7127	91.95	1387	154.95	76
45.05	748	69.00	6906	93.05	2187	171.90	97
47.00	968	70.10	652	94.05	5629	172.90	94
48.00	549	71.00	71	95.05	48232	173.90	33392
49.00	3733	71.90	453	96.05	3739	174.90	2370
50.00	16608	73.00	2741	97.05	99	175.90	32408
51.00	5044	74.00	10276	103.95	165	176.90	2213
52.10	254	75.00	30184	105.85	70	207.05	108
55.00	203	75.95	3277	116.90	331	208.85	72
56.00	1364	76.95	136	117.90	273		
57.00	2136	77.85	22	118.90	329		
57.90	86	78.95	1576	128.10	145		

Data File: /chem/msc.i/c020496.b/c8296.d

Date : 04-FEB-96 14:44

Client ID: bfb tune

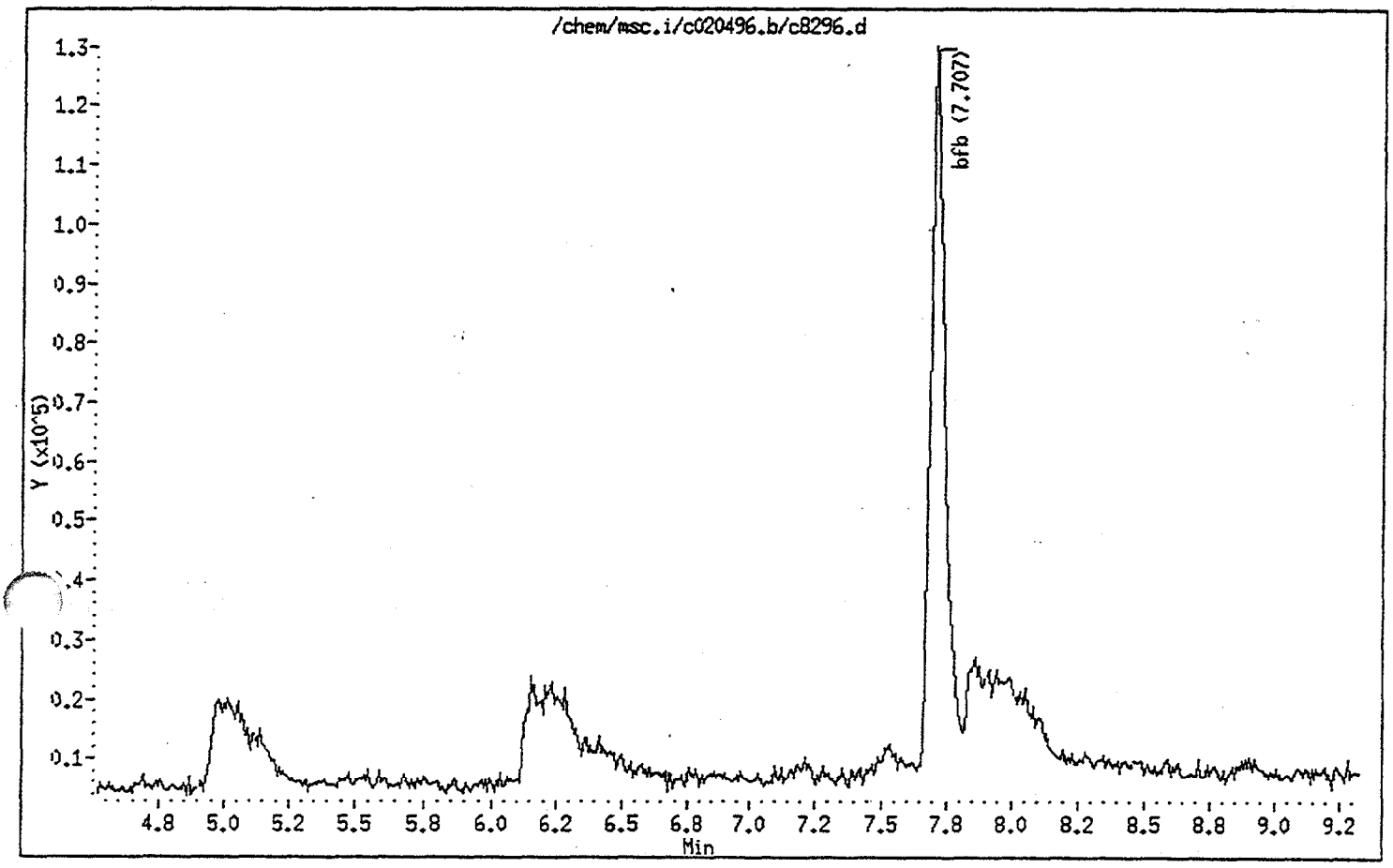
Instrument: msc.i

Sample Info: bfb tune

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53



Data File: /chem/msc.i/c020496.b/c8296.d

Date : 04-FEB-96 14:44

Client ID: bfb tune

Instrument: msc.i

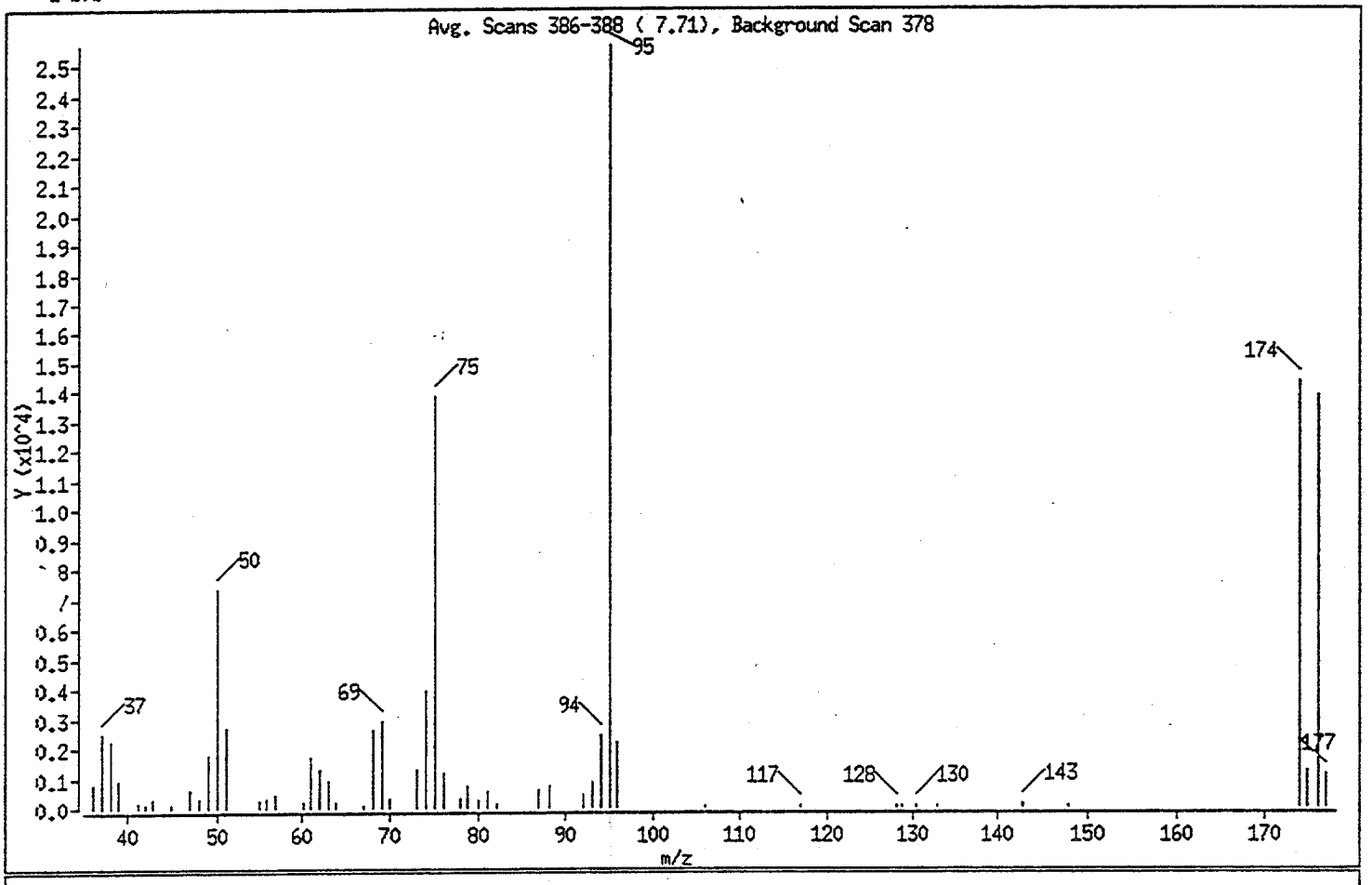
Sample Info: bfb tune

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	28.49
75	30.00 - 60.00% of mass 95	53.97
96	5.00 - 9.00% of mass 95	8.45
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	55.81
175	5.00 - 9.00% of mass 174	4.72 (8.46)
176	95.00 - 101.00% of mass 174	53.98 (96.72)
177	5.00 - 9.00% of mass 176	4.15 (7.68)

Data File: /chem/msc.i/c020496.b/c8296.d

Date : 04-FEB-96 14:44

Client ID: bfb tune

Instrument: msc.i

Sample Info: bfb tune

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

Data File: c8296.d

Spectrum : Avg. Scans 386-388 (7.71), Background Scan 378

Largest m/z: 95.00

Number of peaks: 53

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	816	55.85	317	76.05	1150	117.00	78
37.00	2483	56.95	433	78.05	315	128.05	90
38.00	2271	60.15	205	78.85	725	128.85	79
39.00	931	61.05	1696	79.95	242	130.45	74
41.10	175	62.05	1294	81.05	525	132.95	67
42.00	104	63.05	930	82.05	107	142.85	135
42.90	291	63.95	205	86.90	614	147.95	68
45.00	107	67.05	69	88.10	716	173.90	14332
47.00	637	68.05	2618	92.00	401	174.90	1213
48.00	321	69.05	2895	93.00	844	176.00	13862
49.00	1788	69.85	274	94.00	2442	176.90	1065
50.00	7317	73.05	1269	95.00	25680		
51.10	2674	74.05	3927	96.00	2171		
54.95	214	75.05	13859	106.00	83		

Data File: /chem/msc.i/c020696.b/c8347.d

Date : 06-FEB-96 09:13

Client ID: bfb tune

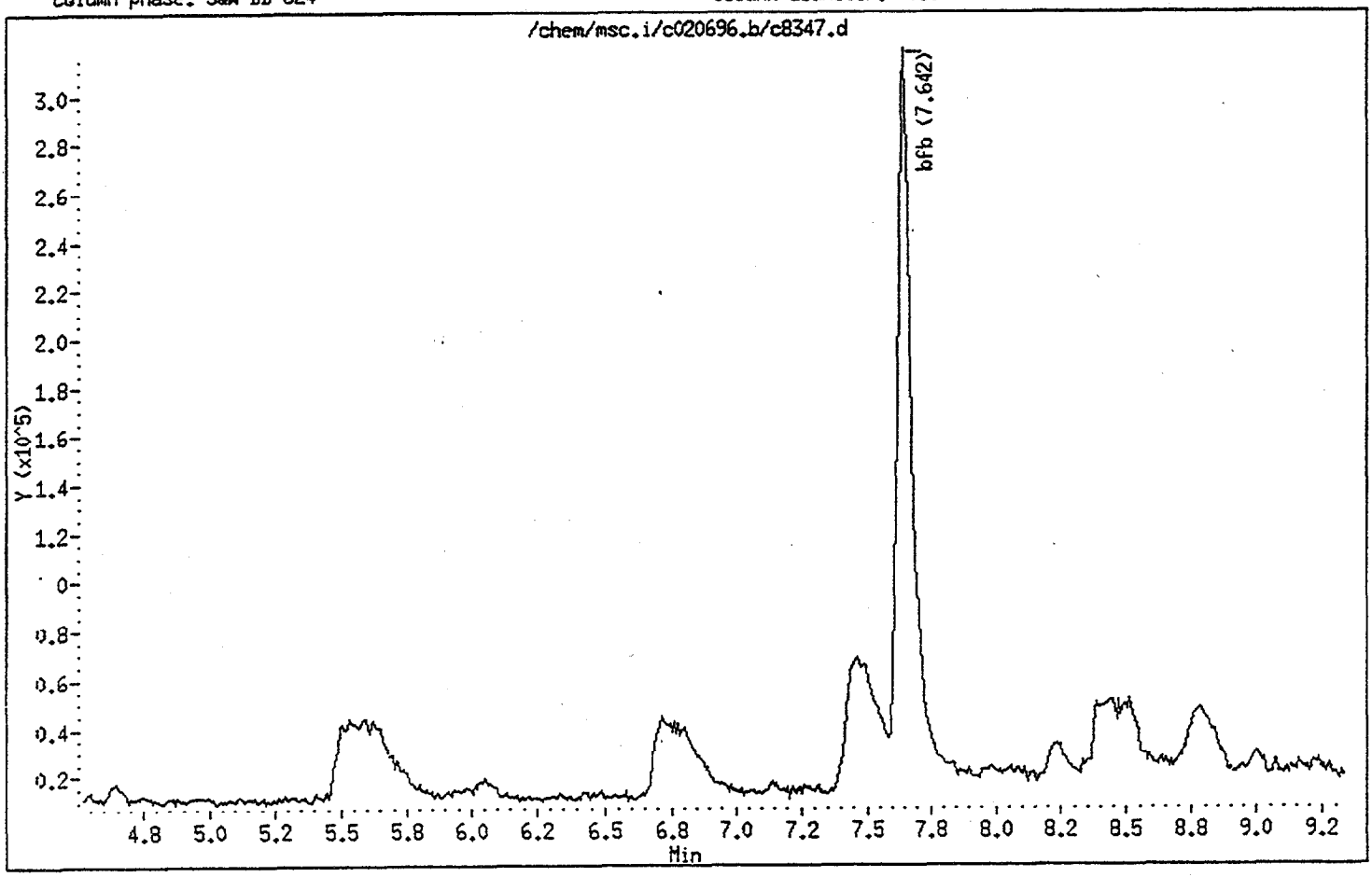
Instrument: msc.i

Sample Info: bfb 50ng ma2855 purged

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53



CLP - OK

Data File: /chem/msc.i/c020696.b/c8347.d

Date : 06-FEB-96 09:13

Client ID: bfb tune

Instrument: msc.i

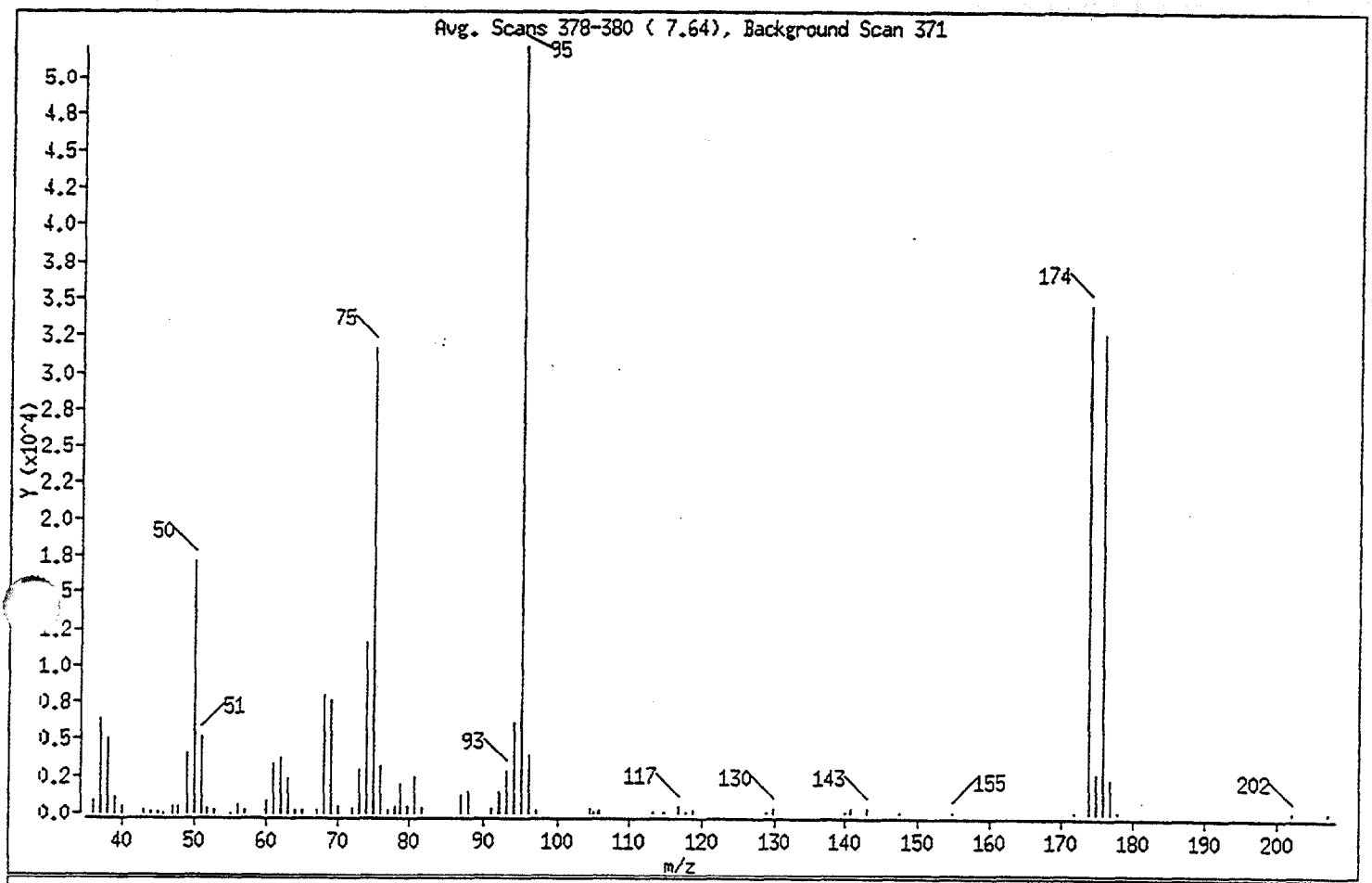
Sample Info: bfb 50ng ma2855 purged

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	15.00 - 40.00% of mass 95	32.77	
75	30.00 - 60.00% of mass 95 CLP 30-66	60.79	✓ OK for CLP
96	5.00 - 9.00% of mass 95	7.45	
173	Less than 2.00% of mass 174	0.00 (0.00)	
174	50.00 - 100.00% of mass 95	66.34	
175	5.00 - 9.00% of mass 174	5.16 (7.77)	
176	95.00 - 101.00% of mass 174 → CLP 93-101	62.75 (94.59)	✓ OK for CLP
177	5.00 - 9.00% of mass 176	4.60 (7.33)	

MK 2/6/96

Data File: /chem/msc.i/c020696.b/c8347.d

Date : 06-FEB-96 09:13

Client ID: bfb tune

Instrument: msc.i

Sample Info: bfb 50ng ma2855 purged

Operator: jk

Column phase: J&W DB-624

Column diameter: 0.53

Data File: c8347.d

Spectrum : Avg. Scans 378-380 (7.64), Background Scan 371

Largest m/z: 95.05

Number of peaks: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.05	806	60.00	838	80.85	2487	128.90	81
37.05	6394	61.00	3311	81.85	416	129.90	311
38.05	5041	62.00	3689	86.95	1238	139.95	100
39.05	1131	63.00	2305	87.95	1419	140.85	350
39.95	515	64.10	188	90.95	422	142.95	359
43.15	293	65.00	224	91.95	1519	147.55	67
44.05	180	67.00	306	92.95	2797	154.85	72
45.05	164	68.00	8057	94.05	6155	171.80	148
45.90	13	69.00	7668	95.05	52120	173.90	34576
47.00	457	70.00	540	96.05	3883	174.90	2688
47.90	489	72.00	428	97.05	222	175.90	32704
49.00	4122	73.00	2928	104.45	365	176.90	2399
50.00	17080	74.00	11539	104.95	76	177.90	67
51.00	5137	75.00	31680	105.85	218	202.05	67
51.90	318	75.95	3236	113.20	68	207.05	64
52.80	192	76.95	271	114.80	108		
55.00	51	77.95	435	116.90	454		
56.00	606	78.85	1919	117.70	97		
57.00	209	79.85	511	118.80	299		

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

0137 EPA SAMPLE NO.

VBLK01A

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: N2V4939V

Sample wt/vol: 5.00 (g/mL) G Lab File ID: C8292

Level: (low/med) ~~LOW~~ MED Date Received: 2/2/96

% Moisture: not dec. N/A Date Analyzed: 02/03/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethylene	130	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0138 EPA SAMPLE NO.

