

NEW YORK STATE SUPERFUND CONTRACT

MULTISITE PSA TASK 4 REPORT

New Cassel Industrial Area Site
North Hempstead, Nassau County

Hopper/Main Street Site	Site No. 130043J
E-Z-EM Site	Site No. 130043N
Tops Appliance City Site	Site No. 130043O
Swalm Avenue Site	Site No. 130043P
Sylvester Street Site	Site No. 130043Q
New Cassel Data Review Sites	Site No. 130043

Work Assignment No. D002676-12B-1

DATE: March 1997

Supporting Documentation - Volume I

GPR Data and SVOC Analytical Data



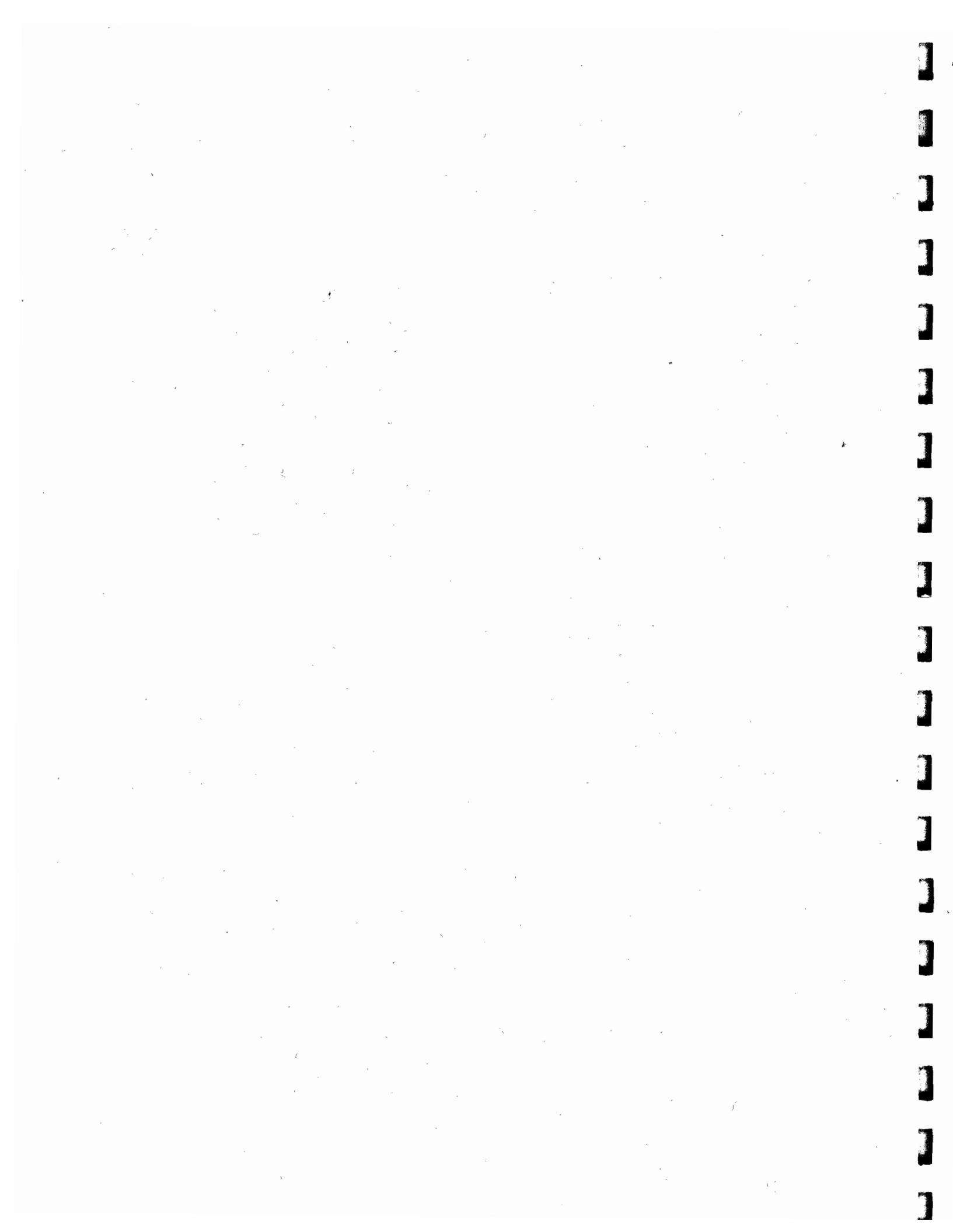
Prepared for:

**New York State
Department of
Environmental Conservation**

50 Wolf Road, Albany, New York 12233
John Cahill, Acting Commissioner

Division of Hazardous Waste Remediation
Michael J. O'Toole, Jr., P.E., Director

By:
Lawler, Matusky & Skelly Engineers LLP



NEW YORK STATE SUPERFUND CONTRACT

MULTISITE PSA TASK 4 REPORT

**SUPPORTING DOCUMENTATION - VOLUME I
GPR DATA SUMMARY AND SVOC ANALYTICAL DATA**

New Cassel Industrial Area Site
North Hempstead, Nassau County

HOPPER/MAIN STREET SITE (Site No. 130043 J)

E-Z-EM SITE (Site No. 130043 N)

TOPS APPLIANCE CITY SITE (Site No. 130043 O)

SWALM AVENUE SITE (Site No. 130043 P)

SYLVESTER STREET SITE (Site No. 130043 Q)

NEW CASSEL DATA REVIEW SITES (Site No. 130043)

Work Assignment No. D002676-12B.1

Prepared for:

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
50 Wolf Road
Albany, New York 12233**

March 1997

LMSE-97/0081&650/622/623//624/625/626

Prepared by:

**LAWLER, MATUSKY & SKELLY ENGINEERS LLP
Environmental Science & Engineering Consultants
One Blue Hill Plaza
Pearl River, New York 10965**



GPR DATA SUMMARY



SUB-SURFACE INFORMATIONAL SURVEYS, INC. - TABLE OF CONTENTS

GROUND PENETRATING RADAR RESULTS

**PRESENTATION MADE TO
LMS Engineers
November 11, 1996
Task 4 - 29 New York Avenue
New Cassel Industrial Area
Westbury, NY**

COPY

- PAGE 1 NON TECHNICAL OVERVIEW (IF APPLICABLE)**
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- PAGE 4 GPR OVERVIEW & EXPLANATION**
- PAGE 5 PROFILE COPIES OBTAINED ON SITE**
- PAGE 6 OTHER APPLICATIONS/ADD'L INFORMATION
(if applicable)**

SUB-SURFACE INFORMATIONAL SURVEYS, INC.

P. O. BOX 759 - SOMERS, CT 06071-0759

(CORPORATE HEADQUARTERS)

145 Shaker Road - P. O. Box 452

E. Longmeadow, MA 01028-0452

(203) 749-8434 - (413) 525-4666

FAX (413) 525-2887

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November 12, 1996

Mr. Michael Lehtinen, Project Manager

LMS Engineering

1 Blue Hill Plaza

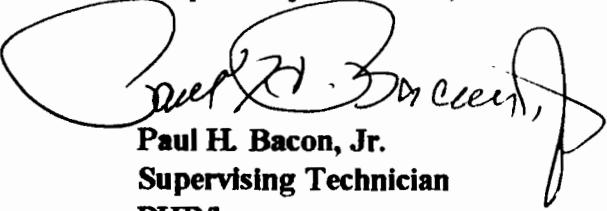
Pearl River, NY 10965

Dear Mr. Lehtinen:

A Ground Penetrating Radar (GPR) survey was conducted at your Super Fund Site - Task 4, 29 New York Avenue, New Cassel Industrial Area, Wesbury, NY on November 11, 1996. The purpose of the investigation was to delineate possible presence of *pools* and some *pipes/utilities* within designated area's.

There were two specific area's of concern (AOC) where we profiled a homogeneous signal which was noted on site. In addition, there were several area's within the building which we marked on the floor where there were possible drain pipes. This was done in several rooms. Outside, in the main parking lot, we had observed some profiles of which appeared to be that of possible electrical and sewer lines. These were also noted on site. (See attached overview for their orientation)

Respectfully submitted,


Paul H. Bacon, Jr.
Supervising Technician
PHB/ks

COVER LETTER WITH GRID DEFINITION

PAGE 2

The information contained in this report represents the results of a Ground Penetrating Radar (GPR) survey conducted on (November 11, 1996) for (LMS Engineering) at the (1) property location of (29 New York Avenue, Westbury, NY) .

The grid for this survey was set up on 2' traverses with transects (@ 90 degree's) the same.

Sub-Surface Informational Surveys, Inc. uses a Subsurface Interface Radar (SIR) System-3 for all of it's surveys. The SIR technique utilizes a high frequency impulse radar technology to obtain a continuous high resolution profile of the subsurface. The system radiates repetitive short-term duration electromagnetic pulses into a dielectric material from a broad band width antenna electromagnetically coupled to the ground surface. The system functions as an echo sounding system using EM impulses of only a few nanoseconds (a billionth of a second) duration and is able to detect the exact location and measure the approximate depth of reflected targets.

The SIR System-3 used in this investigation consisted of a radar control unit, a line scan graph recorder, and a high frequency transmitter/receiver antenna across the soil/tar to be scanned. The pulses are transmitted into the subsurface and reflected by buried objects within. Reflected signals are detected, processed by the control electronics and printed on the graph recorder. The recorder produces an image by printing strong signals as black and weak signals as white. Intermediate signals such as noise between the surface and interface reflection are in the gray range. By adjusting threshold and controlling gain levels, and the timing function, a quality profile will be obtained.

Subsurface objects reflect EM pulses and produce a "Hyperbola" that identifies precisely the location of the center of the target.

GENERAL MAPS AND/OR SITE MAPS

PAGE 3

Any and all site maps and/or plans that have been supplied by you have been duplicated and are part of this report. These are used for reference only and are not necessarily to scale.

NOTE:

THE SUB-SURFACE DRAWINGS CONTAINED IN THIS REPORT ARE NOT MEANT TO BE CAD DRAWINGS. THE PURPOSE OF OUR DRAWINGS ARE TO IDENTIFY THE LOCATION AND/OR ORIENTATION OF SUSPECTED ANOMALIES. THESE DRAWINGS ARE NOT TO SCALE

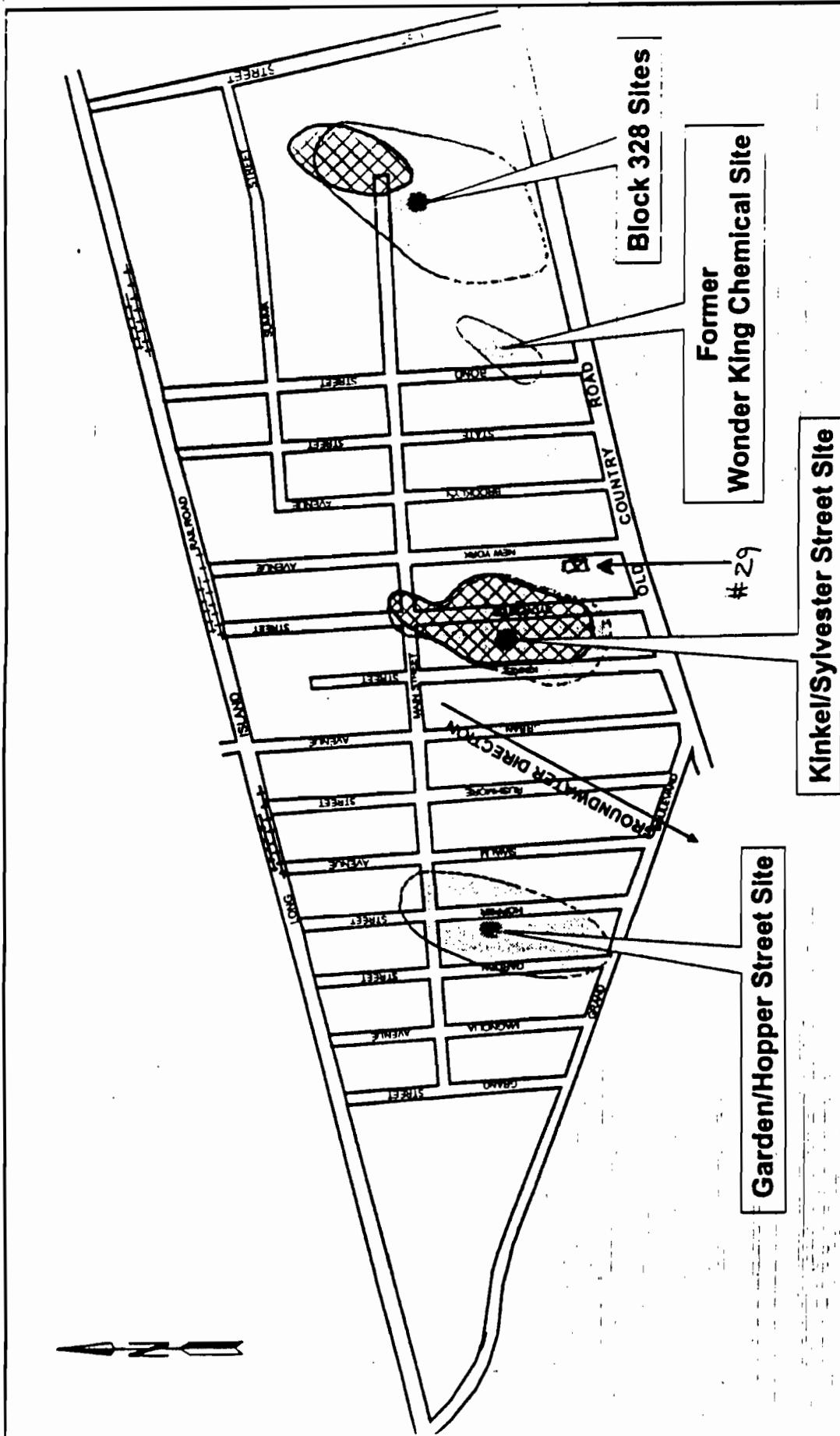


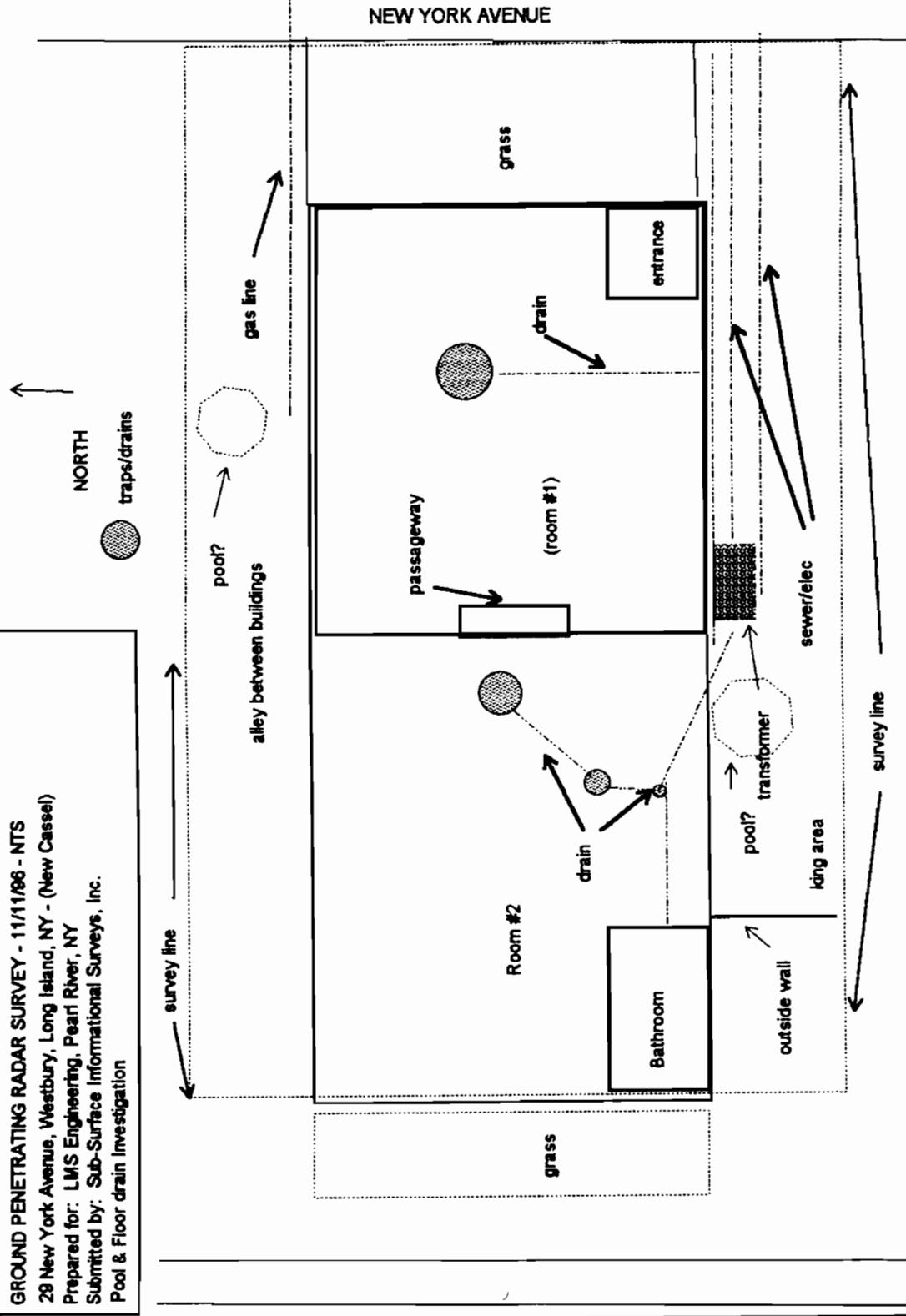
FIGURE 2
SITE PLAN

NEW CASSEL INDUSTRIAL AREA
NYSDDEC I.D. NO. 130043
LAWLER, MATUSKY & SKELLY ENGINEERS
Pearl River, New York

APPROPXIMATE SCALE
1 in. = 500 ft
1121pmw.dwg



GROUND PENETRATING RADAR SURVEY - 11/11/06 - NTS
28 New York Avenue, Westbury, Long Island, NY - (New Cassel)
Prepared for: LMS Engineering, Pearl River, NY
Submitted by: Sub-Surface Informational Surveys, Inc.
Pool & Floor drain investigation



GPR OVERVIEW & EXPLANATION

PAGE 4

THE ATTACHED PROFILE COPIES ARE A VERY SMALL PORTION OF THE ACTUAL PROFILES TAKEN DURING THIS SURVEY. SOME OF THESE PROFILES HAVE BEEN REDUCED 65% FOR BETTER VIEWING. THE AREA'S OF CONCERN (AOC) HAVE BEEN HIGHLIGHTED IN (YELLOW) FOR QUICK REFERENCE.

THIS REPORT HAS BEEN BROKEN DOWN INTO SECTOR'S. A SECTOR CHANGE WOULD OCCUR WHEN THERE ARE SIGNIFICANT CHANGES IN THE TERRAIN FROM ONE AREA TO ANOTHER OR CHANGE IN VEHICLE/COMPUTER POSITION. (Example: If we had two area's to be surveyed such as a parking lot and a field, we would break this down into two separate sector's for quick & easy reference. Inside of buildings we may break each room or corridor down by sector's)

P-1 through P-4 represents individual transects (@ 90 degree's) of a suspected drain pipe from the former bathroom area in Room #1. This suspect pipe appears to run in a southerly direction to the outside.

P-5 shows a traverse running parallel to New York Avenue running from the south side of room #1 to the north side. The two bench marks (BM) are as we enter the former bathroom area showing what appears to be some of the connecting pipes to the drain area.

P-6 and P-7 appear to show a hyperbolic feature of the continuation of the floor drain from room #2. (see overview for their orientation)

P-8 shows two anomalies. It shows a pipe which was marked on site along with a homogeneous area which was marked a possible pool area.

P-9 represents a traverse on the north side of the building (outside) showing another suspected pipe and a homogeneous area which was also noted.

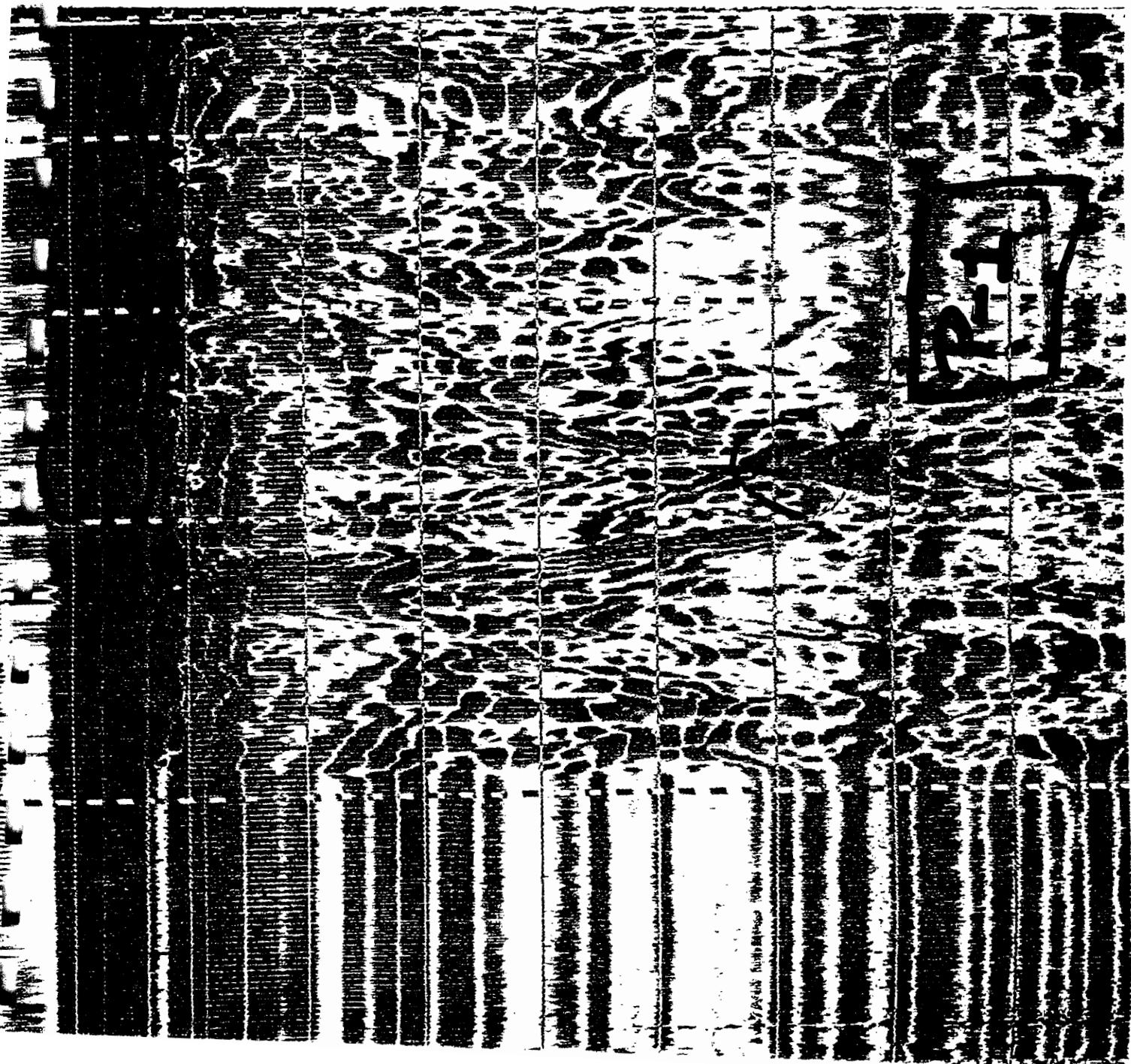
Both of the homogeneous area's appeared to be small (10' X 10") and were marked on site as AOC's.

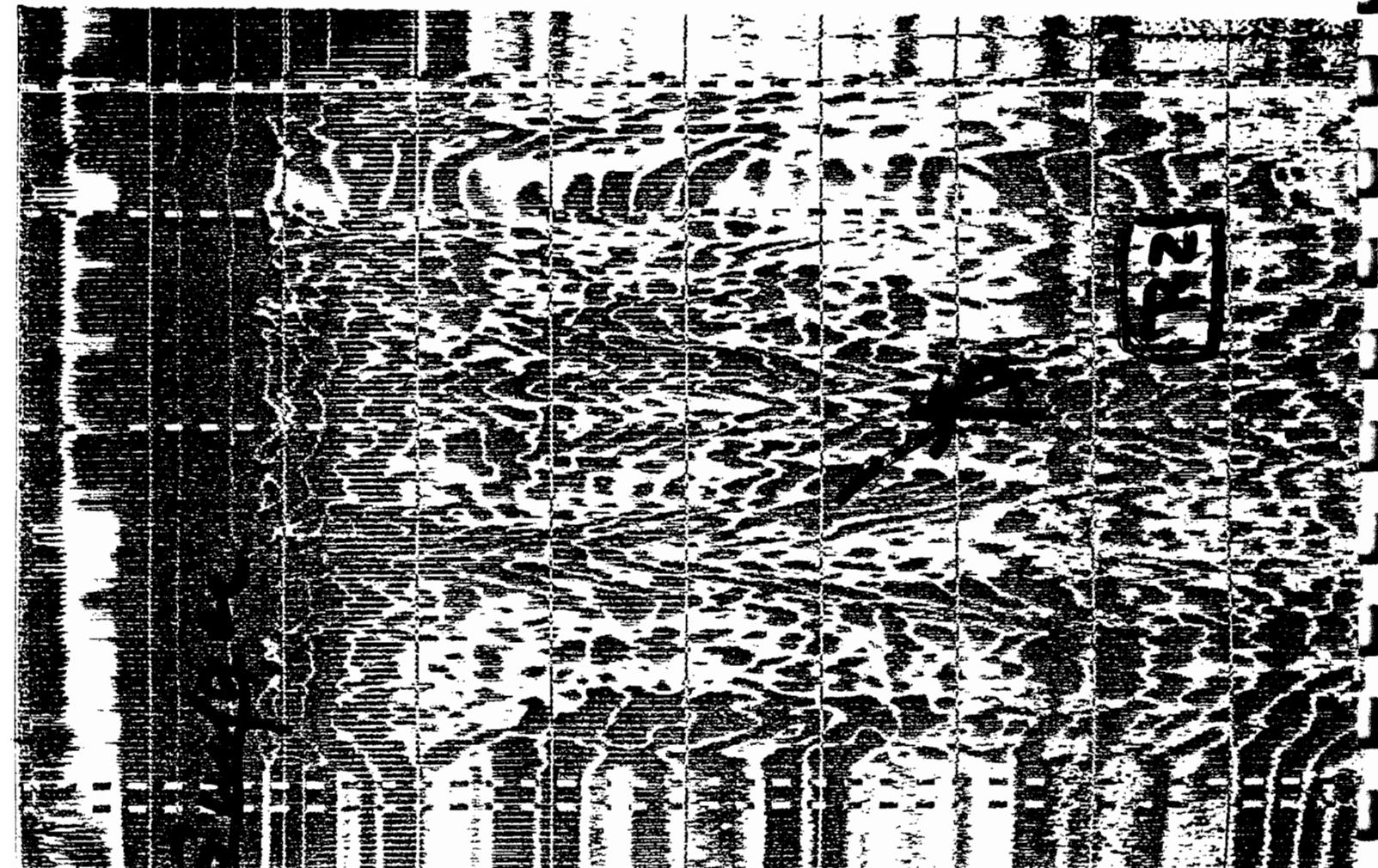
(EOS)