VBLK01A

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: N2V4939V

Sample wt/vol: 5.00 (g/mL) G Lab File ID: C8292

Level: (low/med) ~~LOW~~ MED Date Received: 2/2/96

% Moisture: not dec. N/A Date Analyzed: 02/03/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

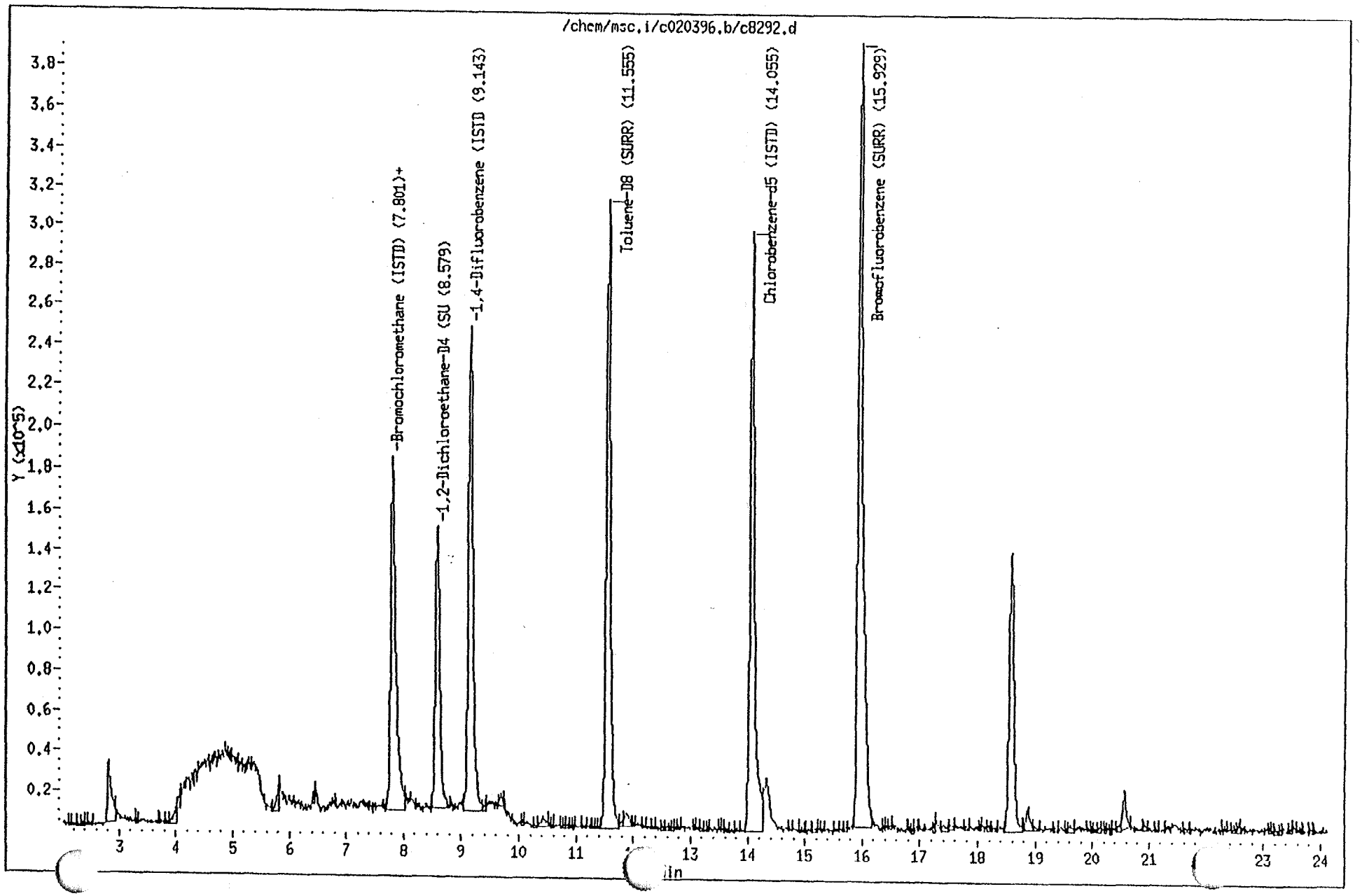
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0139

Data File: /chem/msc.i/c020396.b/c8292.d
Date : 03-FEB-96 22:01
Client ID: n2vg4938 blk
Sample Info: n2v4939 blk (5)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c020396.b/c8292.d
Report Date: 04-Feb-1996 14:37

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c020396.b/c8292.d
Lab Smp Id:
Client Smp ID: ~~n2vg4938 blk~~
Inj Date : 03-FEB-96 22:01
Operator : jk
Inst ID: msc.i
Smp Info : n2v4939 blk (5)
Misc Info : n2v4939v,n2v4939,m2,5000,25,5.0,5.0,960203,
Comment :
Method : /chem/msc.i/c020396.b/020396_ambic.m
Meth Date : 04-Feb-1996 13:54
Quant Type: ISTD
Cal Date : 03-FEB-96 14:01
Cal File: c8279.d
Als bottle: 5
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
.2 Bromochloromethane (ISTD)	128.00	7.801	7.923	(1.000)	119520	50.0	(QM)
$ 27 1,2-Dichloroethane-D4 (SURR)	65.00	8.571	8.687	(1.000)	263222	56.8	56.8
* 30 1,4-Difluorobenzene (ISTD)	114.00	9.151	9.268	(1.000)	359167	50.0	
$ 38 Toluene-D8 (SURR)	98.00	11.555	11.630	(0.822)	455645	56.5	56.5
* 47 Chlorobenzene-d5 (ISTD)	117.00	14.055	14.083	(1.000)	326085	50.0	
$ 56 Bromofluorobenzene (SURR)	95.00	15.929	15.934	(1.133)	463364	57.6	57.6

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

0141 EPA SAMPLE NO.

VBLK01 B

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS01

Matrix: (soil/water) WATER Lab Sample ID: N1V4940V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C8311

Level: (low/med) LOW Date Received: 2/2/96

% Moisture: not dec. N/A Date Analyzed: 02/04/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
74-87-3	Chloromethane		5	U
74-83-9	Bromomethane		5	U
75-01-4	Vinyl Chloride		5	U
75-00-3	Chloroethane		5	U
75-09-2	Methylene Chloride		5	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		5	U
75-35-4	1,1-Dichloroethene		5	U
75-34-3	1,1-Dichloroethane		5	U
540-59-0	1,2-Dichloroethene (total)		5	U
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		5	U
78-93-3	2-Butanone		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		5	U
124-48-1	Dibromochloromethane		5	U
79-00-5	1,1,2-Trichloroethane		5	U
71-43-2	Benzene		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
75-25-2	Bromoform		5	U
108-10-1	Methyl-iso-butyl ketone		10	U
591-78-6	2-Hexanone		5	U
127-18-4	Tetrachloroethylene		5	U
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
100-42-5	Styrene		5	U
1330-20-7	Xylene (total)		5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0142 EPA SAMPLE NO.

VBLK01B

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS01

Matrix: (soil/water) WATER Lab Sample ID: N1V4940V

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C8311

Level: (low/med) LOW Date Received: 2/2/96

% Moisture: not dec. N/A Date Analyzed: 02/04/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

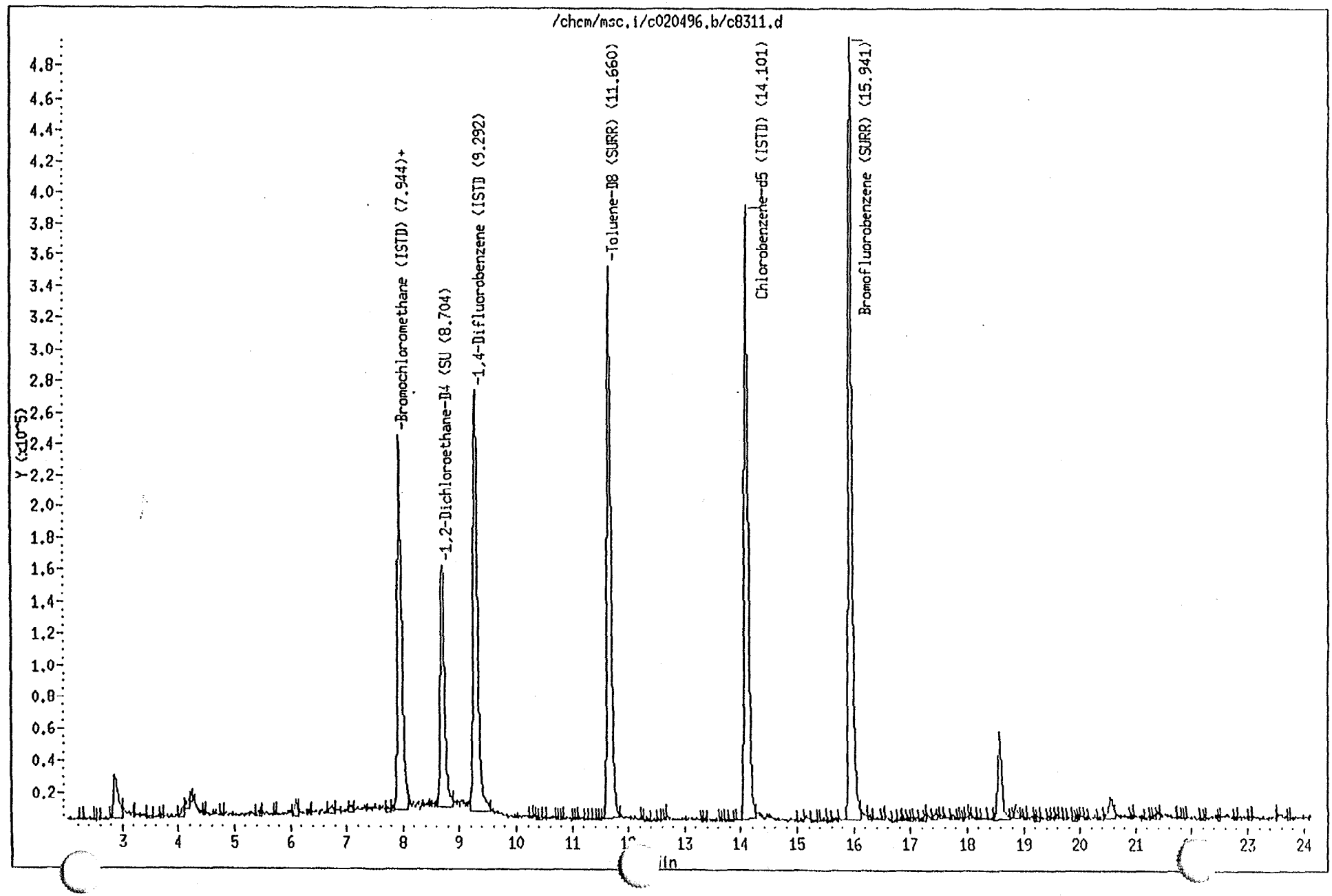
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0143

Data File: /chem/msc.i/c020496.b/c8311.d
Date : 04-FEB-96 22:57
Client ID: n1v4940 blk
Sample Info: n1v4940 blk (5)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c020496.b/c8311.d
Report Date: 05-Feb-1996 09:26

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 & Screen

Data file : /chem/msc.i/c020496.b/c8311.d
Lab Smp Id: Client Smp ID: n1v4940 blk
Inj Date : 04-FEB-96 22:57
Operator : jk Inst ID: msc.i
Smp Info : n1v4940 blk (5)
Misc Info : n1v4940v,n1v4940,m2,5000,1,5.0,5.0,960204,
Comment :
Method : /chem/msc.i/c020496.b/020396_ambic.m
Meth Date : 05-Feb-1996 09:20 glenn Quant Type: ISTD
Cal Date : 04-FEB-96 15:19 Cal File: c8297.d
Als bottle: 5
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	
	2 Bromochloromethane (ISTD)	128.00	7.944	7.902	(1.000)	124286	50.0		(QM)
S	27 1,2-Dichloroethane-D4 (SURR)	65.00	8.696	8.673	(1.000)	263498	54.9	54.9	
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.284	9.285	(1.000)	368547	50.0		
S	38 Toluene-D8 (SURR)	98.00	11.660	11.599	(0.827)	464711	49.3	49.3	
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.101	14.029	(1.000)	366923	50.0		
S	56 Bromofluorobenzene (SURR)	95.00	15.932	15.883	(1.130)	418194	44.8	44.8	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

0145 EPA SAMPLE NO.

VBLK01C

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: N2V4947V

Sample wt/vol: 5.00 (g/mL) G Lab File ID: C8336

Level: (low/med) LOW Date Received: 2/2/96

% Moisture: not dec. N/A Date Analyzed: 02/05/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
74-87-3	Chloromethane		5	U
74-83-9	Bromomethane		5	U
75-01-4	Vinyl Chloride		5	U
75-00-3	Chloroethane		5	U
75-09-2	Methylene Chloride		2	J
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		5	U
75-35-4	1,1-Dichloroethene		5	U
75-34-3	1,1-Dichloroethane		5	U
540-59-0	1,2-Dichloroethene (total)		5	U
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		5	U
78-93-3	2-Butanone		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		5	U
124-48-1	Dibromochloromethane		5	U
79-00-5	1,1,2-Trichloroethane		5	U
71-43-2	Benzene		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
75-25-2	Bromoform		5	U
108-10-1	Methyl-iso-butyl ketone		8	J
591-78-6	2-Hexanone		5	U
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
100-42-5	Styrene		5	U
1330-20-7	Xylene (total)		5	U
156-60-5	1,2-Trans-dichloroethylene		5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0146 EPA SAMPLE NO.

VBLK01C

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: N2V4947V

Sample wt/vol: 5.00 (g/mL) G Lab File ID: C8336

Level: (low/med) LOW Date Received: 2/2/96

% Moisture: not dec. N/A Date Analyzed: 02/05/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

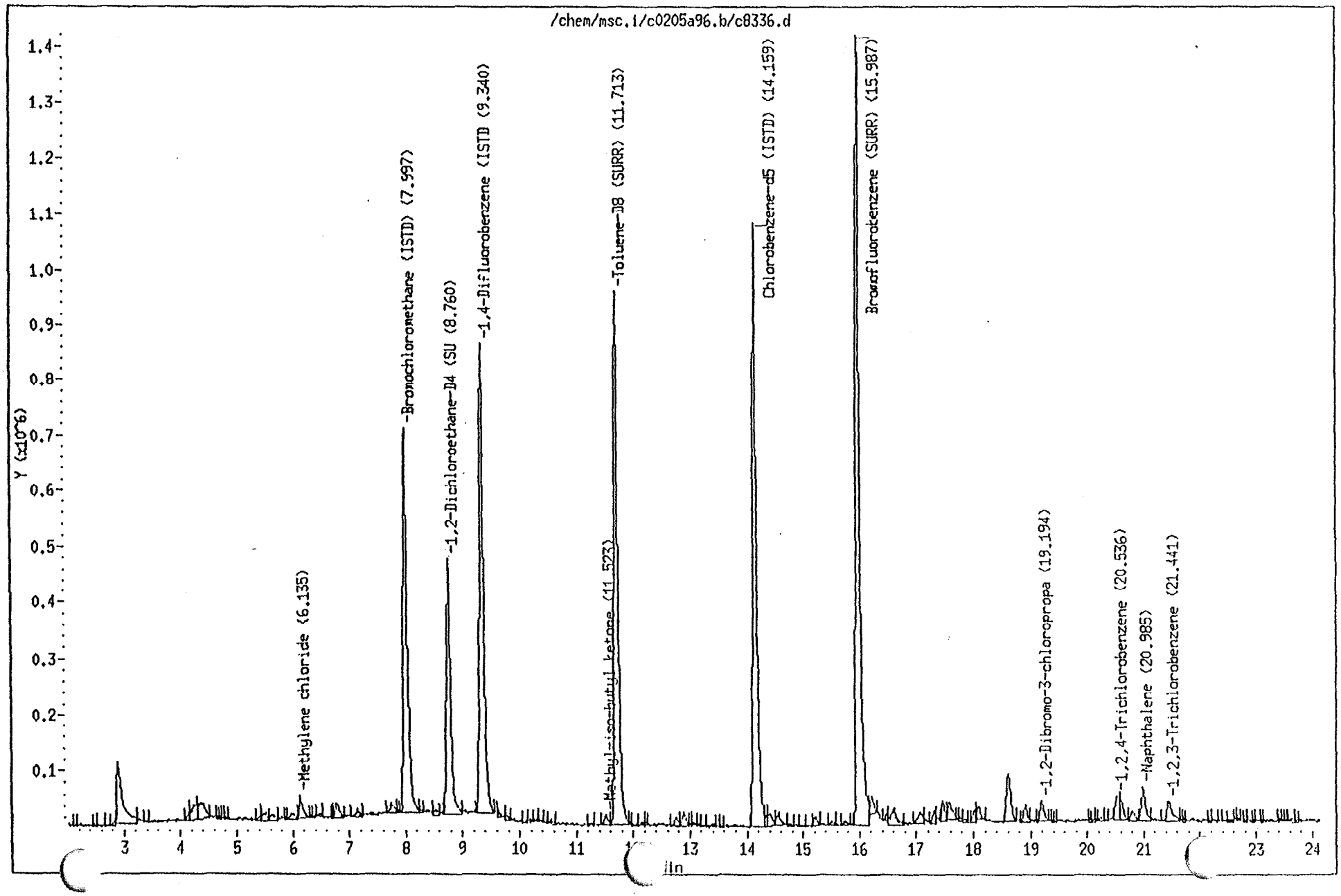
Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: /chem/msc.i/c0205a96.b/c8336.d
Date : 05-FEB-96 20:02
Client ID: n2v4947 blk
Sample Info: n2v4947 met blk
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c0205a96.b/c8336.d
Report Date: 06-Feb-1996 08:31

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240 + Screen

Data file : /chem/msc.i/c0205a96.b/c8336.d
Lab Smp Id: Client Smp ID: n2v4947 blk
Inj Date : 05-FEB-96 20:02
Operator : jk Inst ID: msc.i
Smp Info : n2v4947 met blk
Misc Info : n2v4947v,n2v4947,m2,5000,1,5.0,5.0,960205
Comment :
Method : /chem/msc.i/c0205a96.b/020596_heatc.m
Meth Date : 06-Feb-1996 08:27 glenn Quant Type: ISTD
Cal Date : 05-FEB-96 18:25 Cal File: c8333.d
Als bottle: 7
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

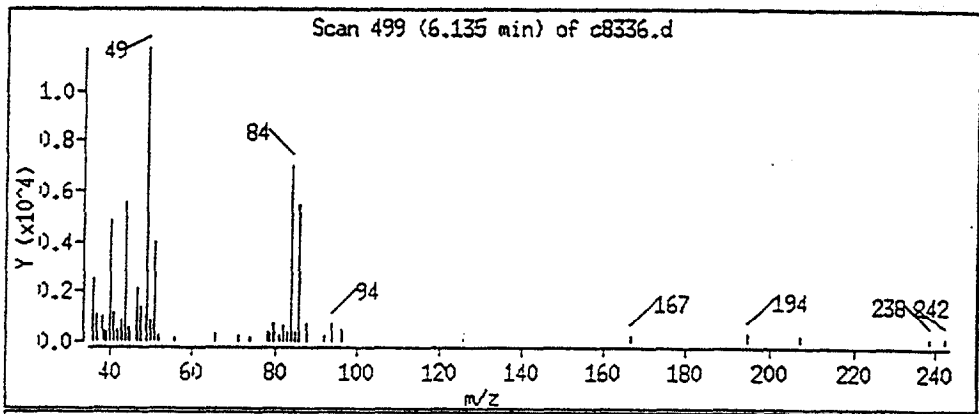
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	13 Methylene chloride	84.00	6.135	6.092	(0.767)	29405	2.40	2.40
*	22 Bromochloromethane (ISTD)	128.00	7.997	7.937	(1.000)	429355	50.0	
$	27 1,2-Dichloroethane-D4 (SURR)	65.00	8.752	8.708	(1.094)	754550	42.8	42.8
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.340	9.280	(1.000)	1452262	50.0	
	37 Methyl-iso-butyl ketone	43.00	11.523	11.447	(0.814)	24093	0.845	0.845(aQ)
$	38 Toluene-D8 (SURR)	98.00	11.713	11.637	(0.827)	1445326	48.2	48.2
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.159	14.092	(1.000)	1262435	50.0	
$	56 Bromofluorobenzene (SURR)	95.00	15.987	15.938	(1.129)	1221866	51.6	51.6
	72 1,2-Dibromo-3-chloropropane	75.00	19.203	19.140	(1.356)	21717	1.50	1.50
	73 1,2,4-Trichlorobenzene	180.00	20.536	20.473	(1.450)	35192	1.18	1.18
	75 Naphthalene	128.00	20.985	20.923	(1.482)	117429	1.91	1.91
	76 1,2,3-Trichlorobenzene	180.00	21.449	21.387	(1.515)	25550	0.864	0.864(a)

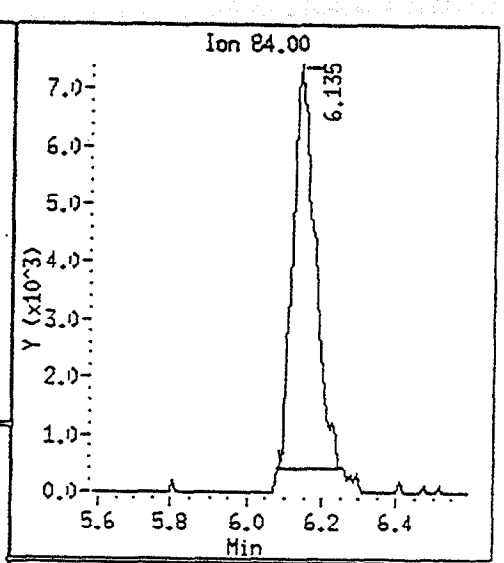
QC Flag Legend

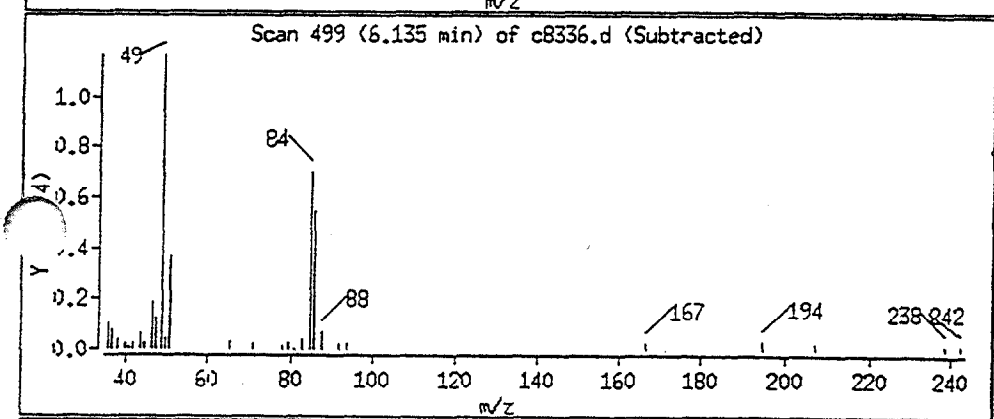
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

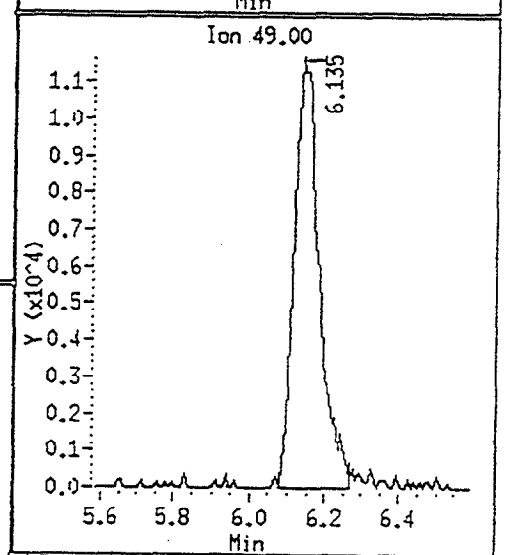
Data File: /chem/msc.i/c0205a96.b/c8336.d
Date : 05-FEB-96 20:02
Client ID: n2v4947 blk
Instrument: msc.i
Sample Info: n2v4947 met blk
Purge Volume: 1.0
Operator: jk
Column phase: J&W DB_624
Column diameter: 0.53

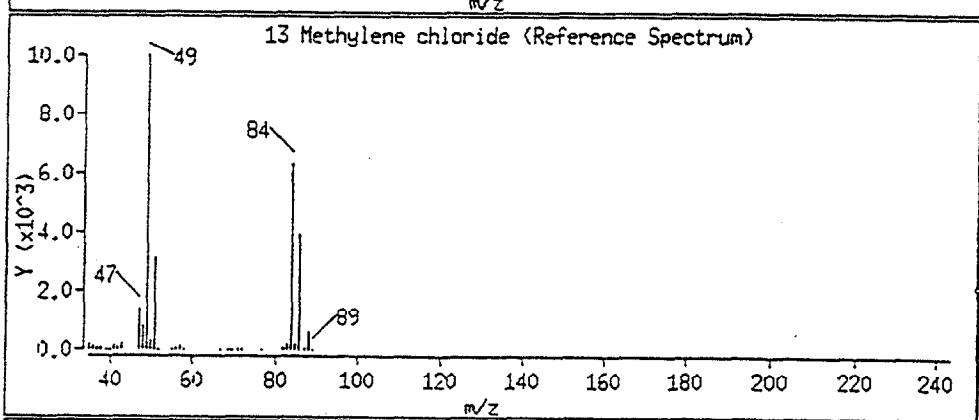
13 Methylene chloride

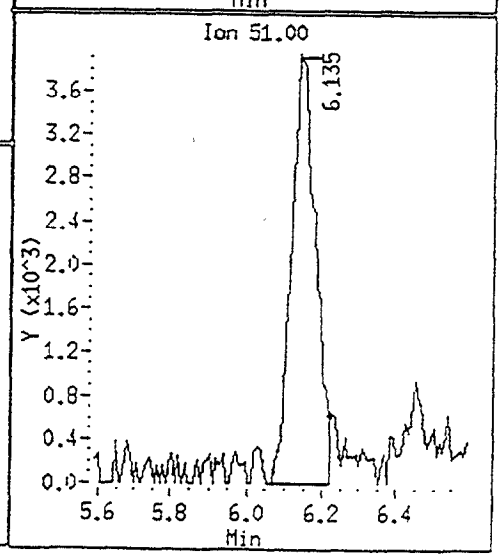


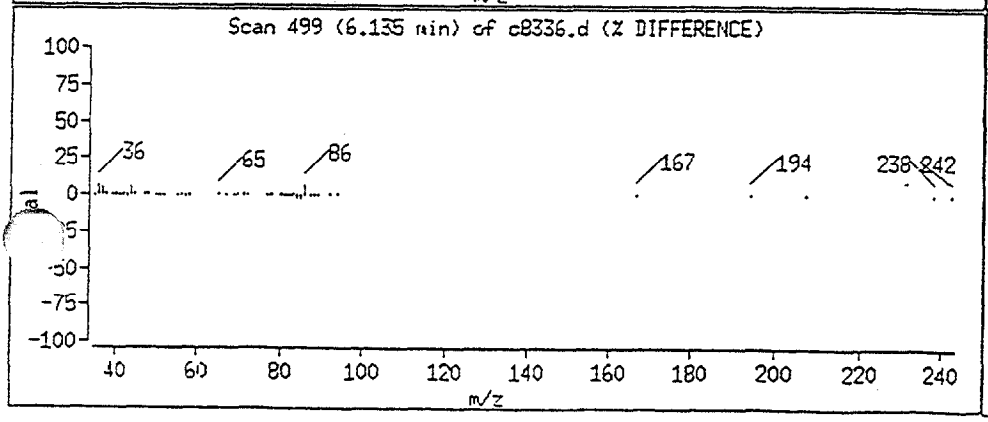












Data File: /chem/msc.i/c0205a96.b/c8336.d

Date : 05-FEB-96 20:02

Client ID: n2v4947 blk

Instrument: msc.i

Sample Info: n2v4947 met blk

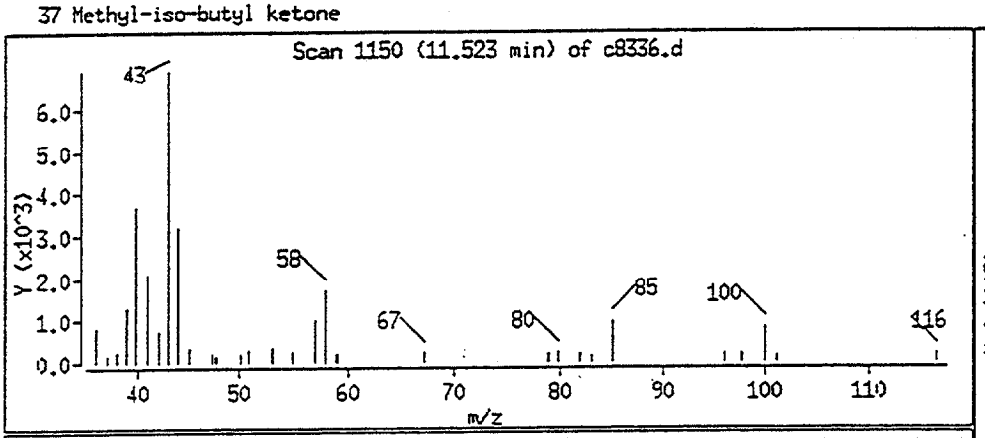
Purge Volume: 1.0

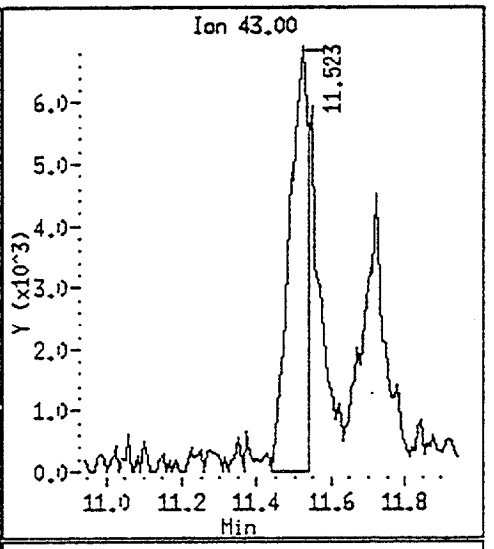
Operator: jk

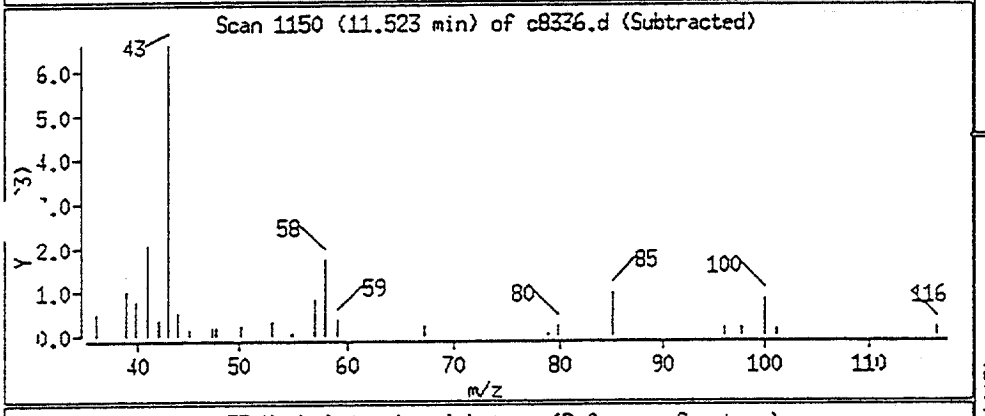
Column phase: J&W DB_624

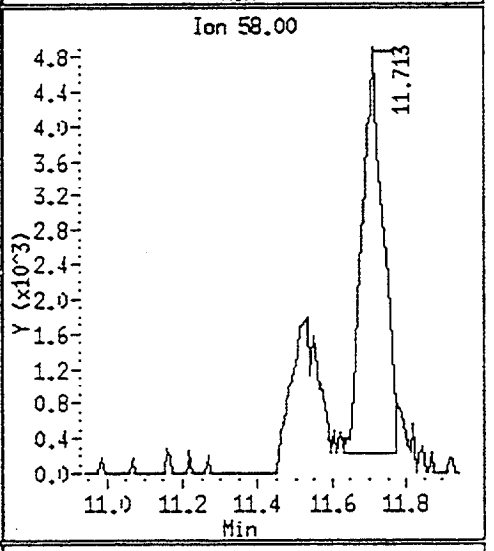
Column diameter: 0.53

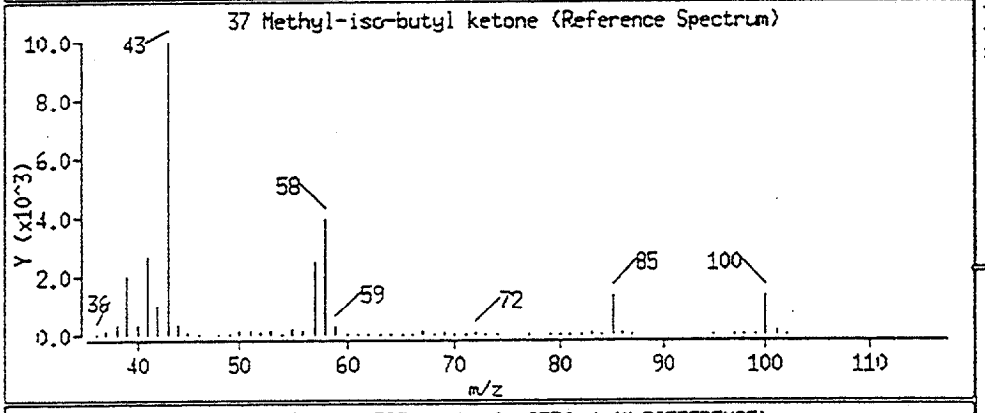
37 Methyl-iso-butyl ketone

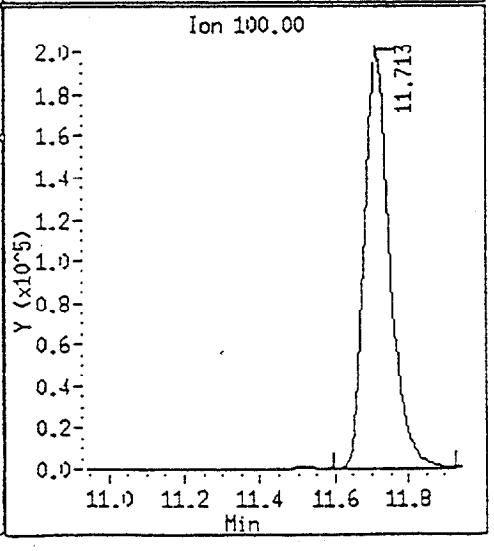


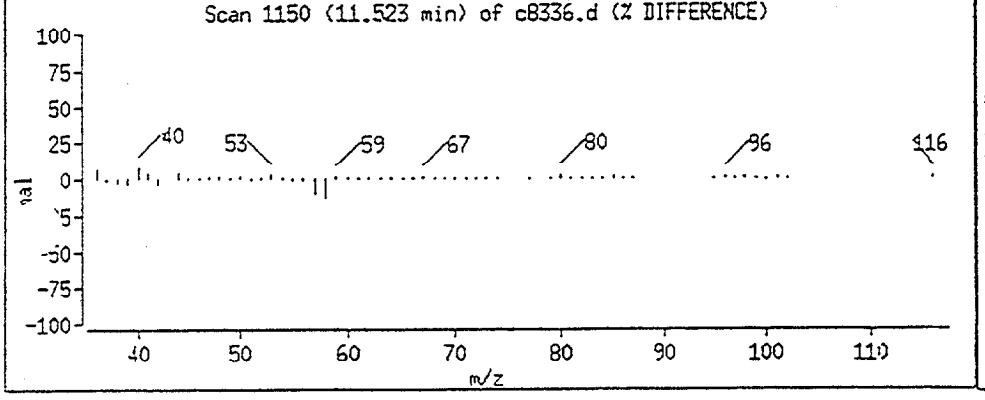












1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0150A

CLJ78SS003MS

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2877VS

Sample wt/vol: ~~2.66AS~~ 5.32 (g/mL) G Lab File ID: C8301

Level: (low/med) ~~LOW~~ MED Date Received: 02/02/96

% Moisture: not dec. 16 Date Analyzed: 02/04/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume: ~~5000AS~~ 10000 (uL) Soil Aliquot Volume: ~~5000AS~~ 200 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethylene	6300	

Data File: /chem/msc.i/c020496.b/c8301.d
Report Date: 05-Feb-1996 07:44

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c020496.b/c8301.d
Lab Smp Id: Client Smp ID: n2v4939 mtx spk
Inj Date : 04-FEB-1996 17:38
Operator : jk Inst ID: msc.i
Smp Info : n2v4939 mtx spk (11)
Misc Info : jp2877vs,n2v4939,m2,5000,25,2.66,5.0,960203,
Comment :
Method : /chem/msc.i/c020496.b/020396_ambic.m
Meth Date : 05-Feb-1996 07:34 glenn Quant Type: ISTD
Cal Date : 04-FEB-96 15:19 Cal File: c8297.d
Als bottle: 11
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

mc 2/5/96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
1	Dichlorodifluoromethane	85.00	3.092	3.158	(0.395)	339088	48.7	48.7 (M)
2	Methyl chloride	50.00	3.480	3.504	(0.445)	190175	60.4	60.4
3	Vinyl chloride	62.00	3.604	3.661	(0.461)	169858	53.9	53.9 (M)
4	Methyl bromide	94.00	4.083	4.156	(0.522)	91700	36.0	36.0 (QM)
5	Chloroethane	64.00	4.183	4.273	(0.535)	68132	41.3	41.3 (M)
6	Trichlorofluoromethane	101.00	4.474	4.645	(0.572)	172058	18.7	18.7
7	Ethyl ether	59.00	4.908	5.124	(0.627)	57595	17.3	17.3
8	Acrolein	56.00	5.084	5.305	(0.650)	50751	16.5	16.5
9	1,1,2-Trichlorotrifluoroethan	101.00	5.076	5.388	(0.649)	120658	13.7	13.7
10	1,1-Dichloroethylene	96.00	5.101	5.397	(0.652)	54849	13.9	13.9
11	Acetone	43.00	5.418	5.529	(0.692)	83397	46.9	46.9 (M)
12	Carbon disulfide	76.00	5.393	5.711	(0.689)	451532	37.0	37.0
13	Methylene chloride	84.00	5.831	6.025	(0.745)	211722	48.0	48.0
14	Acrylonitrile	53.00	6.344	6.330	(0.811)	76432	68.0	68.0 (M)
15	1,2-Trans-dichloroethylene	96.00	6.178	6.347	(0.790)	215290	50.5	50.5
16	Tert-Butyl Methyl Ether	73.00	6.369	6.372	(0.814)	559163	52.3	52.3
17	1,1-Dichloroethane	63.00	6.757	6.851	(0.864)	488660	50.2	50.2
18	1,2-cis-Dichloroethylene	96.00	7.493	7.579	(0.958)	237227	56.4	56.4 (QM)
19	2,2-Dichloropropane	77.00	7.485	7.571	(0.957)	367482	44.4	44.4
20	Methyl ethyl ketone	72.00	7.692	7.612	(0.838)	17350	52.7	52.7 (QM)
21	Ethyl acetate	43.00	7.676	7.662	(0.981)	740218	49.3	49.3 (Q)
22	Bromochloromethane (ISTD)	128.00	7.825	7.902	(1.000)	154155	50.0	
23	Chloroform	83.00	7.924	7.968	(1.013)	485440	48.2	48.2
24	1,1,1-Trichloroethane	97.00	8.148	8.250	(0.888)	371836	61.8	61.8
25	1,1-Dichloropropene	75.00	8.356	8.458	(0.911)	328212	63.1	63.1
	Carbon tetrachloride	117.00	8.364	8.474	(0.911)	282578	59.0	59.0
S 27	1,2-Dichloroethane-D4 (SURR)	65.00	8.588	8.673	(1.097)	284062	47.7	47.7
28	Benzene	78.00	8.646	8.764	(0.942)	457563	61.5	61.5
29	1,2-Dichloroethane	62.00	8.704	8.789	(1.112)	376645	42.8	42.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.176	9.285	(1.000)	458102	50.0	
	31 Trichloroethylene	130.00	9.582	9.698	(1.044)	232474	56.0	56.0
	32 1,2-Dichloropropane	63.00	9.963	10.054	(1.086)	281735	59.6	59.6
	33 Dibromomethane	93.00	10.161	10.244	(1.107)	259856	62.5	62.5
	34 Dichlorobromomethane	83.00	10.401	10.467	(1.133)	517367	61.7	61.7
	36 cis-1,3-Dichloropropylene	75.00	11.095	11.161	(1.209)	419507	64.6	64.6
	37 Methyl-iso-butyl ketone	43.00	11.418	11.409	(0.816)	337550	45.6	45.6 (Q)
S	38 Toluene-D8 (SURR)	98.00	11.534	11.599	(0.824)	525632	47.2	47.2
	39 Toluene	91.00	11.641	11.707	(0.832)	564443	48.4	48.4
	40 trans-1,3-Dichloropropylene	75.00	11.997	12.037	(1.307)	367166	63.1	63.1
	41 1,1,2-Trichloroethane	97.00	12.328	12.368	(1.343)	221355	64.7	64.7
	42 Tetrachloroethylene	164.00	12.568	12.624	(0.898)	590962	112	112
	43 1,3-Dichloropropane	76.00	12.610	12.641	(0.901)	414556	47.9	47.9
	44 2-Hexanone	43.00	12.792	12.757	(0.914)	226945	46.5	46.5
	45 Chlorodibromomethane	129.00	13.016	13.046	(1.418)	404399	63.6	63.6 (M)
	46 Ethylene dibromide	107.00	13.223	13.261	(0.945)	345029	48.1	48.1
*	47 Chlorobenzene-d5 (ISTD)	117.00	13.991	14.029	(1.000)	433900	50.0	
	48 Chlorobenzene	112.00	14.049	14.079	(1.004)	450218	48.4	48.4
	49 1,1,1,2-Tetrachloroethane	133.00	14.182	14.220	(1.014)	275702	46.4	46.4
	50 Ethylbenzene	106.00	14.207	14.253	(1.015)	212992	48.6	48.6
	1 m+p-Xylenes	106.00	14.398	14.444	(1.029)	532211	99.1	99.1
	52 o-Xylene	106.00	15.060	15.097	(1.076)	262559	48.7	48.7
	53 Styrene	104.00	15.076	15.122	(1.078)	423065	50.8	50.8
	54 Bromoform	173.00	15.416	15.427	(1.680)	334962	59.3	59.3
	55 Isopropylbenzene	105.00	15.615	15.643	(1.116)	762007	46.1	46.1
S	56 Bromofluorobenzene (SURR)	95.00	15.864	15.883	(1.134)	510878	46.3	46.3
	57 1,1,2,2-Tetrachloroethane	83.00	16.055	16.065	(1.147)	423342	47.1	47.1
	58 1,2,3-Trichloropropane	75.00	16.138	16.140	(1.153)	407390	47.2	47.2
	59 Bromobenzene	156.00	16.105	16.123	(1.151)	292547	48.4	48.4
	60 n-Propylbenzene	91.00	16.204	16.240	(1.158)	1002510	47.8	47.8
	61 o-Chlorotoluene	91.00	16.346	16.373	(1.168)	810421	46.8	46.8
	62 1,3,5-Trimethylbenzene	105.00	16.446	16.472	(1.175)	674458	46.4	46.4
	63 p-Chlorotoluene	91.00	16.496	16.514	(1.179)	944846	50.1	50.1
	64 tert-Butylbenzene	119.00	16.902	16.911	(1.208)	738374	47.3	47.3
	65 1,2,4-Trimethylbenzene	105.00	16.952	16.970	(1.212)	716390	48.2	48.2
	66 sec-Butylbenzene	105.00	17.176	17.193	(1.228)	920608	46.8	46.8
	67 4-Isopropyltoluene	119.00	17.359	17.367	(1.241)	818859	46.3	46.3
	68 1,3-Dichlorobenzene	146.00	17.359	17.367	(1.241)	466006	46.2	46.2
	69 1,4-Dichlorobenzene	146.00	17.467	17.476	(1.248)	604418	48.2	48.2
	70 n-Butylbenzene	91.00	17.898	17.906	(1.279)	863566	44.8	44.8
	71 1,2-Dichlorobenzene	146.00	17.965	17.973	(1.284)	513482	47.8	47.8 (H)
	72 1,2-Dibromo-3-chloropropane	75.00	19.048	19.056	(1.361)	168762	47.9	47.9
	73 1,2,4-Trichlorobenzene	180.00	20.362	20.369	(1.455)	460009	45.7	45.7
	74 Hexachlorobutadiene	225.00	20.628	20.643	(1.474)	240265	38.4	38.4
	75 Naphthalene	128.00	20.811	20.818	(1.487)	884828	51.7	51.7
	1,2,3-Trichlorobenzene	180.00	21.258	21.256	(1.519)	446125	45.4	45.4

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

0154 EPA SAMPLE NO.

CLJ-FBMS

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS01

Matrix: (soil/water) WATER Lab Sample ID: JP2882VS

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C8313

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. N/A Date Analyzed: 02/05/96