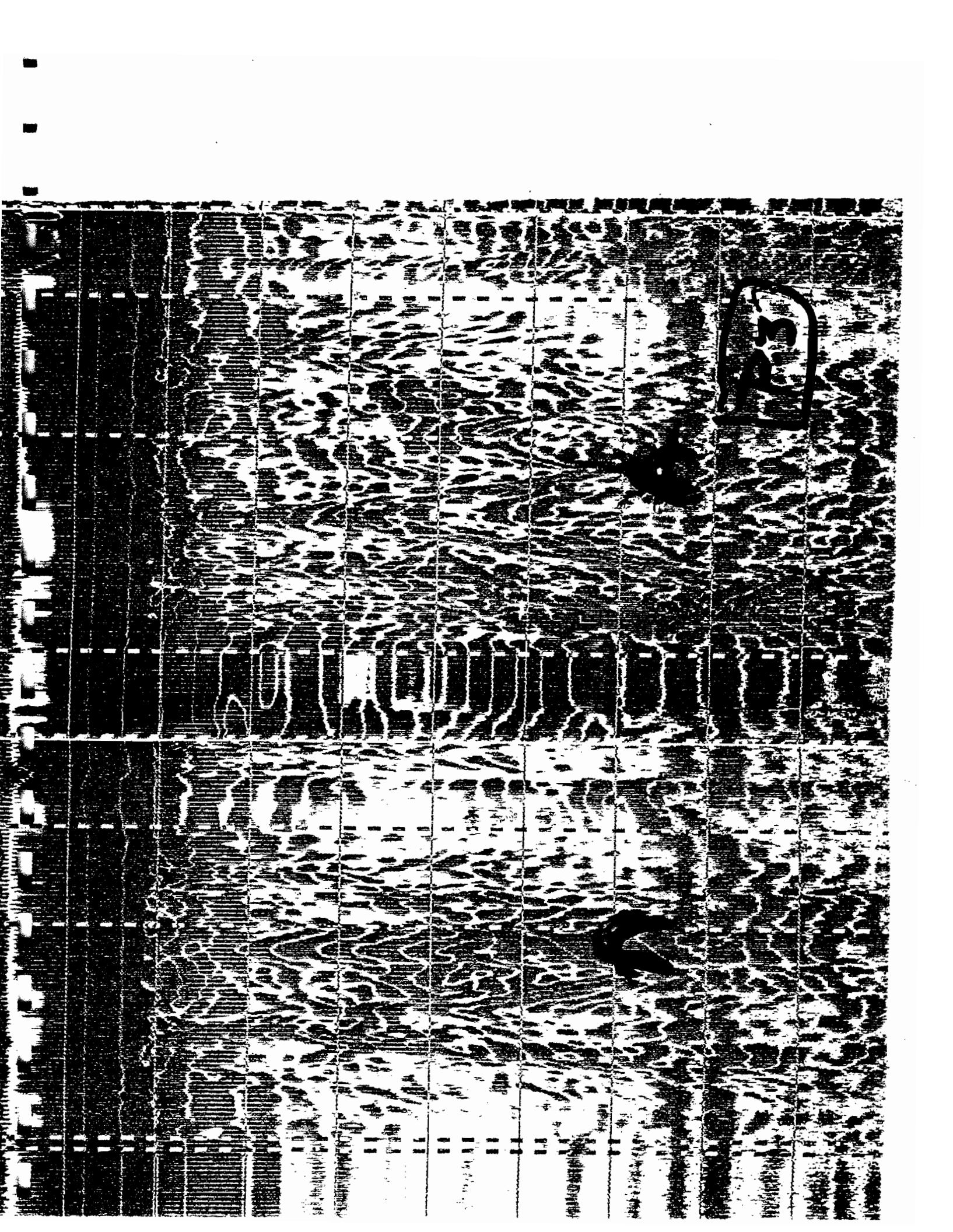
PROFILE COPIES OBTAINED ON SITE

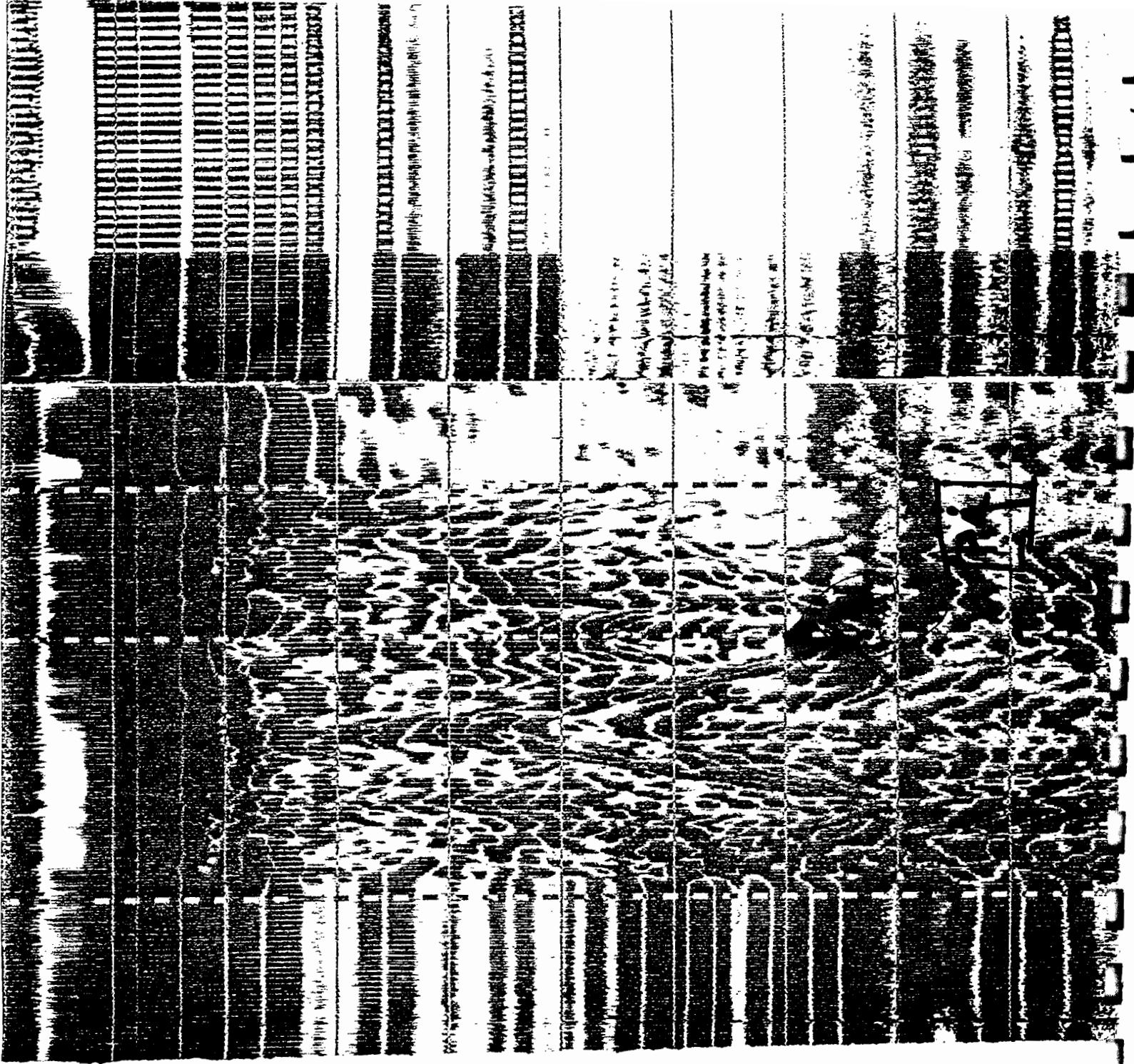
PAGE 5

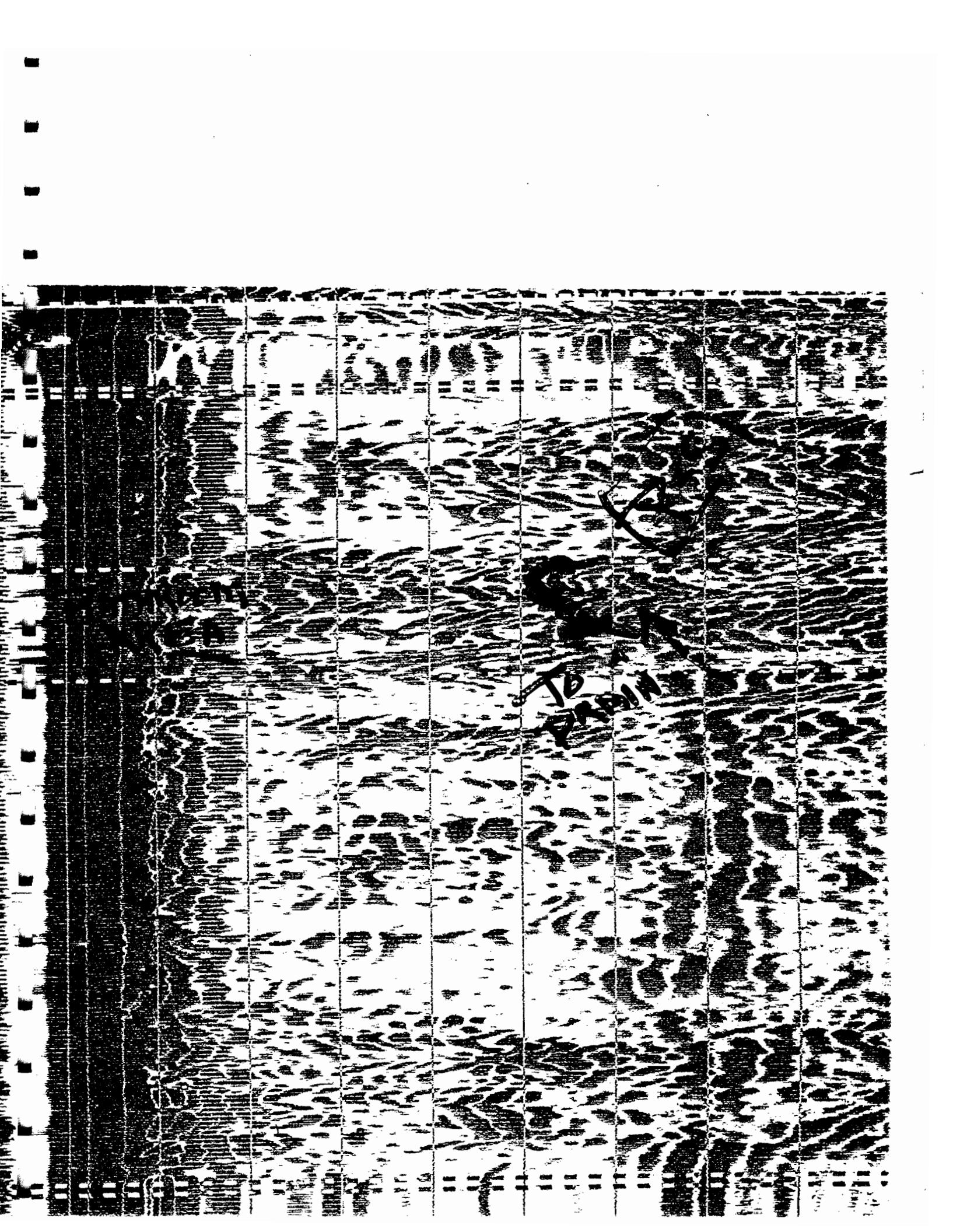
The attached profile copies are a very small portion of the actual profiles taken during the survey. Some of these profiles have been reduced up to 65% for better viewing of an individual traverse. The area's of concern (AOC) have been highlighted for your quick reference

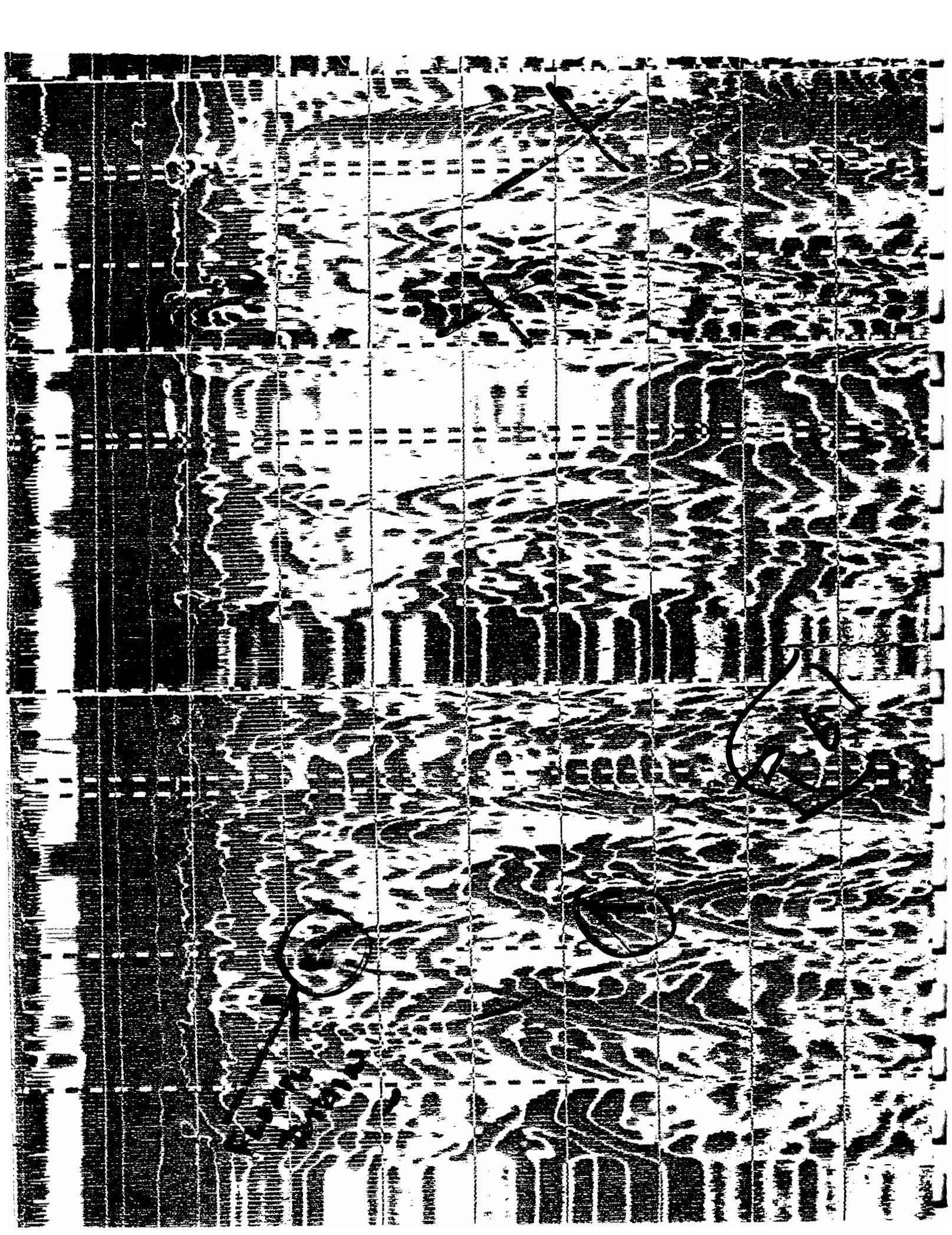














~~TO
OUT~~



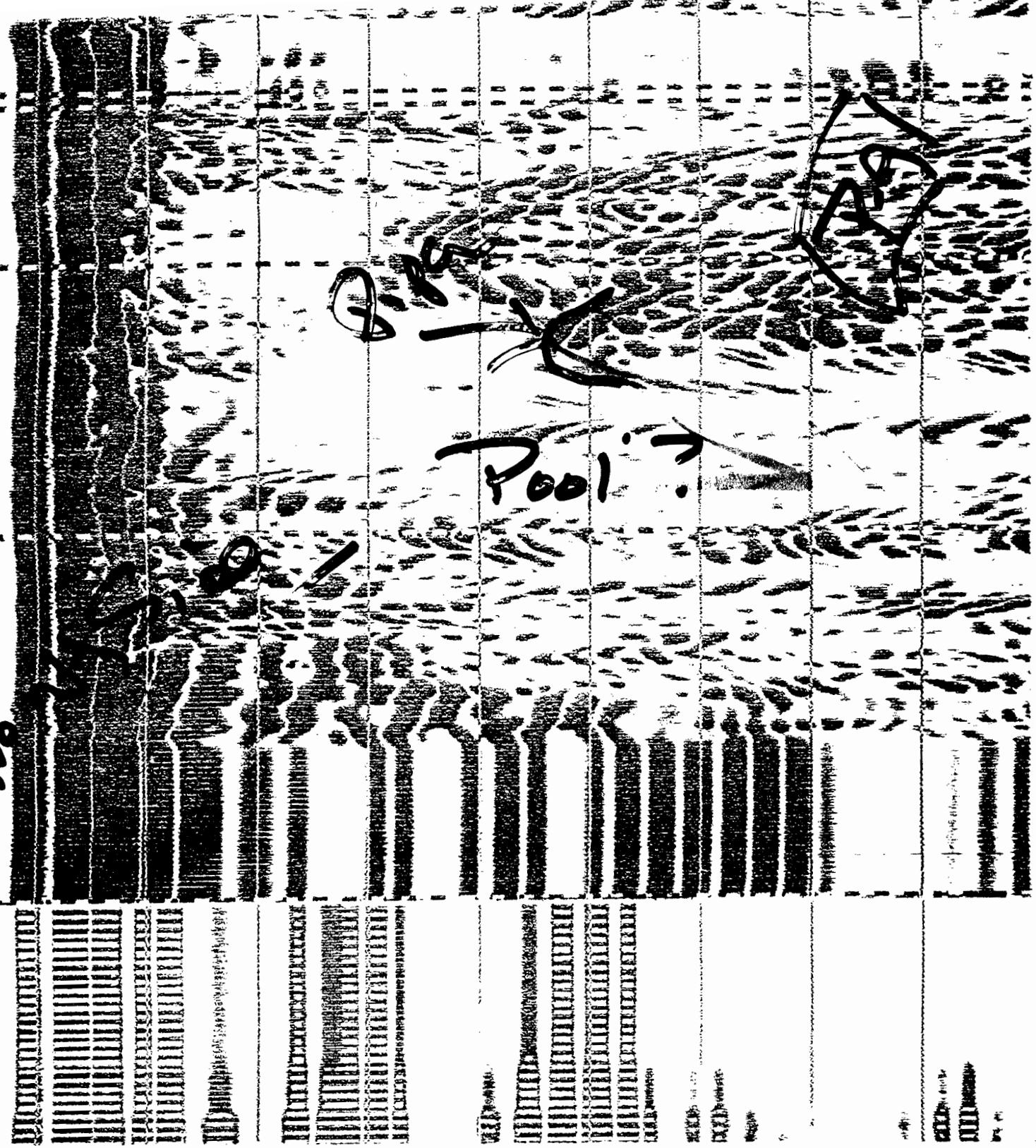
Abnormal
Activity

Q301

marked
on

S. da mass

by suspended
pool



AS

OTHER APPLICATIONS/ADD'L INFORMATION

PAGE 6

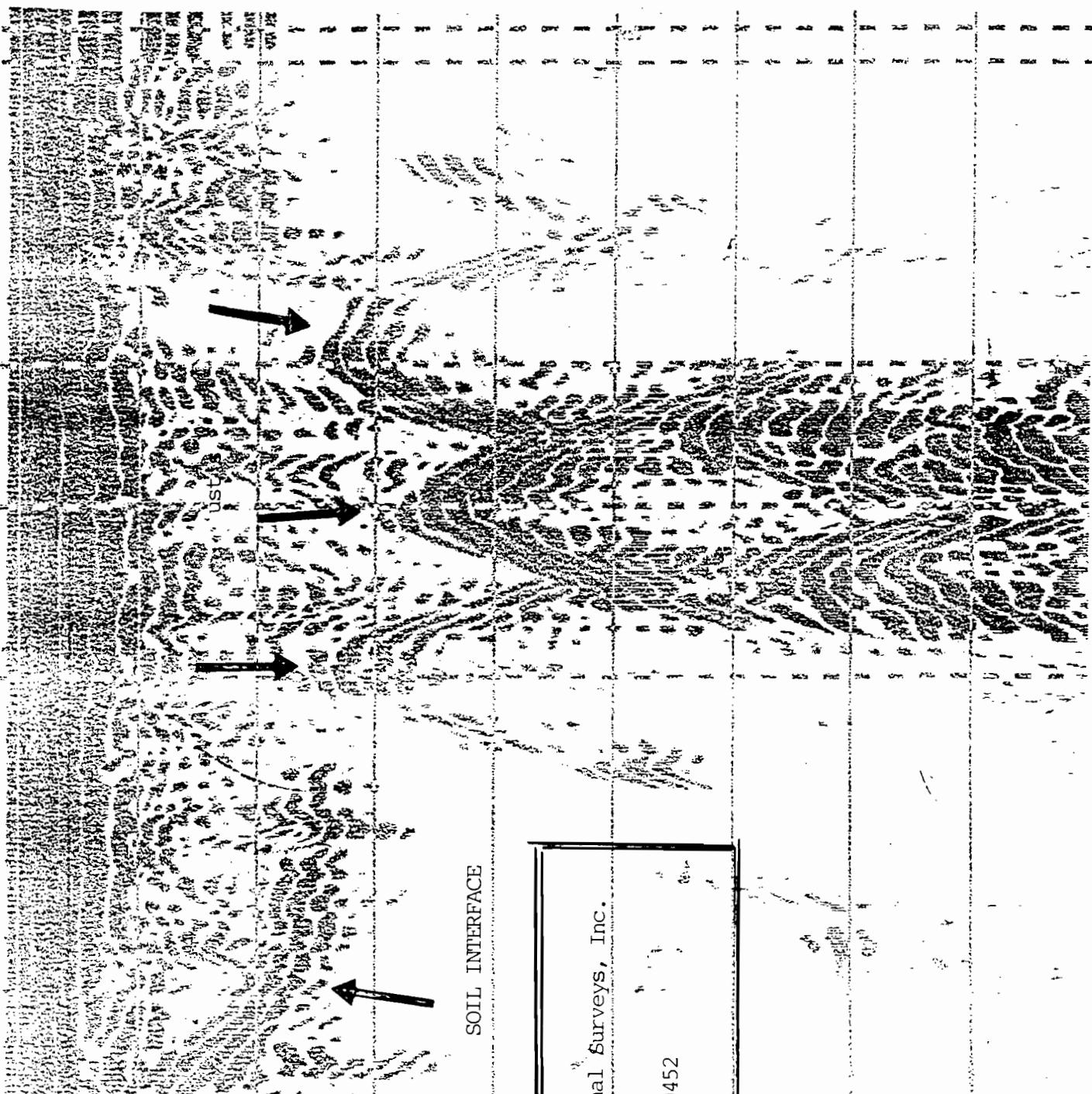
Additional information may be requested as part of this report such as comparative profiles of similar anomalies or specific information relating to other definitive applications.

Sub-Surface Informational Surveys, Inc. has been a leader in the ground penetrating radar (GPR) industry. In addition to GPR, ferromagnetic magnetometers are used in all of our surveys as needed to get the end results for you, our customer. We service all of the New England area as well as all of New York State and New Jersey.

Offices in Connecticut & Massachusetts

Founded 1988

The profile on right represents three separate UST's located in the center of E. Longmeadow, Mass. Notice soil interface on left of profile which shows that at some point there was excavation in the area of concern.



This visual profile was seen immediately upon transducer passing over the top of the tank

SOIL INTERFACE

This service is provided by Sub-Surface Informational Surveys, Inc.
143E Shaker Rd.,
POB 452
E. Longmeadow, Ma. 01028-0452
(413) 525-4666

- - - - -

SVOC ANALYTICAL DATA

1 2 3 4 5 6 7 8 9

LAWLER, MATUSKY &
SKELLY ENGINEERS LLP

DEC 02 1996

For Hazardous Waste Section

SAMPLE DATA SUMMARY PACKAGE

LAB CODE: INCHVT

CONTRACT NO.: 95212

CASE NO.: 95212

SDG NO.: 62586

*New Cassel PSA
Project # 650 - 622 - 626*



Inchcape Testing Services



Inchcape Testing Services

Environmental Laboratories

55 South Park Drive
Colchester, VT 05446
Tel. 802-655-1203
Fax. 802-655-1248

November 29, 1996

LAWLER, MATUSKY &
SKELLY ENGINEERS LLP

DEC 02 1996

Ms. Maria Heincz
Lawler, Matusky and Skelly Engineers
One Blue Hill Plaza
Pearl River, NY 10965

For Hazardous Waste Section

Re: LMS Project Name: LMS NYS Standby
Project No. 95212; Case 95212; SDG 62586

Dear Ms. Heincz:

Enclosed are the analytical results for samples received intact by ITS Laboratories on November 13, 1996. Laboratory numbers and quality control samples were assigned as follows:

<u>Lab Id</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
---------------	-------------------------	--------------------	----------------------

Received on: 11/13/96 ETR No. 62586

318889	SGP247810	11/12/96	Soil
318890	MSB		Solid

For the benefit of interested parties, documentation of sample handling and preparation is included at the end of the "Sample Data Package". A colored sheet of paper entitled "Sample Preparation Package" has been used to explicitly mark the location of these documents.

If there are any questions regarding this submittal, please contact Christopher A. Ouellette at (802) 655-1203.

Sincerely,

Karen R. Chirgwin
Karen R. Chirgwin
Laboratory Operations Director

KRC/bss
Enclosure

201

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SGP247810

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVHT Case No.: 95212 SAS No.: SDG No.: 62586

Matrix: (soil/water) SOIL Lab Sample ID: 318889

Sample wt/vol: 2.0 (g/mL) G Lab File ID: R318889DS

Level: (low/med) MED Date Received: 11/13/96

% Moisture: 47 decanted: (Y/N) N Date Extracted: 11/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/25/96

Injection Volume: 2.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 6.6

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
---------	----------	-----------------	-------	---

108-95-2-----	Phenol	380000	U
111-44-4-----	bis(2-Chloroethyl) Ether	380000	U
95-57-8-----	2-Chlorophenol	380000	U
541-73-1-----	1,3-Dichlorobenzene	380000	U
106-46-7-----	1,4-Dichlorobenzene	380000	U
95-50-1-----	1,2-Dichlorobenzene	380000	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	380000	U
95-48-7-----	2-Methylphenol	380000	U
621-64-7-----	N-Nitroso-di-n-propylamine	380000	U
67-72-1-----	Hexachloroethane	380000	U
106-44-5-----	4-Methylphenol	110000	J
98-95-3-----	Nitrobenzene	380000	U
78-59-1-----	Isophorone	380000	U
88-75-5-----	2-Nitrophenol	380000	U
105-67-9-----	2,4-Dimethylphenol	380000	U
111-91-1-----	bis(2-Chloroethoxy)methane	380000	U
120-83-2-----	2,4-Dichlorophenol	380000	U
120-82-1-----	1,2,4-Trichlorobenzene	380000	U
91-20-3-----	Naphthalene	380000	U
106-47-8-----	4-Chloroaniline	380000	U
87-68-3-----	Hexachlorobutadiene	380000	U
59-50-7-----	4-Chloro-3-Methylphenol	380000	U
91-57-6-----	2-Methylnaphthalene	380000	U
77-47-4-----	Hexachlorocyclopentadiene	380000	U
88-06-2-----	2,4,6-Trichlorophenol	380000	U
95-95-4-----	2,4,5-Trichlorophenol	940000	U
91-58-7-----	2-Chloronaphthalene	380000	U
88-74-4-----	2-Nitroaniline	940000	U
131-11-3-----	Dimethylphthalate	380000	U
208-96-8-----	Acenaphthylene	380000	U
606-20-2-----	2,6-Dinitrotoluene	380000	U
83-32-9-----	Acenaphthene	380000	U
99-09-2-----	3-Nitroaniline	940000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SGP247810

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Matrix: (soil/water) SOIL Lab Sample ID: 318889

Sample wt/vol: 2.0 (g/mL) G Lab File ID: R318889DS

Level: (low/med) MED Date Received: 11/13/96

% Moisture: 47 decanted: (Y/N) N Date Extracted: 11/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/25/96

Injection Volume: 2.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 6.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
---------	----------	---	-------	---

51-28-5-----	2,4-Dinitrophenol	940000	U
132-64-9-----	Dibenzofuran	380000	U
121-14-2-----	2,4-Dinitrotoluene	380000	U
100-02-7-----	4-Nitrophenol	940000	U
84-66-2-----	Diethylphthalate	380000	U
86-73-7-----	Fluorene	380000	U
7005-72-3-----	4-Chlorophenyl-phenylether	380000	U
100-01-6-----	4-Nitroaniline	940000	U
86-30-6-----	N-nitrosodiphenylamine (1)	380000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	940000	U
101-55-3-----	4-Bromophenyl-phenylether	380000	U
118-74-1-----	Hexachlorobenzene	380000	U
87-86-5-----	Pentachlorophenol	940000	U
85-01-8-----	Phenanthrene	380000	U
120-12-7-----	Anthracene	380000	U
86-74-8-----	Carbazole	380000	U
84-74-2-----	Di-n-butylphthalate	380000	U
206-44-0-----	Fluoranthene	380000	U
129-00-0-----	Pyrene	380000	U
85-68-7-----	Butylbenzylphthalate	380000	U
56-55-3-----	Benzo(a)anthracene	380000	U
91-94-1-----	3,3'-Dichlorobenzidine	380000	U
218-01-9-----	Chrysene	380000	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	75000	J
117-84-0-----	Di-n-octylphthalate	380000	U
205-99-2-----	Benzo(b)fluoranthene	380000	U
207-08-9-----	Benzo(k)fluoranthene	380000	U
50-32-8-----	Benzo(a)pyrene	380000	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	380000	U
53-70-3-----	Dibenz(a,h)anthracene	380000	U
191-24-2-----	Benzo(g,h,i)perylene	380000	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SGP247810

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Matrix: (soil/water) SOIL Lab Sample ID: 318889

Sample wt/vol: 2.0 (g/mL) G Lab File ID: R318889DS

Level: (low/med) MED Date Received: 11/13/96

% Moisture: 47 decanted: (Y/N) N Date Extracted: 11/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/25/96

Injection Volume: 2.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 6.6

CONCENTRATION UNITS:

Number TICs found: 20

(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALKANE	7.36	150000	J
2. 116-53-0	BUTANOIC ACID, 2-METHYL-	7.93	200000	NJ
3.	UNKNOWN ALKANE	8.22	180000	J
4.	UNKNOWN ALKANE	8.66	810000	J
5.	UNKNOWN ALKYL CYCLOHEXANE	9.14	240000	J
6.	UNKNOWN ALKANE	9.37	220000	J
7.	UNKNOWN ALKANE	9.45	170000	J
8.	UNKNOWN ALKANE	9.52	200000	J
9.	UNKNOWN ALKANE	10.05	170000	J
10.	UNKNOWN ALKANE	15.46	140000	J
11. 57-10-3	HEXADECANOIC ACID	17.40	680000	NJ
12. 544-63-8	TETRADECANOIC ACID	18.73	990000	NJ
13.	UNKNOWN ALIPHATIC KETONE	20.75	300000	J
14.	UNKNOWN ALKANE	21.42	240000	J
15.	UNKNOWN ALKANE	21.56	280000	J
16.	UNKNOWN ALIPHATIC ACID	21.81	220000	J
17.	UNKNOWN ALKANE	22.00	690000	J
18.	UNKNOWN POLYCYCLIC HYDROCARB	24.26	200000	J
19. 59-02-9	VITAMIN E	24.36	520000	NJ
20. 59-02-9	VITAMIN E	24.71	3900000	NJ
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKT5

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Matrix: (soil/water) SOIL Lab Sample ID: SBLKT5

Sample wt/vol: 2.0 (g/mL) G Lab File ID: RB1118T5S

Level: (low/med) MED Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/25/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
---------	----------	---	-------	---

108-95-2-----	Phenol	10000	U
111-44-4-----	bis(2-Chloroethyl) Ether	10000	U
95-57-8-----	2-Chlorophenol	10000	U
541-73-1-----	1,3-Dichlorobenzene	10000	U
106-46-7-----	1,4-Dichlorobenzene	10000	U
95-50-1-----	1,2-Dichlorobenzene	10000	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10000	U
95-48-7-----	2-Methylphenol	10000	U
621-64-7-----	N-Nitroso-di-n-propylamine	10000	U
67-72-1-----	Hexachloroethane	10000	U
106-44-5-----	4-Methylphenol	10000	U
98-95-3-----	Nitrobenzene	10000	U
78-59-1-----	Isophorone	10000	U
88-75-5-----	2-Nitrophenol	10000	U
105-67-9-----	2,4-Dimethylphenol	10000	U
111-91-1-----	bis(2-Chloroethoxy)methane	10000	U
120-83-2-----	2,4-Dichlorophenol	10000	U
120-82-1-----	1,2,4-Trichlorobenzene	10000	U
91-20-3-----	Naphthalene	10000	U
106-47-8-----	4-Chloroaniline	10000	U
87-68-3-----	Hexachlorobutadiene	10000	U
59-50-7-----	4-Chloro-3-Methylphenol	10000	U
91-57-6-----	2-Methylnaphthalene	10000	U
77-47-4-----	Hexachlorocyclopentadiene	10000	U
88-06-2-----	2,4,6-Trichlorophenol	10000	U
95-95-4-----	2,4,5-Trichlorophenol	25000	U
91-58-7-----	2-Chloronaphthalene	10000	U
88-74-4-----	2-Nitroaniline	25000	U
131-11-3-----	Dimethylphthalate	10000	U
208-96-8-----	Acenaphthylene	10000	U
606-20-2-----	2,6-Dinitrotoluene	10000	U
83-32-9-----	Acenaphthene	10000	U
99-09-2-----	3-Nitroaniline	25000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKT5

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Matrix: (soil/water) SOIL Lab Sample ID: SBLKT5

Sample wt/vol: 2.0 (g/mL) G Lab File ID: RB1118T5S

Level: (low/med) MED Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/25/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
---------	----------	---	-------	---

51-28-5-----	2,4-Dinitrophenol	25000	U
132-64-9-----	Dibenzofuran	10000	U
121-14-2-----	2,4-Dinitrotoluene	10000	U
100-02-7-----	4-Nitrophenol	25000	U
84-66-2-----	Diethylphthalate	10000	U
86-73-7-----	Fluorene	10000	U
7005-72-3-----	4-Chlorophenyl-phenylether	10000	U
100-01-6-----	4-Nitroaniline	25000	U
86-30-6-----	N-nitrosodiphenylamine (1)	10000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25000	U
101-55-3-----	4-Bromophenyl-phenylether	10000	U
118-74-1-----	Hexachlorobenzene	10000	U
87-86-5-----	Pentachlorophenol	25000	U
85-01-8-----	Phenanthrene	10000	U
120-12-7-----	Anthracene	10000	U
86-74-8-----	Carbazole	10000	U
84-74-2-----	Di-n-butylphthalate	10000	U
206-44-0-----	Fluoranthene	10000	U
129-00-0-----	Pyrene	10000	U
85-68-7-----	Butylbenzylphthalate	10000	U
56-55-3-----	Benzo(a)anthracene	10000	U
91-94-1-----	3,3'-Dichlorobenzidine	10000	U
218-01-9-----	Chrysene	10000	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10000	U
117-84-0-----	Di-n-octylphthalate	10000	U
205-99-2-----	Benzo(b)fluoranthene	10000	U
207-08-9-----	Benzo(k)fluoranthene	10000	U
50-32-8-----	Benzo(a)pyrene	10000	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10000	U
53-70-3-----	Dibenz(a,h)anthracene	10000	U
191-24-2-----	Benzo(g,h,i)perylene	10000	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKT5

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Matrix: (soil/water) SOIL Lab Sample ID: SBLKT5

Sample wt/vol: 2.0 (g/mL) G Lab File ID: RB1118T5S

Level: (low/med) MED Date Received: _____

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 11/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/25/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	6.60	12000	NJA
2.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBS

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVTT Case No.: 95212 SAS No.: SDG No.: 62586

Matrix: (soil/water) SOIL Lab Sample ID: 318890

Sample wt/vol: 2.0 (g/mL) G Lab File ID: R318890S

Level: (low/med) MED Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/25/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2-----	Phenol	64000	
111-44-4-----	bis(2-Chloroethyl) Ether	10000	U
95-57-8-----	2-Chlorophenol	71000	
541-73-1-----	1,3-Dichlorobenzene	10000	U
106-46-7-----	1,4-Dichlorobenzene	42000	
95-50-1-----	1,2-Dichlorobenzene	10000	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10000	U
95-48-7-----	2-Methylphenol	10000	U
621-64-7-----	N-Nitroso-di-n-propylamine	46000	
67-72-1-----	Hexachloroethane	10000	U
106-44-5-----	4-Methylphenol	10000	U
98-95-3-----	Nitrobenzene	10000	U
78-59-1-----	Isophorone	10000	U
88-75-5-----	2-Nitrophenol	10000	U
105-67-9-----	2,4-Dimethylphenol	10000	U
111-91-1-----	bis(2-Chloroethoxy)methane	10000	U
120-83-2-----	2,4-Dichlorophenol	10000	U
120-82-1-----	1,2,4-Trichlorobenzene	44000	
91-20-3-----	Naphthalene	10000	U
106-47-8-----	4-Chloroaniline	10000	U
87-68-3-----	Hexachlorobutadiene	10000	U
59-50-7-----	4-Chloro-3-Methylphenol	64000	
91-57-6-----	2-Methylnaphthalene	10000	U
77-47-4-----	Hexachlorocyclopentadiene	10000	U
88-06-2-----	2,4,6-Trichlorophenol	10000	U
95-95-4-----	2,4,5-Trichlorophenol	25000	U
91-58-7-----	2-Chloronaphthalene	10000	U
88-74-4-----	2-Nitroaniline	25000	U
131-11-3-----	Dimethylphthalate	10000	U
208-96-8-----	Acenaphthylene	10000	U
606-20-2-----	2,6-Dinitrotoluene	10000	U
83-32-9-----	Acenaphthene	41000	
99-09-2-----	3-Nitroaniline	25000	U

MONITOR

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBS

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Matrix: (soil/water) SOIL Lab Sample ID: 318890