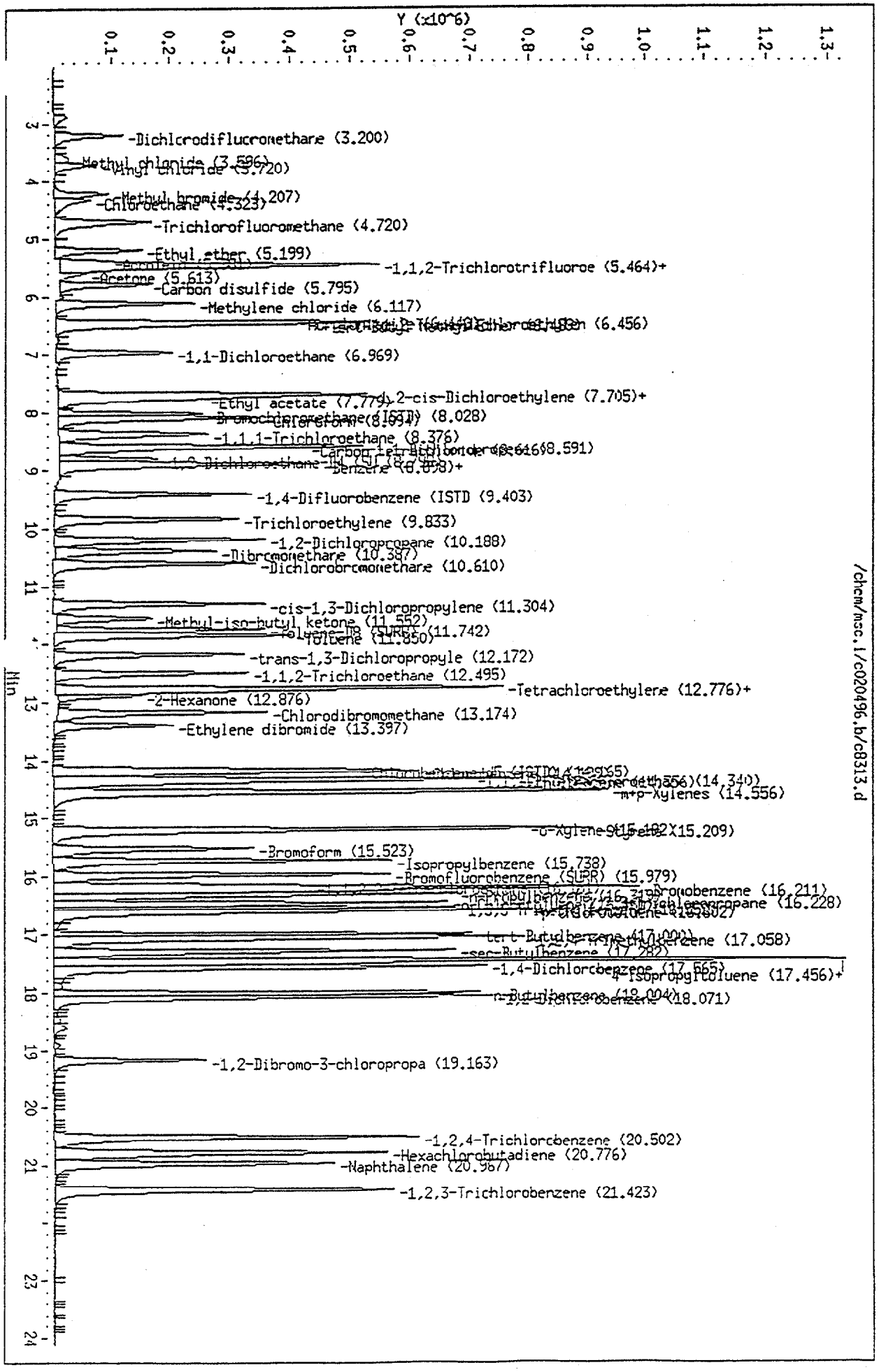
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	55	
74-83-9	Bromomethane	50	
75-01-4	Vinyl Chloride	57	
75-00-3	Chloroethane	51	
75-09-2	Methylene Chloride	52	
67-64-1	Acetone	65	
75-15-0	Carbon Disulfide	50	
75-35-4	1,1-Dichloroethene	51	
75-34-3	1,1-Dichloroethane	54	
540-59-0	1,2-Dichloroethene (total)	100	
67-66-3	Chloroform	54	
107-06-2	1,2-Dichloroethane	50	
78-93-3	2-Butanone	60	
71-55-6	1,1,1-Trichloroethane	59	
56-23-5	Carbon Tetrachloride	57	
75-27-4	Bromodichloromethane	59	
78-87-5	1,2-Dichloropropane	53	
10061-01-5	cis-1,3-Dichloropropene	55	
79-01-6	Trichloroethene	52	
124-48-1	Dibromochloromethane	59	
79-00-5	1,1,2-Trichloroethane	61	
71-43-2	Benzene	54	
10061-02-6	trans-1,3-Dichloropropene	57	
75-25-2	Bromoform	63	
108-10-1	Methyl-iso-butyl ketone	50	
591-78-6	2-Hexanone	51	
127-18-4	Tetrachloroethylene	47	
79-34-5	1,1,2,2-Tetrachloroethane	54	
108-88-3	Toluene	51	
108-90-7	Chlorobenzene	51	
100-41-4	Ethylbenzene	50	
100-42-5	Styrene	53	
1330-20-7	Xylene (total)	150	

Data File: /chem/msc.i/c020496.b/c8313.d
Date : 05-FEB-96 00:01
Client ID: n1v4940 mtx spk
Sample Info: n1v4940 mtx spk (7)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c020496.b/c8313.d
Report Date: 05-Feb-1996 09:35

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c020496.b/c8313.d
Lab Smp Id:
Client Smp ID: n1v4940 mtx spk
Inj Date : 05-FEB-96 00:01
Operator : jk
Inst ID: msc.i
Smp Info : n1v4940 mtx spk (7)
Misc Info : jp2882vs,n1v4940,m2,5000,1,5.0,5.0,960204,
Comment :
Method : /chem/msc.i/c020496.b/020396_ambic.m
Meth Date : 05-Feb-1996 09:20 glenn
Quant Type: ISTD
Cal Date : 04-FEB-96 15:19
Cal File: c8297.d
Als bottle: 7
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
1 Dichlorodifluoromethane	85.00	3.200	3.158	(0.399)	297472	49.3	49.3
2 Methyl chloride	50.00	3.604	3.504	(0.449)	148769	54.5	54.5
3 Vinyl chloride	62.00	3.720	3.661	(0.464)	154266	56.5	56.5
4 Methyl bromide	94.00	4.207	4.156	(0.525)	109922	49.8	49.8
5 Chloroethane	64.00	4.331	4.273	(0.540)	73327	51.3	51.3
6 Trichlorofluoromethane	101.00	4.720	4.645	(0.589)	400942	50.2	50.2
7 Ethyl ether	59.00	5.191	5.124	(0.647)	160920	55.8	55.8
8 Acrolein	56.00	5.381	5.305	(0.671)	120494	45.3	45.3
9 1,1,2-Trichlorotrifluoroethan	101.00	5.456	5.388	(0.680)	388758	50.9	50.9
10 1,1-Dichloroethylene	96.00	5.472	5.397	(0.682)	173665	50.8	50.8
11 Acetone	43.00	5.613	5.529	(0.700)	99322	64.5	64.5
12 Carbon disulfide	76.00	5.787	5.711	(0.722)	527312	49.9	49.9
13 Methylene chloride	84.00	6.117	6.025	(0.763)	197259	51.6	51.6
14 Acrylonitrile	53.00	6.440	6.330	(0.803)	59223	60.8	60.8
15 1,2-Trans-dichloroethylene	96.00	6.456	6.347	(0.805)	194268	52.6	52.6
16 Tert-Butyl Methyl Ether	73.00	6.489	6.372	(0.809)	528866	57.0	57.0
17 1,1-Dichloroethane	63.00	6.969	6.851	(0.869)	458105	54.3	54.3
18 1,2-cis-Dichloroethylene	96.00	7.696	7.579	(0.960)	190387	52.2	52.2
19 2,2-Dichloropropane	77.00	7.713	7.571	(0.962)	336679	47.0	47.0
20 Methyl ethyl ketone	72.00	7.713	7.612	(0.820)	20163	60.1	60.1(Q)
21 Ethyl acetate	43.00	7.779	7.662	(0.970)	619650	47.6	47.6
* 22 Bromochloromethane (ISTD)	128.00	8.019	7.902	(1.000)	133617	50.0	
23 Chloroform	83.00	8.102	7.968	(1.010)	469623	53.8	53.8
24 1,1,1-Trichloroethane	97.00	8.376	8.250	(0.891)	361902	58.9	58.9
25 1,1-Dichloropropene	75.00	8.583	8.458	(0.913)	293897	55.4	55.4
Carbon tetrachloride	117.00	8.616	8.474	(0.916)	278036	57.0	57.0
27 1,2-Dichloroethane-D4 (SURR)	65.00	8.798	8.673	(1.097)	287138	55.7	55.7
28 Benzene	78.00	8.890	8.764	(0.945)	409111	54.0	54.0
29 1,2-Dichloroethane	62.00	8.906	8.789	(1.111)	378782	49.7	49.7

Data File: /chem/msc.i/c020496.b/c8313.d
Report Date: 05-Feb-1996 09:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.403	9.285	(1.000)	467193	50.0	
	31 Trichloroethylene	130.00	9.833	9.698	(1.046)	219098	51.8	51.8
	32 1,2-Dichloropropane	63.00	10.188	10.054	(1.084)	254680	52.8	52.8
	33 Dibromomethane	93.00	10.387	10.244	(1.105)	254128	59.9	59.9
	34 Dichlorobromomethane	83.00	10.602	10.467	(1.128)	501247	58.6	58.6
	36 cis-1,3-Dichloropropylene	75.00	11.304	11.161	(1.202)	360618	54.5	54.5
	37 Methyl-iso-butyl ketone	43.00	11.552	11.409	(0.815)	335330	50.1	50.1
S	38 Toluene-D8 (SURR)	98.00	11.742	11.599	(0.829)	477587	47.5	47.5
	39 Toluene	91.00	11.850	11.707	(0.837)	535316	50.8	50.8
	40 trans-1,3-Dichloropropylene	75.00	12.172	12.037	(1.295)	340998	57.4	57.4
	41 1,1,2-Trichloroethane	97.00	12.495	12.368	(1.329)	213635	61.2	61.2
	42 Tetrachloroethylene	164.00	12.776	12.624	(0.902)	220435	46.5	46.5
	43 1,3-Dichloropropane	76.00	12.776	12.641	(0.902)	398163	51.0	51.0
	44 2-Hexanone	43.00	12.884	12.757	(0.910)	224902	51.0	51.0
	45 Chlorodibromomethane	129.00	13.174	13.046	(1.401)	380756	58.8	58.8 (M)
	46 Ethylene dibromide	107.00	13.397	13.261	(0.946)	330023	51.0	51.0
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.165	14.029	(1.000)	391948	50.0	
	48 Chlorobenzene	112.00	14.207	14.079	(1.003)	424925	50.6	50.6
	49 1,1,1,2-Tetrachloroethane	133.00	14.340	14.220	(1.012)	271088	50.5	50.5
	50 Ethylbenzene	106.00	14.356	14.253	(1.013)	195928	49.5	49.5
	1 m+p-Xylenes	106.00	14.564	14.444	(1.028)	493612	102	102
	52 o-Xylene	106.00	15.192	15.097	(1.072)	256354	52.6	52.6
	53 Styrene	104.00	15.217	15.122	(1.074)	397215	52.8	52.8
	54 Bromoform	173.00	15.523	15.427	(1.651)	362424	63.0	63.0
	55 Isopropylbenzene	105.00	15.738	15.643	(1.111)	744567	49.9	49.9
S	56 Bromofluorobenzene (SURR)	95.00	15.979	15.883	(1.128)	482466	48.4	48.4
	57 1,1,2,2-Tetrachloroethane	83.00	16.161	16.065	(1.141)	435980	53.7	53.7
	58 1,2,3-Trichloropropane	75.00	16.228	16.140	(1.146)	419226	53.8	53.8
	59 Bromobenzene	156.00	16.211	16.123	(1.144)	276925	50.7	50.7
	60 n-Propylbenzene	91.00	16.319	16.240	(1.152)	977651	51.6	51.6
	61 o-Chlorotoluene	91.00	16.461	16.373	(1.162)	796962	50.9	50.9
	62 1,3,5-Trimethylbenzene	105.00	16.552	16.472	(1.168)	676743	51.6	51.6
	63 p-Chlorotoluene	91.00	16.610	16.514	(1.173)	865921	50.8	50.8
	64 tert-Butylbenzene	119.00	16.991	16.911	(1.200)	717178	50.9	50.9
	65 1,2,4-Trimethylbenzene	105.00	17.058	16.970	(1.204)	691271	51.5	51.5
	66 sec-Butylbenzene	105.00	17.282	17.193	(1.220)	878891	49.5	49.5
	67 4-Isopropyltoluene	119.00	17.456	17.367	(1.232)	771533	48.3	48.3
	68 1,3-Dichlorobenzene	146.00	17.456	17.367	(1.232)	485359	53.3	53.3 (M)
	69 1,4-Dichlorobenzene	146.00	17.565	17.476	(1.240)	581053	51.3	51.3
	70 n-Butylbenzene	91.00	18.004	17.906	(1.271)	844653	48.5	48.5
	71 1,2-Dichlorobenzene	146.00	18.079	17.973	(1.276)	501516	51.7	51.7
	72 1,2-Dibromo-3-chloropropane	75.00	19.163	19.056	(1.353)	178451	56.0	56.0
	73 1,2,4-Trichlorobenzene	180.00	20.510	20.369	(1.448)	412340	45.3	45.3
	74 Hexachlorobutadiene	225.00	20.776	20.643	(1.467)	223375	39.5	39.5 (QM)
	75 Naphthalene	128.00	20.967	20.818	(1.480)	882457	57.1	57.1
	1,2,3-Trichlorobenzene	180.00	21.431	21.256	(1.513)	425208	47.8	47.8

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

0158 EPA SAMPLE NO.

CLJ78SS001MS

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2875VS

Sample wt/vol: 1.06 (g/mL) G Lab File ID: C8351

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. 17 Date Analyzed: 02/06/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

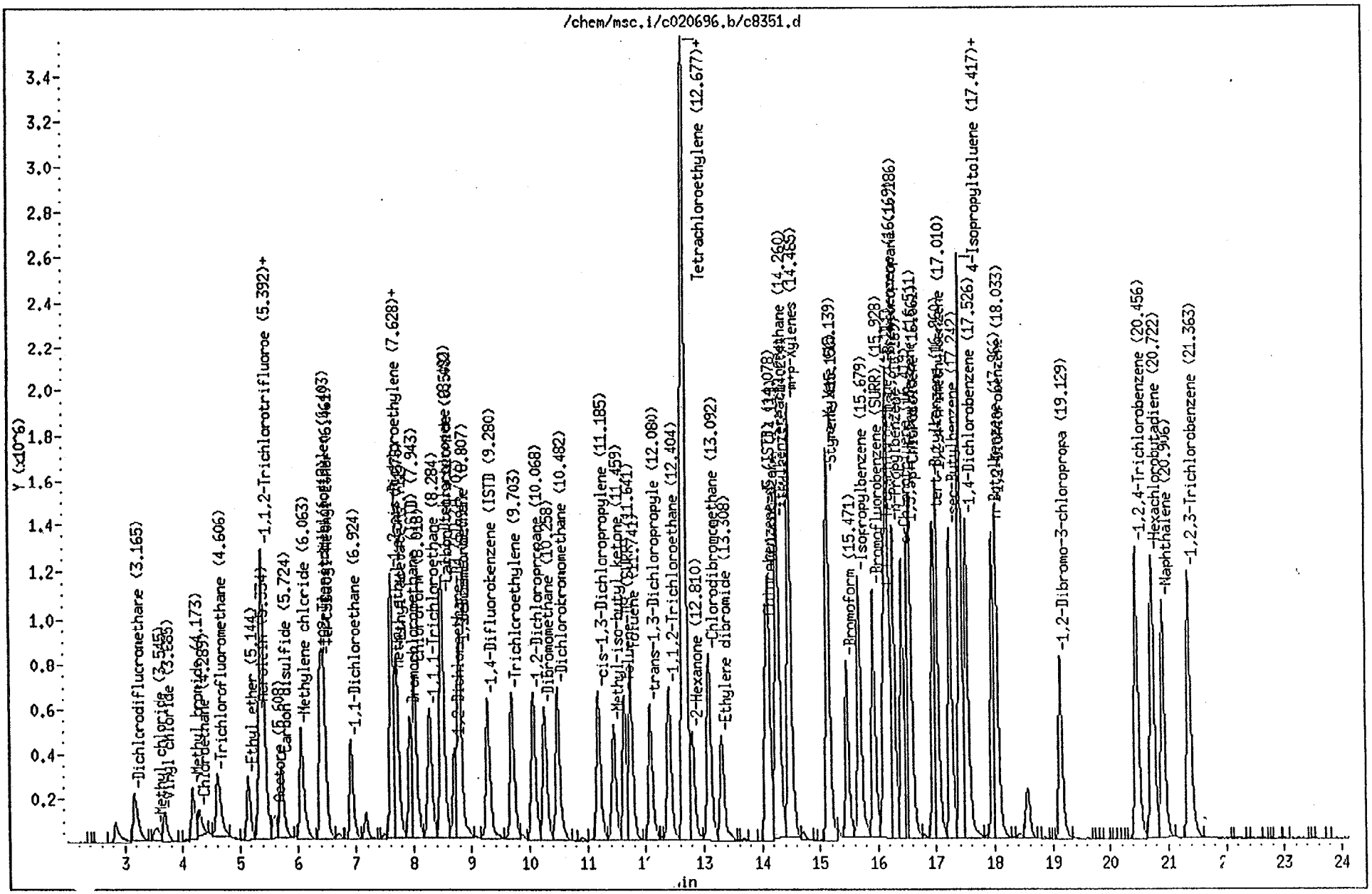
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	430	
74-83-9	Bromomethane	350	
75-01-4	Vinyl Chloride	410	
75-00-3	Chloroethane	330	
75-09-2	Methylene Chloride	360	B
67-64-1	Acetone	370	
75-15-0	Carbon Disulfide	340	
75-35-4	1,1-Dichloroethene	340	
75-34-3	1,1-Dichloroethane	320	
540-59-0	1,2-Dichloroethene (total)	620	
67-66-3	Chloroform	310	
107-06-2	1,2-Dichloroethane	340	
78-93-3	2-Butanone	310	
71-55-6	1,1,1-Trichloroethane	290	
56-23-5	Carbon Tetrachloride	280	
75-27-4	Bromodichloromethane	310	
78-87-5	1,2-Dichloropropane	310	
10061-01-5	cis-1,3-Dichloropropene	300	
79-01-6	Trichloroethene	280	
124-48-1	Dibromochloromethane	300	
79-00-5	1,1,2-Trichloroethane	300	
71-43-2	Benzene	270	
10061-02-6	trans-1,3-Dichloropropene	300	
75-25-2	Bromoform	300	
108-10-1	Methyl-iso-butyl ketone	320	B
591-78-6	2-Hexanone	310	
79-34-5	1,1,2,2-Tetrachloroethane	300	
108-88-3	Toluene	280	
108-90-7	Chlorobenzene	280	
100-41-4	Ethylbenzene	280	
100-42-5	Styrene	280	
1330-20-7	Xylene (total)	900	
156-60-5	1,2-Trans-dichloroethylene	320	

0159

Data File: /chem/msc.i/c020696.b/c8351.d
Date : 06-FEB-1996 11:32
Client ID: n2v4947 mtx spk
Sample Info: n2v4947 mtx spk (13)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c020696.b/c8351.d
Report Date: 21-Feb-1996 15:29