Sample wt/vol: 2.0 (g/mL) G Lab File ID: R318890S

Level: (low/med) MED Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/25/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	25000	U	
132-64-9-----	Dibenzofuran	10000	U	
121-14-2-----	2,4-Dinitrotoluene	44000		
100-02-7-----	4-Nitrophenol	55000		
84-66-2-----	Diethylphthalate	10000	U	
86-73-7-----	Fluorene	10000	U	
7005-72-3-----	4-Chlorophenyl-phenylether	10000	U	
100-01-6-----	4-Nitroaniline	25000	U	
86-30-6-----	N-nitrosodiphenylamine (1)	10000	U	
534-52-1-----	4,6-Dinitro-2-methylphenol	25000	U	
101-55-3-----	4-Bromophenyl-phenylether	10000	U	
118-74-1-----	Hexachlorobenzene	10000	U	
87-86-5-----	Pentachlorophenol	70000		
85-01-8-----	Phenanthrene	10000	U	
120-12-7-----	Anthracene	10000	U	
86-74-8-----	Carbazole	10000	U	
84-74-2-----	Di-n-butylphthalate	10000	U	
206-44-0-----	Fluoranthene	10000	U	
129-00-0-----	Pyrene	52000		
85-68-7-----	Butylbenzylphthalate	10000	U	
56-55-3-----	Benzo(a)anthracene	10000	U	
91-94-1-----	3,3'-Dichlorobenzidine	10000	U	
218-01-9-----	Chrysene	10000	U	
117-81-7-----	bis(2-Ethylhexyl)phthalate	10000	U	
117-84-0-----	Di-n-octylphthalate	10000	U	
205-99-2-----	Benzo(b)fluoranthene	10000	U	
207-08-9-----	Benzo(k)fluoranthene	10000	U	
50-32-8-----	Benzo(a)pyrene	10000	U	
193-39-5-----	Indeno(1,2,3-cd)pyrene	10000	U	
53-70-3-----	Dibenz(a,h)anthracene	10000	U	
191-24-2-----	Benzo(g,h,i)perylene	10000	U	

(1) - Cannot be separated from Diphenylamine

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Level: (low/med) MED

	EPA SAMPLE NO.	S1 (2FP) #	S2 (PHL) #	S3 (2CP) #	S4 (DCB) #	S5 (NBZ) #	S6 (FBP) #	S7 (TBP) #	S8 (TPH) #	TOT OUT
01	SBLKT5	95	86	89	103	95	88	85	70	0
02	MBS	100	95	99	103	95	86	96	102	0
03	SGP247810	92	73	86	95	72	83	60	87	0
04										
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QC LIMITS		
S1 (2FP)	= 2-Fluorophenol	(25-121)
S2 (PHL)	= Phenol-d5	(24-113)
S3 (2CP)	= 2-Chlorophenol-d4	(20-130) (advisory)
S4 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130) (advisory)
S5 (NBZ)	= Nitrobenzene-d5	(23-120)
S6 (FBP)	= 2-Fluorobiphenyl	(30-115)
S7 (TBP)	= 2,4,6-Tribromophenol	(19-122)
S8 (TPH)	= Terphenyl-d14	(18-137)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogate diluted out

000009

FORM 3
SOIL SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Matrix Spike - LAWMAT Sample No.: MBS Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC. LIMITS REC.
Phenol	75000		64000	85	26- 90
2-Chlorophenol	75000		71000	95	25-102
1,4-Dichlorobenzene	50000		42000	84	28-104
N-Nitroso-di-n-prop. (1)	50000		46000	92	41-126
1,2,4-Trichlorobenzene	50000		44000	88	38-107
4-Chloro-3-Methylphenol	75000		64000	85	26-103
Acenaphthene	50000		41000	82	31-137
2,4-Dinitrotoluene	50000		44000	88	28- 89
4-Nitrophenol	75000		55000	73	11-114
Pentachlorophenol	75000		70000	93	17-109
Pyrene	50000		52000	104	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS: _____

4B
SEMITVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKT5

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Lab File ID: RB1118T5S Lab Sample ID: SBLKT5

Instrument ID: R Date Extracted: 11/18/96

Matrix: (soil/water) SOIL Date Analyzed: 11/25/96

Level: (low/med) MED Time Analyzed: 2237

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	MBS	318890	R318890S	11/25/96
02	SGP247810	318889	R318889DS	11/25/96
03				
04				
05				
06				
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COMMENTS:

5B
 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Lab File ID: RHX001PS DFTPP Injection Date: 11/25/96

Instrument ID: R DFTPP Injection Time: 0844

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.0
68	Less than 2.0% of mass 69	0.2 (0.4)1
69	Mass 69 relative abundance	49.6
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	40.0 - 60.0% of mass 198	51.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	16.9
365	Greater than 1.0% of mass 198	2.07
441	Present, but less than mass 443	7.7
442	40.0 - 110.0% of mass 198	53.5
443	17.0 - 23.0% of mass 442	10.5 (19.6)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 SSTD160	SSTD160	RHX160BS	11/25/96	0943
02 SSTD120	SSTD120	RHX120BS	11/25/96	1011
03 SSTD080	SSTD080	RHX080BS	11/25/96	1046
04 SSTD050	SSTD050	RHX050BS	11/25/96	1121
05 SSTD020	SSTD020	RHX010BS	11/25/96	1156
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5B
 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Lab File ID: RHX002PS DFTPP Injection Date: 11/25/96

Instrument ID: R DFTPP Injection Time: 2137

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	45.9
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	51.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	5.9
275	10.0 - 30.0% of mass 198	16.5
365	Greater than 1.0% of mass 198	1.94
441	Present, but less than mass 443	7.8
442	40.0 - 110.0% of mass 198	50.2
443	17.0 - 23.0% of mass 442	9.3 (18.5)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	RHX050ABS	11/25/96	2153
02 SBLKT5	SBLKT5	RB1118T5S	11/25/96	2237
03 MBS	318890	R318890S	11/25/96	2305
04 SGP247810	318889	R318889DS	11/25/96	2340
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6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Instrument ID: R Calibration Date(s): 11/25/96 11/25/96

Calibration Time(s): 0943 1156

LAB FILE ID: RRF80 =RHX080BS	RRF20 =RHX010BS	RRF50 =RHX050BS	RRF80 =RHX120BS	RRF120	RRF160	<u>RRF</u>	% RSD
COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	<u>RRF</u>	
Phenol	1.351	1.257	1.168	1.008	1.051	1.167	12.2
bis(2-Chloroethyl) Ether	1.070	1.018	0.955	0.825	0.793	0.932	12.9
2-Chlorophenol	0.989	0.910	0.846	0.742	0.737	0.845	12.9
1,3-Dichlorobenzene	1.403	1.242	1.161	0.999	0.985	1.158	15.1
1,4-Dichlorobenzene	1.430	1.246	1.172	1.013	1.009	1.174	15.0
1,2-Dichlorobenzene	1.311	1.140	1.051	0.914	0.924	1.068	15.5
2,2'-oxybis(1-Chloropropane)	1.381	1.220	1.130	1.009	1.087	1.165	12.2
2-Methylphenol	0.793	0.791	0.734	0.648	0.654	0.724	9.7
N-Nitroso-di-n-propylamine	* 0.572	0.506	0.478	0.438	0.460	0.491	10.6*
Hexachloroethane	0.376	0.354	0.331	0.298	0.301	0.332	10.1
4-Methylphenol	0.822	0.807	0.747	0.664	0.703	0.749	9.0
Nitrobenzene	0.349	0.338	0.312	0.277	0.279	0.311	10.6
Isophorone	0.683	0.691	0.621	0.585	0.564	0.629	9.1
2-Nitrophenol	0.273	0.294	0.269	0.244	0.238	0.264	8.6
2,4-Dimethylphenol	0.279	0.272	0.258	0.228	0.235	0.254	8.7
bis(2-Chloroethoxy)methane	0.461	0.440	0.405	0.357	0.348	0.402	12.4
2,4-Dichlorophenol	0.414	0.406	0.380	0.334	0.356	0.378	8.9
1,2,4-Trichlorobenzene	0.357	0.343	0.320	0.289	0.298	0.321	8.9
Naphthalene	1.078	0.923	0.858	0.728	0.744	0.866	16.6
4-Chloroaniline	0.442	0.446	0.411	0.380	0.374	0.411	8.2
Hexachlorobutadiene	0.093	0.098	0.091	0.086	0.086	0.091	5.3
4-Chloro-3-Methylphenol	0.234	0.273	0.239	0.227	0.245	0.244	7.2
2-Methylnaphthalene	0.866	0.759	0.706	0.622	0.638	0.718	13.8
Hexachlorocyclopentadiene	* 0.154	0.158	0.161	0.146	0.143	0.152	5.0*
2,4,6-Trichlorophenol	0.230	0.249	0.235	0.210	0.217	0.228	6.6
2,4,5-Trichlorophenol		0.262	0.248	0.229	0.242	0.245	5.5
2-Chloronaphthalene	1.315	1.042	1.012	0.858	0.818	1.009	19.4
2-Nitroaniline		0.251	0.240	0.215	0.223	0.232	7.1
Dimethylphthalate	1.531	1.239	1.170	1.005	0.988	1.187	18.6
Acenaphthylene	2.060	1.606	1.528	1.200	1.184	1.516	23.7
2,6-Dinitrotoluene	0.373	0.365	0.347	0.311	0.317	0.343	8.1
Acenaphthene	1.222	1.016	0.970	0.812	0.808	0.966	17.7
3-Nitroaniline		0.327	0.325	0.293	0.288	0.308	6.7
2,4-Dinitrophenol	*	0.162	0.157	0.151	0.148	0.154	4.0*
Dibenzofuran	1.635	1.314	1.258	1.039	1.037	1.257	19.6
2,4-Dinitrotoluene	0.492	0.462	0.452	0.414	0.409	0.446	7.8
4-Nitrophenol	*	0.076	0.075	0.070	0.069	0.072	4.9*

* Compounds with required minimum RRF and maximum %RSD values.

All other compounds must meet a minimum RRF of 0.010.

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Instrument ID: R Calibration Date(s): 11/25/96 11/25/96

Calibration Time(s): 0943 1156

LAB FILE ID: RRF80 =RHX080BS	RRF20 =RHX010BS	RRF50 =RHX050BS	RRF120	RRF160	<u>RRF</u>	% RSD
COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	<u>RRF</u>
Diethylphthalate	1.385	1.050	1.000	0.828	0.829	1.018 22.4
Fluorene	1.334	1.050	0.997	0.838	0.847	1.013 19.9
4-Chlorophenyl-phenylether	0.346	0.328	0.314	0.275	0.292	0.311 9.1
4-Nitroaniline		0.336	0.342	0.312	0.273	0.316 9.9
N-nitrosodiphenylamine (1)	0.840	0.794	0.731	0.643	0.647	0.731 12.0
4,6-Dinitro-2-methylphenol		0.158	0.152	0.150	0.147	0.152 3.0
4-Bromophenyl-phenylether	0.160	0.168	0.158	0.147	0.152	0.157 5.0
Hexachlorobenzene	0.196	0.197	0.184	0.175	0.173	0.185 6.2
Pentachlorophenol		0.119	0.121	0.114	0.115	0.117 2.9
Phenanthrene	1.443	1.231	1.174	0.971	0.970	1.158 17.1
Anthracene	1.480	1.224	1.153	0.951	0.941	1.150 19.3
Carbazole	1.423	1.245	1.198	1.019	0.951	1.167 16.1
Di-n-butylphthalate	1.994	1.389	1.330	1.929	1.965	1.721 19.3
Fluoranthene	0.908	0.781	0.804	0.694	0.664	0.770 12.6
Pyrene	1.660	1.748	1.493	1.331	1.341	1.515 12.4
Butylbenzylphthalate	1.667	1.530	1.363	1.168	1.209	1.387 15.2
Benzo(a)anthracene	1.222	1.160	1.107	0.977	1.002	1.094 9.5
3,3'-Dichlorobenzidine	0.439	0.463	0.472	0.439	0.429	0.448 4.0
Chrysene	1.134	1.066	1.027	0.934	0.935	1.019 8.5
bis(2-Ethylhexyl)phthalate	2.135	1.810	1.666	1.338	1.441	1.678 18.8
Di-n-octylphthalate	3.597	3.269	2.741	3.510	5.272	3.678 25.9
Benzo(b)fluoranthene	1.238	1.413	1.261	1.219	1.219	1.270 6.4
Benzo(k)fluoranthene	1.398	1.259	1.354	1.103	1.148	1.252 10.2
Benzo(a)pyrene	1.015	1.018	1.040	0.946	0.972	0.998 3.8
Indeno(1,2,3-cd)pyrene	0.956	0.953	0.908	0.808	0.918	0.909 6.6
Dibenz(a,h)anthracene	0.728	0.744	0.714	0.642	0.738	0.713 5.8
Benzo(g,h,i)perylene	0.734	0.718	0.673	0.584	0.668	0.675 8.7
2-Fluorophenol	0.820	0.818	0.788	0.677	0.660	0.753 10.4
Phenol-d5	1.146	1.084	1.018	0.891	0.912	1.010 10.8
2-Chlorophenol-d4	0.951	0.942	0.876	0.770	0.769	0.862 10.3
1,2-Dichlorobenzene-d4	0.869	0.831	0.784	0.699	0.713	0.779 9.4
Nitrobenzene-d5	0.396	0.393	0.364	0.326	0.322	0.360 9.9
2-Fluorobiphenyl	1.262	0.993	0.977	0.817	0.801	0.970 19.1
2,4,6-Tribromophenol	0.120	0.120	0.115	0.107	0.107	0.114 5.5
Terphenyl-d14	1.000	1.073	0.950	0.861	0.894	0.956 8.8

(1) Cannot be separated from Diphenylamine

* Compounds with required minimum RRF and maximum %RSD values.

All other compounds must meet a minimum RRF of 0.010.

7B
SEMITVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Instrument ID: R Calibration Date: 11/25/96 Time: 2153

Lab File ID: RHX050ABS Init. Calib. Date(s): 11/25/96 11/25/96

Init. Calib. Times: 0943 1156

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.167	1.276		9.3	25.0
bis(2-Chloroethyl) Ether	0.932	1.001		7.4	
2-Chlorophenol	0.845	0.909		7.6	
1,3-Dichlorobenzene	1.158	1.389		19.9	
1,4-Dichlorobenzene	1.174	1.450		23.5	25.0
1,2-Dichlorobenzene	1.068	1.312		22.8	
2,2'-oxybis(1-Chloropropane)	1.165	1.372		17.8	
2-Methylphenol	0.724	0.760		5.0	
N-Nitroso-di-n-propylamine	0.491	0.560	0.050	14.0	
Hexachloroethane	0.332	0.372		12.0	
4-Methylphenol	0.749	0.812		8.4	
Nitrobenzene	0.311	0.319		2.6	
Isophorone	0.629	0.685		8.9	
2-Nitrophenol	0.264	0.268		1.5	25.0
2,4-Dimethylphenol	0.254	0.278		9.4	
bis(2-Chloroethoxy)methane	0.402	0.458		13.9	
2,4-Dichlorophenol	0.378	0.432		14.3	25.0
1,2,4-Trichlorobenzene	0.321	0.350		9.0	
Naphthalene	0.866	1.043		20.4	
4-Chloroaniline	0.411	0.398		3.2	
Hexachlorobutadiene	0.091	0.091		0.0	25.0
4-Chloro-3-Methylphenol	0.244	0.252		3.3	25.0
2-Methylnaphthalene	0.718	0.853		18.8	
Hexachlorocyclopentadiene	0.152	0.137	0.050	9.9	
2,4,6-Trichlorophenol	0.228	0.239		4.8	25.0
2,4,5-Trichlorophenol	0.245	0.246		0.4	
2-Chloronaphthalene	1.009	1.280		26.8	
2-Nitroaniline	0.232	0.235		1.3	
Dimethylphthalate	1.187	1.359		14.5	
Acenaphthylene	1.516	2.018		33.1	
2,6-Dinitrotoluene	0.343	0.331		3.5	
Acenaphthene	0.966	1.190		23.2	25.0
3-Nitroaniline	0.308	0.320		3.9	
2,4-Dinitrophenol	0.154	0.114	0.050	26.0	
Dibenzofuran	1.257	1.505		19.7	
2,4-Dinitrotoluene	0.446	0.435		2.5	
4-Nitrophenol	0.072	0.066	0.050	8.3	

All other compounds must meet a minimum RRF of 0.010.

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Instrument ID: R Calibration Date: 11/25/96 Time: 2153

Lab File ID: RHX050ABS Init. Calib. Date(s): 11/25/96 11/25/96

Init. Calib. Times: 0943 1156

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.018	1.235		21.3	
Fluorene	1.013	1.192		17.7	
4-Chlorophenyl-phenylether	0.311	0.303		2.6	
4-Nitroaniline	0.316	0.287		9.2	
N-nitrosodiphenylamine(1)	0.731	0.827		13.1	25.0
4,6-Dinitro-2-methylphenol	0.152	0.122		19.7	
4-Bromophenyl-phenylether	0.157	0.156		0.6	
Hexachlorobenzene	0.185	0.184		0.5	
Pentachlorophenol	0.117	0.109		6.8	25.0
Phenanthrene	1.158	1.403		21.2	
Anthracene	1.150	1.413		22.9	
Carbazole	1.167	1.368		17.2	
Di-n-butylphthalate	1.721	2.010		16.8	
Fluoranthene	0.770	0.855		11.0	25.0
Pyrene	1.515	1.657		9.4	
Butylbenzylphthalate	1.387	1.745		25.8	
Benzo(a)anthracene	1.094	1.236		13.0	
3,3'-Dichlorobenzidine	0.448	0.461		2.9	
Chrysene	1.019	1.162		14.0	
bis(2-Ethylhexyl)phthalate	1.678	2.305		37.4	
Di-n-octylphthalate	3.678	3.731		1.4	25.0
Benzo(b)fluoranthene	1.270	1.242		2.2	
Benzo(k)fluoranthene	1.252	1.388		10.9	
Benzo(a)pyrene	0.998	1.069		7.1	25.0
Indeno(1,2,3-cd)pyrene	0.909	1.134		24.8	
Dibenz(a,h)anthracene	0.713	0.877		23.0	
Benzo(g,h,i)perylene	0.675	0.845		25.2	
2-Fluorophenol	0.753	0.779		3.4	
Phenol-d5	1.010	1.070		5.9	
2-Chlorophenol-d4	0.862	0.931		8.0	
1,2-Dichlorobenzene-d4	0.779	0.896		15.0	
Nitrobenzene-d5	0.360	0.365		1.4	
2-Fluorobiphenyl	0.970	1.226		26.4	
2,4,6-Tribromophenol	0.114	0.111		2.6	
Terphenyl-d14	0.956	0.981		2.6	

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

8B
SEMVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Lab File ID (Standard): RHX050ABS Date Analyzed: 11/25/96

Instrument ID: R Time Analyzed: 2153

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	1046072	8.91	2556729	10.95	1715388	13.93
UPPER LIMIT	2092144	9.41	5113458	11.45	3430776	14.43
LOWER LIMIT	523036	8.41	1278365	10.45	857694	13.43
EPA SAMPLE NO.						
01 SBLKT5	1126932	8.92	2662483	10.97	1818048	13.94
02 MBS	1417038	8.93	3582261	10.97	2431046	13.93
03 SGP247810	778353	8.91	2030181	10.97	1464302	13.94
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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
SEMOVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Lab File ID (Standard): RHX050ABS Date Analyzed: 11/25/96

Instrument ID: R Time Analyzed: 2153

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	176573	16.43	927122	20.97	911753	23.30
UPPER LIMIT	3531468	16.93	1854244	21.47	1823506	23.80
LOWER LIMIT	882867	15.93	463561	20.47	455877	22.80
EPA SAMPLE NO.						
01 SBLKT5	1550772	16.43	1185634	20.97	1180361	23.30
02 MBS	2279313	16.44	1042250	20.96	1074800	23.30
03 SGP247810	1536314	16.44	730654	20.97	721056	23.31
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IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

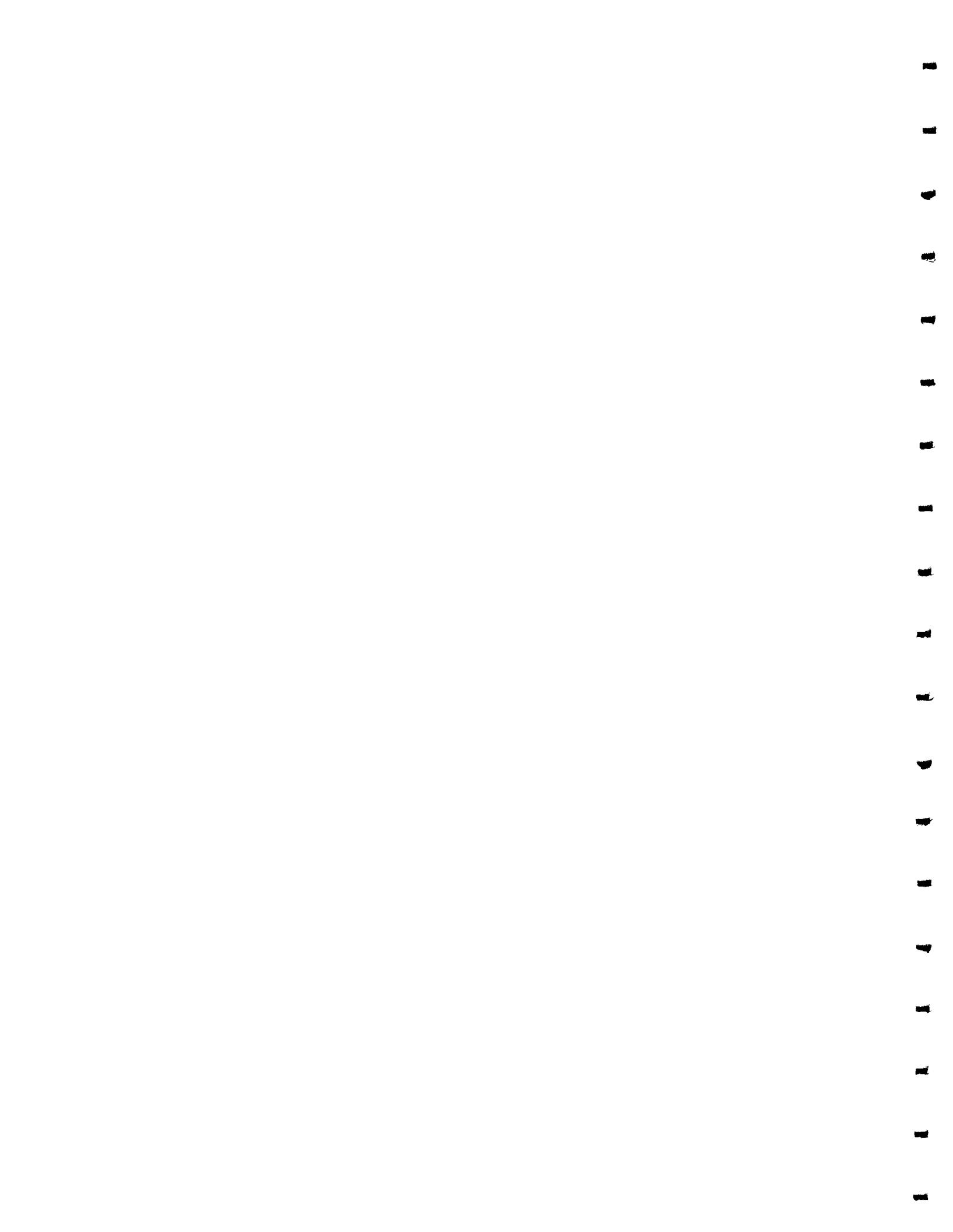
AREA UPPER LIMIT = +100% of internal standard area

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.



NARRATIVE



Inchcape Testing Services

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Inchcape Testing Services

Environmental Laboratories

55 South Park Drive
Colchester, VT 05446
Tel. 802-655-1203
Fax. 802-655-1248

November 29, 1996

Ms. Maria Heincz
Lawler, Matusky and Skelly Engineers
One Blue Hill Plaza
Pearl River, NY 10965

Re: LMS Project Name: LMS NYS Standby
Project No. 95212; Case 95212; SDG 62586

Dear Ms. Heincz:

Enclosed are the analytical results for samples received intact by ITS Laboratories on November 13, 1996. Laboratory numbers and quality control samples were assigned as follows:

<u>Lab Id</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
---------------	-------------------------	--------------------	----------------------

Received on: 11/13/96 ETR No. 62586

318889	SGP247810	11/12/96	Soil
318890	MSB		Solid

For the benefit of interested parties, documentation of sample handling and preparation is included at the end of the "Sample Data Package". A colored sheet of paper entitled "Sample Preparation Package" has been used to explicitly mark the location of these documents.

If there are any questions regarding this submittal, please contact Christopher A. Ouellette at (802) 655-1203.

Sincerely,

Karen R. Chirgwin
Karen R. Chirgwin
Laboratory Operations Director

KRC/bss
Enclosure

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Inchcape Testing Services

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Chain-of-Custody Record

ITS Environmental Laboratories

55 South Park Drive
Colchester, VT 05446
TEL: (802) 655-1203
FAX: (802) 655-1248

COMPANY INFORMATION		COMPANY'S PROJECT INFORMATION				SHIPPING INFORMATION		VOLUME/CONTAINER TYPE/ PRESERVATIVE (NOTE 4)		
Name: <u>LMS Engineers</u>	Address: <u>One Blue Hill Plaza</u>	Project Name: <u>New Cassel Industrial Area (NCIA)</u>	Project Number: <u>6SD-1022 to -1024</u>	Carrier: <u>Federal Express</u>	Sampler Name(s): <u>Karen Recardi</u>	Airbill Number: <u>9898260610</u>	Date Shipped: <u>11.12.96</u>			
Telephone: <u>(914) 735-8300</u>	Faximile: <u>(914) 735-7466</u>						Hand Delivered: <input type="checkbox"/> yes <input checked="" type="checkbox"/>	Quote #: <u>1830</u>	Client Code:	
ITS LABORATORY INFORMATION										
SAMPLE IDENTIFICATION (NOTE 1)		COLLECTION DATE	TIME	GRAB	COMPOSITE	MATRIX	ANALYSIS/REMARKS (NOTE 2,3)			NUMBER OF CONTAINERS
<u>GP-243 (73'-75')</u>		<u>11/12/96</u>	<u>12:15 PM</u>	<u>X</u>	<u>GW</u>	<u>EPA 8010/8020</u>				<u>3</u>
<u>GP-243 (60'-62')</u>		<u>11/12/96</u>	<u>12:30 PM</u>	<u>X</u>	<u>GW</u>	<u>EPA 8010/8020</u>				<u>3</u>
<u>GP-243 (93'-95')</u>		<u>11/12/96</u>	<u>12:30 PM</u>	<u>X</u>	<u>GW</u>	<u>EPA 8010/8020</u>				<u>3</u>
<u>GP-243 (73'-75')</u>		<u>11/12/96</u>	<u>0905</u>	<u>X</u>	<u>GW</u>	<u>EPA 8010/8020</u>				<u>3</u>
<u>GP-244 (93'-95')</u>		<u>11/12/96</u>	<u>1205</u>	<u>X</u>	<u>GW</u>	<u>EPA 8010/8020</u>				<u>3</u>
<u>SCP-247 (8-10')</u>		<u>11/12/96</u>	<u>1645</u>	<u>X</u>	<u>soil</u>	<u>EPA 8278 Semis</u>				<u>- 2</u>
ORIGINAL ON FILE # <u>12384</u>										
Relinquished by: <u>Michael J. Johnson</u> (signature)	DATE <u>11.12.96</u>	TIME <u>1800</u>	Received by: (signature)		NOTES ON SAMPLE(S): (1) Limit Sample identification to 6 characters, if possible; (2) Indicate if designated Lab Q.C. sample and type (e.g.: MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.: 40 ml/glass/H ₂ SO ₄					
Relinquished by: (signature)	DATE <u>11/13/96</u>	TIME <u>0930</u>	Received by: (signature)		Notes to Lab:					
Relinquished by: (signature)	DATE <u>11/13/96</u>	TIME <u>0930</u>	Received for Laboratory: (signature)							

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
SEMIVOLATILE (BNA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
318889	SOIL	11/12/96	11/13/96	11/18/96	11/25/96
318890	SOILQ	—	—	"	"

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
SEMIVOLATILE (BNA)
ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
318889	SOIL	8270SL0A	8270SL0A	yes	20.0
318890	SOIL	"	"	"	1.0

METHOD 8270
SEMIVOLATILE ORGANIC ANALYSIS

QC SUMMARY



Inchcape Testing Services

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2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Level: (low/med) MED

	EPA SAMPLE NO.	S1 (2FP) #	S2 (PHL) #	S3 (2CP) #	S4 (DCB) #	S5 (NBZ) #	S6 (FBP) #	S7 (TBP) #	S8 (TPH) #	TOT OUT
01	SBLKTS	95	86	89	103	95	88	85	70	0
02	MBS	100	95	99	103	95	86	96	102	0
03	SGP247810	92	73	86	95	72	83	60	87	0
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QC LIMITS

S1 (2FP)	= 2-Fluorophenol	(25-121)
S2 (PHL)	= Phenol-d5	(24-113)
S3 (2CP)	= 2-Chlorophenol-d4	(20-130) (advisory)
S4 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130) (advisory)
S5 (NBZ)	= Nitrobenzene-d5	(23-120)
S6 (FBP)	= 2-Fluorobiphenyl	(30-115)
S7 (TBP)	= 2,4,6-Tribromophenol	(19-122)
S8 (TPH)	= Terphenyl-d14	(18-137)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

FORM 3
SOIL SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Matrix Spike - LAW~~MAT~~ Sample No.: MBS Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC. LIMITS REC.
Phenol	75000		64000	85	26- 90
2-Chlorophenol	75000		71000	95	25-102
1,4-Dichlorobenzene	50000		42000	84	28-104
N-Nitroso-di-n-prop. (1)	50000		46000	92	41-126
1,2,4-Trichlorobenzene	50000		44000	88	38-107
4-Chloro-3-Methylphenol	75000		64000	85	26-103
Acenaphthene	50000		41000	82	31-137
2,4-Dinitrotoluene	50000		44000	88	28- 89
4-Nitrophenol	75000		55000	73	11-114
Pentachlorophenol	75000		70000	93	17-109
Pyrene	50000		52000	104	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 0 outside limits
 Spike Recovery: 0 out of 11 outside limits

COMMENTS: _____

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKTS

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Lab File ID: RB1118T5S Lab Sample ID: SBLKTS

Instrument ID: R Date Extracted: 11/18/96

Matrix: (soil/water) SOIL Date Analyzed: 11/25/96

Level: (low/med) MED Time Analyzed: 2237

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	MBS	318890	R318890S	11/25/96
02	SGP247810	318889	R318889DS	11/25/96
03				
04				
05				
06				
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COMMENTS:

5B
 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Lab File ID: RHX001PS DFTPP Injection Date: 11/25/96

Instrument ID: R DFTPP Injection Time: 0844

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.0
68	Less than 2.0% of mass 69	0.2 (0.4)1
69	Mass 69 relative abundance	49.6
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	40.0 - 60.0% of mass 198	51.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	16.9
365	Greater than 1.0% of mass 198	2.07
441	Present, but less than mass 443	7.7
442	40.0 - 110.0% of mass 198	53.5
443	17.0 - 23.0% of mass 442	10.5 (19.6)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 SSTD160	SSTD160	RHX160BS	11/25/96	0943
02 SSTD120	SSTD120	RHX120BS	11/25/96	1011
03 SSTD080	SSTD080	RHX080BS	11/25/96	1046
04 SSTD050	SSTD050	RHX050BS	11/25/96	1121
05 SSTD020	SSTD020	RHX010BS	11/25/96	1156
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**SEMOVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Lab File ID: RHX002PS DFTPP Injection Date: 11/25/96

Instrument ID: R DFTPP Injection Time: 2137

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	45.9
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	51.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	5.9
275	10.0 - 30.0% of mass 198	16.5
365	Greater than 1.0% of mass 198	1.94
441	Present, but less than mass 443	7.8
442	40.0 - 110.0% of mass 198	50.2
443	17.0 - 23.0% of mass 442	9.3 (18.5)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	RHX050ABS	11/25/96	2153
02 SBLKT5	SBLKT5	RB1118T5S	11/25/96	2237
03 MBS	318890	R318890S	11/25/96	2305
04 SGP247810	318889	R318889DS	11/25/96	2340
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8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212
 Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586
 Lab File ID (Standard): RHX050ABS Date Analyzed: 11/25/96
 Instrument ID: R Time Analyzed: 2153

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	1046072	8.91	2556729	10.95	1715388	13.93
UPPER LIMIT	2092144	9.41	5113458	11.45	3430776	14.43
LOWER LIMIT	523036	8.41	1278365	10.45	857694	13.43
EPA SAMPLE NO.						
01 SBLKT5	1126932	8.92	2662483	10.97	1818048	13.94
02 MBS	1417038	8.93	3582261	10.97	2431046	13.93
03 SGP247810	778353	8.91	2030181	10.97	1464302	13.94
04						
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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

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212
 Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586
 Lab File ID (Standard): RHX050ABS Date Analyzed: 11/25/96
 Instrument ID: R Time Analyzed: 2153

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	1765734	16.43	927122	20.97	911753	23.30
UPPER LIMIT	3531468	16.93	1854244	21.47	1823506	23.80
LOWER LIMIT	882867	15.93	463561	20.47	455877	22.80
EPA SAMPLE NO.						
01 SBLKT5	1550772	16.43	1185634	20.97	1180361	23.30
02 MBS	2279313	16.44	1042250	20.96	1074800	23.30
03 SGP247810	1536314	16.44	730654	20.97	721056	23.31
04						
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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.

METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/R.i/R1.p/RDTE_OLM.b/SV_AQ1.m
 Batch File: /chem/R.i/R1.p/RDTE_OLM.b
 Inst ID: R.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	Avg Conc	Std Dev	MDL
1 N-Nitrosodimethylamine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	-----	-----	-----
2 2-Fluorophenol	9.32	9.62	9.42	9.32	9.30	9.53	9.27	9.40	0.13	0.42
3 Phenol-d5	9.37	9.80	9.57	9.97	9.52	9.78	9.71	9.68	0.20	0.63
4 Phenol	8.75	9.22	8.77	9.13	9.10	9.38	9.06	9.06	0.23	0.72
5 bis(-2-Chloroethyl)Eth	9.78	11.05	8.83	8.79	9.68	9.66	8.98	9.54	0.79	2.49
6 2-Chlorophenol-d4	9.31	9.74	9.39	9.68	9.29	9.59	9.51	0.18	0.57	-----
7 2-Chlorophenol	9.09	9.26	9.05	9.37	8.99	9.09	9.18	9.15	0.13	0.41
8 1,3-Dichlorobenzene	10.29	10.26	10.28	10.08	10.17	10.06	10.20	0.10	0.30	-----
* 9 1,4-Dichlorobenzene-d4	20.00	20.00	20.00	20.00	20.00	20.00	20.00	0.00	0.00	-----
10 1,4-Dichlorobenzene	10.00	10.14	10.03	10.14	10.22	10.25	9.98	10.11	0.11	0.34
11 Benzyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	-----	-----	-----
\$ 12 1,2-Dichlorobenzene-d4	9.13	9.26	9.17	9.27	9.17	9.26	9.25	9.22	0.06	0.19
13 1,2-Dichlorobenzene	10.46	10.50	10.35	10.59	10.30	10.51	10.38	10.44	0.10	0.32
14 2-Methylphenol	9.13	9.25	9.17	9.64	9.06	9.16	9.32	9.25	0.19	0.60
15 2,2'-oxybis(1-Chloropr	8.96	9.20	9.04	9.41	9.09	9.05	8.89	9.09	0.17	0.54
16 4-Methylphenol	8.72	9.23	9.03	9.50	8.92	9.04	9.07	9.07	0.24	0.77

Reviewer 1 _____ Date: _____
 Reviewer 2 _____ Date: _____

METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/R.i/R1.p/RDTE_OLM.b/SV_AQ1.m
 Batch File: /chem/R.i/R1.p/RDTE_OLM.b
 Inst ID: R.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	Avg Conc	Std Dev	MDL
17 N-Nitroso-di-n-propyl	8.35	8.50	8.29	9.00	8.44	8.27	8.27	8.44	0.26	0.81
18 Hexachloroethane	10.35	10.44	10.05	10.28	10.17	10.22	10.10	10.23	0.14	0.43
\$ 19 Nitrobenzene-d5	8.40	8.99	8.52	9.02	8.46	8.88	8.81	8.73	0.26	0.82
20 Nitrobenzene	9.80	10.29	9.82	10.34	9.88	10.02	10.10	10.04	0.22	0.69
21 Isophorone	8.91	8.82	9.19	9.35	9.19	9.14	9.15	9.11	0.18	0.57
22 2-Nitrophenol	7.61	7.87	7.54	8.07	7.55	7.94	8.20	7.83	0.27	0.84
23 2,4-Dimethylphenol	9.53	9.64	9.46	9.79	9.52	9.61	9.62	9.60	0.11	0.34
24 bis(2-Chloroethoxy)met	8.11	8.24	8.16	8.66	8.17	8.21	8.30	8.27	0.19	0.58
25 Benzoic Acid	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 2,4-Dichlorophenol	7.93	7.88	8.02	8.07	7.76	7.80	8.29	7.97	0.18	0.57
* 27 1,2,4-Trichlorobenzene	9.97	9.82	9.84	9.86	9.76	10.09	9.96	9.90	0.11	0.35
28 Naphthalene-d8	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	0.00	0.00
29 Naphthalene	8.83	8.88	8.89	8.95	8.85	8.99	8.94	8.90	0.06	0.18
30 4-Chloraniline	8.78	8.90	8.97	9.31	9.08	9.06	9.26	9.05	0.19	0.59
31 Hexachlorobutadiene	10.12	10.04	10.14	10.06	10.13	9.96	9.80	10.04	0.12	0.38
32 4-Chloro-3-Methylpheno	7.41	7.57	7.75	7.50	7.73	7.66	7.58	7.60	0.12	0.39
33 2-Methylnaphthalene	9.02	9.44	9.14	9.03	9.87	9.10	8.99	9.23	0.32	1.01
34 Hexachlorocyclopentadi	7.92	8.17	7.23	8.21	7.02	7.35	8.39	7.76	0.55	1.72
35 2,4,6-Trichlorophenol	8.11	8.37	7.71	8.04	7.50	7.84	8.10	7.95	0.29	0.91
36 2,4,5-Trichlorophenol	8.29	8.32	8.51	8.70	8.41	8.45	8.57	8.46	0.14	0.45
\$ 37 2-Fluorobiphenyl	9.22	9.23	9.08	9.58	8.95	9.15	9.36	9.22	0.20	0.63
38 2-Chloronaphthalene	9.97	10.22	9.91	10.37	9.74	9.97	9.96	10.02	0.21	0.66

Reviewer 1 _____ Date: _____
 Reviewer 2 _____ Date: _____

METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/R.i/R1.p/RDTE_OLM.b/SV_AQ1.m
 Batch File: /chem/R.i/R1.p/RDTE_OLM.b
 Inst ID: R.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	Avg Conc	Std Dev	MDL
39 2-Nitroaniline	7.81	8.11	7.69	7.93	7.70	7.74	7.82	7.83	0.15	0.46
40 Dimethylphthalate	8.85	8.93	8.96	8.89	8.81	8.86	8.68	8.85	0.09	0.29
41 2,6-Dinitrotoluene	8.30	8.64	8.49	8.42	8.38	8.53	8.42	8.45	0.11	0.35
42 Acenaphthylene	9.10	9.10	8.97	9.14	8.88	9.06	9.02	9.04	0.09	0.28
43 3-Nitroaniline	7.94	7.86	7.72	7.39	7.52	7.82	7.62	7.70	0.20	0.62
44 Acenaphthene-d10	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	0.00	0.00
45 Acenaphthene	8.89	8.99	8.78	8.79	8.78	8.85	8.76	8.84	0.08	0.26
46 2,4-Dinitrophenol	1.26	1.80	1.85	1.85	2.00	2.32	2.51	1.94	0.40	1.27
47 4-Nitrophenol	3.13	J.08	3.23	2.99	3.50	3.99	3.96	3.41	0.42	1.31
48 Dibenzofuran	9.16	9.28	9.22	8.99	9.14	9.32	9.13	9.18	0.11	0.34
49 2,4-Dinitrotoluene	7.62	7.62	7.55	7.78	5.95	8.33	6.18	7.29	0.88	2.76
50 Diethylphthalate	8.83	8.51	8.95	8.22	8.83	8.67	8.29	8.61	0.28	0.89
51 4-Chlorophenyl-phenyle	8.90	8.91	8.99	8.52	8.79	8.96	8.78	8.83	0.16	0.51
52 Fluorene	8.82	8.81	8.89	8.47	8.81	9.02	8.60	8.77	0.18	0.58
53 4-Nitroaniline	7.58	7.19	6.87	6.08	7.22	7.57	6.64	7.02	0.54	1.70
54 4,6-Dinitro-2-methylph	3.38	3.75	3.81	3.97	4.01	3.86	4.51	3.90	0.34	1.07
55 N-nitrosodiphenylamine	8.51	8.69	8.75	8.92	8.62	8.60	8.86	8.71	0.15	0.46
56 Azobenzene	+++++	++++	++++	++++	++++	++++	++++	++++	++++	++++
\$ 57 2,4,6-Tribromophenol	7.49	7.23	6.82	6.61	7.55	7.40	7.06	7.17	0.35	1.11
58 4-Bromophenyl-phenyle	8.44	8.45	8.60	8.54	8.27	8.37	8.73	8.49	0.15	0.47
59 Hexachlorobenzene	9.82	9.83	9.89	10.20	9.78	9.98	10.24	9.95	0.19	0.59
60 Pentachlorophenol	0.82	1.67	1.62	1.72	1.85	1.72	2.19	1.65	0.42	1.30

Reviewer 1 _____ Date: _____
 Reviewer 2 _____ Date: _____

000016

METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/R.i/R1.p/RDTE_OLM.b/SV_AQ1.m
 Batch File: /chem/R.i/R1.p/RDTE_OLM.b
 Inst ID: R.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	Avg Conc	Std Dev	MDL
* 61 Phenanthrene-d10	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	0.00	0.00
62 Phenanthrene	9.04	9.14	9.17	8.96	9.05	9.09	9.03	9.07	0.07	0.22
63 Anthracene	9.50	9.53	9.70	9.39	9.53	9.62	9.61	9.55	0.10	0.31
64 Carbazole	10.21	10.14	10.21	9.60	10.18	10.34	9.85	10.07	0.25	0.80
65 Di-n-butylphthalate	9.12	8.93	9.18	8.76	8.97	9.02	8.89	8.98	0.14	0.45
66 Fluoranthene	8.91	8.88	9.13	8.41	9.10	9.22	8.72	8.91	0.28	0.88
67 Benzidine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.09	0.30
68 Pyrene	8.37	8.48	8.44	8.89	8.12	8.57	8.58	8.49	0.23	0.74
\$ 69 Terphenyl-d14	8.95	9.01	8.93	9.16	8.61	8.90	8.93	0.16	0.51	0.51
70 Butylbenzylphthalate	8.28	8.38	8.36	8.38	8.13	8.37	8.14	8.29	0.11	0.36
71 bis(2-Ethylhexyl)phtha	8.55	8.45	8.34	8.63	8.39	8.31	8.16	8.40	0.16	0.50
72 3,3'-Dichlorobenzidine	11.30	10.93	10.61	10.74	10.78	10.28	10.47	10.73	0.33	1.04
73 Benzo(a)anthracene	8.43	8.48	8.58	8.56	8.33	8.59	8.39	8.48	0.10	0.32
* 74 Chrysene-d12	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	0.00	0.00
75 Chrysene	8.80	8.94	8.80	9.02	8.94	9.03	8.86	8.92	0.11	0.34
76 Di-n-octylphthalate	8.69	8.79	8.58	9.06	8.82	8.88	8.71	8.79	0.15	0.49
77 Benzo(b)fluoranthene	8.74	9.18	7.67	8.18	7.98	8.06	8.34	8.31	0.51	1.59
78 Benzo(k)fluoranthene	8.64	8.94	9.95	10.23	10.02	10.29	9.73	9.68	0.65	2.03
79 Benzo(a)pyrene	8.47	8.73	8.43	8.72	8.74	8.87	8.77	8.68	0.16	0.50
* 80 Perylene-d12	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	0.00	0.00
81 Dibenz(a,h)anthracene	8.59	8.97	8.93	8.91	8.98	8.83	8.68	8.84	0.15	0.48
82 Indeno(1,2,3-cd)pyrene	8.40	8.64	8.44	8.42	8.56	8.39	8.48	8.47	0.09	0.30

Reviewer 1 _____
 Reviewer 2 _____

Date: _____
 Date: _____

000017

METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/R.i/R1.p/RDTE_OLM.b/SV_AQ1.m
Batch File: /chem/R.i/R1.p/RDTE_OLM.b
Inst ID: R.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	Avg Conc	Std Dev	MDL
83 Benzog,h,iperylene	8.40	8.57	8.57	8.56	8.54	8.58	8.76	8.57	0.10	0.32

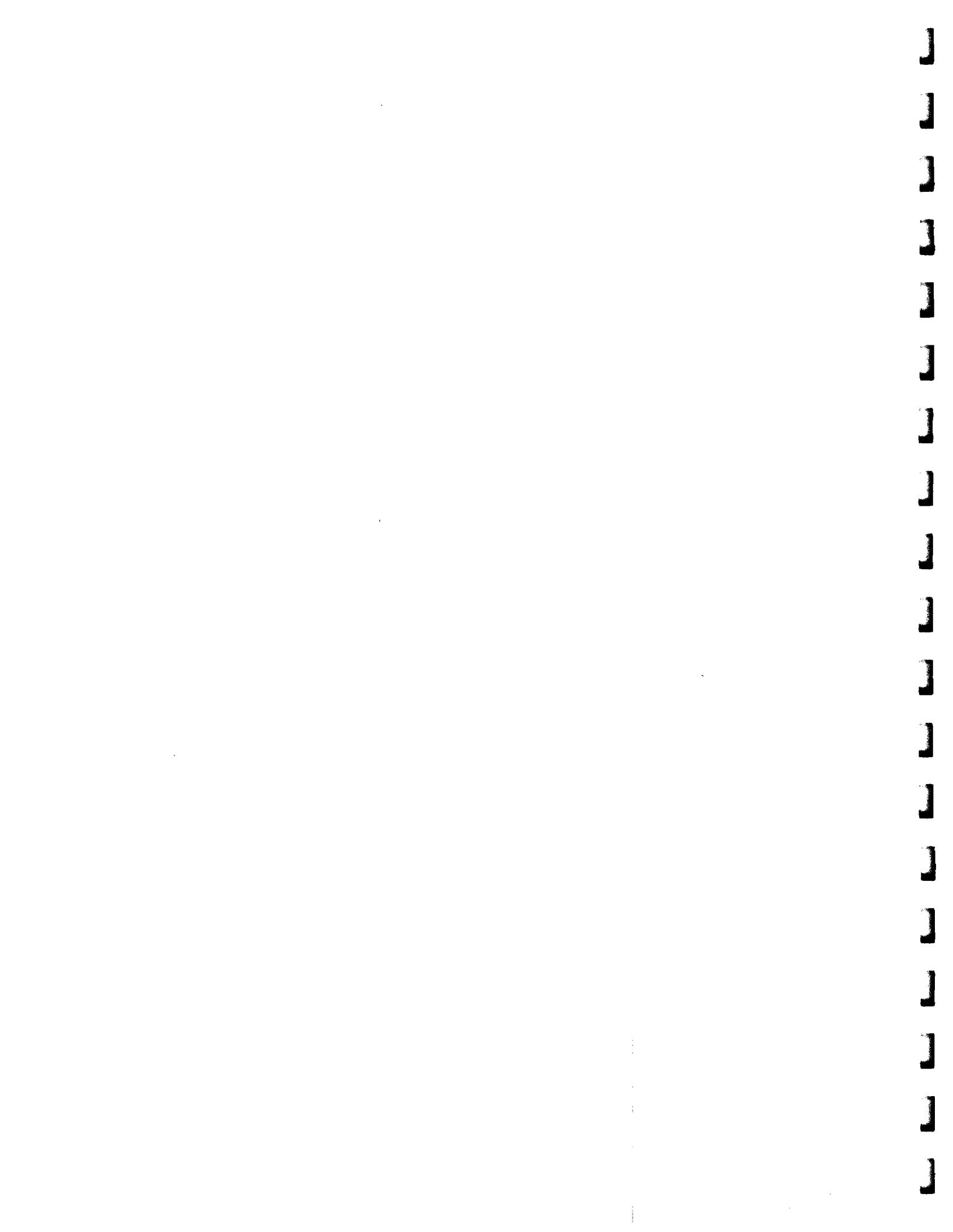
Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: _____

**METHOD 8270
SEMIVOLATILE ORGANIC ANALYSIS**

SUPPORTIVE DOCUMENTATION



Inchcape Testing Services



SEMITVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SGP247810

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Matrix: (soil/water) SOIL Lab Sample ID: 318889

Sample wt/vol: 2.0 (g/mL) G Lab File ID: R318889DS

Level: (low/med) MED Date Received: 11/13/96

% Moisture: 47 decanted: (Y/N) N Date Extracted: 11/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/25/96

Injection Volume: 2.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 6.6

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2-----	Phenol	380000	U
111-44-4-----	bis(2-Chloroethyl) Ether	380000	U
95-57-8-----	2-Chlorophenol	380000	U
541-73-1-----	1,3-Dichlorobenzene	380000	U
106-46-7-----	1,4-Dichlorobenzene	380000	U
95-50-1-----	1,2-Dichlorobenzene	380000	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	380000	U
95-48-7-----	2-Methylphenol	380000	U
621-64-7-----	N-Nitroso-di-n-propylamine	380000	U
67-72-1-----	Hexachloroethane	380000	U
106-44-5-----	4-Methylphenol	110000	J
98-95-3-----	Nitrobenzene	380000	U
78-59-1-----	Isophorone	380000	U
88-75-5-----	2-Nitrophenol	380000	U
105-67-9-----	2,4-Dimethylphenol	380000	U
111-91-1-----	bis(2-Chloroethoxy)methane	380000	U
120-83-2-----	2,4-Dichlorophenol	380000	U
120-82-1-----	1,2,4-Trichlorobenzene	380000	U
91-20-3-----	Naphthalene	380000	U
106-47-8-----	4-Chloroaniline	380000	U
87-68-3-----	Hexachlorobutadiene	380000	U
59-50-7-----	4-Chloro-3-Methylphenol	380000	U
91-57-6-----	2-Methylnaphthalene	380000	U
77-47-4-----	Hexachlorocyclopentadiene	380000	U
88-06-2-----	2,4,6-Trichlorophenol	380000	U
95-95-4-----	2,4,5-Trichlorophenol	940000	U
91-58-7-----	2-Chloronaphthalene	380000	U
88-74-4-----	2-Nitroaniline	940000	U
131-11-3-----	Dimethylphthalate	380000	U
208-96-8-----	Acenaphthylene	380000	U
606-20-2-----	2,6-Dinitrotoluene	380000	U
83-32-9-----	Acenaphthene	380000	U
99-09-2-----	3-Nitroaniline	940000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SGP247810

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Matrix: (soil/water) SOIL Lab Sample ID: 318889

Sample wt/vol: 2.0 (g/mL) G Lab File ID: R318889DS

Level: (low/med) MED Date Received: 11/13/96

% Moisture: 47 decanted: (Y/N) N Date Extracted: 11/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/25/96

Injection Volume: 2.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 6.6

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG

51-28-5-----	2,4-Dinitrophenol	940000	U
132-64-9-----	Dibenzofuran	380000	U
121-14-2-----	2,4-Dinitrotoluene	380000	U
100-02-7-----	4-Nitrophenol	940000	U
84-66-2-----	Diethylphthalate	380000	U
86-73-7-----	Fluorene	380000	U
7005-72-3-----	4-Chlorophenyl-phenylether	380000	U
100-01-6-----	4-Nitroaniline	940000	U
86-30-6-----	N-nitrosodiphenylamine (1)	380000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	940000	U
101-55-3-----	4-Bromophenyl-phenylether	380000	U
118-74-1-----	Hexachlorobenzene	380000	U
87-86-5-----	Pentachlorophenol	940000	U
85-01-8-----	Phenanthrene	380000	U
120-12-7-----	Anthracene	380000	U
86-74-8-----	Carbazole	380000	U
84-74-2-----	Di-n-butylphthalate	380000	U
206-44-0-----	Fluoranthene	380000	U
129-00-0-----	Pyrene	380000	U
85-68-7-----	Butylbenzylphthalate	380000	U
56-55-3-----	Benzo(a)anthracene	380000	U
91-94-1-----	3,3'-Dichlorobenzidine	380000	U
218-01-9-----	Chrysene	380000	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	75000	J
117-84-0-----	Di-n-octylphthalate	380000	U
205-99-2-----	Benzo(b)fluoranthene	380000	U
207-08-9-----	Benzo(k)fluoranthene	380000	U
50-32-8-----	Benzo(a)pyrene	380000	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	380000	U
53-70-3-----	Dibenz(a,h)anthracene	380000	U
191-24-2-----	Benzo(g,h,i)perylene	380000	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SGP247810

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVHT Case No.: 95212 SAS No.: SDG No.: 62586

Matrix: (soil/water) SOIL Lab Sample ID: 318889

Sample wt/vol: 2.0 (g/mL) G Lab File ID: R318889DS

Level: (low/med) MED Date Received: 11/13/96

% Moisture: 47 decanted: (Y/N) N Date Extracted: 11/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/25/96

Injection Volume: 2.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 6.6

CONCENTRATION UNITS:

Number TICs found: 20 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALKANE	7.36	150000	J
2. 116-53-0	BUTANOIC ACID, 2-METHYL-	7.93	200000	NJ
3.	UNKNOWN ALKANE	8.22	180000	J
4.	UNKNOWN ALKANE	8.66	810000	J
5.	UNKNOWN ALKYLCYCLOHEXANE	9.14	240000	J
6.	UNKNOWN ALKANE	9.37	220000	J
7.	UNKNOWN ALKANE	9.45	170000	J
8.	UNKNOWN ALKANE	9.52	200000	J
9.	UNKNOWN ALKANE	10.05	170000	J
10.	UNKNOWN ALKANE	15.46	140000	J
11. 57-10-3	HEXADECANOIC ACID	17.40	680000	NJ
12. 544-63-8	TETRADECANOIC ACID	18.73	990000	NJ
13.	UNKNOWN ALIPHATIC KETONE	20.75	300000	J
14.	UNKNOWN ALKANE	21.42	240000	J
15.	UNKNOWN ALKANE	21.56	280000	J
16.	UNKNOWN ALIPHATIC ACID	21.81	220000	J
17.	UNKNOWN ALKANE	22.00	690000	J
18.	UNKNOWN POLYCYCLIC HYDROCARB	24.26	200000	J
19. 59-02-9	VITAMIN E	24.36	520000	NJ
20. 59-02-9	VITAMIN E	24.71	3900000	NJ
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

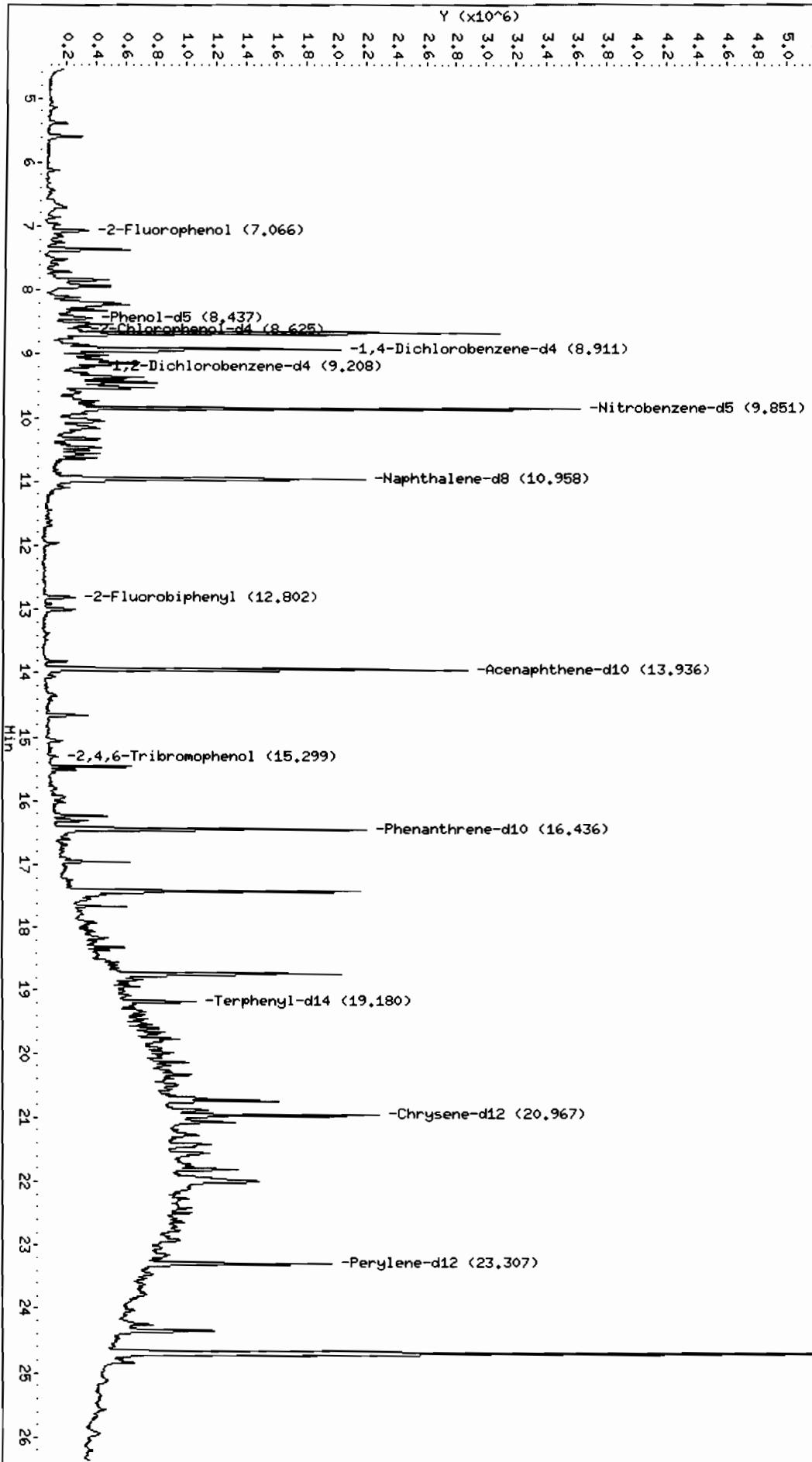
Data File: /chem/R.i/R1.p/RHXA_8270.b/R318889DS.d
Date : 25-NOV-96 23:40:15
Client ID: SGP247810

Sample Info: L#318889 CLI#SGP247810 ETR#62586
Volume Injected (uL): 2.0
Column phase: RTX-5

Page 7

Instrument: R.i
Operator: BES
Column diameter: 0.25

/chem/R.i/R1.p/RHXA_8270.b/R318889DS.d



Inchcape Environmental

SEMOVOLATILE QUANTITATION REPORT

Data file : /chem/R.i/R1.p/RHXA_8270.b/R318889DS.d
Lab Smp Id: 318889 Client Smp ID: SGP247810
Inj Date : 25-NOV-96 23:40:15
Operator : BES Inst ID: R.i
Smp Info : L#318889 CLI#SGP247810 ETR#62586
Misc Info : 5% ANALYSIS
Comment :
Method : /chem/R.i/R1.p/RHXA_8270.b/SV_8270v6RTE.m
Meth Date : 27-Nov-96 18:50:33 je Quant Type: ISTD
Cal Date : 25-NOV-96 21:53:00 Cal File: RHX050ABS.d
Als bottle: 3
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: OLM.sub
Target Version: 3.30
Procesing Host: chemsvr4

Concentration Formula: Uf * Vt/(Vi * Ws * (100-M)/100) * GPC

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	47.000	% Moisture
GPC	2.000	GPC Factor

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	(ng)
\$ 3 2-Fluorophenol	112	7.066	7.057 (0.793)	104883	6.9	130000(a)	
\$ 5 Phenol-d5	99	8.437	8.425 (0.947)	113935	5.5	100000(a)	
6 Phenol	94.00		Compound Not Detected.				
7 bis(2-Chloroethyl)Ether	93.00		Compound Not Detected.				
\$ 8 2-Chlorophenol-d4	132	8.625	8.613 (0.968)	116458	6.4	120000(a)	
9 2-Chlorophenol	128.00		Compound Not Detected.				
10 1,3-Dichlorobenzene	146.00		Compound Not Detected.				
* 11 1,4-Dichlorobenzene-d4	152	8.911	8.909 (1.000)	778353	40		
12 1,4-Dichlorobenzene	146.00		Compound Not Detected.				
\$ 13 1,2-Dichlorobenzene-d4	152	9.218	9.205 (1.034)	82603	4.7	89000(a)	
14 1,2-Dichlorobenzene	146.00		Compound Not Detected.				
16 2,2'-oxybis(1-Chloropropane)	45.00		Compound Not Detected.				
17 2-Methylphenol	108.00		Compound Not Detected.				

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng) FINAL (ug/Kg)
18 N-Nitroso-di-n-propylamine	70.00					Compound Not Detected.	
19 Hexachloroethane	117.00					Compound Not Detected.	
20 4-Methylphenol	108		9.594	9.590 (1.077)		93782	5.9 110000(a)
\$ 21 Nitrobenzene-d5	82		9.851	9.827 (0.898)		66602	3.6 68000(a)
22 Nitrobenzene	77.00					Compound Not Detected.	
23 Isophorone	82.00					Compound Not Detected.	
24 2-Nitrophenol	139.00					Compound Not Detected.	
25 2,4-Dimethylphenol	107.00					Compound Not Detected.	
26 bis(2-Chloroethoxy)methane	93.00					Compound Not Detected.	
27 2,4-Dichlorophenol	162.00					Compound Not Detected.	
28 1,2,4-Trichlorobenzene	180.00					Compound Not Detected.	
* 30 Naphthalene-d8	136		10.968	10.953 (1.000)		2030181	40
31 Naphthalene	128.00					Compound Not Detected.	
32 4-Chloroaniline	127.00					Compound Not Detected.	
33 Hexachlorobutadiene	225.00					Compound Not Detected.	
34 4-Chloro-3-Methylphenol	107.00					Compound Not Detected.	
35 2-Methylnaphthalene	142.00					Compound Not Detected.	
36 Hexachlorocyclopentadiene	237.00					Compound Not Detected.	
37 2,4,6-Trichlorophenol	196.00					Compound Not Detected.	
38 2,4,5-Trichlorophenol	196.00					Compound Not Detected.	
\$ 39 2-Fluorobiphenyl	172		12.802	12.789 (0.919)		187311	4.2 79000(a)
40 2-Choronaphthalene	162.00					Compound Not Detected.	
41 2-Nitroaniline	65.00					Compound Not Detected.	
42 Dimethylphthalate	163.00					Compound Not Detected.	
43 Acenaphthylene	152.00					Compound Not Detected.	
44 2,6-Dinitrotoluene	165.00					Compound Not Detected.	
* 45 Acenaphthene-d10	164		13.936	13.934 (1.000)		1464302	40
46 Acenaphthene	153.00					Compound Not Detected.	
47 3-Nitroaniline	138.00					Compound Not Detected.	
48 2,4-Dinitrophenol	184.00					Compound Not Detected.	
49 Dibenzofuran	168.00					Compound Not Detected.	
50 2,4-Dinitrotoluene	165.00					Compound Not Detected.	
51 4-Nitrophenol	109.00					Compound Not Detected.	
52 Diethylphthalate	149.00					Compound Not Detected.	
53 Fluorene	166.00					Compound Not Detected.	
54 4-Chlorophenyl-phenylether	204.00					Compound Not Detected.	
55 4-Nitroaniline	138.00					Compound Not Detected.	
56 N-nitrosodiphenylamine	169.00					Compound Not Detected.	
57 4,6-Dinitro-2-methylphenol	198.00					Compound Not Detected.	
\$ 59 2,4,6-Tribromophenol	330		15.299	15.299 (1.098)		18311	4.5 85000(a)
60 4-Bromophenyl-phenylether	248.00					Compound Not Detected.	
61 Hexachlorobenzene	283.81					Compound Not Detected.	
62 Pentachlorophenol	266.00					Compound Not Detected.	
* 63 Phenanthrene-d10	188		16.436	16.434 (1.000)		1536314	40
64 Phenanthrene	178.00					Compound Not Detected.	
65 Anthracene	178.00					Compound Not Detected.	
66 Carbazole	167.00					Compound Not Detected.	