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c020696.b/c8351.d
Lab Smp Id: Client Smp ID: n2v4947 mtx spk
Inj Date : 06-FEB-96 11:32
Operator : jk Inst ID: msc.i
Smp Info : n2v4947 mtx spk (13)
Misc Info : jp2875vs,n2v4947,m2,5000,1,1.06,5.0,960206,
Comment :
Method : /chem/msc.i/c020696.b/020596_heatc.m
Meth Date : 06-Feb-1996 10:29 Quant Type: ISTD
Cal Date : 06-FEB-96 09:49 Cal File: c8348.d
Als bottle: 13
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
1 Dichlorodifluoromethane	85.00	3.165	3.157	(0.398)	674398	61.8	61.8
2 Methyl chloride	50.00	3.553	3.553	(0.447)	285375	74.7	74.7
3 Vinyl chloride	62.00	3.685	3.677	(0.464)	327215	72.3	72.3
4 Methyl bromide	94.00	4.173	4.173	(0.525)	352693	60.7	60.7
5 Chloroethane	64.00	4.289	4.281	(0.540)	195718	58.6	58.6
6 Trichlorofluoromethane	101.00	4.606	4.605	(0.580)	737145	57.8	57.8
7 Ethyl ether	59.00	5.144	5.143	(0.648)	328930	62.6	62.6
8 Acrolein	56.00	5.334	5.325	(0.672)	506131	62.8	62.8
9 1,1,2-Trichlorotrifluoroethan	101.00	5.384	5.375	(0.678)	928353	57.0	57.0
10 1,1-Dichloroethylene	96.00	5.401	5.400	(0.680)	430929	59.5	59.5
11 Acetone	43.00	5.608	5.599	(0.706)	366684	64.2	64.2
12 Carbon disulfide	76.00	5.724	5.715	(0.721)	1138134	60.0	60.0
13 Methylene chloride	84.00	6.072	6.071	(0.764)	515646	63.7	63.7
14 Acrylonitrile	53.00	6.419	6.410	(0.808)	186896	61.7	61.7
15 1,2-Trans-dichloroethylene	96.00	6.403	6.402	(0.806)	447893	56.2	56.2
16 Tert-Butyl Methyl Ether	73.00	6.461	6.460	(0.813)	1241743	56.0	56.0
17 1,1-Dichloroethane	63.00	6.924	6.915	(0.872)	991120	56.0	56.0
18 1,2-cis-Dichloroethylene	96.00	7.628	7.619	(0.960)	447409	52.8	52.8
19 2,2-Dichloropropane	77.00	7.637	7.619	(0.961)	833847	53.6	53.6
20 Methyl ethyl ketone	72.00	7.678	7.678	(0.827)	78391	54.6	54.6(Q)
21 Ethyl acetate	43.00	7.720	7.719	(0.972)	2364769	58.8	58.8
* 22 Bromochloromethane (ISTD)	128.00	7.943	7.935	(1.000)	327613	50.0	
23 Chloroform	83.00	8.027	8.009	(1.010)	1040115	53.7	53.7
24 1,1,1-Trichloroethane	97.00	8.292	8.275	(0.894)	875490	50.4	50.4
25 1,1-Dichloropropene	75.00	8.483	8.475	(0.914)	669308	50.5	50.5
26 Carbon tetrachloride	117.00	8.508	8.491	(0.917)	706783	49.4	49.4
27 1,2-Dichloroethane-D4 (SURR)	65.00	8.707	8.691	(1.096)	710780	52.5	52.5
28 Benzene	78.00	8.782	8.757	(0.946)	877167	48.0	48.0
29 1,2-Dichloroethane	62.00	8.807	8.790	(1.109)	865196	60.4	60.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 30	1,4-Difluorobenzene (ISTD)	114.00	9.280	9.263	(1.000)	999885	50.0	
31	Trichloroethylene	130.00	9.703	9.695	(1.046)	474811	48.7	48.7
32	1,2-Dichloropropane	63.00	10.059	10.059	(1.084)	525139	54.6	54.6
33	Dibromomethane	93.00	10.267	10.250	(1.106)	580302	53.0	53.0
34	Dichlorobromomethane	83.00	10.482	10.482	(1.130)	1073176	54.5	54.5
36	cis-1,3-Dichloropropylene	75.00	11.185	11.194	(1.205)	783562	53.0	53.0
37	Methyl-iso-butyl ketone	43.00	11.451	11.459	(0.813)	1061700	56.3	56.3
$ 38	Toluene-D8 (SURR)	98.00	11.633	11.649	(0.826)	978642	49.2	49.2
39	Toluene	91.00	11.741	11.757	(0.834)	1116121	49.7	49.7
40	trans-1,3-Dichloropropylene	75.00	12.080	12.097	(1.302)	723270	53.1	53.1
41	1,1,2-Trichloroethane	97.00	12.412	12.428	(1.337)	475462	52.2	52.2
42	Tetrachloroethylene	164.00	12.669	12.685	(0.900)	1696338	174	174
43	1,3-Dichloropropane	76.00	12.686	12.702	(0.901)	847419	51.6	51.6
44	2-Hexanone	43.00	12.810	12.818	(0.910)	795240	53.6	53.6
45	Chlorodibromomethane	129.00	13.092	13.108	(1.411)	895915	52.2	52.2 (M)
46	Ethylene dibromide	107.00	13.308	13.324	(0.945)	813363	51.6	51.6
* 47	Chlorobenzene-d5 (ISTD)	117.00	14.078	14.093	(1.000)	861452	50.0	
48	Chlorobenzene	112.00	14.127	14.151	(1.004)	886632	49.1	49.1
49	1,1,1,2-Tetrachloroethane	133.00	14.260	14.284	(1.013)	574743	50.3	50.3
50	Ethylbenzene	106.00	14.294	14.309	(1.015)	418014	50.0	50.0
	m+p-Xylenes	106.00	14.477	14.500	(1.028)	1080840	107	107
52	o-Xylene	106.00	15.131	15.146	(1.075)	509073	51.7	51.7
53	Styrene	104.00	15.156	15.171	(1.077)	813203	48.9	48.9
54	Bromoform	173.00	15.471	15.495	(1.667)	856052	51.8	51.8
55	Isopropylbenzene	105.00	15.679	15.694	(1.114)	1635091	51.2	51.2
$ 56	Bromofluorobenzene (SURR)	95.00	15.920	15.935	(1.131)	895485	51.0	51.0 (QM)
57	1,1,2,2-Tetrachloroethane	83.00	16.111	16.126	(1.144)	1138703	52.2	52.2
58	1,2,3-Trichloropropane	75.00	16.186	16.193	(1.150)	1058161	52.8	52.8
59	Bromobenzene	156.00	16.161	16.176	(1.148)	573640	50.2	50.2
60	n-Propylbenzene	91.00	16.278	16.293	(1.156)	2003721	50.3	50.3
61	o-Chlorotoluene	91.00	16.411	16.434	(1.166)	1591132	51.5	51.5
62	1,3,5-Trimethylbenzene	105.00	16.511	16.518	(1.173)	1427854	52.5	52.5
63	p-Chlorotoluene	91.00	16.561	16.576	(1.176)	1694755	49.9	49.9
64	tert-Butylbenzene	119.00	16.960	16.975	(1.205)	1479188	52.3	52.3
65	1,2,4-Trimethylbenzene	105.00	17.018	17.033	(1.209)	1440247	50.8	50.8
66	sec-Butylbenzene	105.00	17.242	17.257	(1.225)	1926064	50.6	50.6
67	4-Isopropyltoluene	119.00	17.417	17.432	(1.237)	1627326	50.0	50.0
68	1,3-Dichlorobenzene	146.00	17.417	17.424	(1.237)	905854	49.6	49.6
69	1,4-Dichlorobenzene	146.00	17.526	17.541	(1.245)	1120707	50.6	50.6
70	n-Butylbenzene	91.00	17.966	17.973	(1.276)	1714368	48.8	48.8
71	1,2-Dichlorobenzene	146.00	18.033	18.048	(1.281)	1075644	55.8	55.8
72	1,2-Dibromo-3-chloropropane	75.00	19.129	19.144	(1.359)	563171	51.8	51.8
73	1,2,4-Trichlorobenzene	180.00	20.456	20.470	(1.453)	925139	45.7	45.7
74	Hexachlorobutadiene	225.00	20.722	20.746	(1.472)	534364	47.7	47.7
75	Naphthalene	128.00	20.906	20.929	(1.485)	2004708	46.4	46.4
76	1,2,3-Trichlorobenzene	180.00	21.363	21.395	(1.518)	924254	45.8	45.8

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET **0162**

EPA SAMPLE NO.

CLJ78SS003MSD

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2877VR

Sample wt/vol: ~~2.66~~ 5.32 (g/mL) G Lab File ID: C8302

Level: (low/med) ~~LOW~~ MED Date Received: 02/02/96

% Moisture: not dec. 16 Date Analyzed: 02/04/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0

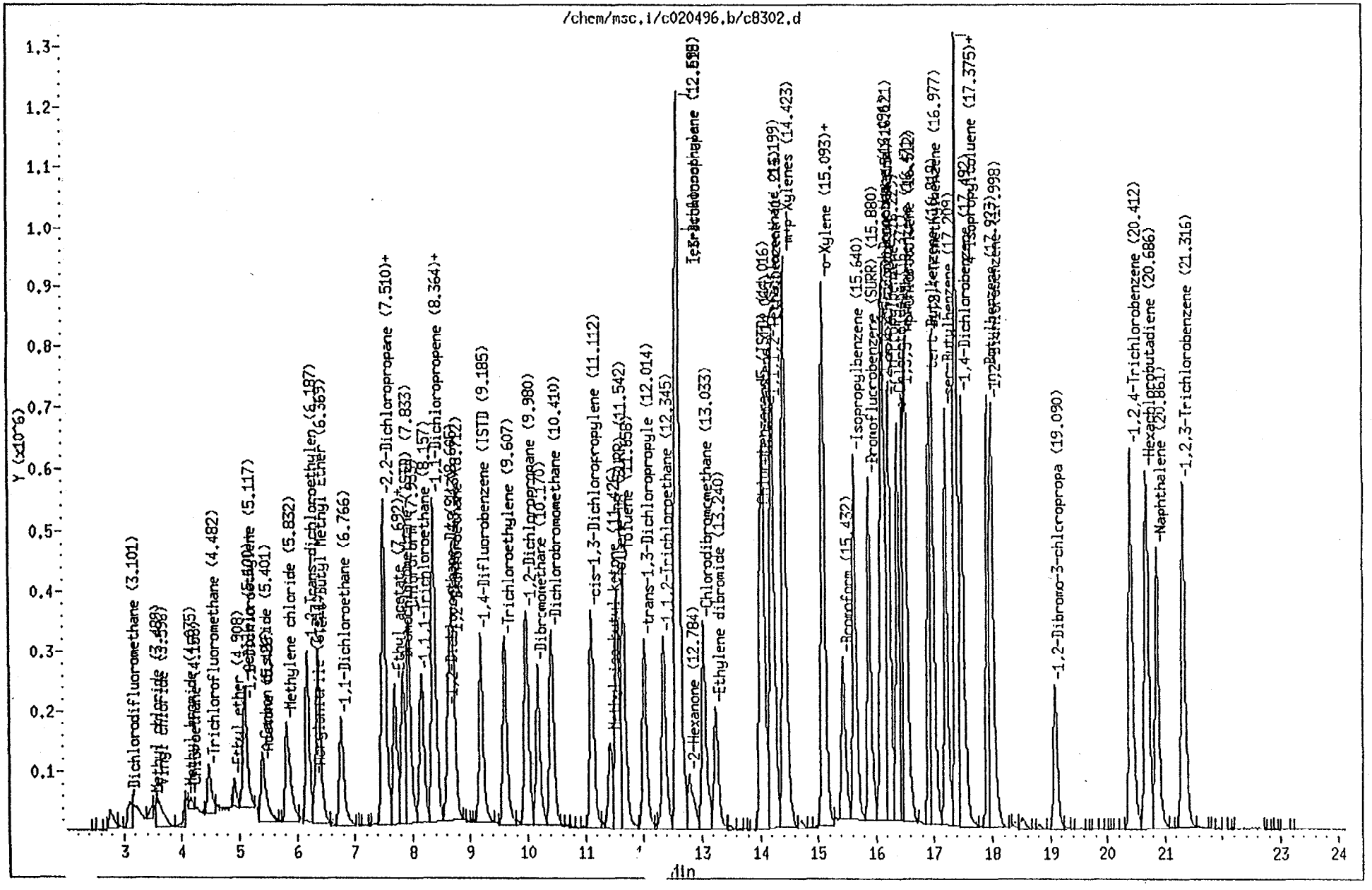
Soil Extract Volume: ~~5000~~ 10000 (uL) Soil Aliquot Volume: ~~5000~~ 200 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethylene	6500	

0163

Data File: /chem/msc.i/c020496.b/c8302.d
Date : 04-FEB-96 18:09
Client ID: n2v4939 mtx dup
Sample Info: n2v4939 mtx spk dup (12)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c020496.b/c8302.d
Report Date: 05-Feb-1996 07:47

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c020496.b/c8302.d
Lab Smp Id: Client Smp ID: n2v4939 mtx dup
Inj Date : 04-FEB-96 18:09
Operator : jk Inst ID: msc.i
Smp Info : n2v4939 mtx spk dup (12)
Misc Info : jp2877vr,n2v4939,m2,5000,25,2.66,5.0,960203,
Comment :
Method : /chem/msc.i/c020496.b/020396_ambic.m
Meth Date : 05-Feb-1996 07:34 glenn Quant Type: ISTD
Cal Date : 04-FEB-96 15:19 Cal File: c8297.d
Als bottle: 12
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
1	Dichlorodifluoromethane	85.00	3.101	3.158	(0.396)	349402	48.2	48.2(M)
2	Methyl chloride	50.00	3.497	3.504	(0.446)	173206	52.8	52.8
3	Vinyl chloride	62.00	3.596	3.661	(0.459)	191938	58.4	58.4(M)
4	Methyl bromide	94.00	4.075	4.156	(0.520)	97351	36.7	36.7(QM)
5	Chloroethane	64.00	4.166	4.273	(0.532)	62306	36.2	36.2(M)
6	Trichlorofluoromethane	101.00	4.482	4.645	(0.572)	165881	17.3	17.3
7	Ethyl ether	59.00	4.916	5.124	(0.628)	56783	16.4	16.4
8	Acrolein	56.00	5.092	5.305	(0.650)	52811	16.5	16.5
9	1,1,2-Trichlorotrifluoroethan	101.00	5.092	5.388	(0.650)	120005	13.1	13.1
10	1,1-Dichloroethylene	96.00	5.117	5.397	(0.653)	58860	14.3	14.3
11	Acetone	43.00	5.426	5.529	(0.693)	55443	29.9	29.9(M)
12	Carbon disulfide	76.00	5.401	5.711	(0.689)	374219	29.5	29.5
13	Methylene chloride	84.00	5.832	6.025	(0.744)	200346	43.6	43.6
14	Acrylonitrile	53.00	6.311	6.330	(0.806)	68264	58.3	58.3(QM)
15	1,2-Trans-dichloroethylene	96.00	6.187	6.347	(0.790)	219739	49.5	49.5
16	Tert-Butyl Methyl Ether	73.00	6.377	6.372	(0.814)	558392	50.1	50.1
17	1,1-Dichloroethane	63.00	6.766	6.851	(0.864)	479900	47.3	47.3
18	1,2-cis-Dichloroethylene	96.00	7.510	7.579	(0.959)	246072	56.2	56.2(QM)
19	2,2-Dichloropropane	77.00	7.502	7.571	(0.958)	360818	41.9	41.9
20	Methyl ethyl ketone	72.00	7.692	7.612	(0.838)	20884	59.9	59.9(QM)
21	Ethyl acetate	43.00	7.692	7.662	(0.982)	796275	50.9	50.9(Q)
* 22	Bromochloromethane (ISTD)	128.00	7.833	7.902	(1.000)	160579	50.0	
23	Chloroform	83.00	7.933	7.968	(1.013)	479368	45.7	45.7
24	1,1,1-Trichloroethane	97.00	8.157	8.250	(0.888)	368086	57.7	57.7
25	1,1-Dichloropropene	75.00	8.356	8.458	(0.910)	326727	59.2	59.2
26	Carbon tetrachloride	117.00	8.373	8.474	(0.912)	281462	55.5	55.5
27	1,2-Dichloroethane-D4 (SURR)	65.00	8.605	8.673	(1.098)	296406	47.8	47.8
28	Benzene	78.00	8.663	8.764	(0.943)	453624	57.5	57.5
29	1,2-Dichloroethane	62.00	8.712	8.789	(1.112)	363833	39.7	39.7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.185	9.285	(1.000)	485730	50.0	
	31 Trichloroethylene	130.00	9.607	9.698	(1.046)	245173	55.7	55.7
	32 1,2-Dichloropropane	63.00	9.980	10.054	(1.087)	297816	59.4	59.4
	33 Dibromomethane	93.00	10.178	10.244	(1.108)	280583	63.6	63.6
	34 Dichlorobromomethane	83.00	10.402	10.467	(1.133)	528132	59.4	59.4
	36 cis-1,3-Dichloropropylene	75.00	11.112	11.161	(1.210)	427546	62.1	62.1
	37 Methyl-iso-butyl ketone	43.00	11.426	11.409	(0.815)	346752	44.2	44.2
$	38 Toluene-D8 (SURR)	98.00	11.542	11.599	(0.824)	558890	47.4	47.4
	39 Toluene	91.00	11.650	11.707	(0.831)	644273	52.2	52.2
	40 trans-1,3-Dichloropropylene	75.00	12.022	12.037	(1.309)	374085	60.6	60.6
	41 1,1,2-Trichloroethane	97.00	12.353	12.368	(1.345)	230278	63.5	63.5
	42 Tetrachloroethylene	164.00	12.585	12.624	(0.898)	647091	116	116 (QM)
	43 1,3-Dichloropropane	76.00	12.618	12.641	(0.900)	415239	45.4	45.4
	44 2-Hexanone	43.00	12.784	12.757	(0.912)	245222	47.5	47.5
	45 Chlorodibromomethane	129.00	13.033	13.046	(1.419)	409139	60.7	60.7 (M)
	46 Ethylene dibromide	107.00	13.248	13.261	(0.945)	364012	48.0	48.0
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.016	14.029	(1.000)	459161	50.0	
	48 Chlorobenzene	112.00	14.066	14.079	(1.004)	475666	48.3	48.3
	49 1,1,1,2-Tetrachloroethane	133.00	14.199	14.220	(1.013)	284444	45.2	45.2
	50 Ethylbenzene	106.00	14.224	14.253	(1.015)	226093	48.8	48.8
	51 m+p-Xylenes	106.00	14.431	14.444	(1.030)	547678	96.4	96.4
	52 o-Xylene	106.00	15.093	15.097	(1.077)	270135	47.4	47.4
	53 Styrene	104.00	15.101	15.122	(1.077)	430175	48.8	48.8
	54 Bromoform	173.00	15.432	15.427	(1.680)	360930	60.3	60.3
	55 Isopropylbenzene	105.00	15.640	15.643	(1.116)	806173	46.1	46.1
$	56 Bromofluorobenzene (SURR)	95.00	15.880	15.883	(1.133)	548409	46.9	46.9
	57 1,1,2,2-Tetrachloroethane	83.00	16.096	16.065	(1.148)	444867	46.8	46.8
	58 1,2,3-Trichloropropane	75.00	16.154	16.140	(1.153)	412617	45.2	45.2
	59 Bromobenzene	156.00	16.121	16.123	(1.150)	301994	47.2	47.2
	60 n-Propylbenzene	91.00	16.229	16.240	(1.158)	1030570	46.4	46.4
	61 o-Chlorotoluene	91.00	16.371	16.373	(1.168)	856928	46.7	46.7
	62 1,3,5-Trimethylbenzene	105.00	16.471	16.472	(1.175)	699109	45.5	45.5
	63 p-Chlorotoluene	91.00	16.521	16.514	(1.179)	901207	45.2	45.2
	64 tert-Butylbenzene	119.00	16.919	16.911	(1.207)	765910	46.4	46.4
	65 1,2,4-Trimethylbenzene	105.00	16.977	16.970	(1.211)	726346	46.2	46.2
	66 sec-Butylbenzene	105.00	17.209	17.193	(1.228)	972594	46.7	46.7
	67 4-Isopropyltoluene	119.00	17.384	17.367	(1.240)	848672	45.4	45.4
	68 1,3-Dichlorobenzene	146.00	17.384	17.367	(1.240)	493988	46.3	46.3
	69 1,4-Dichlorobenzene	146.00	17.492	17.476	(1.248)	598449	45.1	45.1
	70 n-Butylbenzene	91.00	17.923	17.906	(1.279)	905068	44.4	44.4
	71 1,2-Dichlorobenzene	146.00	18.006	17.973	(1.285)	521857	45.9	45.9
	72 1,2-Dibromo-3-chloropropane	75.00	19.090	19.056	(1.362)	169387	45.4	45.4
	73 1,2,4-Trichlorobenzene	180.00	20.412	20.369	(1.456)	456043	42.8	42.8
	74 Hexachlorobutadiene	225.00	20.686	20.643	(1.476)	270793	40.9	40.9
	75 Naphthalene	128.00	20.861	20.818	(1.488)	888342	49.0	49.0
	76 1,2,3-Trichlorobenzene	180.00	21.325	21.256	(1.521)	450696	43.3	43.3

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. **0166**

CLJ-FBMSD

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS01

Matrix: (soil/water) WATER Lab Sample ID: JP2882VR

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C8314

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. N/A Date Analyzed: 02/05/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

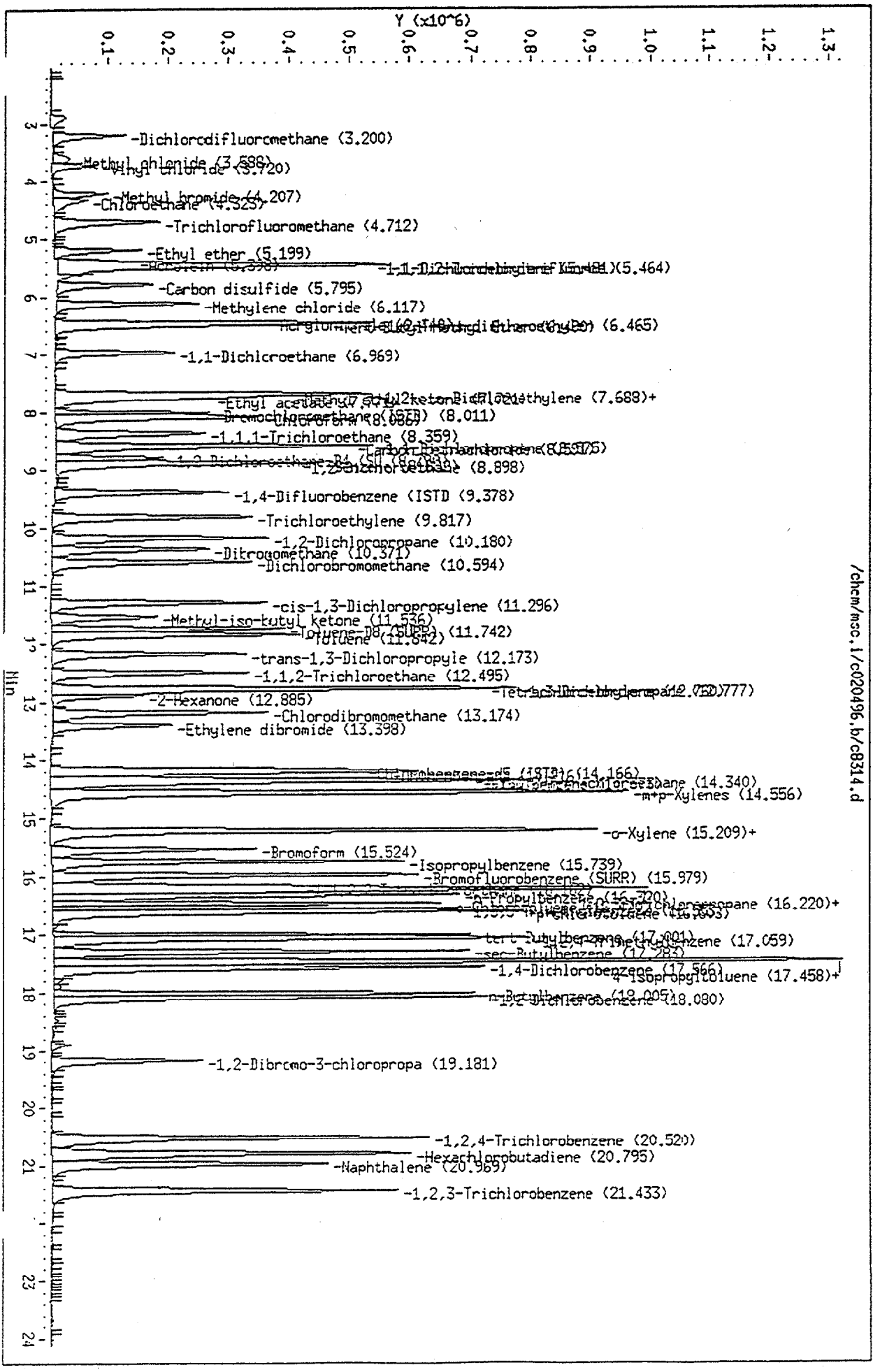
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	51	
74-83-9	Bromomethane	47	
75-01-4	Vinyl Chloride	56	
75-00-3	Chloroethane	47	
75-09-2	Methylene Chloride	48	
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	47	
75-35-4	1,1-Dichloroethene	47	
75-34-3	1,1-Dichloroethane	50	
540-59-0	1,2-Dichloroethene (total)	100	
67-66-3	Chloroform	49	
107-06-2	1,2-Dichloroethane	45	
78-93-3	2-Butanone	68	
71-55-6	1,1,1-Trichloroethane	65	
56-23-5	Carbon Tetrachloride	62	
75-27-4	Bromodichloromethane	64	
78-87-5	1,2-Dichloropropane	62	
10061-01-5	cis-1,3-Dichloropropene	62	
79-01-6	Trichloroethene	59	
124-48-1	Dibromochloromethane	67	
79-00-5	1,1,2-Trichloroethane	66	
71-43-2	Benzene	60	
10061-02-6	trans-1,3-Dichloropropene	63	
75-25-2	Bromoform	68	
108-10-1	Methyl-iso-butyl ketone	49	
591-78-6	2-Hexanone	50	
127-18-4	Tetrachloroethylene	44	
79-34-5	1,1,2,2-Tetrachloroethane	50	
108-88-3	Toluene	49	
108-90-7	Chlorobenzene	49	
100-41-4	Ethylbenzene	49	
100-42-5	Styrene	49	
1330-20-7	Xylene (total)	150	