090000

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	(ng) FINAL (ug/Kg)
67 Di-n-butylphthalate	149.00					Compound Not Detected.	
68 Fluoranthene	202.00					Compound Not Detected.	
70 Pyrene	202.00					Compound Not Detected.	
\$ 71 Terphenyl-d14	244	19.170	19.177 (0.914)			77964	4.3 82000(a)
72 Butylbenzylphthalate	149.00					Compound Not Detected.	
73 Benzo(a)anthracene	228.00					Compound Not Detected.	
74 3,3'-Dichlorobenzidine	252.00					Compound Not Detected.	
* 75 Chrysene-d12	240	20.967	20.972 (1.000)			730654	40
76 Chrysene	228.00					Compound Not Detected.	
77 bis(2-Ethylhexyl)phthalate	149	21.067	21.072 (1.005)			167808	4.0 75000(a)
78 Di-n-octylphthalate	149.00					Compound Not Detected.	
79 Benzo(b)fluoranthene	252.00					Compound Not Detected.	
80 Benzo(k)fluoranthene	252.00					Compound Not Detected.	
81 Benzo(a)pyrene	252.00					Compound Not Detected.	
* 82 Perylene-d12	264	23.307	23.298 (1.000)			721056	40
83 Indeno(1,2,3-cd)pyrene	276.00					Compound Not Detected.	
84 Dibenz(a,h)anthracene	278.00					Compound Not Detected.	
85 Benzo(g,h,i)perylene	276.00					Compound Not Detected.	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Inchcape Environmental

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem/R.i/R1.p/RHXA_8270.b/R318889DS.d
Lab Smp Id: 318889 Client Smp ID: SGP247810
Inj Date : 25-NOV-96 23:40:15
Operator : BES Inst ID: R.i
Smp Info : L#318889 CLI#SGP247810 ETR#62586
Misc Info : 5% ANALYSIS
Comment :
Method : /chem/R.i/R1.p/RHXA_8270.b/SV_8270v6RTE.m
Meth Date : 27-Nov-96 18:50:33 Je Quant Type: ISTD
Cal Date : 25-NOV-96 21:53:00 Cal File: RHX050ABS.d
Als bottle: 3
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: OLM.sub
Target Version: 3.30
Procesing Host: chemsvr4

Concentration Formula: Uf * Vt/(Vi * Ws * (100-M)/100)*GPC

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	47.000	% Moisture
GPC	2.000	GPC Factor

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 11 1,4-Dichlorobenzene-d4	8.911	5531284	40.000
* 30 Naphthalene-d8	10.968	5593302	40.000
* 63 Phenanthrene-d10	16.436	4247745	40.000
* 75 Chrysene-d12	20.967	2856279	40.000
* 82 Perylene-d12	23.307	2812471	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL(ng)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	=====	=====	====	=====	=====	=====

RT	AREA	CONCENTRATIONS			QUANT			CPND #
		ON-COL(ng)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY		
====	=====	=====	====	====	=====	=====	=====	=====
Unknown alkane								
7.362	1114702	8.1	150000	0		0	11	
Butanoic acid, 2-methyl-								
7.934	1507803	11	200000	72	NBS75K.l	63484	11	
Unknown alkane								
8.220	1362378	9.8	180000	0		0	11(L)	
Unknown alkane								
8.664	5927002	43	810000	0		0	11	
Unknown alkylcyclohexane								
9.139	1739419	12	240000	0		0	11	
Unknown alkane								
9.366	1596176	12	220000	0		0	11(L)	
Unknown alkane								
9.445	1282403	9.3	170000	0		0	11	
Unknown alkane								
9.524	1471484	11	200000	0		0	11	
Unknown alkane								
10.049	1289047	9.2	170000	0		0	30	
Unknown alkane								
15.457	786901	7.4	140000	0		0	63	
Hexadecanoic acid								
17.398	3855222	36	680000	94	NBS75K.l	71607	63	
Tetradecanoic acid								
18.731	3760505	53	990000	97	NBS75K.l	70843	75	
Unknown aliphatic ketone								
20.747	1132082	16	300000	0		0	75	
Unknown alkane								
21.416	903390	13	240000	0		0	75	
Unknown alkane								
21.556	1062736	15	280000	0		0	75	

000027

RT	AREA	CONCENTRATIONS			QUANT		
		ON-COL(ng)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	=====	=====	====	=====	=====	=====	
Unknown aliphatic acid 21.806	850467	12	220000	0	CAS #:	0	75
Unknown alkane 21.997	2627472	37	690000	0	CAS #:	0	75(M)
Unknown polycyclic hydrocarbon ~4.256	749695	11	200000	0	CAS #:	0	82
Vitamin E 24.356	1940661	28	520000	78	CAS #: 59-02-9 NBS75K.L	74415	82
Vitamin E 24.706	14532897	210	3900000	97	CAS #: 59-02-9 NBS75K.L	74415	82

QC Flag Legend

M - Compound response manually integrated.

L - Operator selected an alternate library search match.

Date : 25-NOV-96 23:40:15

Client ID: SGP247810

Instrument: R.i

Sample Info: L#318889 CLI#SGP247810 ETR#62586

Volume Injected (uL): 2.0

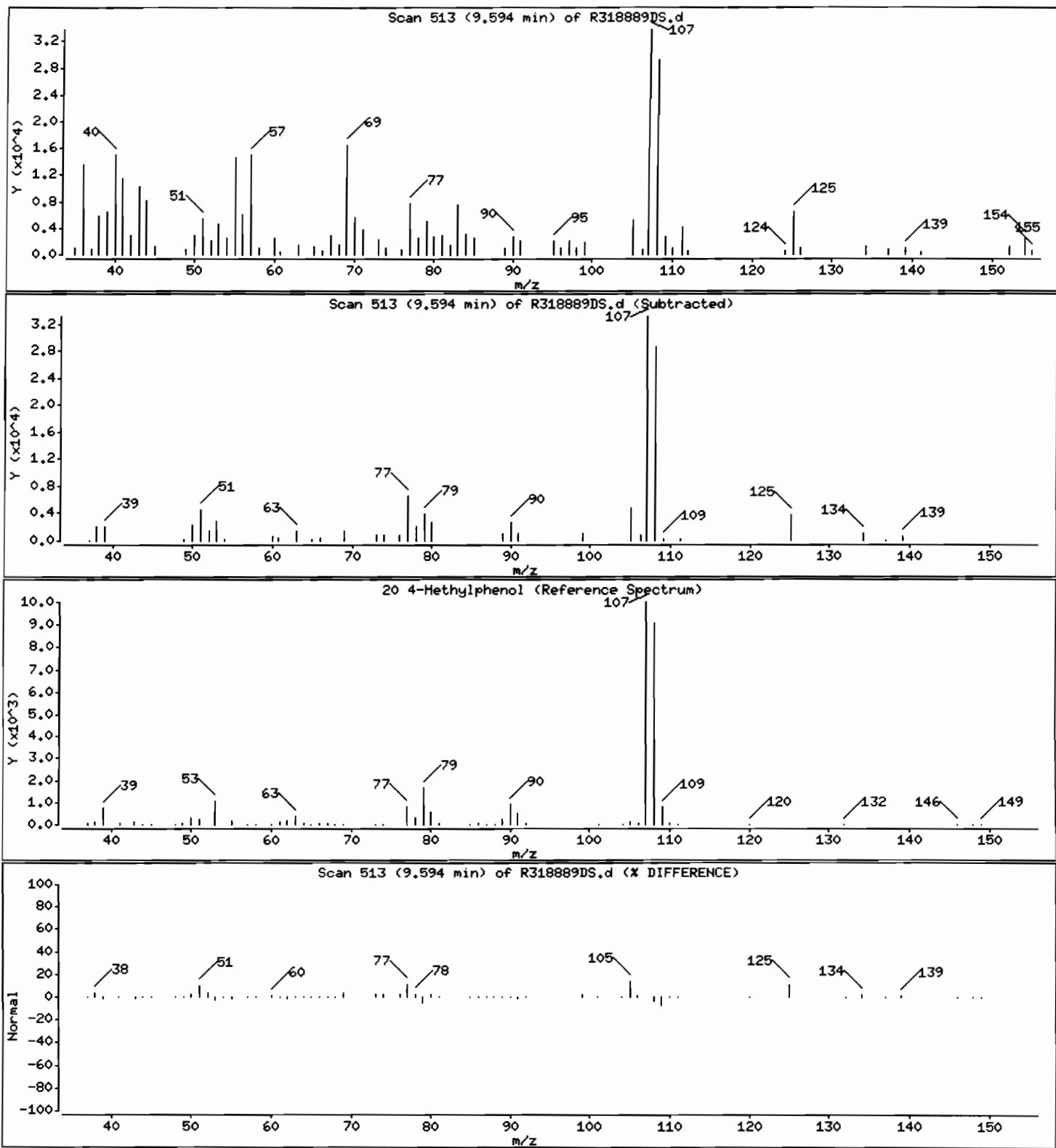
Operator: BES

Column phase: RTX-5

Column diameter: 0.25

20 4-Methylphenol

Concentration: 110000 ug/Kg



090029

Data File: /chem/R.i/R1.p/RHXA_8270.b/R318889DS.d

Page 9

Date : 25-NOV-96 23:40:15

Client ID: SGP247810

Instrument: R.i

Sample Info: L#318889 CLI#SGP247810 ETR#62586

Volume Injected (uL): 2.0

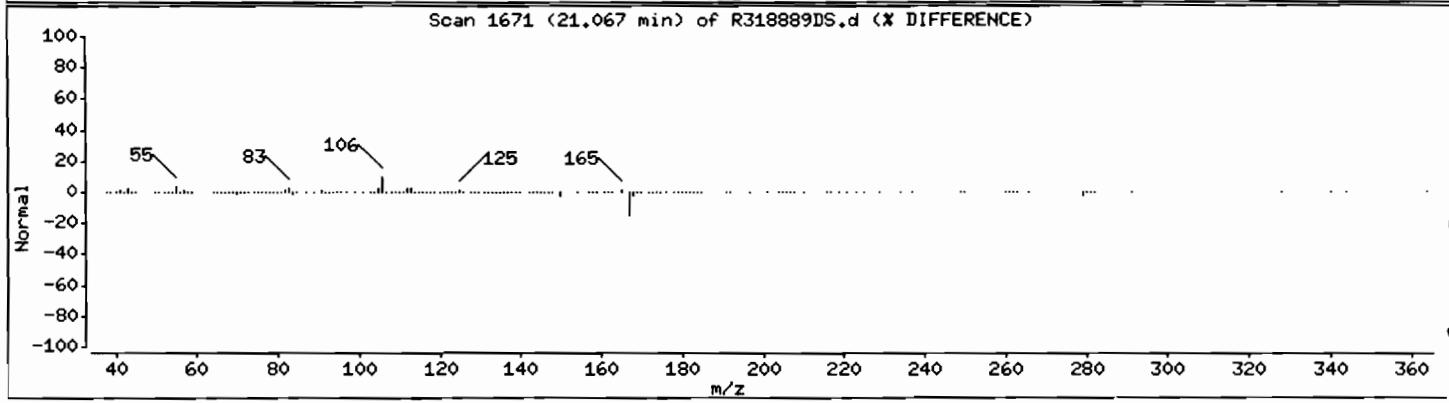
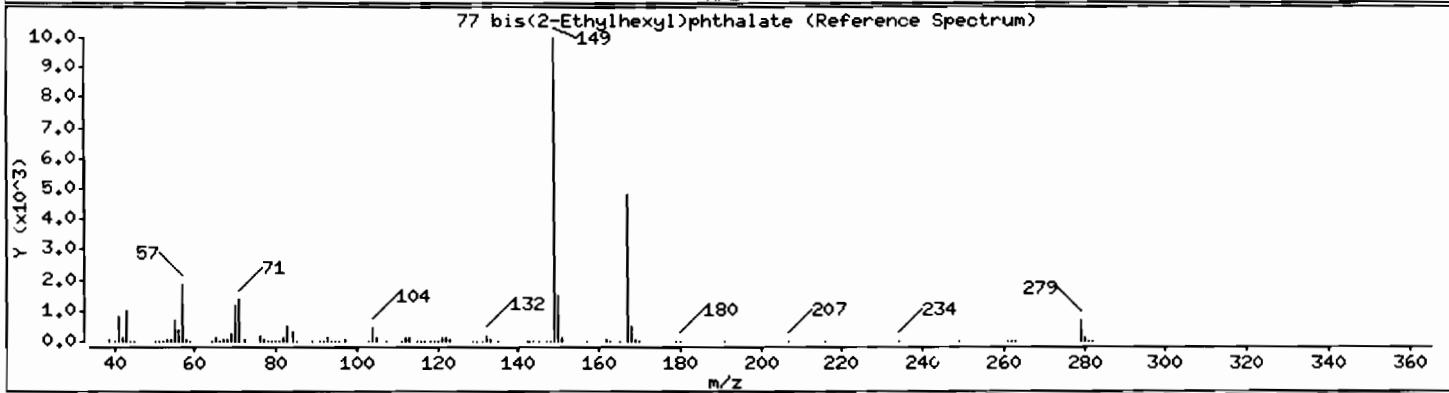
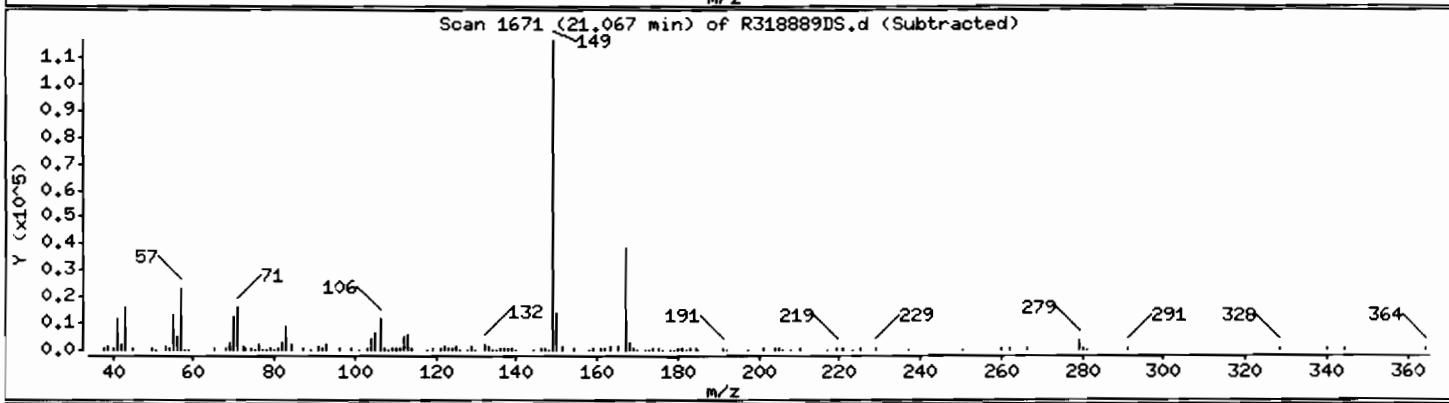
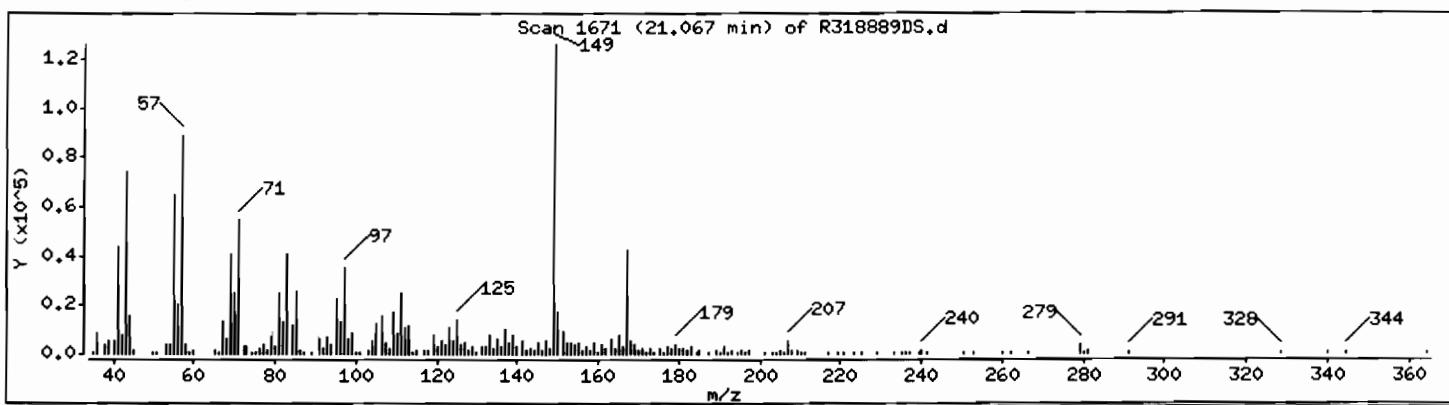
Operator: BES

Column phase: RTX-5

Column diameter: 0.25

77 bis(2-Ethylhexyl)phthalate

Concentration: 75000 ug/Kg



Date : 25-NOV-96 23:40:15

Client ID: SGP247810

Instrument: R.i

Sample Info: L#318889 CLI#SGP247810 ETR#62586

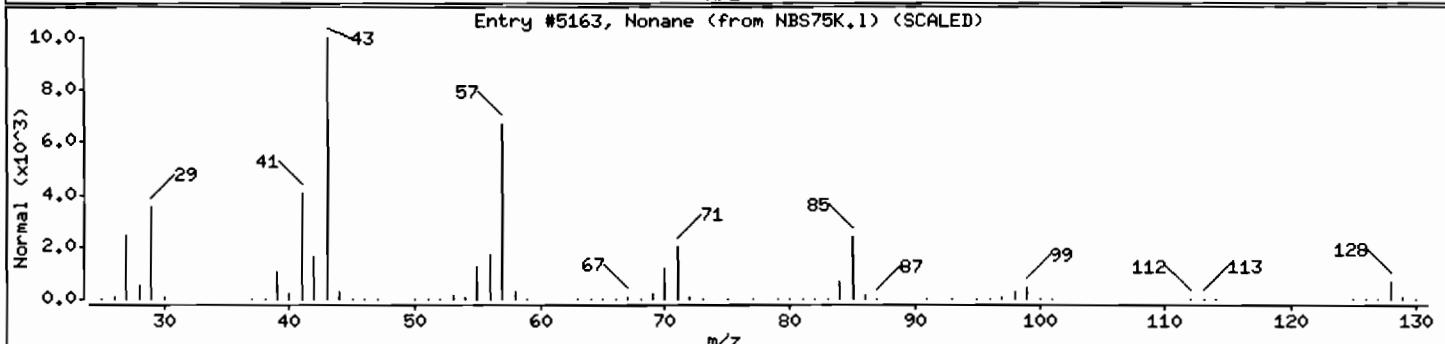
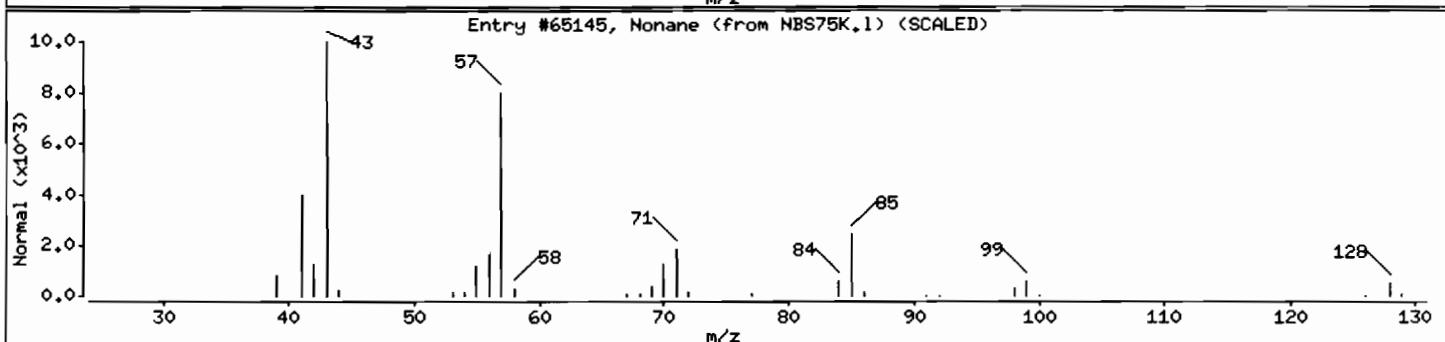
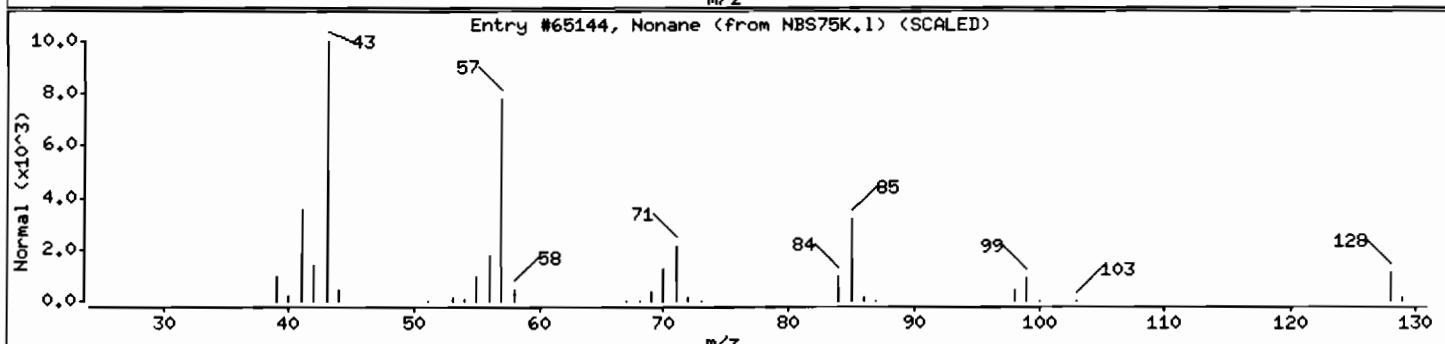
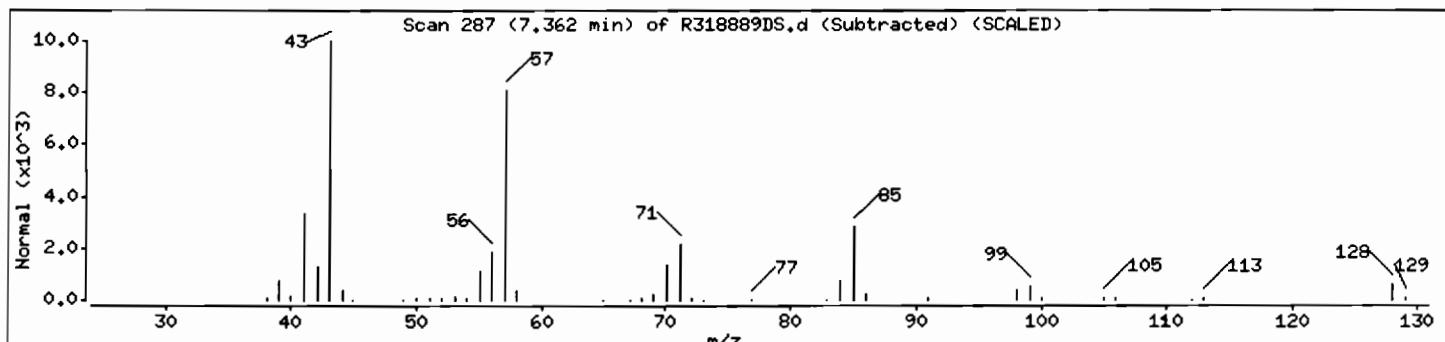
Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Nonane	111-84-2	NBS75K.1	65144	95	C9H20	128
Nonane	111-84-2	NBS75K.1	65145	94	C9H20	128
Nonane	111-84-2	NBS75K.1	5163	93	C9H20	128



Date : 25-NOV-96 23:40:15

Client ID: SCP247810

Instrument: R.i

Sample Info: L#318889 CLI#SCP247810 ETR#62586

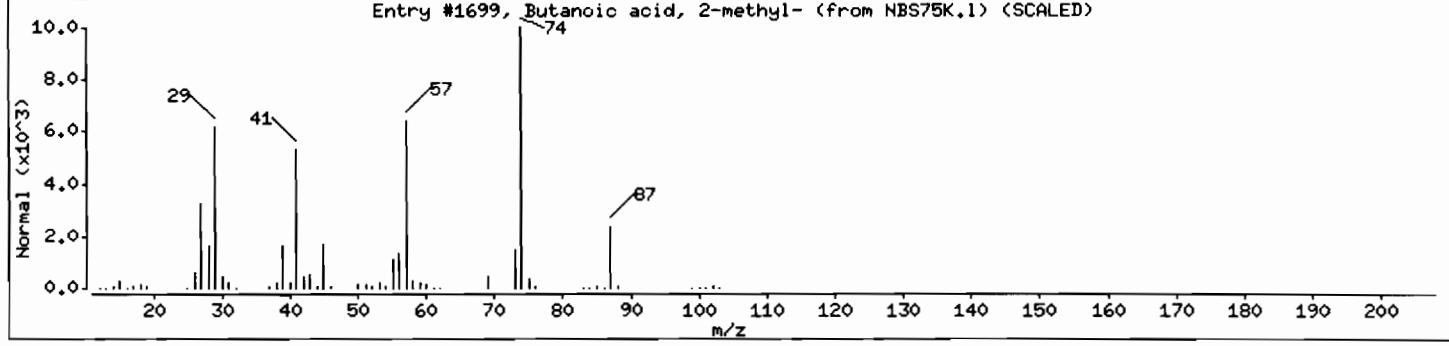
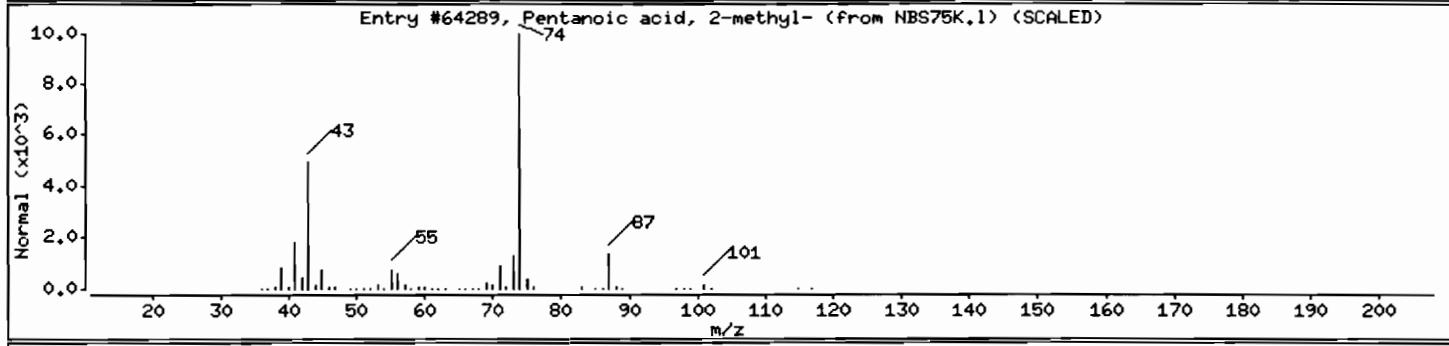
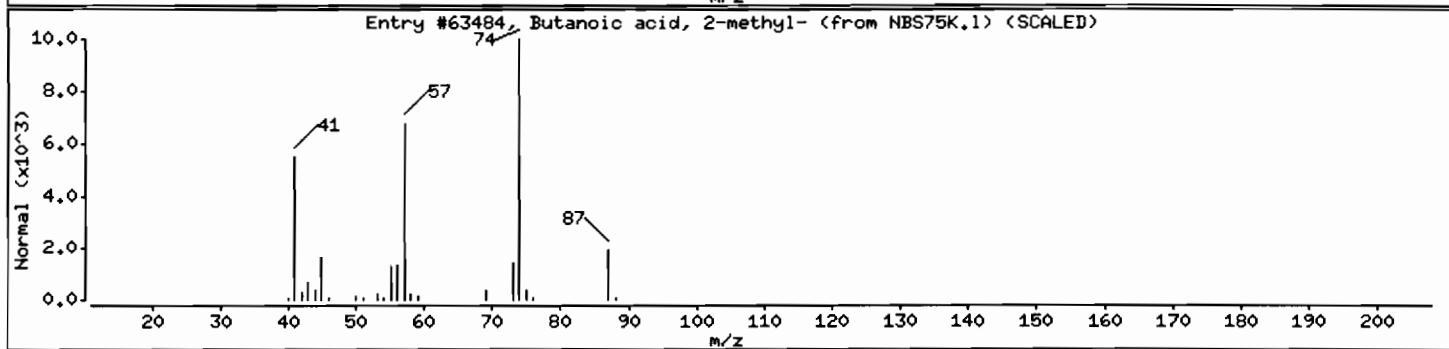
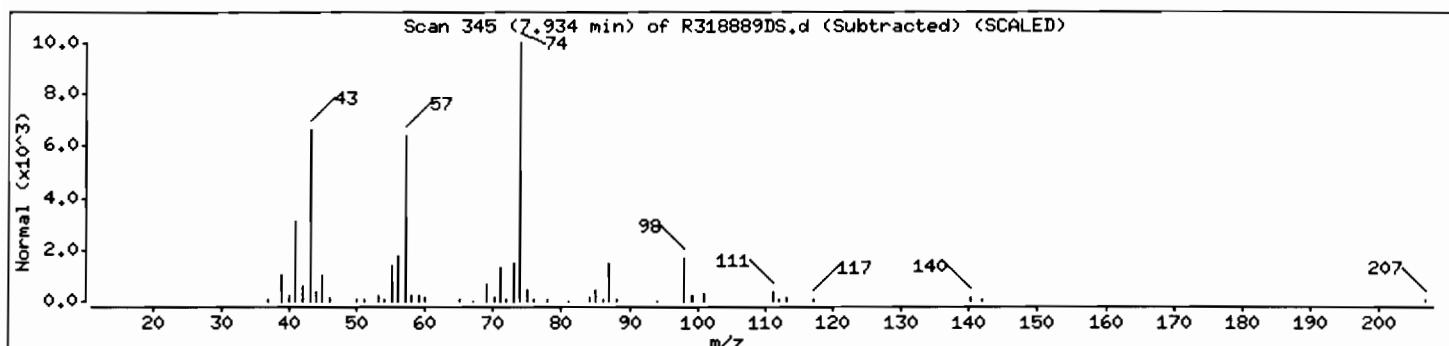
Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butanoic acid, 2-methyl-	116-53-0	NBS75K.1	63484	72	C5H10O2	102
Pentanoic acid, 2-methyl-	97-61-0	NBS75K.1	64289	72	C6H12O2	116
Butanoic acid, 2-methyl-	116-53-0	NBS75K.1	1699	64	C5H10O2	102



Date : 25-NOV-96 23:40:15

Client ID: SGP247810

Instrument: R.i

Sample Info: L#318889 CLI#SGP247810 ETR#62586

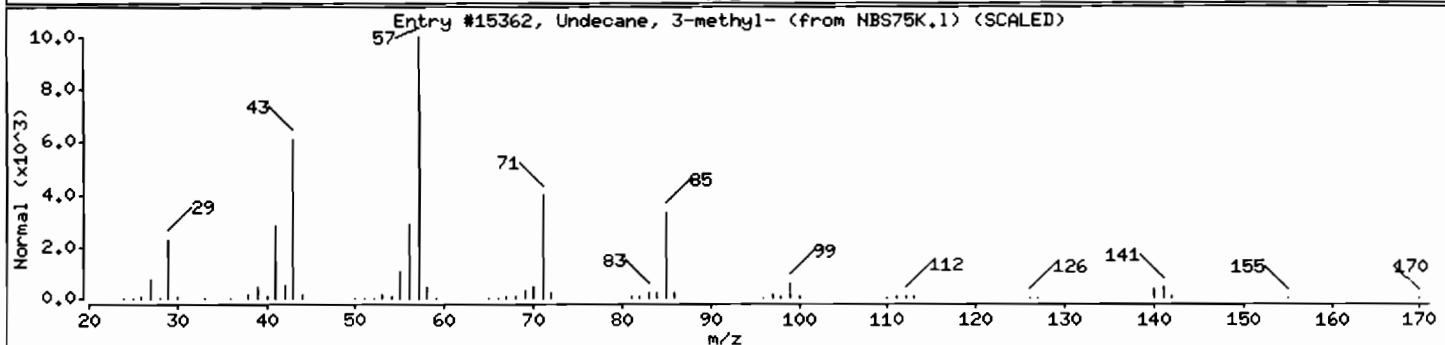
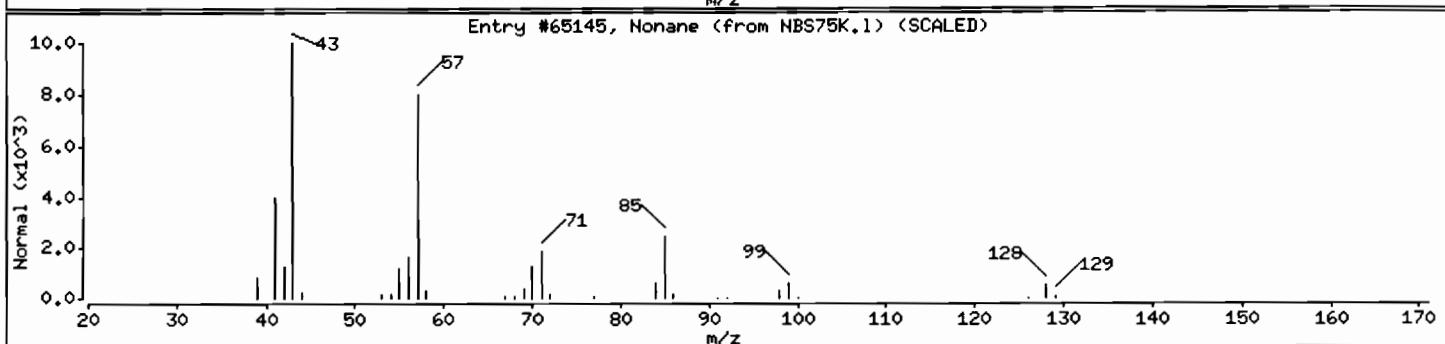
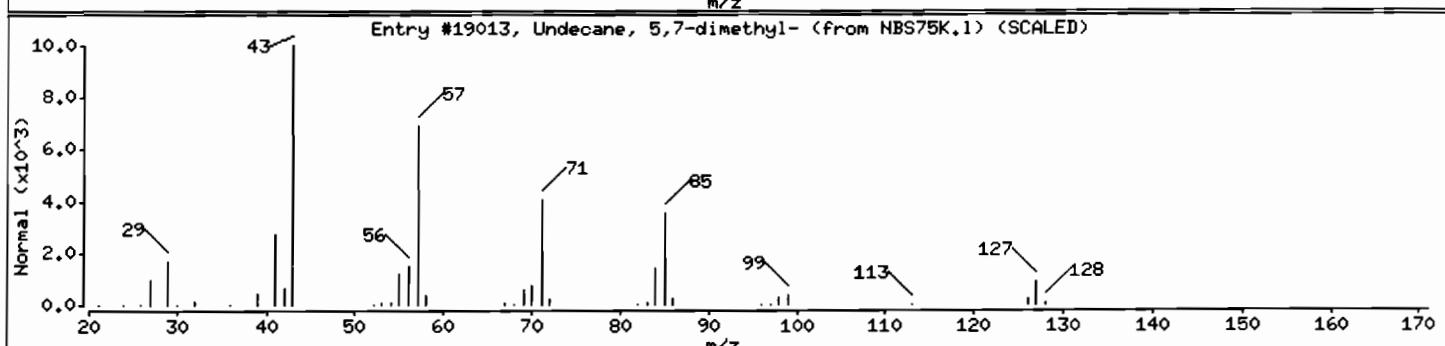
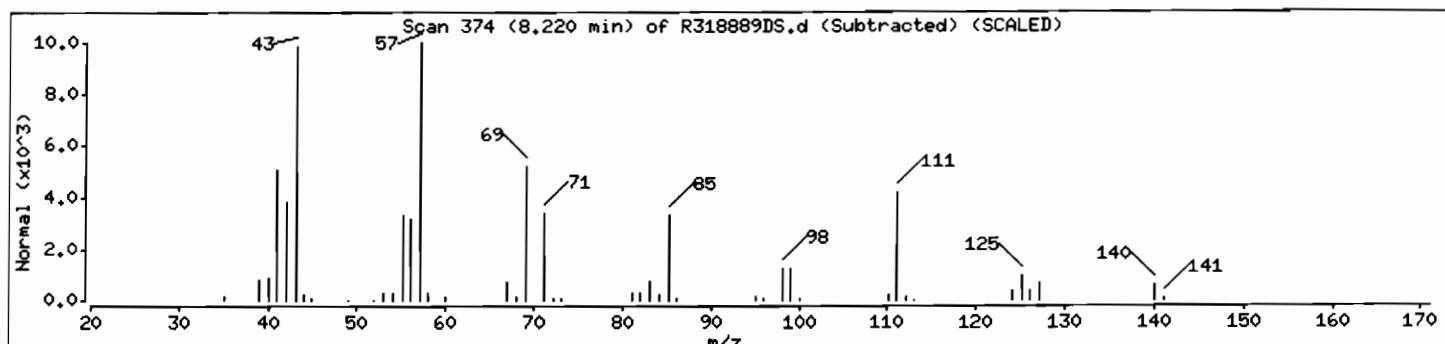
Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Undecane, 5,7-dimethyl-	17312-83-3	NBS75K.1	19013	10	C13H28	184
Nonane	111-84-2	NBS75K.1	65145	38	C9H20	128
Undecane, 3-methyl-	1002-43-3	NBS75K.1	15362	38	C12H26	170



000033

Date : 25-NOV-96 23:40:15

Client ID: SGP247810

Instrument: R.i

Sample Info: L#318889 CLI#SGP247810 ETR#62586

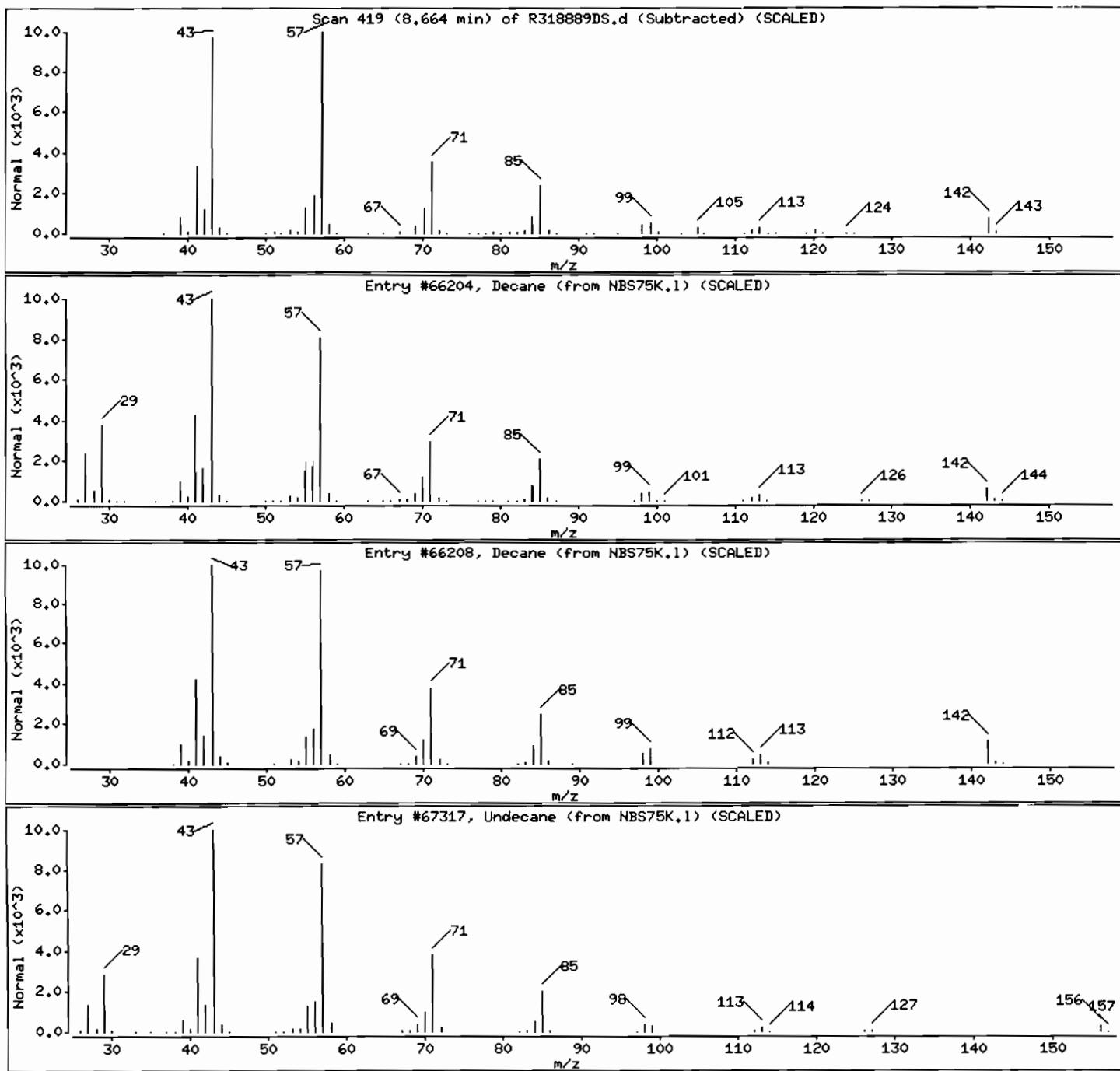
Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Decane	124-18-5	NBS75K.1	66204	94	C10H22	142
Decane	124-18-5	NBS75K.1	66208	91	C10H22	142
Undecane	1120-21-4	NBS75K.1	67317	90	C11H24	156



090004

Date : 25-NOV-96 23:40:15

Client ID: SGP247810

Instrument: R.i

Sample Info: L#318889 CLI#SGP247810 ETR#62586

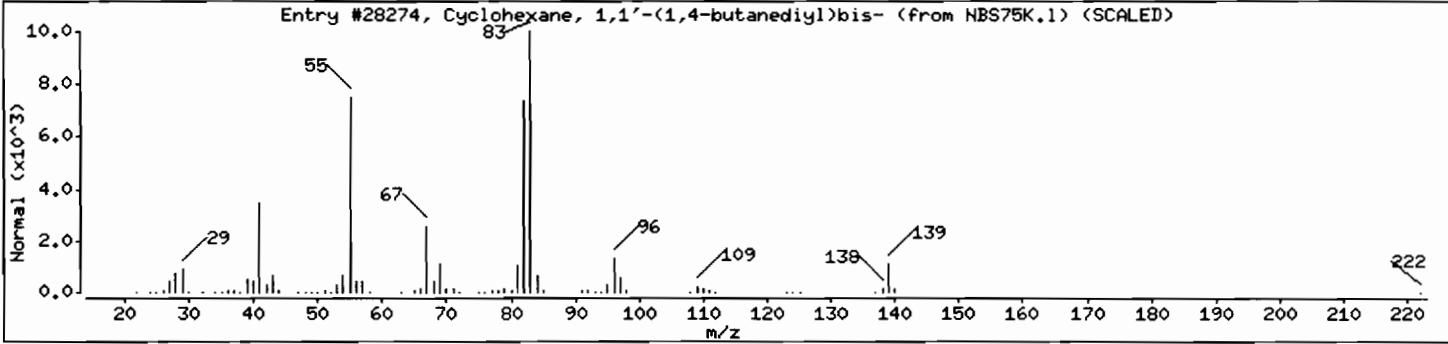
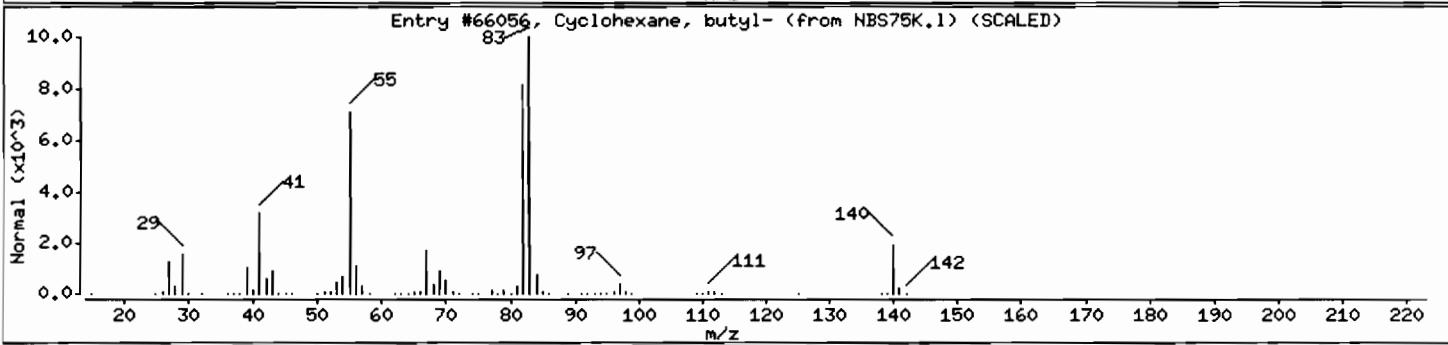
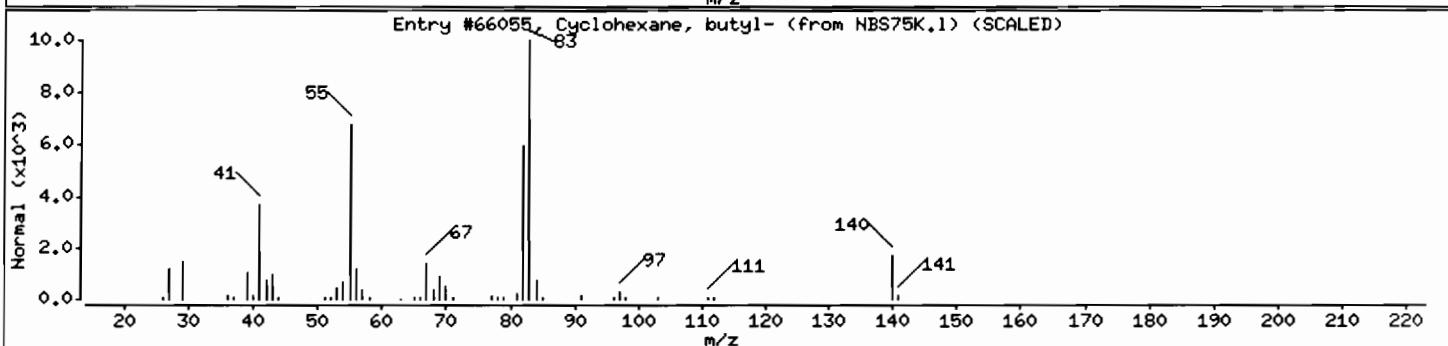
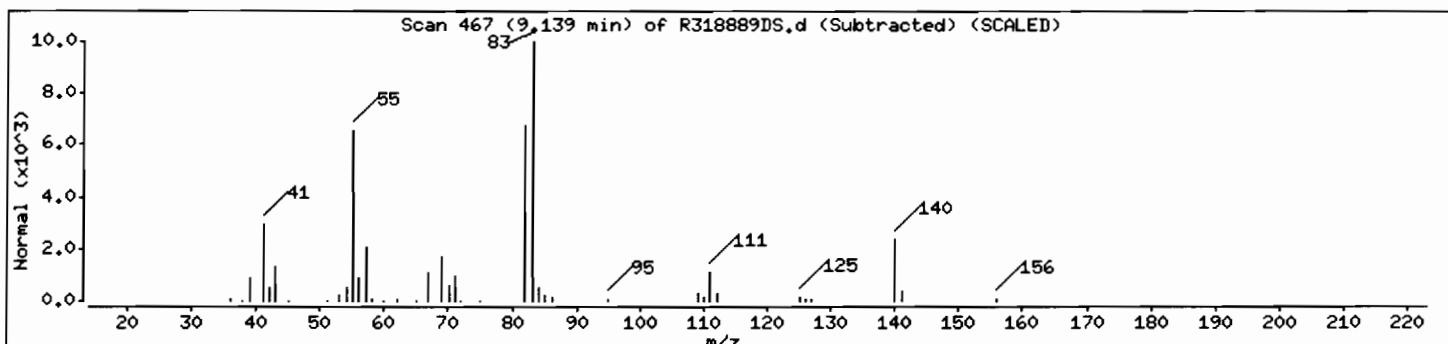
Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
Cyclohexane, butyl-	1678-93-9	NBS75K.1	66055	64	C10H20	140
Cyclohexane, butyl-	1678-93-9	NBS75K.1	66056	59	C10H20	140
Cyclohexane, 1,1'-(1,4-butanediyl)bis-	6165-44-2	NBS75K.1	28274	53	C16H30	222



090005

Date : 25-NOV-96 23:40:15

Client ID: SGP247810

Instrument: R.i

Sample Info: L#318889 CLI#SGP247810 ETR#62586

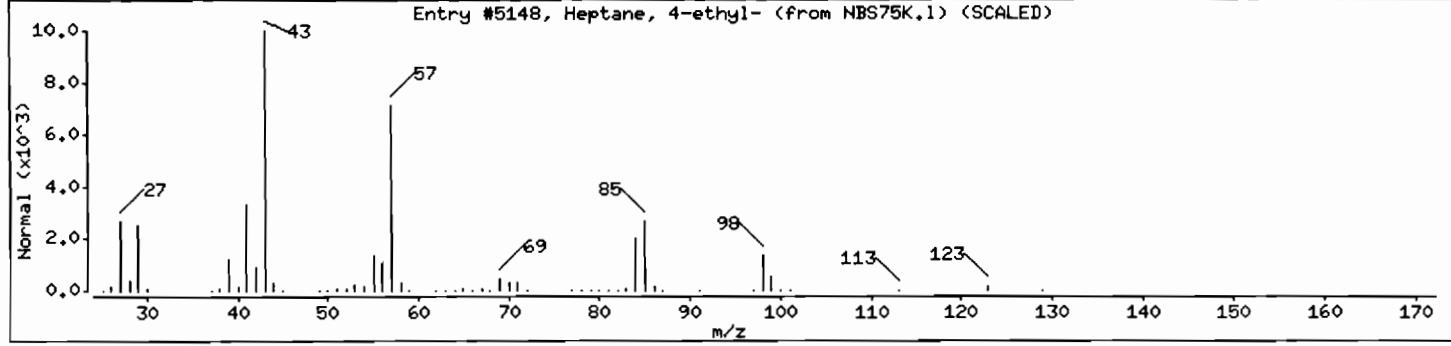
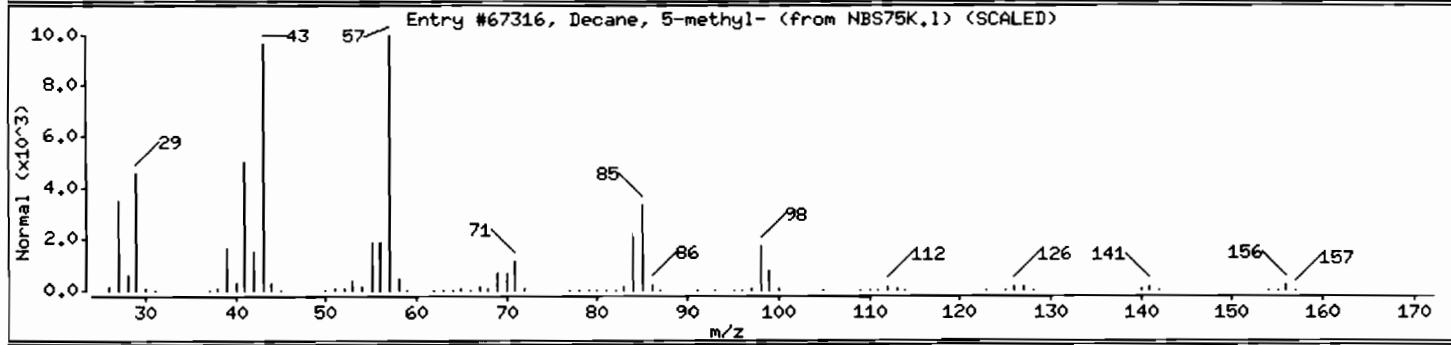
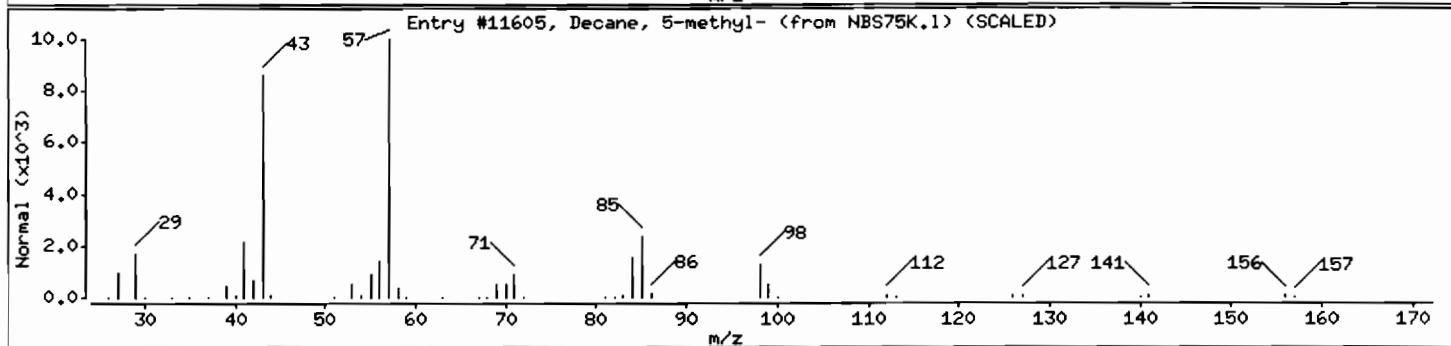
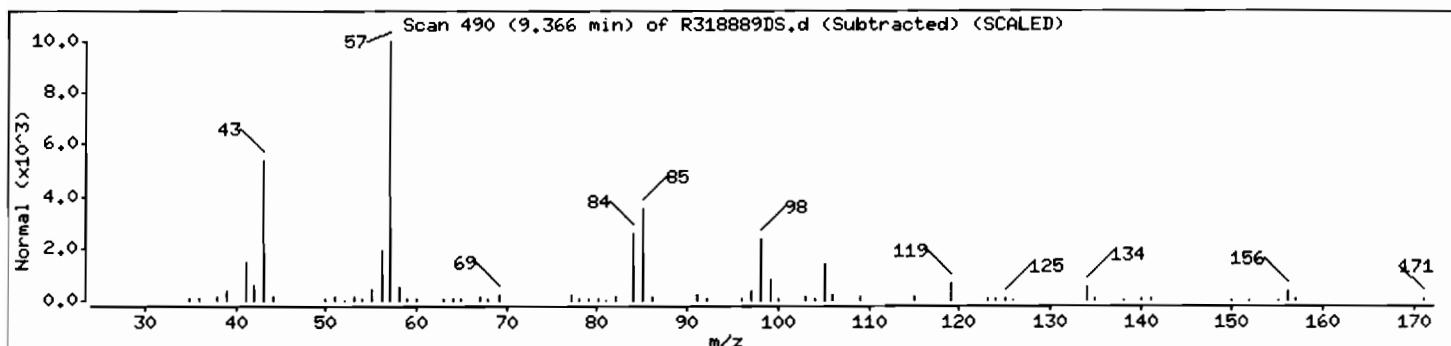
Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Decane, 5-methyl-	13151-35-4	NBS75K.1	11605	83	C11H24	156
Decane, 5-methyl-	13151-35-4	NBS75K.1	67316	80	C11H24	156
Heptane, 4-ethyl-	2216-32-2	NBS75K.1	5148	64	C9H20	128



0908046

Date : 25-NOV-96 23:40:15

Client ID: SGP247810

Instrument: R.i

Sample Info: L#318889 CLI#SGP247810 ETR#62586

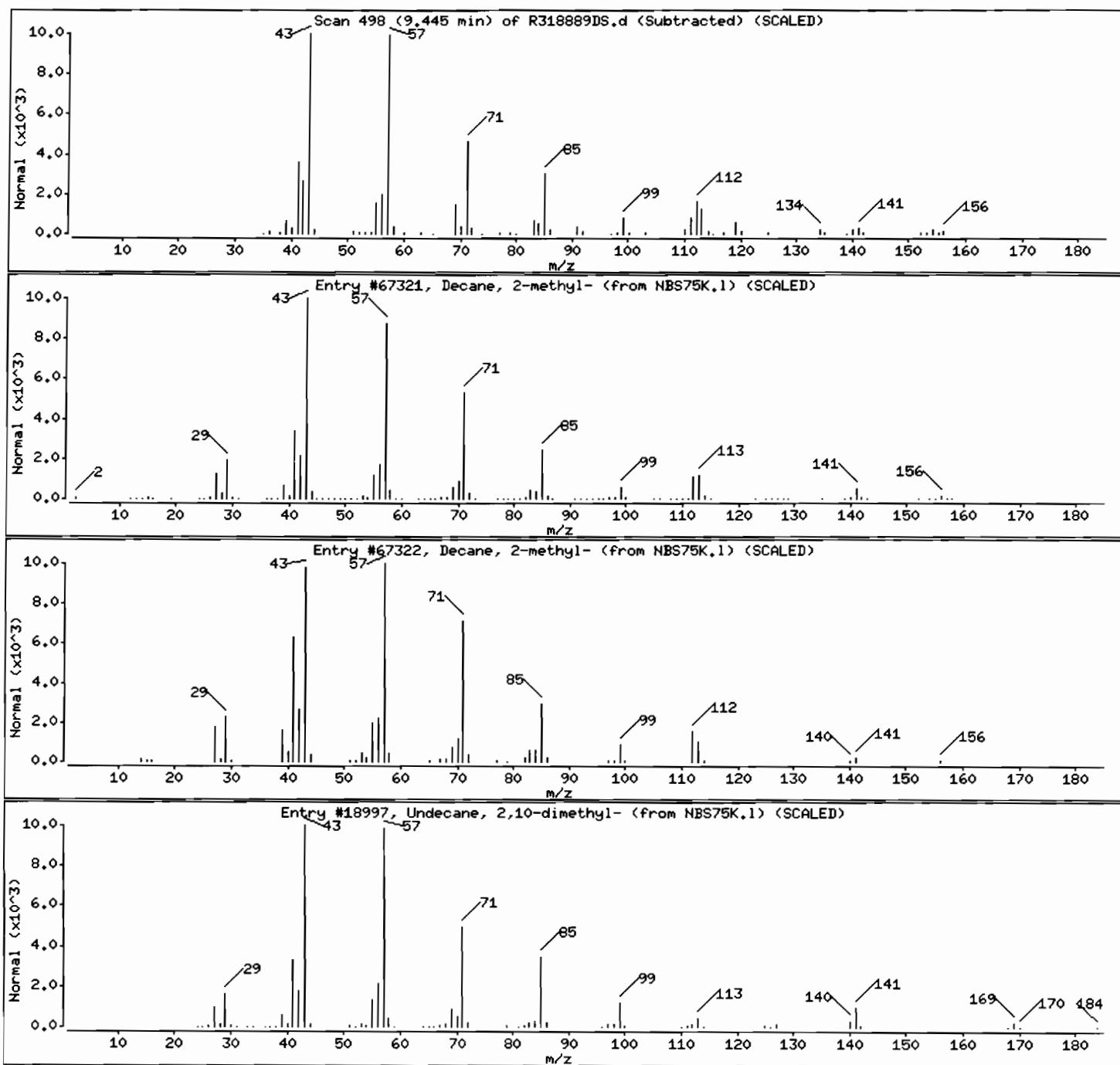
Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Decane, 2-methyl-	6975-98-0	NBS75K.1	67321	94	C11H24	156
Decane, 2-methyl-	6975-98-0	NBS75K.1	67322	64	C11H24	156
Undecane, 2,10-dimethyl-	17301-27-8	NBS75K.1	18997	59	C13H28	184



Date : 25-NOV-96 23:40:15

Client ID: SGP247810

Instrument: R.i

Sample Info: L#318889 CLI#SGP247810 ETR#62586

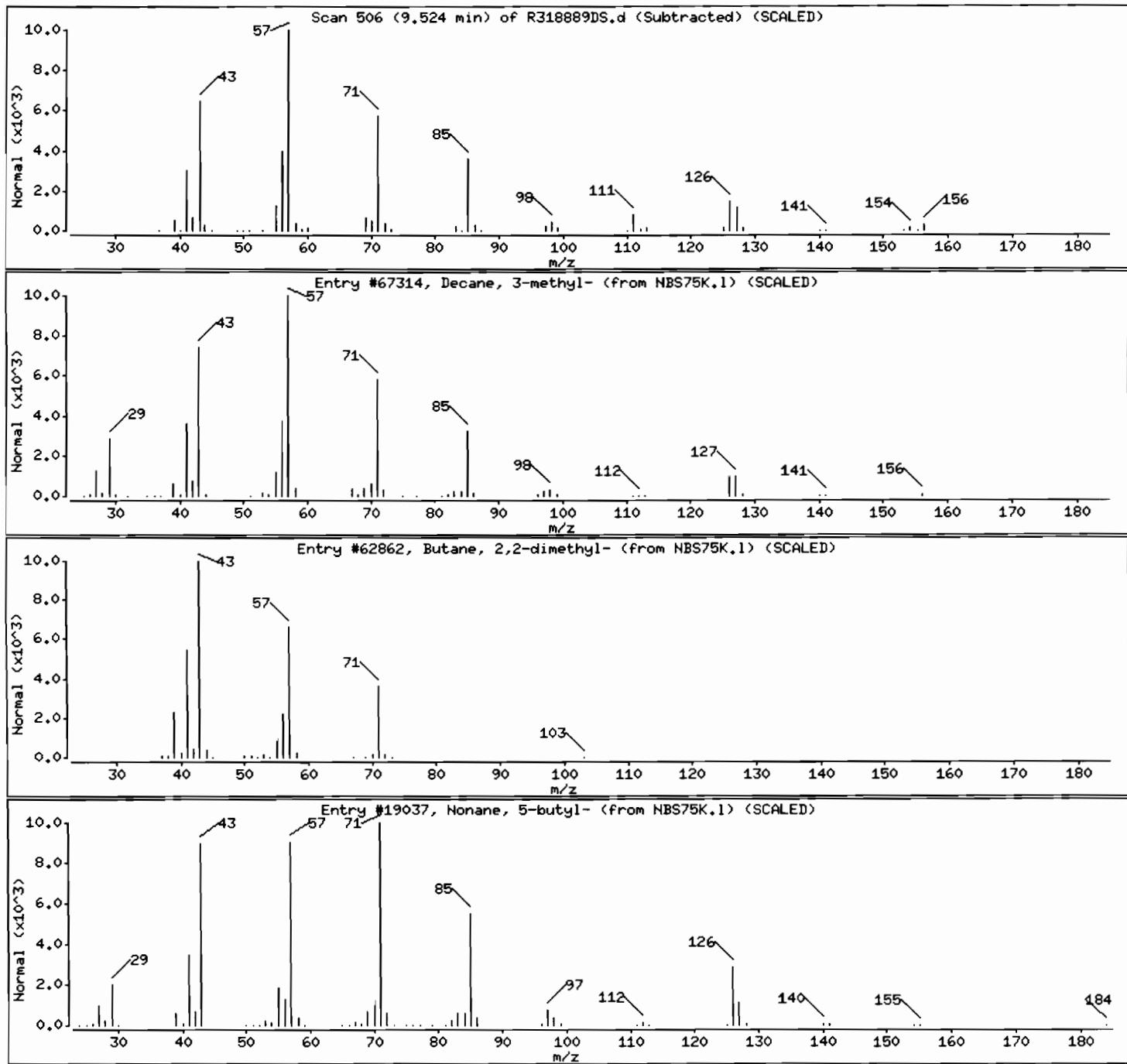
Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Decane, 3-methyl-	13151-34-3	NBS75K.1	67314	90	C11H24	156
Butane, 2,2-dimethyl-	75-83-2	NBS75K.1	62862	50	C6H14	86
Nonane, 5-butyl-	17312-63-9	NBS75K.1	19037	50	C13H28	184