Data File: /chem/msc.i/c020496.b/c8314.d
Date : 05-FEB-96 00:33
Client ID: n1v4940 mtx dup
Sample Info: n1v4940 mtx spk dup (8)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53



OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c020496.b/c8314.d
Lab Smp Id: Client Smp ID: n1v4940 mtx dup
Inj Date : 05-FEB-96 00:33
Operator : jk Inst ID: msc.i
Smp Info : n1v4940 mtx spk dup (8)
Misc Info : jp2882vr,n1v4940,m2,5000,1,5.0,5.0,960204,
Comment :
Method : /chem/msc.i/c020496.b/020396_ambic.m
Meth Date : 05-Feb-1996 09:20 glenn Quant Type: ISTD
Cal Date : 04-FEB-96 15:19 Cal File: c8297.d
Als bottle: 8
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
1	Dichlorodifluoromethane	85.00	3.200	3.158	(0.399)	309889	47.4	47.4
2	Methyl chloride	50.00	3.596	3.504	(0.449)	150637	50.9	50.9
3	Vinyl chloride	62.00	3.720	3.661	(0.464)	165576	55.9	55.9
4	Methyl bromide	94.00	4.207	4.156	(0.525)	113097	47.2	47.2
5	Chloroethane	64.00	4.323	4.273	(0.540)	73043	47.1	47.1
6	Trichlorofluoromethane	101.00	4.712	4.645	(0.588)	421906	48.7	48.7
7	Ethyl ether	59.00	5.191	5.124	(0.648)	164535	52.6	52.6
8	Acrolein	56.00	5.398	5.305	(0.674)	160909	55.8	55.8
9	1,1,2-Trichlorotrifluoroethan	101.00	5.456	5.388	(0.681)	407033	49.2	49.2
10	1,1-Dichloroethylene	96.00	5.481	5.397	(0.684)	174607	47.1	47.1
12	Carbon disulfide	76.00	5.795	5.711	(0.723)	537018	46.9	46.9
13	Methylene chloride	84.00	6.126	6.025	(0.765)	199664	48.2	48.2
14	Acrylonitrile	53.00	6.440	6.330	(0.804)	63304	60.0	60.0
15	1,2-Trans-dichloroethylene	96.00	6.456	6.347	(0.806)	203168	50.7	50.7
16	Tert-Butyl Methyl Ether	73.00	6.490	6.372	(0.810)	529308	52.7	52.7
17	1,1-Dichloroethane	63.00	6.961	6.851	(0.869)	460014	50.3	50.3
18	1,2-cis-Dichloroethylene	96.00	7.688	7.579	(0.960)	194148	49.1	49.1
19	2,2-Dichloropropane	77.00	7.688	7.571	(0.960)	335174	43.1	43.1
20	Methyl ethyl ketone	72.00	7.721	7.612	(0.823)	21308	67.9	67.9(Q)
21	Ethyl acetate	43.00	7.771	7.662	(0.970)	669639	47.5	47.5
* 22	Bromochloromethane (ISTD)	128.00	8.011	7.902	(1.000)	144842	50.0	
23	Chloroform	83.00	8.086	7.968	(1.009)	467096	49.4	49.4
24	1,1,1-Trichloroethane	97.00	8.368	8.250	(0.891)	370560	64.5	64.5
25	1,1-Dichloropropene	75.00	8.583	8.458	(0.914)	310517	62.5	62.5
26	Carbon tetrachloride	117.00	8.591	8.474	(0.915)	282636	61.9	61.9
27	1,2-Dichloroethane-D4 (SURR)	65.00	8.790	8.673	(1.097)	308680	55.2	55.2
28	Benzene	78.00	8.873	8.764	(0.945)	428639	60.4	60.4
29	1,2-Dichloroethane	62.00	8.898	8.789	(1.111)	373644	45.2	45.2
* 30	1,4-Difluorobenzene (ISTD)	114.00	9.387	9.285	(1.000)	437185	50.0	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	31 Trichloroethylene	130.00	9.817	9.698	(1.046)	234506	59.2	59.2
	32 1,2-Dichloropropane	63.00	10.180	10.054	(1.085)	281753	62.4	62.4
	33 Dibromomethane	93.00	10.371	10.244	(1.105)	258275	65.1	65.1
	34 Dichlorobromomethane	83.00	10.594	10.467	(1.129)	510902	63.9	63.9
	36 cis-1,3-Dichloropropylene	75.00	11.296	11.161	(1.203)	381424	61.6	61.6
	37 Methyl-iso-butyl ketone	43.00	11.536	11.409	(0.814)	359899	49.2	49.2
$	38 Toluene-D8 (SURR)	98.00	11.742	11.599	(0.829)	543245	49.4	49.4
	39 Toluene	91.00	11.850	11.707	(0.837)	566688	49.2	49.2
	40 trans-1,3-Dichloropropylene	75.00	12.181	12.037	(1.298)	350601	63.1	63.1
	41 1,1,2-Trichloroethane	97.00	12.504	12.368	(1.332)	215439	66.0	66.0
	42 Tetrachloroethylene	164.00	12.760	12.624	(0.901)	230377	44.4	44.4
	43 1,3-Dichloropropane	76.00	12.777	12.641	(0.902)	410837	48.1	48.1
	44 2-Hexanone	43.00	12.885	12.757	(0.910)	240946	50.0	50.0
	45 Chlorodibromomethane	129.00	13.174	13.046	(1.404)	408874	67.4	67.4 (M)
	46 Ethylene dibromide	107.00	13.398	13.261	(0.946)	344753	48.7	48.7
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.166	14.029	(1.000)	428699	50.0	
	48 Chlorobenzene	112.00	14.216	14.079	(1.004)	446372	48.6	48.6
	49 1,1,1,2-Tetrachloroethane	133.00	14.340	14.220	(1.012)	284613	48.5	48.5
	50 Ethylbenzene	106.00	14.373	14.253	(1.015)	212370	49.1	49.1
	51 m+p-Xylenes	106.00	14.556	14.444	(1.028)	521599	98.3	98.3
	2 o-Xylene	106.00	15.201	15.097	(1.073)	254823	47.8	47.8
	53 Styrene	104.00	15.218	15.122	(1.074)	400821	48.7	48.7
	54 Bromoform	173.00	15.532	15.427	(1.655)	365847	67.9	67.9
	55 Isopropylbenzene	105.00	15.739	15.643	(1.111)	772921	47.3	47.3
$	56 Bromofluorobenzene (SURR)	95.00	15.988	15.883	(1.129)	532126	48.8	48.8
	57 1,1,2,2-Tetrachloroethane	83.00	16.162	16.065	(1.141)	446191	50.2	50.2
	58 1,2,3-Trichloropropane	75.00	16.229	16.140	(1.146)	436468	51.2	51.2
	59 Bromobenzene	156.00	16.212	16.123	(1.144)	283519	47.5	47.5
	60 n-Propylbenzene	91.00	16.320	16.240	(1.152)	982064	47.4	47.4
	61 o-Chlorotoluene	91.00	16.470	16.373	(1.163)	803246	46.9	46.9
	62 1,3,5-Trimethylbenzene	105.00	16.561	16.472	(1.169)	669694	46.7	46.7
	63 p-Chlorotoluene	91.00	16.611	16.514	(1.173)	829763	44.5	44.5
	64 tert-Butylbenzene	119.00	17.009	16.911	(1.201)	718674	46.6	46.6
	65 1,2,4-Trimethylbenzene	105.00	17.059	16.970	(1.204)	713887	48.7	48.7
	66 sec-Butylbenzene	105.00	17.283	17.193	(1.220)	911903	46.9	46.9
	67 4-Isopropyltoluene	119.00	17.466	17.367	(1.233)	816360	46.7	46.7
	68 1,3-Dichlorobenzene	146.00	17.458	17.367	(1.232)	469551	47.1	47.1 (H)
	69 1,4-Dichlorobenzene	146.00	17.566	17.476	(1.240)	561802	45.3	45.3
	70 n-Butylbenzene	91.00	18.005	17.905	(1.271)	850104	44.6	44.6
	71 1,2-Dichlorobenzene	146.00	18.080	17.973	(1.275)	480048	45.3	45.3
	72 1,2-Dibromo-3-chloropropane	75.00	19.181	19.056	(1.354)	180600	51.8	51.8
	73 1,2,4-Trichlorobenzene	180.00	20.520	20.369	(1.449)	436726	43.9	43.9
	74 Hexachlorobutadiene	225.00	20.803	20.643	(1.469)	273866	44.3	44.3
	75 Naphthalene	128.00	20.978	20.818	(1.481)	887955	52.5	52.5
	76 1,2,3-Trichlorobenzene	180.00	21.442	21.256	(1.514)	435706	44.8	44.8

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0170

CLJ78SS001MSD

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: JP2875VR

Sample wt/vol: 1.24 (g/mL) G Lab File ID: C8352

Level: (low/med) LOW Date Received: 02/02/96

% Moisture: not dec. 17 Date Analyzed: 02/06/96

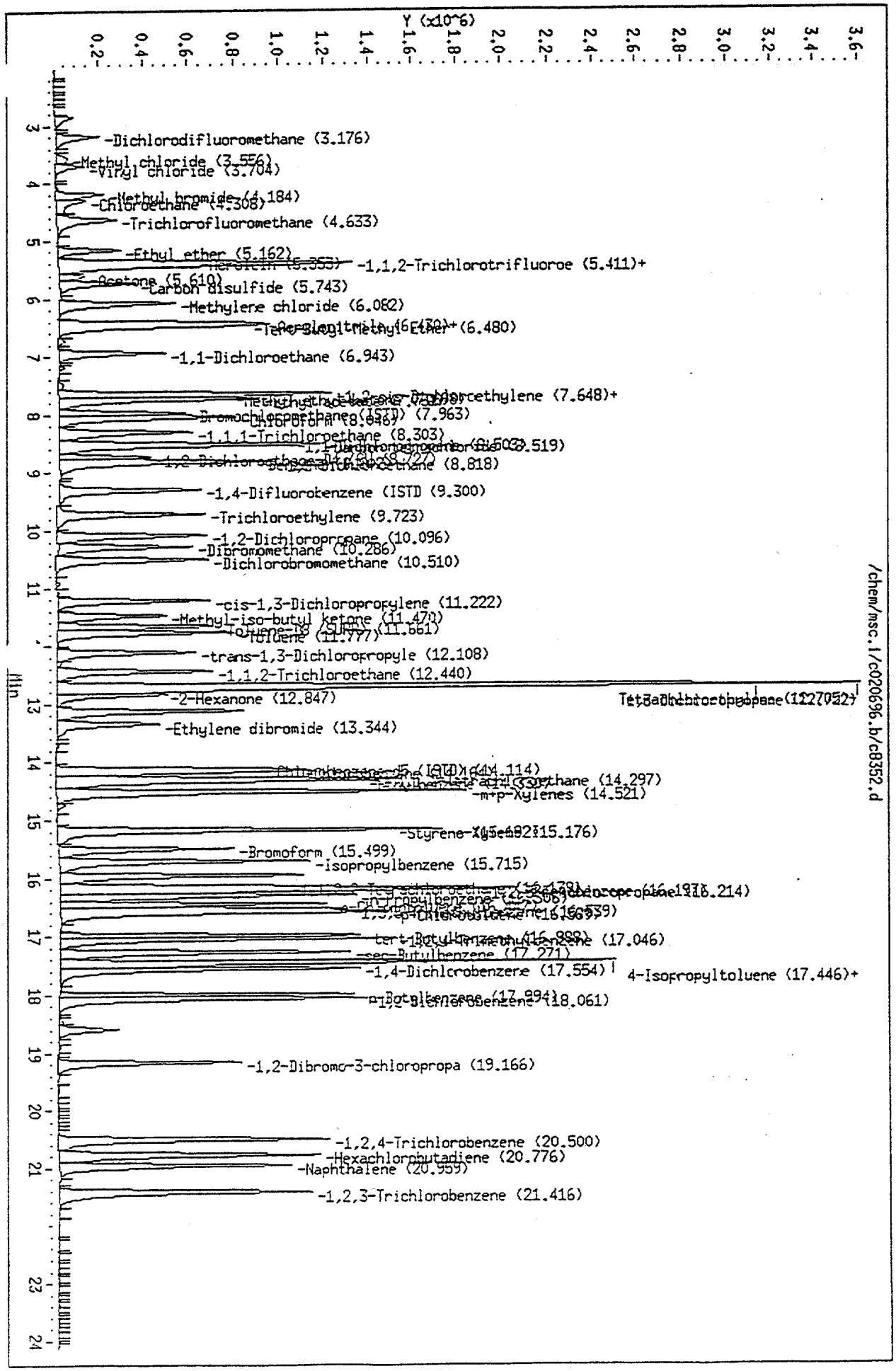
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	350	
74-83-9	Bromomethane	260	
75-01-4	Vinyl Chloride	330	
75-00-3	Chloroethane	260	
75-09-2	Methylene Chloride	310	B
67-64-1	Acetone	310	
75-15-0	Carbon Disulfide	300	
75-35-4	1,1-Dichloroethene	280	
75-34-3	1,1-Dichloroethane	270	
540-59-0	1,2-Dichloroethene (total)	550	
67-66-3	Chloroform	260	
107-06-2	1,2-Dichloroethane	280	
78-93-3	2-Butanone	300	
71-55-6	1,1,1-Trichloroethane	250	
56-23-5	Carbon Tetrachloride	250	
75-27-4	Bromodichloromethane	260	
78-87-5	1,2-Dichloropropane	270	
10061-01-5	cis-1,3-Dichloropropene	250	
79-01-6	Trichloroethene	240	
124-48-1	Dibromochloromethane	380	
79-00-5	1,1,2-Trichloroethane	250	
71-43-2	Benzene	250	
10061-02-6	trans-1,3-Dichloropropene	260	
75-25-2	Bromoform	240	
108-10-1	Methyl-iso-butyl ketone	280	B
591-78-6	2-Hexanone	270	
79-34-5	1,1,2,2-Tetrachloroethane	260	
108-88-3	Toluene	250	
108-90-7	Chlorobenzene	250	
100-41-4	Ethylbenzene	250	
100-42-5	Styrene	250	
1330-20-7	Xylene (total)	760	
156-60-5	1,2-Trans-dichloroethylene	280	

Data File: /chem/msc.i/c020696.b/c8352.d
Date : 06-FEB-96 12:05
Client ID: n2v4947 mtx dup
Sample Info: n2v4947 mtx spk dup (14)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c020696.b/c8352.d
Report Date: 06-Feb-1996 12:55

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c020696.b/c8352.d
Lab Smp Id: Client Smp ID: n2v4947 mtx dup
Inj Date : 06-FEB-96 12:05
Operator : jk Inst ID: msc.i
Smp Info : n2v4947 mtx spk dup (14)
Misc Info : jp2875vr,n2v4947,m2,5000,1,1.24,5.0,960206,
Comment :
Method : /chem/msc.i/c020696.b/020596_heatc.m
Meth Date : 06-Feb-1996 10:29 Quant Type: ISTD
Cal Date : 06-FEB-96 09:49 Cal File: c8348.d
Als bottle: 14
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MC 2/6/96

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
1 Dichlorodifluoromethane	85.00	3.176	3.157	(0.398)	615427	53.4	53.4
2 Methyl chloride	50.00	3.556	3.553	(0.446)	286634	71.0	71.0
3 Vinyl chloride	62.00	3.704	3.677	(0.465)	325768	68.1	68.1
4 Methyl bromide	94.00	4.192	4.173	(0.525)	330707	53.9	53.9
5 Chloroethane	64.00	4.308	4.281	(0.540)	189258	53.7	53.7
6 Trichlorofluoromethane	101.00	4.633	4.605	(0.581)	697153	51.7	51.7
7 Ethyl ether	59.00	5.162	5.143	(0.648)	349162	62.9	62.9
8 Acrolein	56.00	5.353	5.325	(0.672)	585832	68.8	68.8
9 1,1,2-Trichlorotrifluoroethan	101.00	5.403	5.375	(0.678)	974262	56.6	56.6
10 1,1-Dichloroethylene	96.00	5.419	5.400	(0.680)	443185	57.9	57.9
11 Acetone	43.00	5.619	5.599	(0.705)	385451	63.9	63.9
12 Carbon disulfide	76.00	5.743	5.715	(0.720)	1220057	60.9	60.9
13 Methylene chloride	84.00	6.090	6.071	(0.764)	552804	64.6	64.6
14 Acrylonitrile	53.00	6.430	6.410	(0.807)	209590	65.5	65.5
15 1,2-Trans-dichloroethylene	96.00	6.422	6.402	(0.806)	492025	58.4	58.4
16 Tert-Butyl Methyl Ether	73.00	6.480	6.460	(0.813)	1338970	57.2	57.2
17 1,1-Dichloroethane	63.00	6.943	6.915	(0.871)	1047714	56.0	56.0
18 1,2-cis-Dichloroethylene	96.00	7.648	7.619	(0.959)	488972	54.6	54.6
19 2,2-Dichloropropane	77.00	7.656	7.619	(0.960)	837365	50.9	50.9
20 Methyl ethyl ketone	72.00	7.698	7.678	(0.828)	88768	61.3	61.3(Q)
21 Ethyl acetate	43.00	7.739	7.719	(0.971)	2500535	58.9	58.9
22 Bromochloromethane (ISTD)	128.00	7.971	7.935	(1.000)	346128	50.0	
23 Chloroform	83.00	8.046	8.009	(1.009)	1100525	53.8	53.8
24 1,1,1-Trichloroethane	97.00	8.303	8.275	(0.893)	895805	51.1	51.1
25 1,1-Dichloropropene	75.00	8.503	8.475	(0.914)	698792	52.3	52.3
26 Carbon tetrachloride	117.00	8.528	8.491	(0.917)	734664	51.0	51.0
27 1,2-Dichloroethane-D4 (SURR)	65.00	8.727	8.691	(1.095)	710484	49.7	49.7
28 Benzene	78.00	8.802	8.757	(0.946)	958587	52.0	52.0
29 1,2-Dichloroethane	62.00	8.827	8.790	(1.107)	863141	57.0	57.0