Date : 25-NOV-96 23:40:15

Client ID: SGP247810

Instrument: R.i

Sample Info: L#318889 CLI#SGP247810 ETR#62586

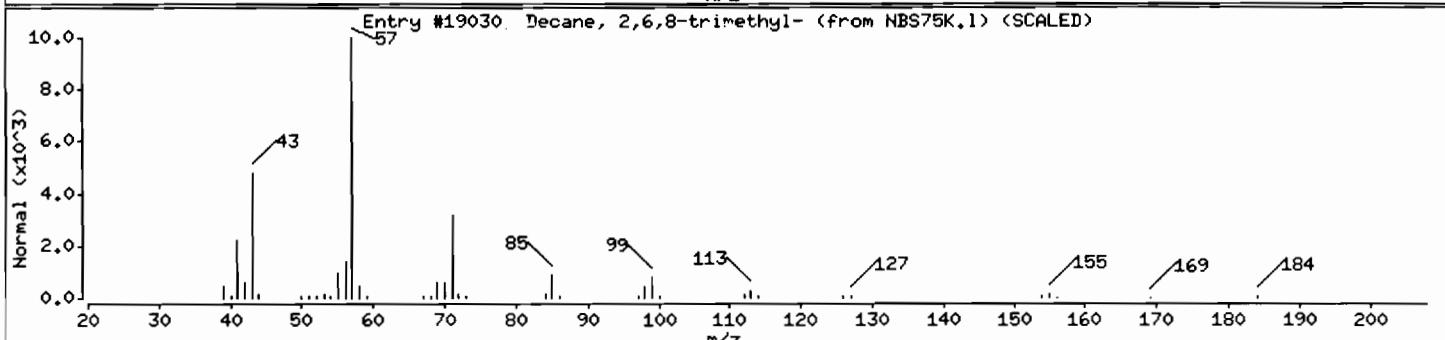
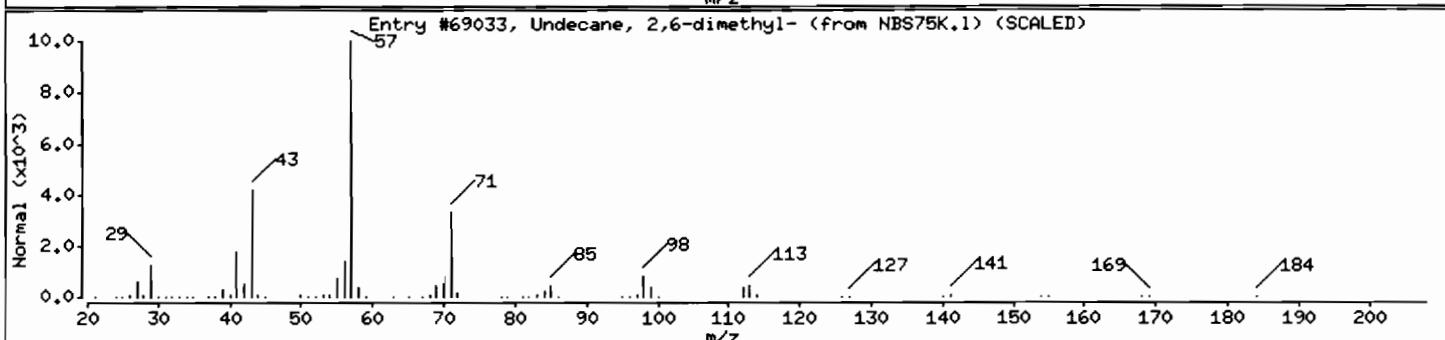
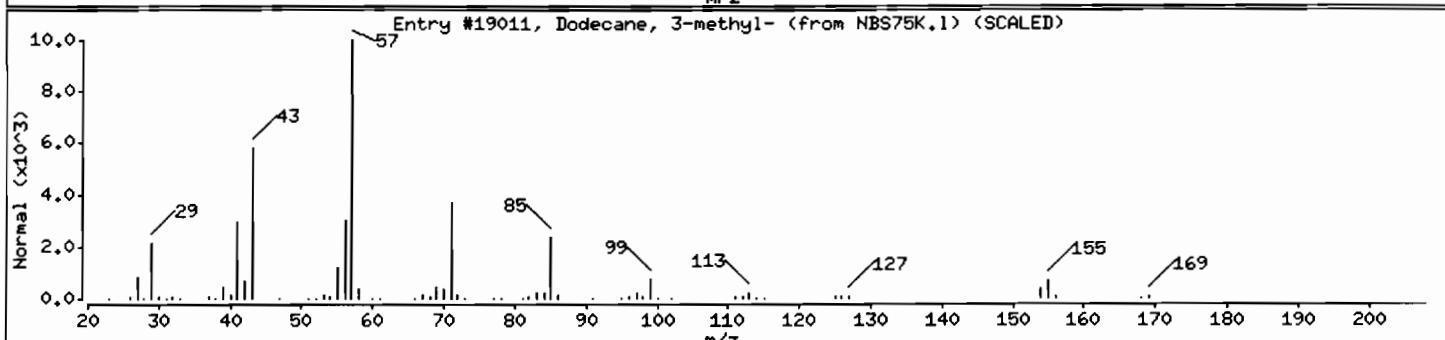
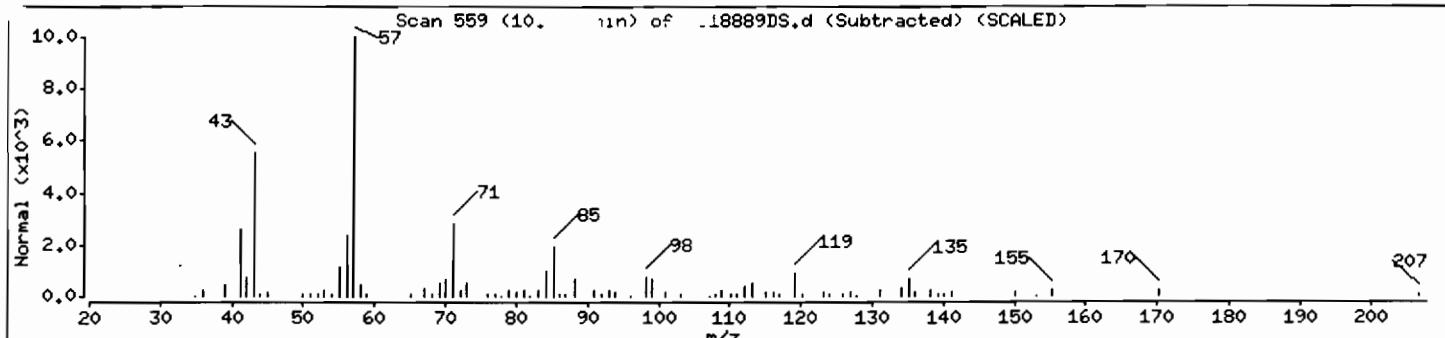
Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Dodecane, 3-methyl-	17312-57-1	NBS75K.1	19011	53	C13H28	184
Undecane, 2,6-dimethyl-	17301-23-4	NBS75K.1	69033	47	C13H28	184
Decane, 2,6,8-trimethyl-	62108-26-3	NBS75K.1	19030	47	C13H28	184



090059

Date : 25-NOV-96 23:40:15

Client ID: SGP247810

Instrument: R.i

Sample Info: L#318889 CLI#SGP247810 ETR#62586

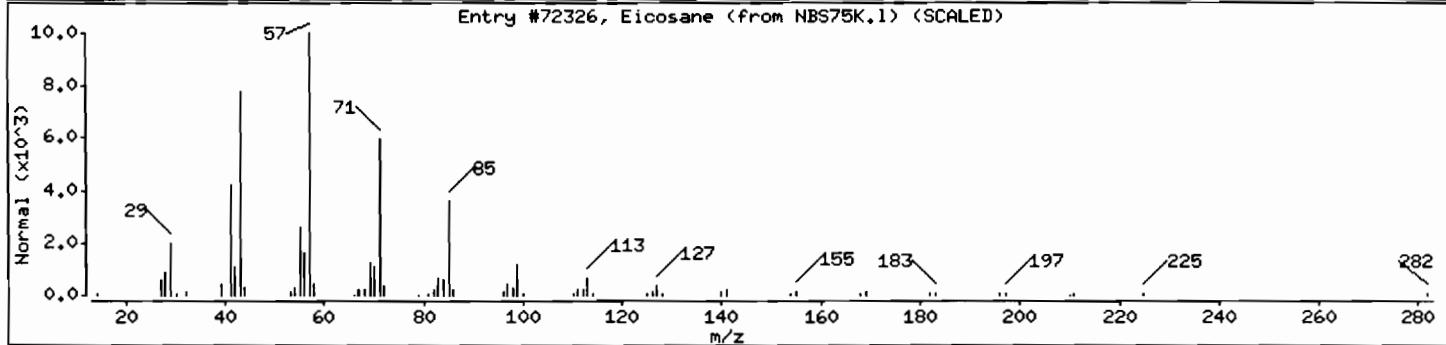
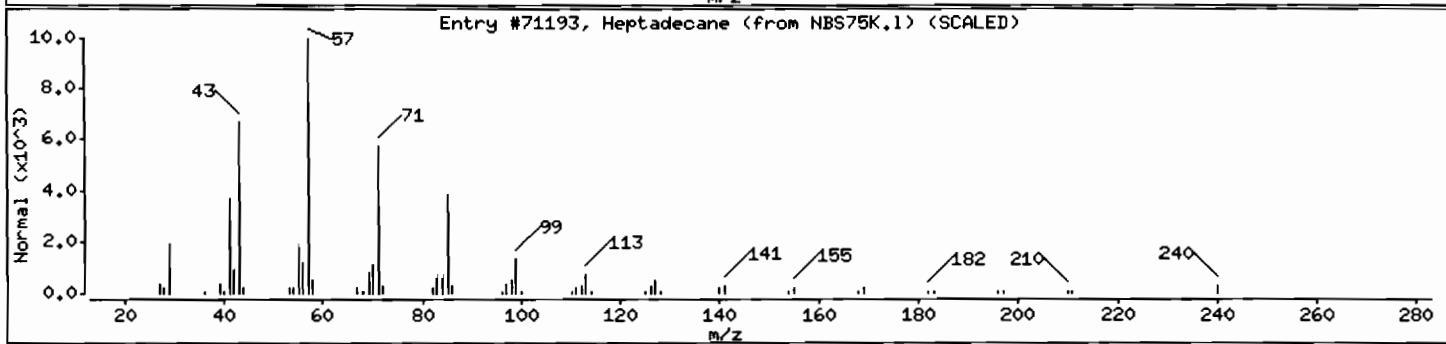
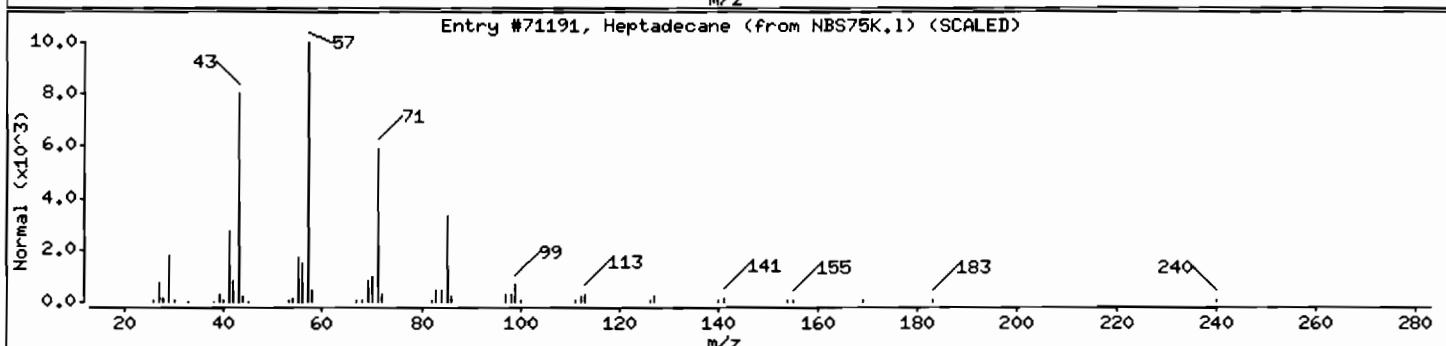
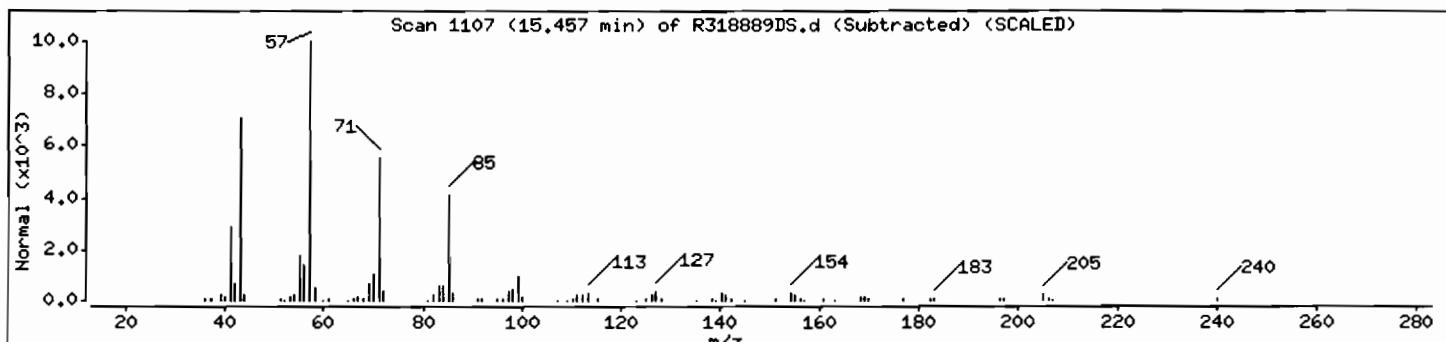
Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Heptadecane	629-78-7	NBS75K.1	71191	98	C17H36	240
Heptadecane	629-78-7	NBS75K.1	71193	94	C17H36	240
Eicosane	112-95-8	NBS75K.1	72326	90	C20H42	282



Date : 25-NOV-96 23:40:15

Client ID: SGP247810

Instrument: R.i

Sample Info: L#318889 CLI#SGP247810 ETR#62586

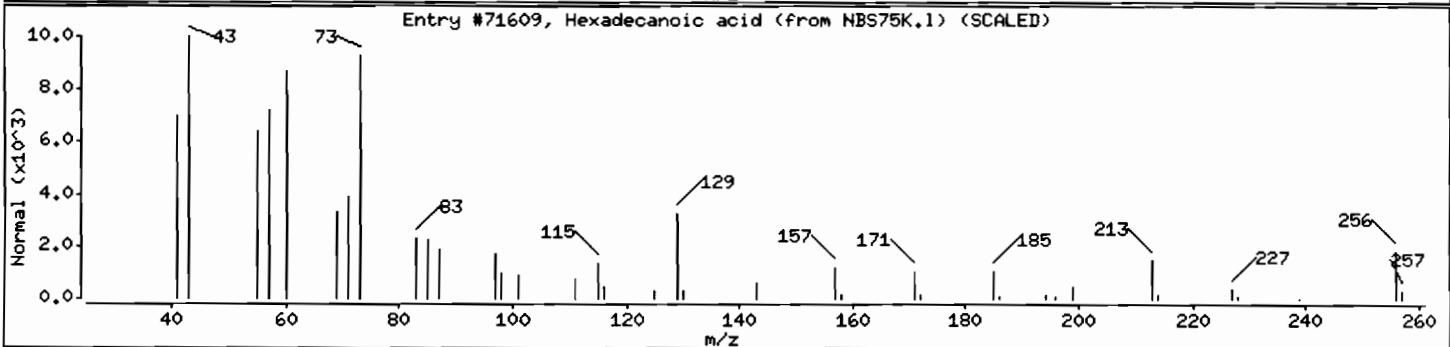
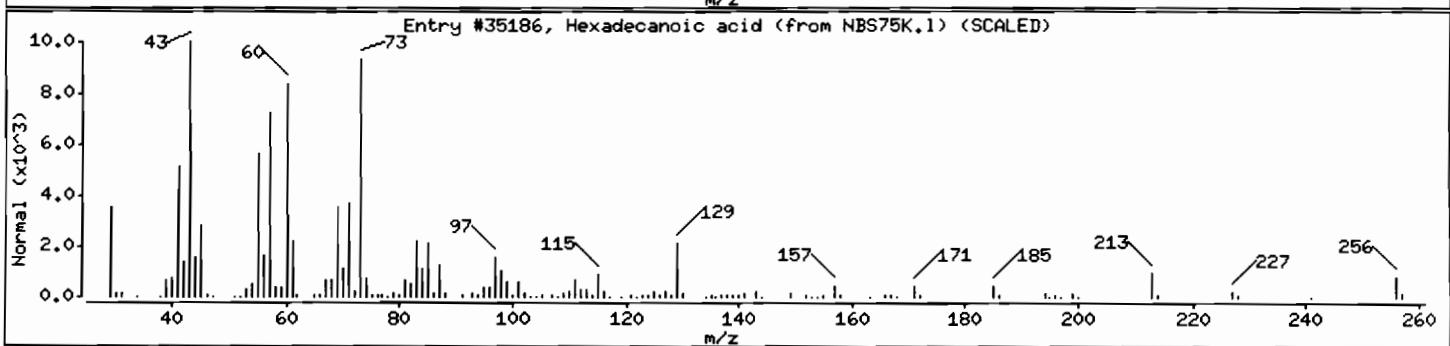
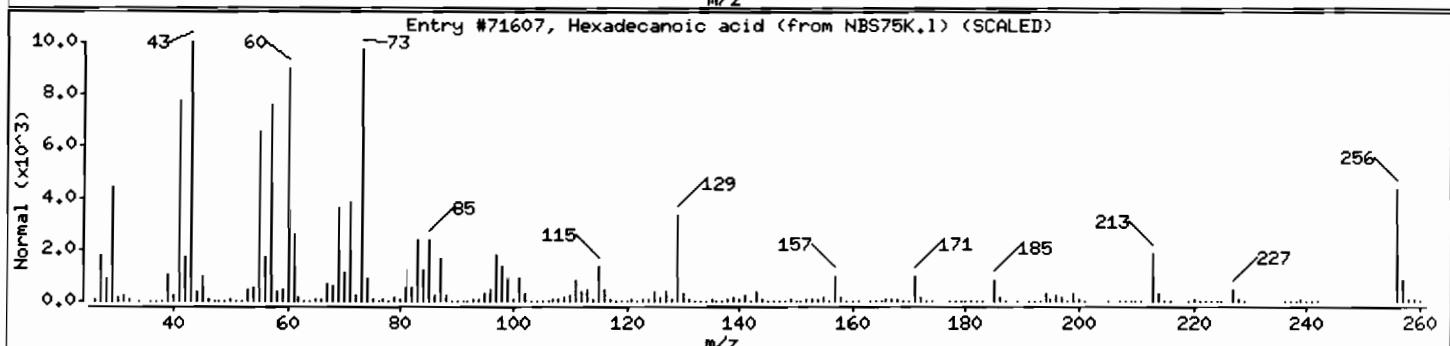
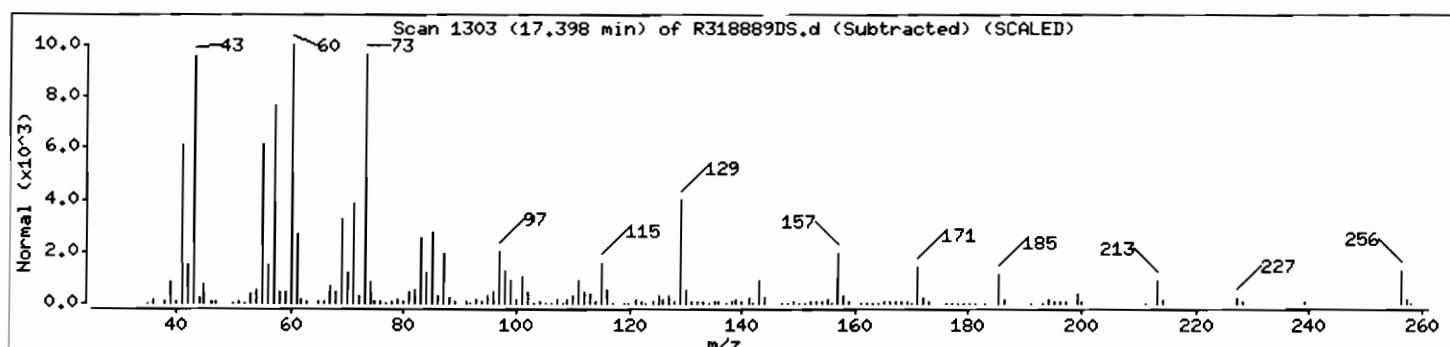
Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexadecanoic acid	57-10-3	NBS75K.1	71607	94	C16H32O2	256
Hexadecanoic acid	57-10-3	NBS75K.1	35186	94	C16H32O2	256
Hexadecanoic acid	57-10-3	NBS75K.1	71609	93	C16H32O2	256



090041

Date : 25-NOV-96 23:40:15

Client ID: SGP247810

Instrument: R.i

Sample Info: L#318889 CLI#SGP247810 ETR#62586

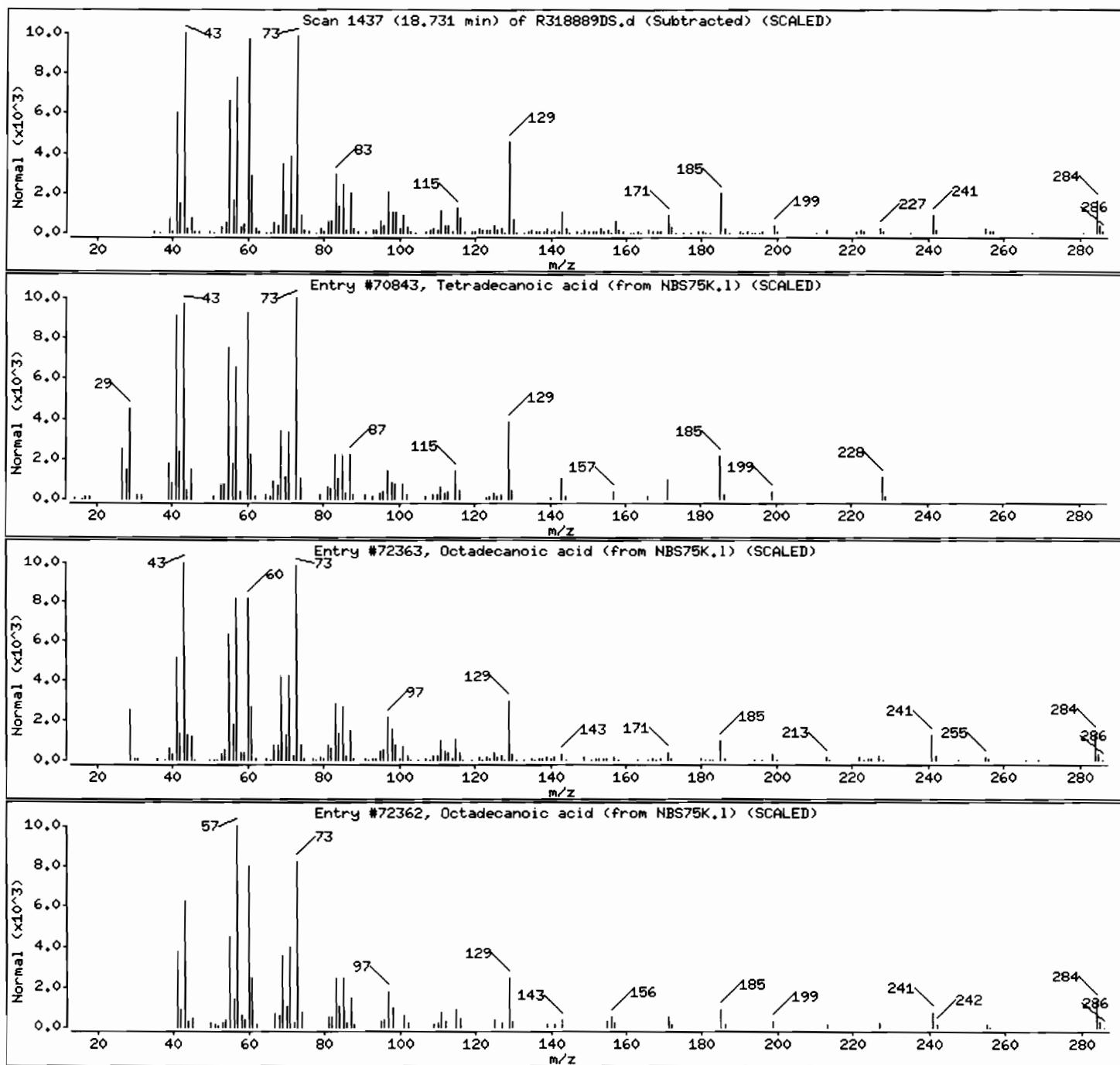
Volume Injected (μL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tetradecanoic acid	544-63-8	NBS75K.1	70843	97	C14H28O2	228
Octadecanoic acid	57-11-4	NBS75K.1	72363	95	C18H36O2	284
Octadecanoic acid	57-11-4	NBS75K.1	72362	94	C18H36O2	284



Date : 25-NOV-96 23:40:15

Client ID: SGP247810

Instrument: R.i

Sample Info: L#318889 CLI#SGP247810 ETR#62586

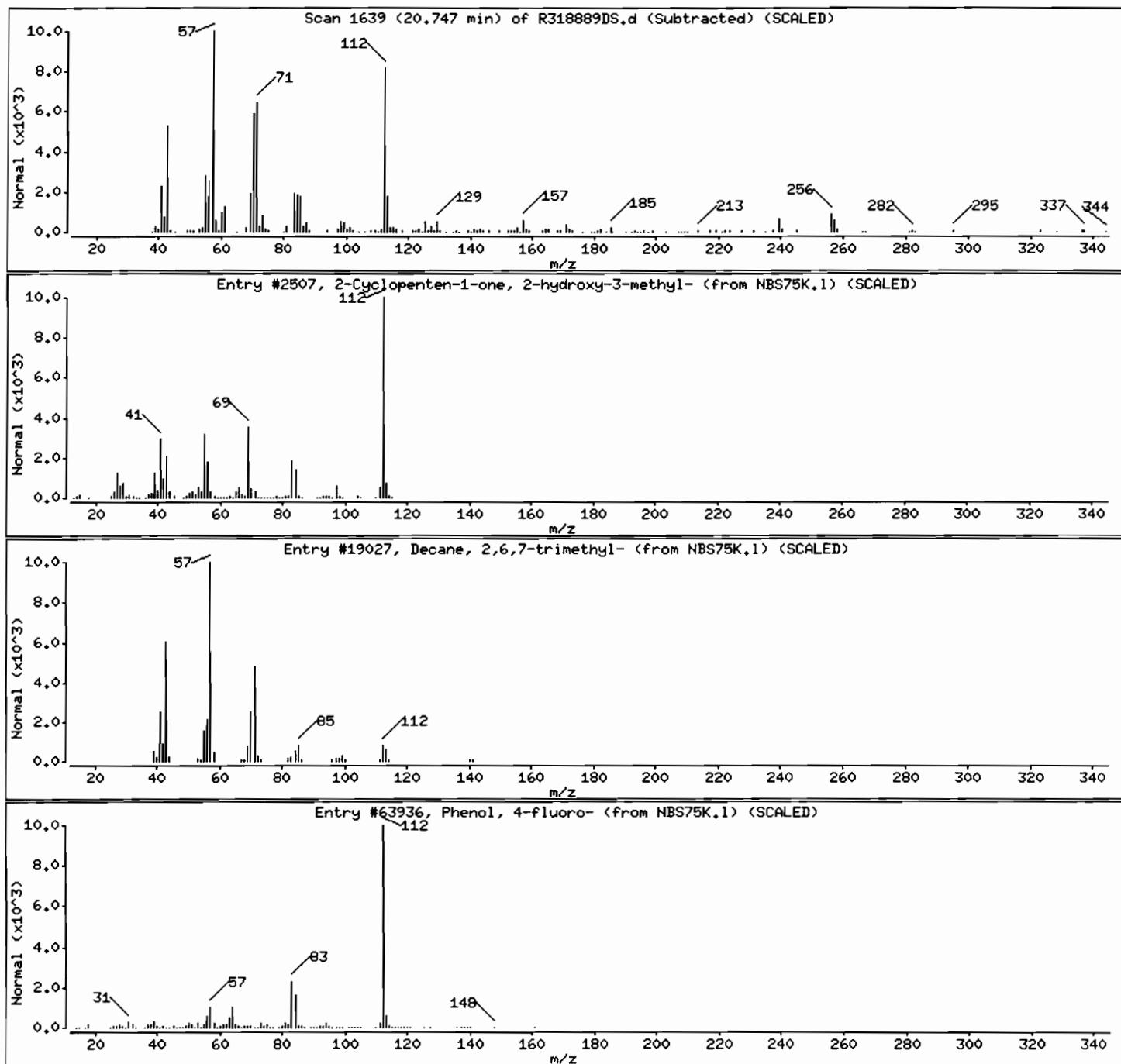
Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic ketone						
2-Cyclopenten-1-one, 2-hydroxy-3-methyl-	80-71-7	NBS75K.1	2507	38	C6H8O2	112
Decane, 2,6,7-trimethyl-	62108-25-2	NBS75K.1	19027	32	C13H28	184
Phenol, 4-fluoro-	371-41-5	NBS75K.1	63936	32	C6H5FO	112



090043

Date : 25-NOV-96 23:40:15

Client ID: SGP247810

Instrument: R.i

Sample Info: L#318889 CLI#SGP247810 ETR#62586

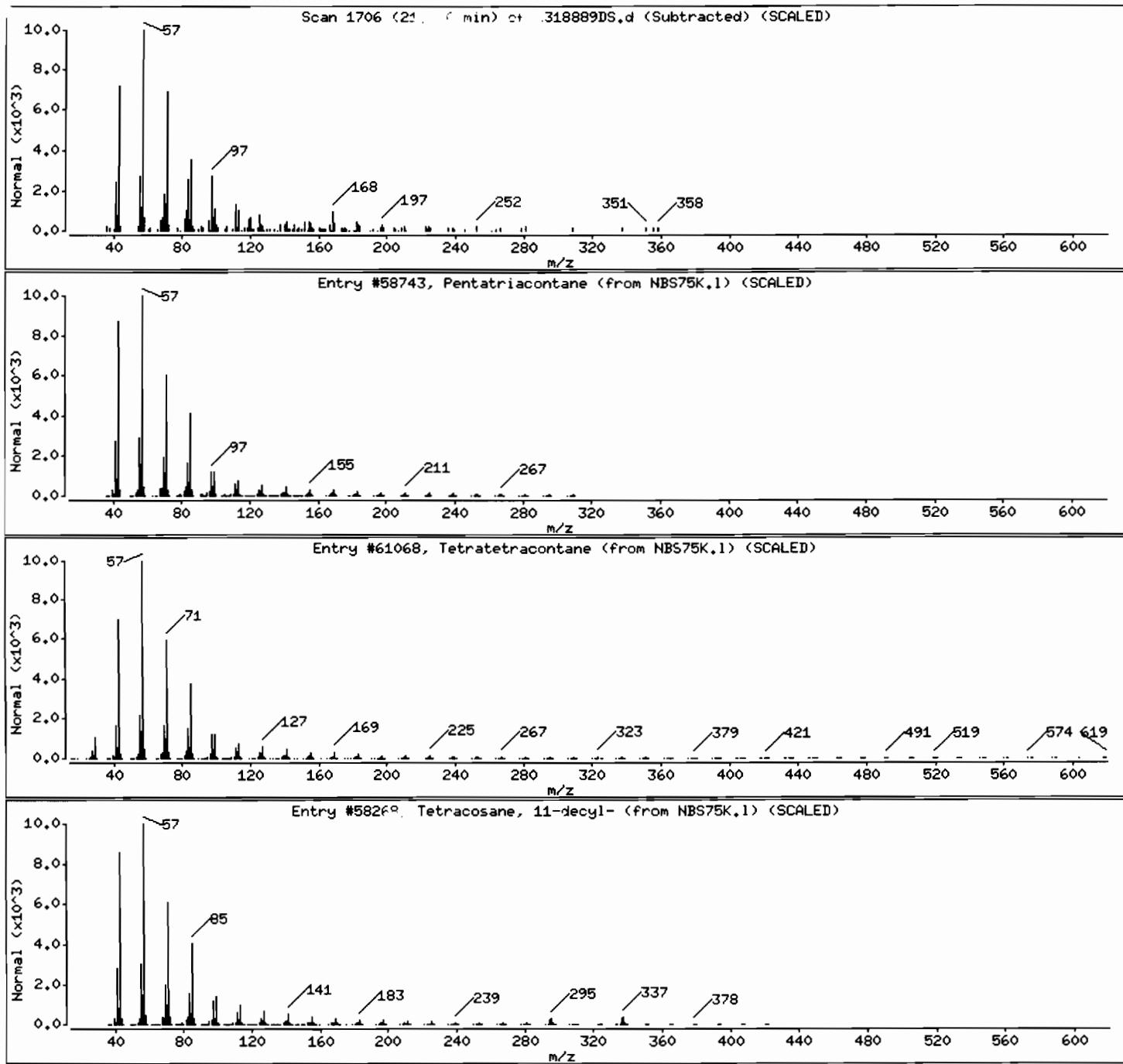
Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Pentatriacontane	630-07-9	NBS75K,1	58743	76	C35H72	493
Tetratetracontane	7098-22-8	NBS75K,1	61068	68	C44H90	619
Tetracosane, 11-decyl-	55429-84-0	NBS75K,1	58268	64	C34H70	479