Data File: /chem/msc.i/c020696.b/c8352.d
Report Date: 06-Feb-1996 12:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.300	9.263	(1.000)	1008185	50.0		
	31 Trichloroethylene	130.00	9.723	9.695	(1.046)	481336	48.9	48.9	
	32 1,2-Dichloropropane	63.00	10.096	10.059	(1.086)	530190	54.7	54.7	
	33 Dibromomethane	93.00	10.286	10.250	(1.106)	586697	53.2	53.2	
	34 Dichlorobromomethane	83.00	10.510	10.482	(1.130)	1074049	54.1	54.1	
	36 cis-1,3-Dichloropropylene	75.00	11.222	11.194	(1.207)	778954	52.2	52.2	
	37 Methyl-iso-butyl ketone	43.00	11.470	11.459	(0.813)	1047633	57.4	57.4	
$	38 Toluene-D8 (SURR)	98.00	11.661	11.649	(0.826)	992348	51.6	51.6	
	39 Toluene	91.00	11.777	11.757	(0.834)	1122210	51.7	51.7	
	40 trans-1,3-Dichloropropylene	75.00	12.108	12.097	(1.302)	735283	53.5	53.5	
	41 1,1,2-Trichloroethane	97.00	12.431	12.428	(1.337)	477943	52.1	52.1	
	42 Tetrachloroethylene	164.00	12.705	12.685	(0.900)	1721628	182	182	
	43 1,3-Dichloropropane	76.00	12.722	12.702	(0.901)	847241	53.3	53.3	
	44 2-Hexanone	43.00	12.847	12.818	(0.910)	798331	55.6	55.6	
	45 Chlorodibromomethane	129.00	12.705	13.108	(1.366)	1337635	77.3	77.3	
	46 Ethylene dibromide	107.00	13.344	13.324	(0.945)	804848	52.8	52.8	
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.114	14.093	(1.000)	833535	50.0		
	48 Chlorobenzene	112.00	14.164	14.151	(1.004)	883799	50.6	50.6	
	49 1,1,1,2-Tetrachloroethane	133.00	14.297	14.284	(1.013)	567476	51.3	51.3	
	50 Ethylbenzene	106.00	14.330	14.309	(1.015)	413781	51.2	51.2	
	1 m+p-Xylenes	106.00	14.521	14.500	(1.029)	1006580	103	103	
	52 o-Xylene	106.00	15.167	15.146	(1.075)	507026	53.2	53.2	
	53 Styrene	104.00	15.192	15.171	(1.076)	821200	51.0	51.0	
	54 Bromoform	173.00	15.499	15.495	(1.667)	817843	49.1	49.1	
	55 Isopropylbenzene	105.00	15.715	15.694	(1.113)	1576814	51.1	51.1	
$	56 Bromofluorobenzene (SURR)	95.00	15.956	15.935	(1.131)	888503	52.2	52.2	(QM)
	57 1,1,2,2-Tetrachloroethane	83.00	16.139	16.126	(1.143)	1128222	53.5	53.5	
	58 1,2,3-Trichloropropane	75.00	16.214	16.193	(1.149)	1057165	54.5	54.5	
	59 Bromobenzene	156.00	16.189	16.176	(1.147)	568265	51.4	51.4	
	60 n-Propylbenzene	91.00	16.306	16.293	(1.155)	1922797	49.9	49.9	
	61 o-Chlorotoluene	91.00	16.447	16.434	(1.165)	1583867	53.0	53.0	
	62 1,3,5-Trimethylbenzene	105.00	16.539	16.518	(1.172)	1396396	53.0	53.0	
	63 p-Chlorotoluene	91.00	16.589	16.576	(1.175)	1645198	50.1	50.1	
	64 tert-Butylbenzene	119.00	16.988	16.975	(1.204)	1409590	51.5	51.5	
	65 1,2,4-Trimethylbenzene	105.00	17.046	17.033	(1.208)	1422159	51.8	51.8	
	66 sec-Butylbenzene	105.00	17.271	17.257	(1.224)	1861210	50.6	50.6	
	67 4-Isopropyltoluene	119.00	17.454	17.432	(1.237)	1568958	49.9	49.9	
	68 1,3-Dichlorobenzene	146.00	17.446	17.424	(1.236)	898088	50.9	50.9	
	69 1,4-Dichlorobenzene	146.00	17.554	17.541	(1.244)	1053336	49.2	49.2	
	70 n-Butylbenzene	91.00	17.994	17.973	(1.275)	1681264	49.4	49.4	
	71 1,2-Dichlorobenzene	146.00	18.069	18.048	(1.280)	943321	50.6	50.6	
	72 1,2-Dibromo-3-chloropropane	75.00	19.166	19.144	(1.358)	558521	53.1	53.1	
	73 1,2,4-Trichlorobenzene	180.00	20.500	20.470	(1.452)	902738	46.1	46.1	
	74 Hexachlorobutadiene	225.00	20.776	20.746	(1.472)	504767	46.5	46.5	
	75 Naphthalene	128.00	20.959	20.929	(1.485)	1955213	46.7	46.7	
	1 1,2,3-Trichlorobenzene	180.00	21.416	21.395	(1.517)	869822	44.6	44.6	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

0174 EPA SAMPLE NO.

VSPK01A

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: N2V4939VS

Sample wt/vol: 5.00 (g/mL) G Lab File ID: C8300

Level: (low/med) ~~LOW~~ MED Date Received: 2/2/96

% Moisture: not dec. N/A Date Analyzed: 02/04/96

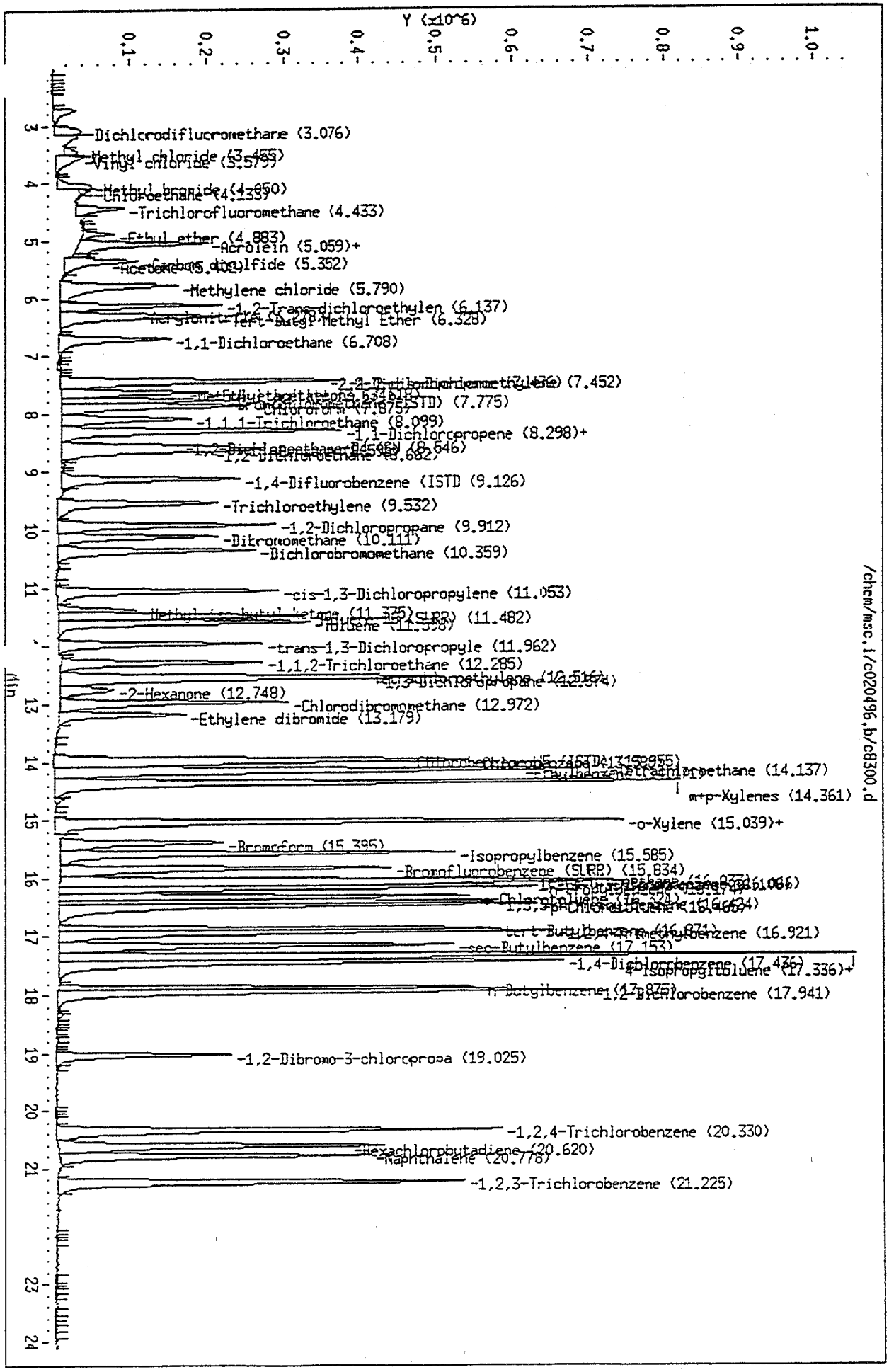
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume: ~~5000~~ 10000 (uL) Soil Aliquot Volume: ~~5000~~ 200 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethylene	1100	

Data File: /chem/msc.1/c020496.b/c8300.d
Date : 04-FEB-96 17:06
Client ID: n2v4938 blk spk
Sample Info: n2v4939 blk spk rerun (10)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.1
Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c020496.b/c8300.d
Report Date: 04-Feb-1996 18:08

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c020496.b/c8300.d
Lab Smp Id: Client Smp ID: n2v4938 blk spk
Inj Date : 04-FEB-96 17:06
Operator : jk Inst ID: msc.i
Smp Info : n2v4939 blk spk rerun (10)
Misc Info : n2v4939vs,n2v4939,m2,5000,25,5.0,5.0,960203,
Comment :
Method : /chem/msc.i/c020496.b/020396_ambic.m
Meth Date : 04-Feb-1996 18:03 glenn Quant Type: ISTD
Cal Date : 04-FEB-96 15:19 Cal File: c8297.d
Als bottle: 10
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MM 2/5/96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
1	Dichlorodifluoromethane	85.00	3.076	3.158	(0.396)	277353	49.4	49.4 (M)
2	Methyl chloride	50.00	3.455	3.504	(0.444)	151684	59.7	59.7 (M)
3	Vinyl chloride	62.00	3.579	3.661	(0.460)	133736	52.6	52.6 (M)
4	Methyl bromide	94.00	4.050	4.156	(0.521)	85122	41.4	41.4 (QM)
5	Chloroethane	64.00	4.133	4.273	(0.532)	53756	40.4	40.4 (M)
6	Trichlorofluoromethane	101.00	4.424	4.645	(0.569)	144879	19.5	19.5 (M)
7	Ethyl ether	59.00	4.883	5.124	(0.628)	40889	15.2	15.2
8	Acrolein	56.00	5.068	5.305	(0.652)	45449	18.4	18.4
9	1,1,2-Trichlorotrifluoroethan	101.00	5.051	5.388	(0.650)	78315	11.0	11.0
10	1,1-Dichloroethylene	96.00	5.068	5.397	(0.652)	47965	15.1	15.1
11	Acetone	43.00	5.402	5.529	(0.695)	55624	38.8	38.8 (M)
12	Carbon disulfide	76.00	5.352	5.711	(0.688)	310701	31.6	31.6 (M)
13	Methylene chloride	84.00	5.782	6.025	(0.744)	171538	48.2	48.2
14	Acrylonitrile	53.00	6.278	6.330	(0.807)	53674	59.2	59.2
15	1,2-Trans-dichloroethylene	96.00	6.137	6.347	(0.789)	149149	43.4	43.4
16	Tert-Butyl Methyl Ether	73.00	6.319	6.372	(0.813)	370175	42.9	42.9
17	1,1-Dichloroethane	63.00	6.708	6.851	(0.863)	397220	50.6	50.6
18	1,2-cis-Dichloroethylene	96.00	7.452	7.579	(0.958)	158825	46.8	46.8
19	2,2-Dichloropropane	77.00	7.436	7.571	(0.956)	263100	39.4	39.4
20	Methyl ethyl ketone	72.00	7.618	7.612	(0.835)	5755	23.8	23.8 (Q)
21	Ethyl acetate	43.00	7.643	7.662	(0.983)	602235	49.7	49.7 (Q)
22	Bromochloromethane (ISTD)	128.00	7.775	7.902	(1.000)	124352	50.0	
23	Chloroform	83.00	7.883	7.968	(1.014)	344581	42.4	42.4
24	1,1,1-Trichloroethane	97.00	8.099	8.250	(0.887)	238656	54.0	54.0
25	1,1-Dichloropropene	75.00	8.298	8.458	(0.909)	213747	56.0	56.0
	Carbon tetrachloride	117.00	8.306	8.474	(0.910)	186047	53.0	53.0
S 27	1,2-Dichloroethane-D4 (SURR)	65.00	8.546	8.673	(1.099)	227977	47.5	47.5
28	Benzene	78.00	8.604	8.764	(0.943)	306424	56.2	56.2
29	1,2-Dichloroethane	62.00	8.662	8.789	(1.114)	285019	40.2	40.2 (M)

Data File: /chem/msc.i/c020496.b/c8300.d
Report Date: 04-Feb-1996 18:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.126	9.285	(1.000)	336133	50.0	
	31 Trichloroethylene	130.00	9.540	9.698	(1.045)	154452	50.7	50.7
	32 1,2-Dichloropropane	63.00	9.912	10.054	(1.086)	219412	63.2	63.2
	33 Dibromomethane	93.00	10.111	10.244	(1.108)	212864	69.8	69.8
	34 Dichlorobromomethane	83.00	10.359	10.467	(1.135)	401842	65.3	65.3
	36 cis-1,3-Dichloropropylene	75.00	11.053	11.161	(1.211)	313109	65.7	65.7
	37 Methyl-iso-butyl ketone	43.00	11.383	11.409	(0.816)	303861	49.2	49.2 (Q)
$	38 Toluene-D8 (SURR)	98.00	11.491	11.599	(0.823)	418479	45.0	45.0
	39 Toluene	91.00	11.598	11.707	(0.831)	459150	47.2	47.2
	40 trans-1,3-Dichloropropylene	75.00	11.962	12.037	(1.311)	303389	71.0	71.0
	41 1,1,2-Trichloroethane	97.00	12.285	12.368	(1.346)	186945	74.5	74.5
	42 Tetrachloroethylene	164.00	12.516	12.624	(0.897)	189447	43.3	43.3
	43 1,3-Dichloropropane	76.00	12.574	12.641	(0.901)	353305	49.0	49.0
	44 2-Hexanone	43.00	12.757	12.757	(0.914)	105065	25.8	25.8
	45 Chlorodibromomethane	129.00	12.972	13.046	(1.421)	333346	71.5	71.5 (M)
	46 Ethylene dibromide	107.00	13.179	13.261	(0.944)	296066	49.5	49.5
*	47 Chlorobenzene-d5 (ISTD)	117.00	13.955	14.029	(1.000)	361931	50.0	
	48 Chlorobenzene	112.00	13.996	14.079	(1.003)	386854	49.9	49.9
	49 1,1,1,2-Tetrachloroethane	133.00	14.137	14.220	(1.013)	241986	48.8	48.8
	50 Ethylbenzene	106.00	14.171	14.253	(1.015)	181890	49.8	49.8
	1 m+p-Xylenes	106.00	14.361	14.444	(1.029)	459884	103	103
	52 o-Xylene	106.00	15.031	15.097	(1.077)	229407	51.0	51.0
	53 Styrene	104.00	15.047	15.122	(1.078)	366635	52.8	52.8
	54 Bromoform	173.00	15.403	15.427	(1.688)	296813	71.7	71.7
	55 Isopropylbenzene	105.00	15.577	15.643	(1.116)	680620	49.4	49.4
$	56 Bromofluorobenzene (SURR)	95.00	15.834	15.883	(1.135)	455775	49.5	49.5
	57 1,1,2,2-Tetrachloroethane	83.00	16.033	16.065	(1.149)	408329	54.5	54.5
	58 1,2,3-Trichloropropane	75.00	16.108	16.140	(1.154)	361682	50.2	50.2
	59 Bromobenzene	156.00	16.074	16.123	(1.152)	244882	48.6	48.6
	60 n-Propylbenzene	91.00	16.183	16.240	(1.160)	859466	49.1	49.1
	61 o-Chlorotoluene	91.00	16.332	16.373	(1.170)	740806	51.2	51.2
	62 1,3,5-Trimethylbenzene	105.00	16.415	16.472	(1.176)	594115	49.0	49.0
	63 p-Chlorotoluene	91.00	16.473	16.514	(1.180)	837078	53.2	53.2
	64 tert-Butylbenzene	119.00	16.871	16.911	(1.209)	649194	49.9	49.9
	65 1,2,4-Trimethylbenzene	105.00	16.929	16.970	(1.213)	608548	49.1	49.1
	66 sec-Butylbenzene	105.00	17.162	17.193	(1.230)	777744	47.4	47.4
	67 4-Isopropyltoluene	119.00	17.336	17.367	(1.242)	709693	48.1	48.1
	68 1,3-Dichlorobenzene	146.00	17.328	17.367	(1.242)	414196	49.2	49.2
	69 1,4-Dichlorobenzene	146.00	17.444	17.476	(1.250)	557112	53.2	53.2
	70 n-Butylbenzene	91.00	17.867	17.906	(1.280)	743030	46.2	46.2
	71 1,2-Dichlorobenzene	146.00	17.941	17.973	(1.286)	475084	53.1	53.1 (H)
	72 1,2-Dibromo-3-chloropropane	75.00	19.025	19.056	(1.363)	154001	52.4	52.4
	73 1,2,4-Trichlorobenzene	180.00	20.330	20.369	(1.457)	407268	48.5	48.5
	74 Hexachlorobutadiene	225.00	20.620	20.643	(1.478)	187383	35.9	35.9 (QM)
	75 Naphthalene	128.00	20.778	20.818	(1.489)	757092	53.0	53.0
	1,2,3-Trichlorobenzene	180.00	21.233	21.256	(1.522)	399412	48.7	48.7

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET 0178

EPA SAMPLE NO.

VSPK01B

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS01

Matrix: (soil/water) WATER Lab Sample ID: N1V4940VS

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C8312

Level: (low/med) LOW Date Received: 2/2/96

% Moisture: not dec. N/A Date Analyzed: 02/04/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	52	
74-83-9	Bromomethane	46	
75-01-4	Vinyl Chloride	50	
75-00-3	Chloroethane	44	
75-09-2	Methylene Chloride	47	
67-64-1	Acetone	62	
75-15-0	Carbon Disulfide	45	
75-35-4	1,1-Dichloroethene	46	
75-34-3	1,1-Dichloroethane	52	
540-59-0	1,2-Dichloroethene (total)	97	
67-66-3	Chloroform	52	
107-06-2	1,2-Dichloroethane	48	
78-93-3	2-Butanone	50	
71-55-6	1,1,1-Trichloroethane	64	
56-23-5	Carbon Tetrachloride	61	
75-27-4	Bromodichloromethane	68	
78-87-5	1,2-Dichloropropane	65	
10061-01-5	cis-1,3-Dichloropropene	65	
79-01-6	Trichloroethene	60	
124-48-1	Dibromochloromethane	70	
79-00-5	1,1,2-Trichloroethane	70	
71-43-2	Benzene	58	
10061-02-6	trans-1,3-Dichloropropene	67	
75-25-2	Bromoform	72	
108-10-1	Methyl-iso-butyl ketone	51	
591-78-6	2-Hexanone	52	
127-18-4	Tetrachloroethylene	48	
79-34-5	1,1,2,2-Tetrachloroethane	55	
108-88-3	Toluene	49	
108-90-7	Chlorobenzene	49	
100-41-4	Ethylbenzene	50	
100-42-5	Styrene	52	
1330-20-7	Xylene (total)	140	

Data File: /chem/msc.i/c020496.b/c8312.d
Date : 04-FEB-96 23:29
Client ID: n1v4940 blk spk
Sample Info: n1v4940 blk spk (6)
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i
Operator: jk
Column diameter: 0.53

Data File: /chem/msc.i/c020496.b/c8312.d
Report Date: 05-Feb-1996 09:31

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c020496.b/c8312.d
Lab Smp Id: Client Smp ID: n1v4940 blk spk
Inj Date : 04-FEB-96 23:29
Operator : jk Inst ID: msc.i
Smp Info : n1v4940 blk spk (6)
Misc Info : n1v4940vs,n1v4940,m2,5000,1,5.0,5.0,960204,
Comment :
Method : /chem/msc.i/c020496.b/020396_ambic.m
Meth Date : 05-Feb-1996 09:20 glenn Quant Type: ISTD
Cal Date : 04-FEB-96 15:19 Cal File: c8297.d
Als bottle: 6
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

2/5/96

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
1 Dichlorodifluoromethane	85.00	3.183	3.158	(0.399)	284226	49.2	49.2
2 Methyl chloride	50.00	3.571	3.504	(0.448)	135721	51.9	51.9
3 Vinyl chloride	62.00	3.719	3.661	(0.466)	131254	50.2	50.2
4 Methyl bromide	94.00	4.198	4.156	(0.526)	96888	45.8	45.8
5 Chloroethane	64.00	4.314	4.273	(0.541)	59849	43.7	43.7
6 Trichlorofluoromethane	101.00	4.687	4.645	(0.588)	377860	49.4	49.4
7 Ethyl ether	59.00	5.174	5.124	(0.649)	130249	47.2	47.2
8 Acrolein	56.00	5.373	5.305	(0.673)	130519	51.3	51.3
9 1,1,2-Trichlorotrifluoroethan	101.00	5.447	5.388	(0.683)	345152	47.2	47.2
10 1,1-Dichloroethylene	96.00	5.456	5.397	(0.684)	151365	46.2	46.2
11 Acetone	43.00	5.613	5.529	(0.704)	90807	61.6	61.6
12 Carbon disulfide	76.00	5.770	5.711	(0.723)	450961	44.6	44.6
13 Methylene chloride	84.00	6.109	6.025	(0.766)	170450	46.6	46.6
14 Acrylonitrile	53.00	6.423	6.330	(0.805)	53159	57.0	57.0
15 1,2-Trans-dichloroethylene	96.00	6.431	6.347	(0.806)	167361	47.3	47.3
16 Tert-Butyl Methyl Ether	73.00	6.473	6.372	(0.811)	451847	50.9	50.9
17 1,1-Dichloroethane	63.00	6.944	6.851	(0.870)	419382	51.9	51.9
18 1,2-cis-Dichloroethylene	96.00	7.655	7.579	(0.960)	171772	49.2	49.2
19 2,2-Dichloropropane	77.00	7.663	7.571	(0.961)	298831	43.5	43.5
20 Methyl ethyl ketone	72.00	7.696	7.612	(0.824)	14271	50.0	50.0(Q)
21 Ethyl acetate	43.00	7.737	7.662	(0.970)	718183	57.6	57.6
* 22 Bromochloromethane (ISTD)	128.00	7.978	7.902	(1.000)	127913	50.0	
23 Chloroform	83.00	8.060	7.968	(1.010)	431031	51.6	51.6
24 1,1,1-Trichloroethane	97.00	8.325	8.250	(0.891)	333070	63.8	63.8
25 1,1-Dichloropropene	75.00	8.533	8.458	(0.913)	273634	60.6	60.6
26 Carbon tetrachloride	117.00	8.558	8.474	(0.916)	254875	61.4	61.4
27 1,2-Dichloroethane-D4 (SURR)	65.00	8.748	8.673	(1.097)	295667	59.9	59.9
28 Benzene	78.00	8.831	8.764	(0.945)	371642	57.6	57.6
29 1,2-Dichloroethane	62.00	8.856	8.789	(1.110)	352819	48.3	48.3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
*	30 1,4-Difluorobenzene (ISTD)	114.00	9.345	9.285	(1.000)	397355	50.0	
	31 Trichloroethylene	130.00	9.767	9.698	(1.045)	216961	60.3	60.3
	32 1,2-Dichloropropane	63.00	10.130	10.054	(1.084)	267409	65.2	65.2
	33 Dibromomethane	93.00	10.329	10.244	(1.105)	251552	69.7	69.7
	34 Dichlorobromomethane	83.00	10.552	10.467	(1.129)	494041	68.0	68.0 (QM)
	36 cis-1,3-Dichloropropylene	75.00	11.254	11.161	(1.204)	365539	64.9	64.9
	37 Methyl-iso-butyl ketone	43.00	11.510	11.409	(0.814)	343642	50.8	50.8
S	38 Toluene-D8 (SURR)	98.00	11.701	11.599	(0.828)	493123	48.5	48.5
	39 Toluene	91.00	11.817	11.707	(0.836)	518727	48.8	48.8
	40 trans-1,3-Dichloropropylene	75.00	12.147	12.037	(1.300)	337353	66.8	66.8
	41 1,1,2-Trichloroethane	97.00	12.470	12.368	(1.334)	206373	69.6	69.6
	42 Tetrachloroethylene	164.00	12.726	12.624	(0.901)	227390	47.5	47.5
	43 1,3-Dichloropropane	76.00	12.743	12.641	(0.902)	397194	50.3	50.3
	44 2-Hexanone	43.00	12.859	12.757	(0.910)	230785	51.8	51.8
	45 Chlorodibromomethane	129.00	13.141	13.046	(1.406)	385176	69.9	69.9 (M)
	46 Ethylene dibromide	107.00	13.364	13.261	(0.946)	326193	49.9	49.9
*	47 Chlorobenzene-d5 (ISTD)	117.00	14.132	14.029	(1.000)	395990	50.0	
	48 Chlorobenzene	112.00	14.190	14.079	(1.004)	419381	49.4	49.4
	49 1,1,1,2-Tetrachloroethane	133.00	14.315	14.220	(1.013)	261888	48.3	48.3
	50 Ethylbenzene	106.00	14.348	14.253	(1.015)	198851	49.7	49.7
	51 m+p-Xylenes	106.00	14.531	14.444	(1.028)	470679	96.0	96.0
	52 o-Xylene	106.00	15.184	15.097	(1.074)	233411	47.4	47.4
	53 Styrene	104.00	15.192	15.122	(1.075)	393747	51.8	51.8
	54 Bromoform	173.00	15.506	15.427	(1.659)	350892	71.7	71.7
	55 Isopropylbenzene	105.00	15.722	15.643	(1.112)	735767	48.8	48.8
S	56 Bromofluorobenzene (SURR)	95.00	15.962	15.883	(1.129)	493479	49.0	49.0
	57 1,1,2,2-Tetrachloroethane	83.00	16.144	16.065	(1.142)	446806	54.5	54.5
	58 1,2,3-Trichloropropane	75.00	16.219	16.140	(1.148)	420597	53.4	53.4
	59 Bromobenzene	156.00	16.194	16.123	(1.146)	266932	48.4	48.4
	60 n-Propylbenzene	91.00	16.311	16.240	(1.154)	964875	50.4	50.4
	61 o-Chlorotoluene	91.00	16.452	16.373	(1.164)	798952	50.5	50.5
	62 1,3,5-Trimethylbenzene	105.00	16.543	16.472	(1.171)	645403	48.7	48.7
	63 p-Chlorotoluene	91.00	16.593	16.514	(1.174)	866228	50.3	50.3
	64 tert-Butylbenzene	119.00	16.991	16.911	(1.202)	694959	48.8	48.8
	65 1,2,4-Trimethylbenzene	105.00	17.049	16.970	(1.206)	672169	49.6	49.6
	66 sec-Butylbenzene	105.00	17.273	17.193	(1.222)	863912	48.1	48.1
	67 4-Isopropyltoluene	119.00	17.448	17.367	(1.235)	770301	47.7	47.7
	68 1,3-Dichlorobenzene	146.00	17.448	17.367	(1.235)	456996	49.6	49.6
	69 1,4-Dichlorobenzene	146.00	17.556	17.476	(1.242)	532923	46.6	46.6
	70 n-Butylbenzene	91.00	17.995	17.906	(1.273)	802892	45.6	45.6
	71 1,2-Dichlorobenzene	146.00	18.062	17.973	(1.278)	478401	48.8	48.8
	72 1,2-Dibromo-3-chloropropane	75.00	19.162	19.056	(1.356)	180469	56.1	56.1
	73 1,2,4-Trichlorobenzene	180.00	20.509	20.369	(1.451)	424579	46.2	46.2
	74 Hexachlorobutadiene	225.00	20.791	20.643	(1.471)	227387	39.8	39.8 (QM)
	75 Naphthalene	128.00	20.966	20.818	(1.484)	871668	55.8	55.8
	5 1,2,3-Trichlorobenzene	180.00	21.430	21.256	(1.515)	413934	46.1	46.1

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

0182 EPA SAMPLE NO.

VSPK01C

Lab Name: OHM ANALYTICAL DIVISION Contract: NFESC

Lab Code: N/A Case No.: 17418N SAS No.: N/A SDG No.: CLJ78SS001

Matrix: (soil/water) SOIL Lab Sample ID: N2V4947VS

Sample wt/vol: 5.00 (g/mL) G Lab File ID: C8337

Level: (low/med) LOW Date Received: 2/2/96

% Moisture: not dec. N/A Date Analyzed: 02/05/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 5000 (uL)

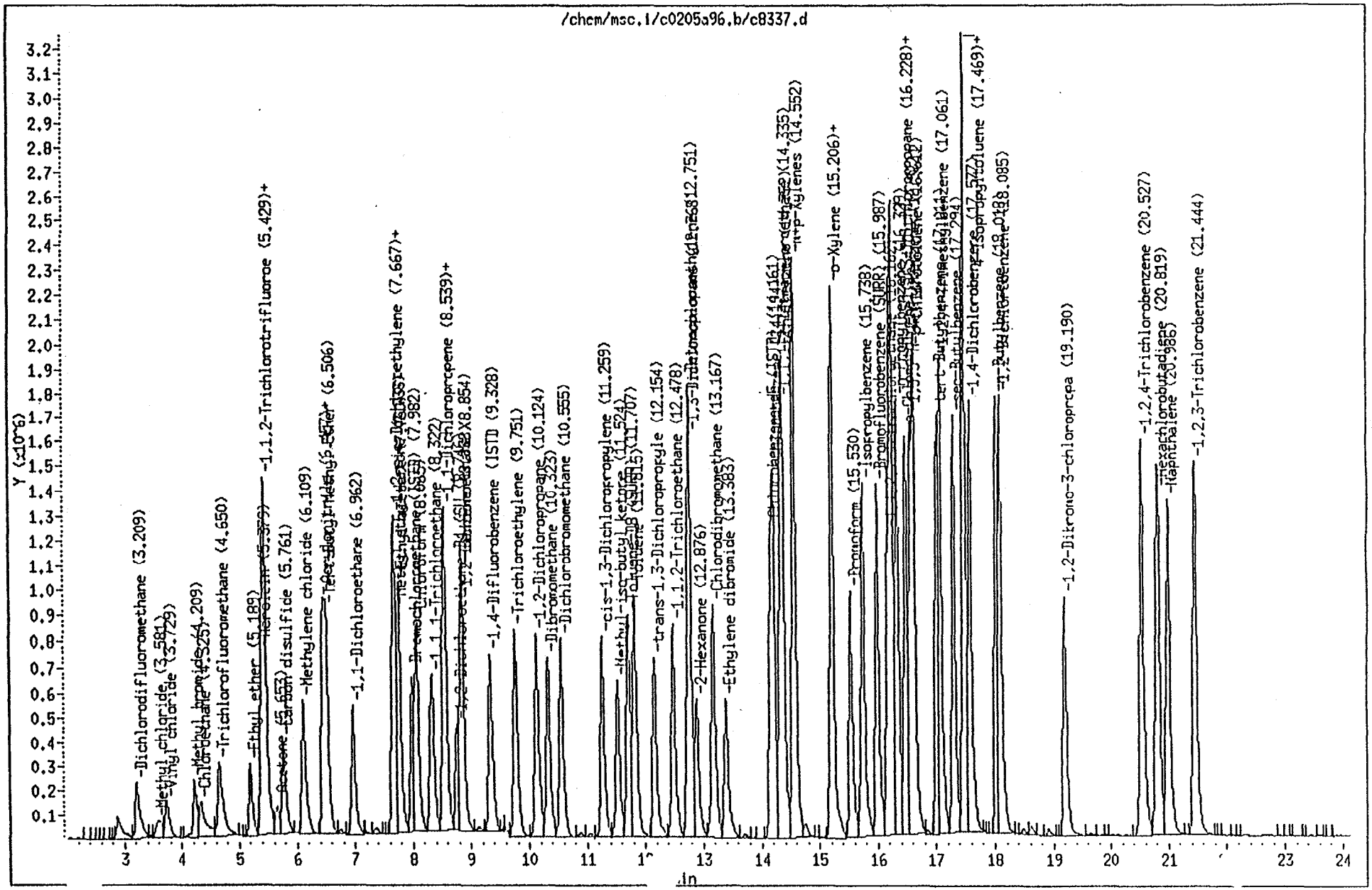
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	39	
74-83-9	Bromomethane	53	
75-01-4	Vinyl Chloride	46	
75-00-3	Chloroethane	43	
75-09-2	Methylene Chloride	49	B
67-64-1	Acetone	53	
75-15-0	Carbon Disulfide	48	
75-35-4	1,1-Dichloroethene	49	
75-34-3	1,1-Dichloroethane	49	
540-59-0	1,2-Dichloroethene (total)	100	
67-66-3	Chloroform	48	
107-06-2	1,2-Dichloroethane	45	
78-93-3	2-Butanone	57	
71-55-6	1,1,1-Trichloroethane	49	
56-23-5	Carbon Tetrachloride	48	
75-27-4	Bromodichloromethane	48	
78-87-5	1,2-Dichloropropane	56	
10061-01-5	cis-1,3-Dichloropropene	53	
79-01-6	Trichloroethene	59	
124-48-1	Dibromochloromethane	55	
79-00-5	1,1,2-Trichloroethane	54	
71-43-2	Benzene	51	
10061-02-6	trans-1,3-Dichloropropene	49	
75-25-2	Bromoform	58	
108-10-1	Methyl-iso-butyl ketone	52	B
591-78-6	2-Hexanone	54	
79-34-5	1,1,2,2-Tetrachloroethane	53	
108-88-3	Toluene	51	
108-90-7	Chlorobenzene	52	
100-41-4	Ethylbenzene	51	
100-42-5	Styrene	53	
1330-20-7	Xylene (total)	150	
156-60-5	1,2-Trans-dichloroethylene	49	

0183

Data File: /chem/msc.i/c0205a96.b/c8337.d
Date : 05-FEB-96 20:34
Client ID: n2v4947 met spk
Sample Info: n2v4947 met spk
Purge Volume: 1.0
Column phase: J&W DB_624

Instrument: msc.i

Operator: jk
Column diameter: 0.53



Data File: /chem/msc.i/c0205a96.b/c8337.d
Report Date: 06-Feb-1996 09:23

OHM Analytical Division

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/msc.i/c0205a96.b/c8337.d
Lab Smp Id: Client Smp ID: n2v4947 met spk
Inj Date : 05-FEB-96 20:34
Operator : jk Inst ID: msc.i
Smp Info : n2v4947 met spk
Misc Info : n2v4947vs,n2v4947,m2,5000,1,5.0,5.0,960205
Comment :
Method : /chem/msc.i/c0205a96.b/020596_heatc.m
Meth Date : 06-Feb-1996 09:01 glenn Quant Type: ISTD
Cal Date : 05-FEB-96 18:25 Cal File: c8333.d
Als bottle: 8
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

MK 2/6/96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	1 Dichlorodifluoromethane	85.00	3.209	3.175	(0.402)	685901	41.5	41.5
	2 Methyl chloride	50.00	3.581	3.555	(0.449)	334366	39.1	39.1(M)
	3 Vinyl chloride	62.00	3.729	3.695	(0.467)	364246	46.0	46.0
	4 Methyl bromide	94.00	4.209	4.166	(0.527)	366258	53.2	53.2
	5 Chloroethane	64.00	4.325	4.299	(0.542)	211658	42.5	42.5
	6 Trichlorofluoromethane	101.00	4.659	4.704	(0.584)	703847	37.7	37.7
	7 Ethyl ether	59.00	5.180	5.158	(0.649)	381644	49.6	49.6
	8 Acrolein	56.00	5.379	5.340	(0.674)	649345	54.9	54.9
	9 1,1,2-Trichlorotrifluoroethan	101.00	5.421	5.439	(0.679)	1034449	49.8	49.8
	10 1,1-Dichloroethylene	96.00	5.437	5.456	(0.681)	509362	49.4	49.4
	11 Acetone	43.00	5.653	5.564	(0.708)	371068	52.7	52.7
	12 Carbon disulfide	76.00	5.761	5.770	(0.722)	1348247	48.3	48.3
	13 Methylene chloride	84.00	6.109	6.092	(0.765)	551736	49.1	49.1
	14 Acrylonitrile	53.00	6.457	6.390	(0.809)	233107	52.0	52.0
	15 1,2-Trans-dichloroethylene	96.00	6.448	6.423	(0.808)	537606	49.2	49.2
	16 Tert-Butyl Methyl Ether	73.00	6.506	6.431	(0.815)	1456357	48.1	48.1
	17 1,1-Dichloroethane	63.00	6.962	6.919	(0.872)	1149093	49.4	49.4
	18 1,2-cis-Dichloroethylene	96.00	7.667	7.622	(0.960)	559697	50.7	50.7
	19 2,2-Dichloropropane	77.00	7.667	7.631	(0.960)	838904	44.4	44.4
	20 Methyl ethyl ketone	72.00	7.733	7.647	(0.829)	102290	57.0	57.0(Q)
	21 Ethyl acetate	43.00	7.758	7.697	(0.972)	2906249	51.4	51.4
*	22 Bromochloromethane (ISTD)	128.00	7.982	7.937	(1.000)	394211	50.0	
	23 Chloroform	83.00	8.065	8.029	(1.010)	1204679	47.9	47.9
	24 1,1,1-Trichloroethane	97.00	8.322	8.285	(0.892)	964159	48.6	48.6
	25 1,1-Dichloropropene	75.00	8.530	8.493	(0.914)	829664	50.3	50.3
	Carbon tetrachloride	117.00	8.547	8.509	(0.916)	823723	48.2	48.2
S	27 1,2-Dichloroethane-D4 (SURR)	65.00	8.746	8.708	(1.096)	750362	46.4	46.4
	28 Benzene	78.00	8.830	8.791	(0.947)	1163743	50.5	50.5
	29 1,2-Dichloroethane	62.00	8.854	8.816	(1.109)	905107	45.0	45.0

Data File: /chem/msc.i/c0205a96.b/c8337.d
Report Date: 06-Feb-1996 09:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
* 30	1,4-Difluorobenzene (ISTD)	114.00	9.328	9.280	(1.000)	1242880	50.0	
31	Trichloroethylene	130.00	9.759	9.703	(1.046)	652117	59.3	59.3
32	1,2-Dichloropropane	63.00	10.124	10.083	(1.085)	693535	55.6	55.6
33	Dibromomethane	93.00	10.331	10.273	(1.108)	703844	51.4	51.4
34	Dichlorobromomethane	83.00	10.555	10.488	(1.132)	1260529	48.4	48.4 (M)
36	cis-1,3-Dichloropropylene	75.00	11.259	11.199	(1.207)	983870	52.5	52.5
37	Methyl-iso-butyl ketone	43.00	11.524	11.447	(0.814)	1307857	52.0	52.0
$ 38	Toluene-D8 (SURR)	98.00	11.707	11.637	(0.827)	1353566	51.2	51.2
39	Toluene	91.00	11.823	11.761	(0.835)	1500091	51.2	51.2
40	trans-1,3-Dichloropropylene	75.00	12.154	12.083	(1.303)	887976	48.5	48.5
41	1,1,2-Trichloroethane	97.00	12.486	12.406	(1.339)	616850	54.1	54.1
42	Tetrachloroethylene	164.00	12.743	12.670	(0.900)	643793	50.4	50.4
43	1,3-Dichloropropane	76.00	12.768	12.703	(0.902)	1067709	50.7	50.7
44	2-Hexanone	43.00	12.885	12.819	(0.910)	1024713	53.8	53.8
45	Chlorodibromomethane	129.00	13.167	13.092	(1.412)	1123212	54.6	54.6
46	Ethylene dibromide	107.00	13.383	13.316	(0.945)	1030588	52.5	52.5
* 47	Chlorobenzene-d5 (ISTD)	117.00	14.161	14.092	(1.000)	1114720	50.0	
48	Chlorobenzene	112.00	14.202	14.150	(1.003)	1227516	51.8	51.8
49	1,1,1,2-Tetrachloroethane	133.00	14.335	14.274	(1.012)	714019	51.6	51.6
50	Ethylbenzene	106.00	14.360	14.299	(1.014)	563531	50.6	50.6
51	m+p-Xylenes	106.00	14.560	14.499	(1.028)	1375264	99.7	99.7
52	o-Xylene	106.00	15.198	15.151	(1.073)	705842	52.4	52.4
53	Styrene	104.00	15.215	15.168	(1.074)	1185512	53.4	53.4
54	Bromoform	173.00	15.530	15.474	(1.665)	1090578	57.6	57.6
55	Isopropylbenzene	105.00	15.738	15.698	(1.111)	2087108	53.2	53.2
$ 56	Bromofluorobenzene (SURR)	95.00	15.987	15.938	(1.129)	1190332	56.9	56.9 (QM)
57	1,1,2,2-Tetrachloroethane	83.00	16.162	16.129	(1.141)	1444870	53.3	53.3 (M)
58	1,2,3-Trichloropropane	75.00	16.237	16.187	(1.147)	1305940	52.3	52.3
59	Bromobenzene	156.00	16.220	16.170	(1.145)	784083	51.7	51.7
60	n-Propylbenzene	91.00	16.329	16.287	(1.153)	2702070	52.1	52.1
61	o-Chlorotoluene	91.00	16.470	16.428	(1.163)	2094601	40.4	40.4
62	1,3,5-Trimethylbenzene	105.00	16.562	16.519	(1.170)	1834156	51.7	51.7
63	p-Chlorotoluene	91.00	16.612	16.569	(1.173)	2175965	54.3	54.3
64	tert-Butylbenzene	119.00	17.011	16.967	(1.201)	1874735	50.7	50.7
65	1,2,4-Trimethylbenzene	105.00	17.069	17.025	(1.205)	1826281	50.5	50.5
66	sec-Butylbenzene	105.00	17.294	17.257	(1.221)	2485413	49.4	49.4
67	4-Isopropyltoluene	119.00	17.469	17.432	(1.234)	2110559	50.3	50.3
68	1,3-Dichlorobenzene	146.00	17.461	17.423	(1.233)	1232900	50.2	50.2
69	1,4-Dichlorobenzene	146.00	17.577	17.540	(1.241)	1489556	49.2	49.2
70	n-Butylbenzene	91.00	18.018	17.979	(1.272)	2295273	45.2	45.2
71	1,2-Dichlorobenzene	146.00	18.093	18.046	(1.278)	1302165	43.0	43.0
72	1,2-Dibromo-3-chloropropane	75.00	19.190	19.140	(1.355)	648318	50.7	50.7
73	1,2,4-Trichlorobenzene	180.00	20.527	20.473	(1.450)	1227318	46.5	46.5
74	Hexachlorobutadiene	225.00	20.819	20.765	(1.470)	710816	44.9	44.9 (QM)
75	Naphthalene	128.00	20.986	20.923	(1.482)	2616564	48.2	48.2
	1,2,3-Trichlorobenzene	180.00	21.444	21.387	(1.514)	1216228	46.6	46.6

CHAIN-OF-CUSTODY RECORD(S)

OHM Remediation Services Corp.

CHAIN-OF-CUSTODY RECORD

LAB COPY

Form 0019
Field Technical Services
Rev. 08/89

166490

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
Camp Lejeune	Camp Lejeune, N.C.

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
17418	Alan Whitt	(910) 451-2599

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
VANN Marshburn	JIM DUNN/Alan Whitt

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) (8240) Volatiles	REMARKS
1	CLJ78-SS-001	2/1/96	1545		X	Sample at 3' Depth	1-4oz	X	
2	CLJ78-SS-002	2/1/96	1551		X	Sample at 6' Depth	1-4oz	X	
3	CLJ78-SS-003	2/1/96	1556		X	Sample at 3' Depth	1-4oz	X	
4	CLJ78-SS-004	2/1/96	1601		X	Sample at 6' Depth	1-4oz	X	
5	CLJ78-SS-005	2/1/96	1607		X	Sample at 3' Depth	1-4oz	X	
6	CLJ78-SS-006	2/1/96	1613		X	Sample at 6' Depth	1-4oz	X	
7	CLJ78-SS-006D	2/1/96	1613		X	Duplicat of soil Sample at 6'	1-4oz	X	
8	CLJ-FB	2/1/96	1617		X	Field Blank	3-40mL	X	
9	CLJ-RB	2/1/96	1623		X	Rinsate Blank	3-40mL	X	
10	GLJ-TB	-	-			Trip Blank	2-40mL	X	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-10	Aaron R. Jean	FED-EX 6921491194	2/1/96	1700
2	1-10	Fedex	Donita Jones	2-2-96	10:17
3					
4					

REMARKS

48 hour T.A.T.
Please Fax Results as soon as possible (910) 451-1809.
Samples sent to A.S.C. Thanks.

SAMPLER'S SIGNATURE

Aaron R. Jean

01187