090944

Date : 25-NOV-96 23:40:15

Client ID: SGP247810

Instrument: R.i

Sample Info: L#318889 CLI#SGP247810 ETR#62586

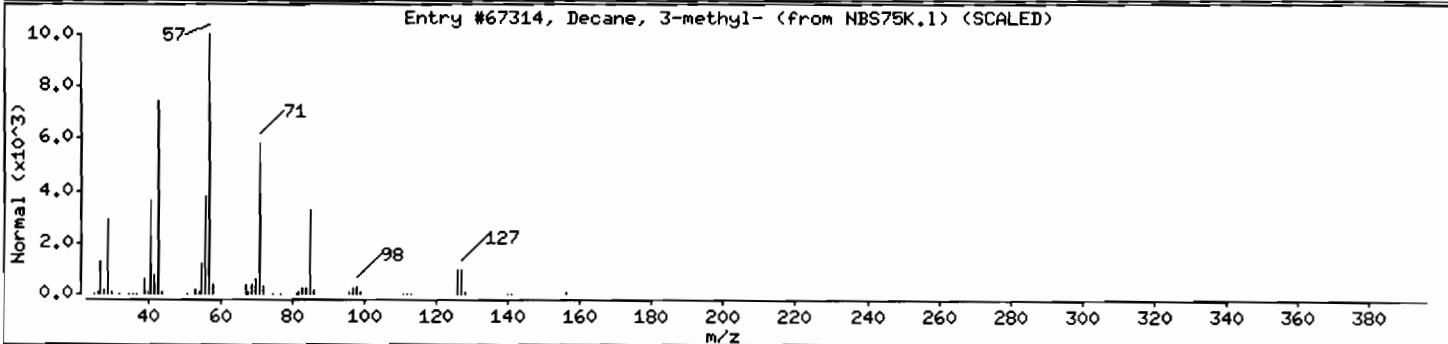
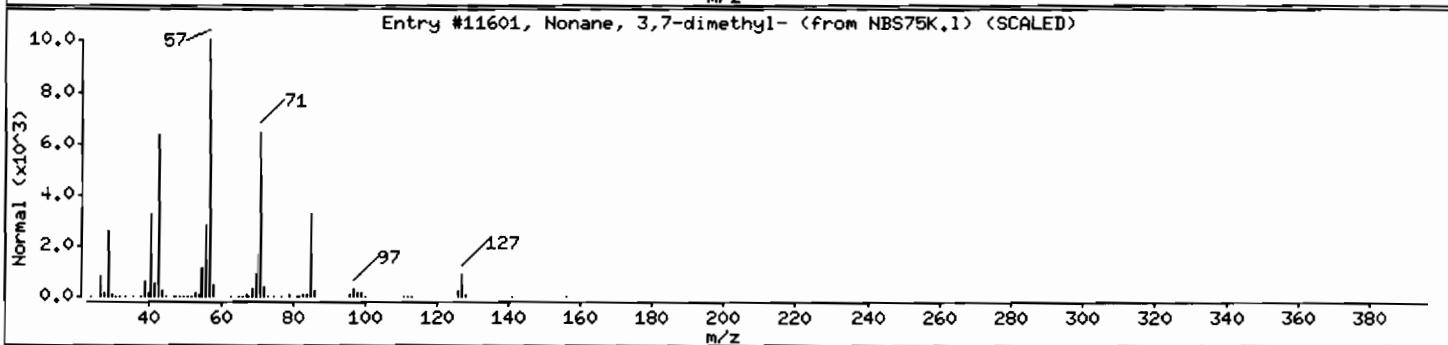
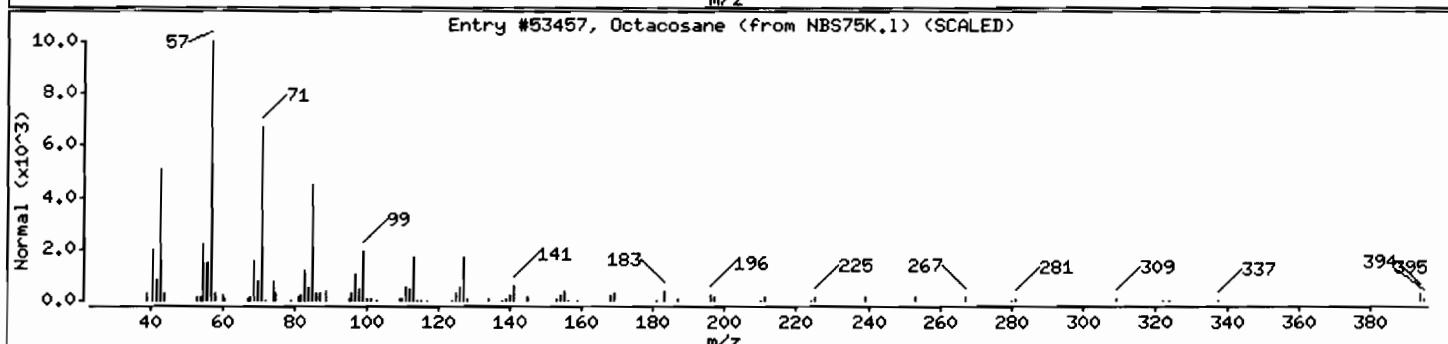
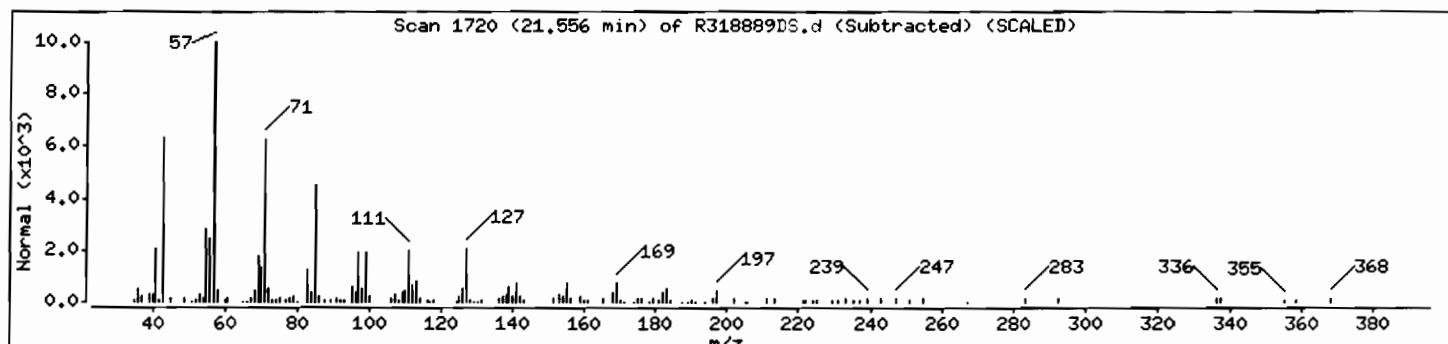
Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Octacosane	630-02-4	NBS75K.1	53457	72	C28H58	394
Nonane, 3,7-dimethyl-	17302-32-8	NBS75K.1	11601	70	C11H24	156
Decane, 3-methyl-	13151-34-3	NBS75K.1	67314	53	C11H24	156



Date : 25-NOV-96 23:40:15

Client ID: SGP247810

Instrument: R.i

Sample Info: L#318889 CLI#SGP247810 ETR#62586

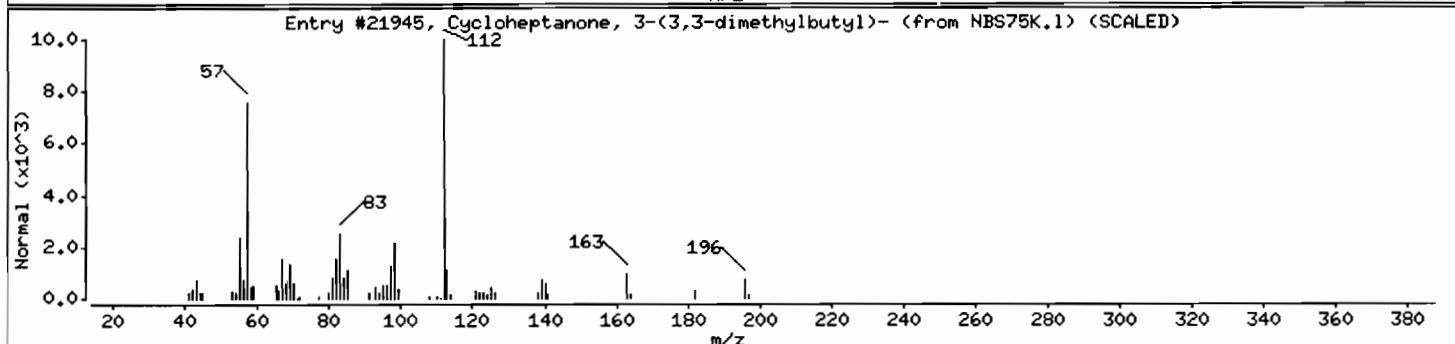
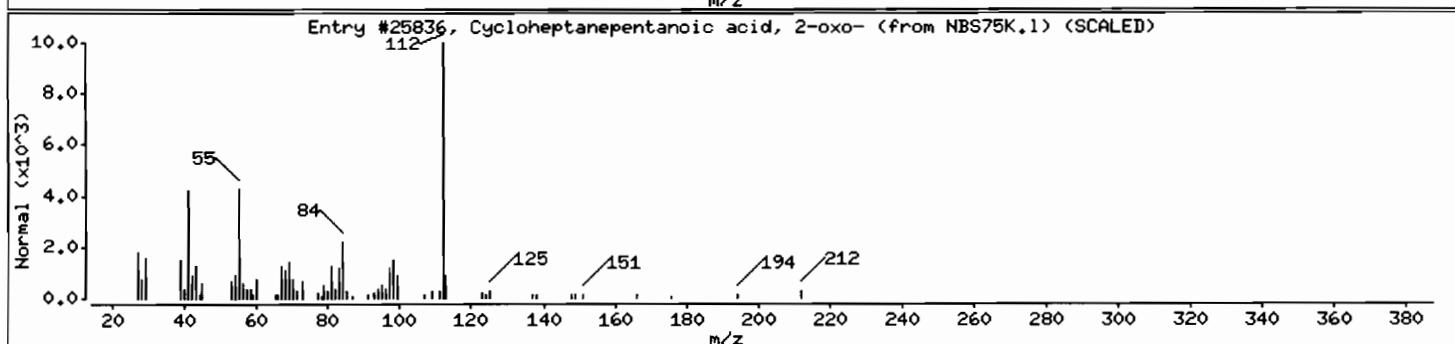
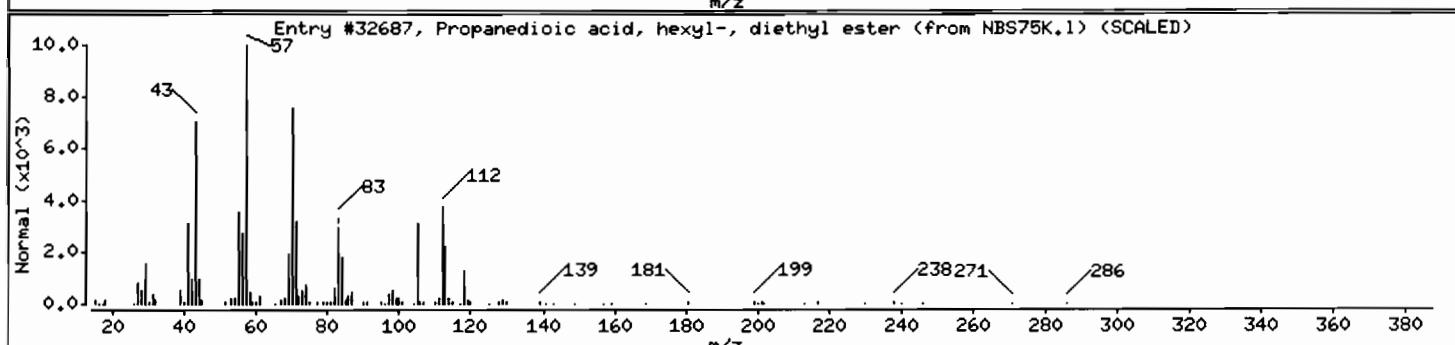
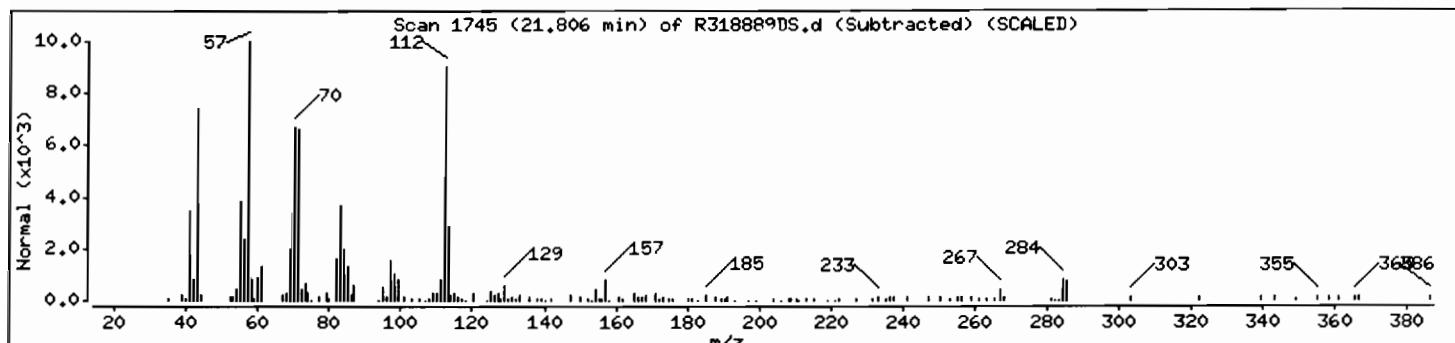
Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic acid						
Propanedioic acid, hexyl-, diethyl ester	5398-10-7	NBS75K.1	32687	43	C13H24O4	244
Cycloheptanepentanoic acid, 2-oxo-	33371-95-8	NBS75K.1	25836	38	C12H20O3	212
Cycloheptanone, 3-(3,3-dimethylbutyl)-	40564-95-2	NBS75K.1	21945	35	C13H24O	196



Date : 25-NOV-96 23:40:15

Client ID: SGP247810

Instrument: R.i

Sample Info: L#318889 CLI#SGP247810 ETR#62586

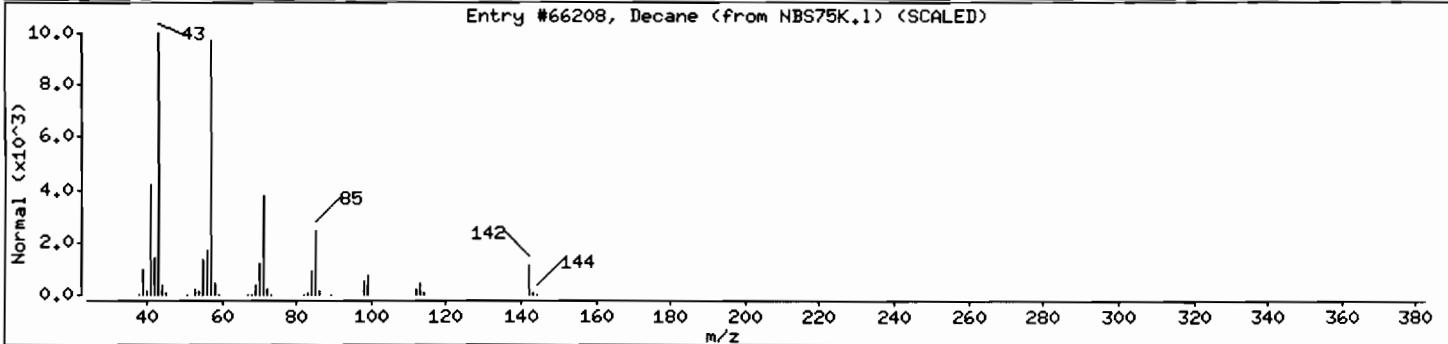
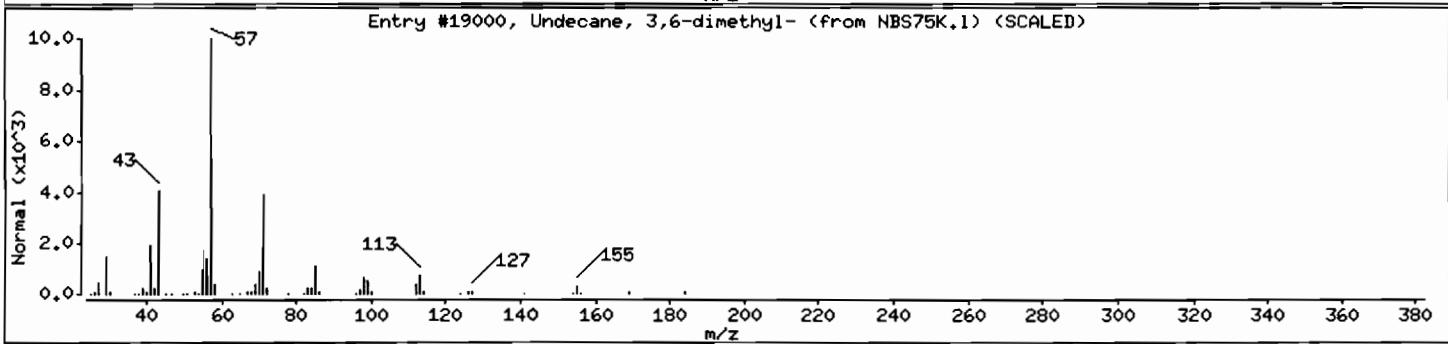
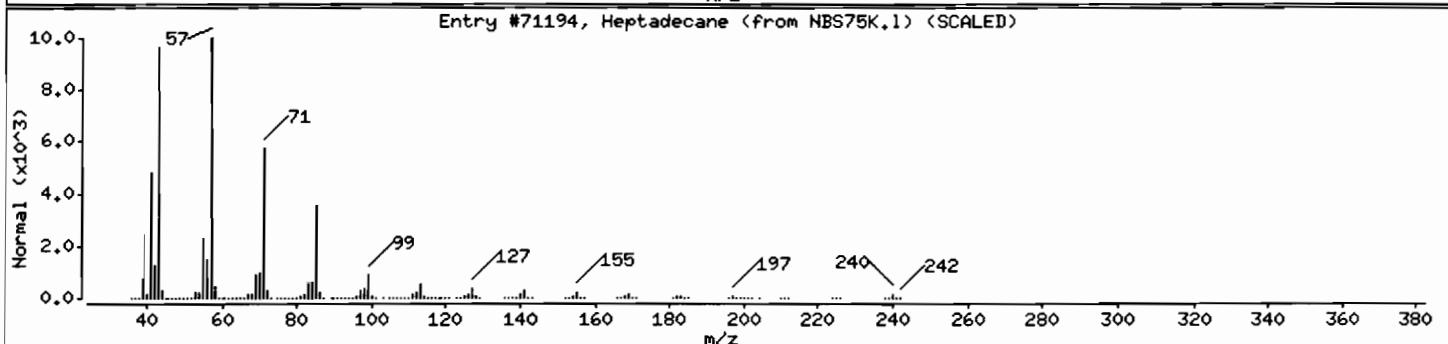
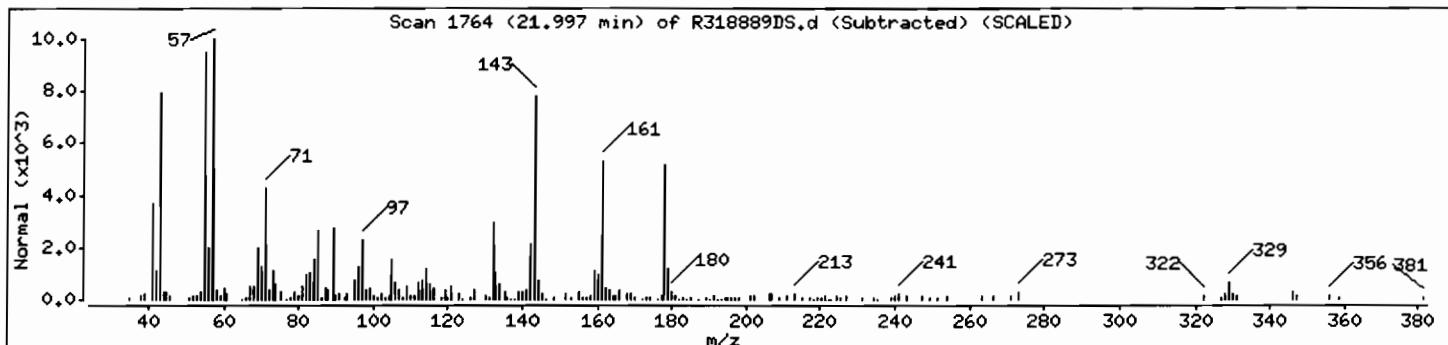
Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Heptadecane	629-78-7	NBS75K.1	71194	25	C17H36	240
Undecane, 3,6-dimethyl-	17301-28-9	NBS75K.1	19000	25	C13H28	184
Decane	124-18-5	NBS75K.1	66208	20	C10H22	142



Date : 25-NOV-96 23:40:15

Client ID: SGP247810

Instrument: R.i

Sample Info: L#318889 CLI#SGP247810 ETR#62586

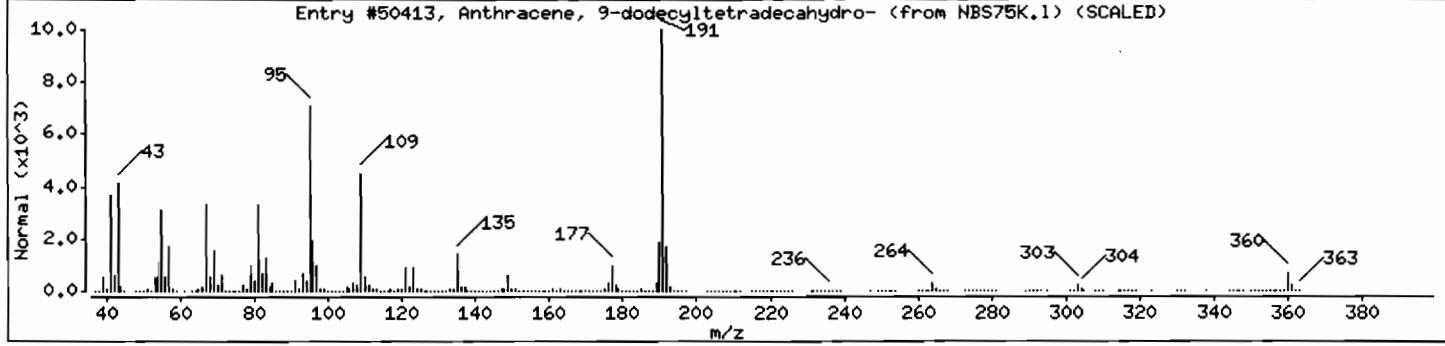
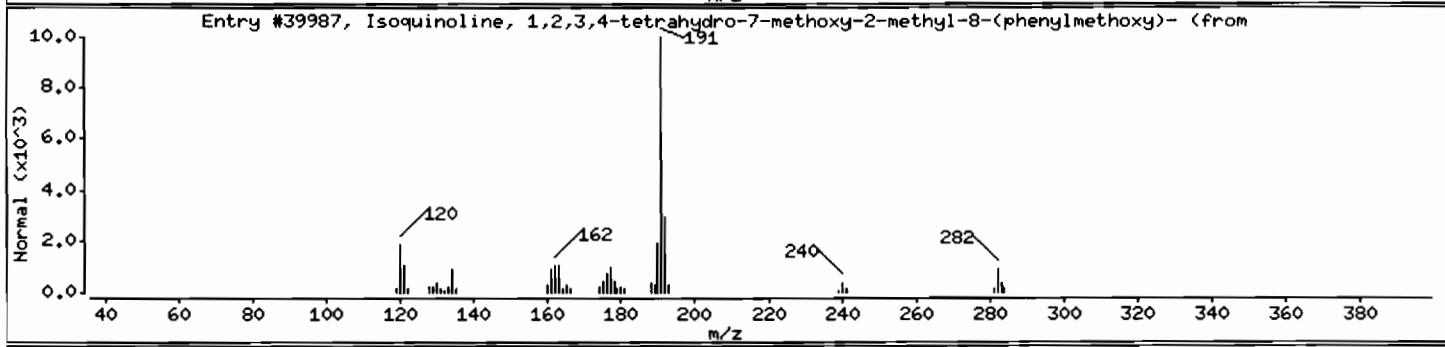
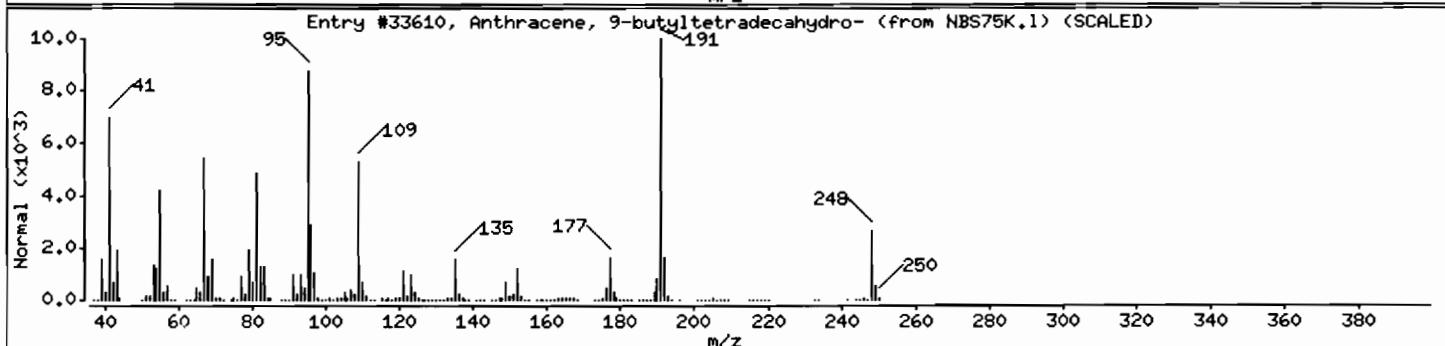
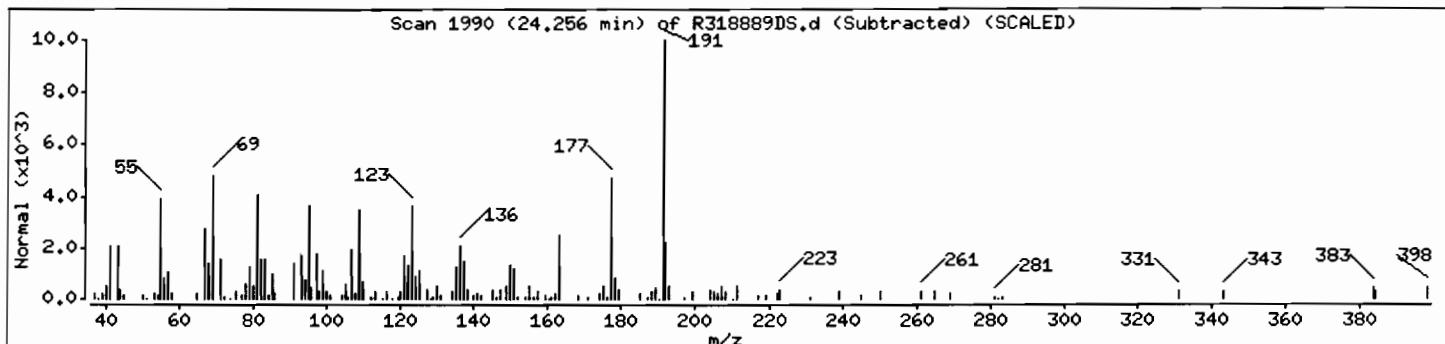
Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown polycyclic hydrocarbon						
Anthracene, 9-butyltetradecahydro-	55133-89-6	NBS75K.1	33610	37	C18H32	248
Isoquinoline, 1,2,3,4-tetrahydro-7-metho	36646-87-4	NBS75K.1	39987	32	C18H21N02	283
Anthracene, 9-dodecyltetradecahydro-	55401-75-7	NBS75K.1	50413	32	C26H48	360



Date : 25-NOV-96 23:40:15

Client ID: SGP247810

Instrument: R.i

Sample Info: L#318889 CLI#SGP247810 ETR#62586

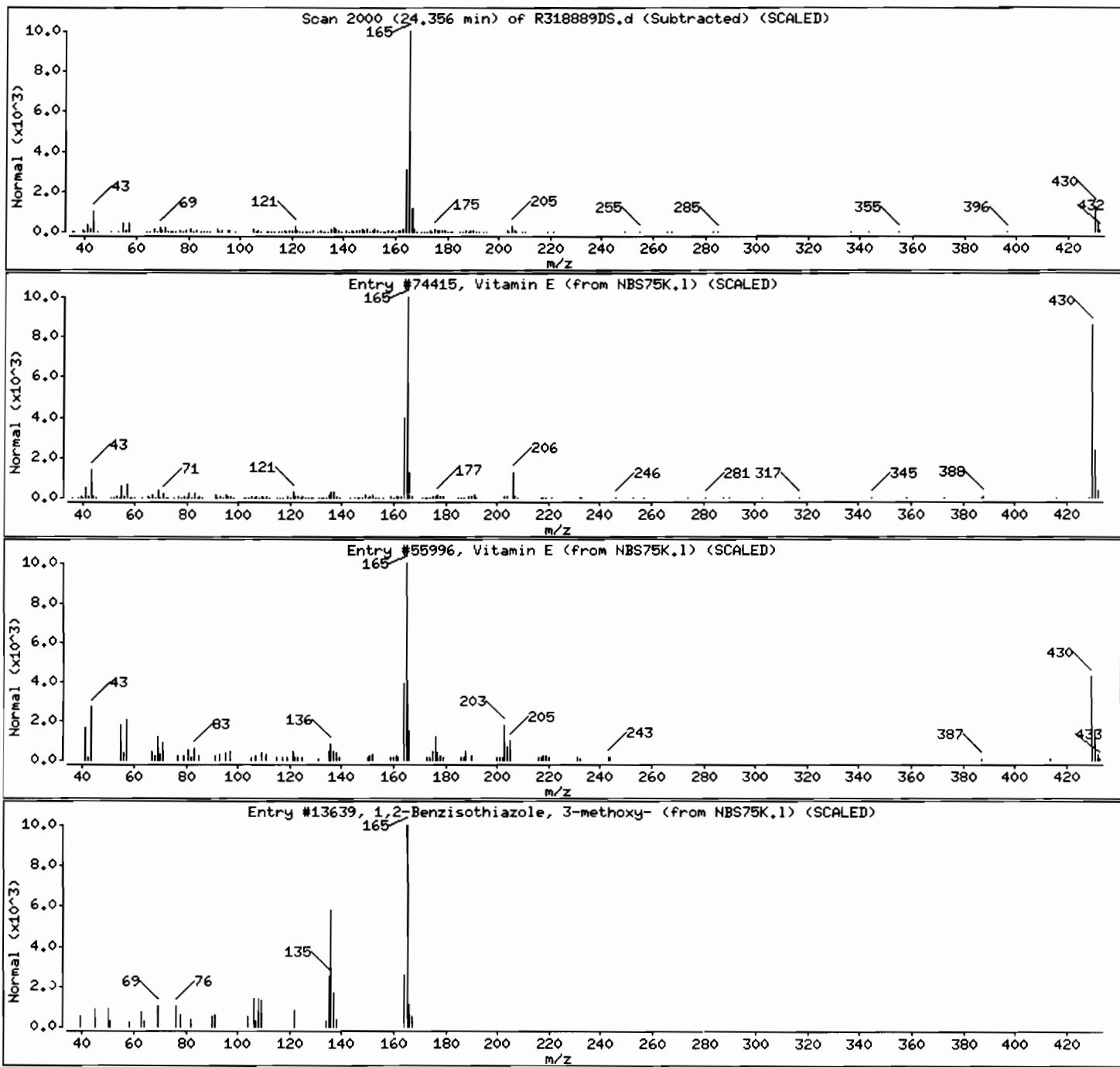
Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Vitamin E	59-02-9	NBS75K.1	74415	78	C29H50O2	430
Vitamin E	59-02-9	NBS75K.1	55996	10	C29H50O2	430
1,2-Benzisothiazole, 3-methoxy-	40991-38-6	NBS75K.1	13639	9	C8H7NOS	165



Date : 25-NOV-96 23:40:15

Client ID: SGP247810

Instrument: R.i

Sample Info: L#318889 CLI#SGP247810 ETR#62586

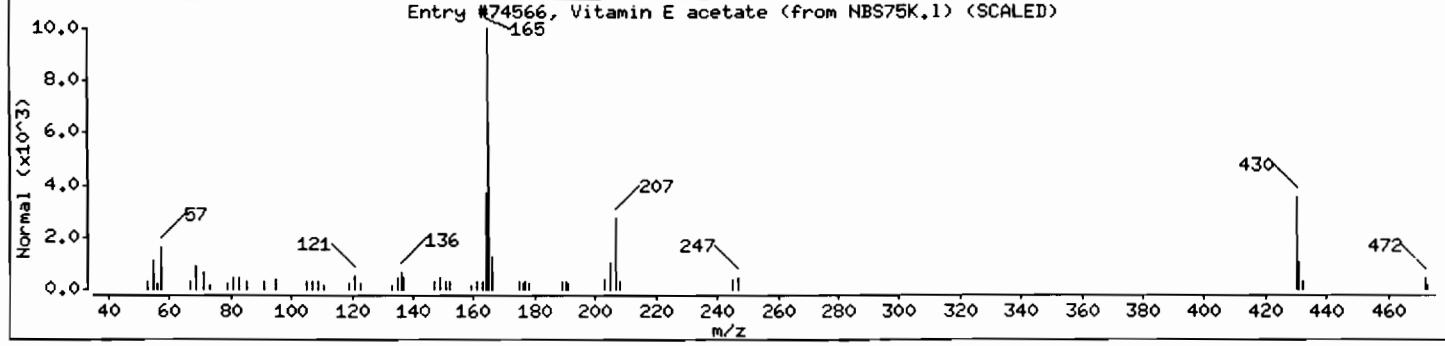
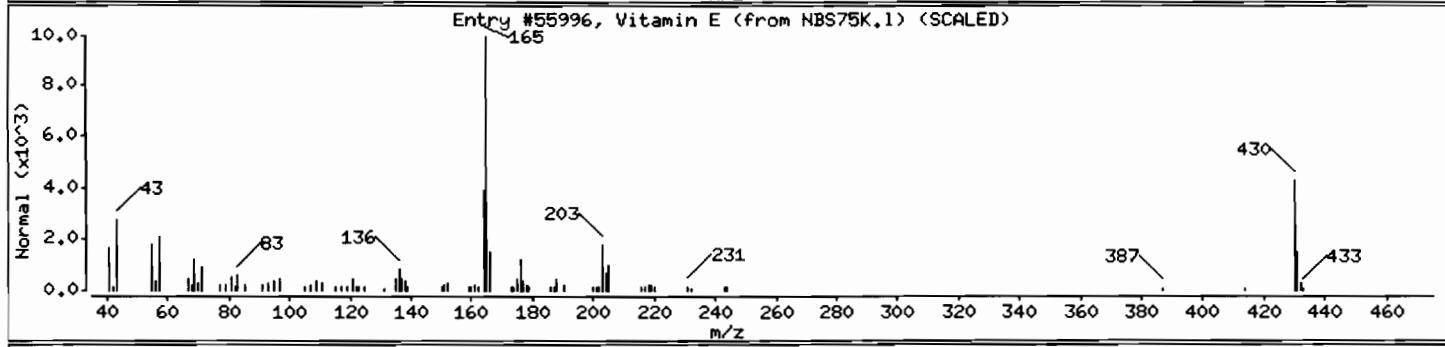
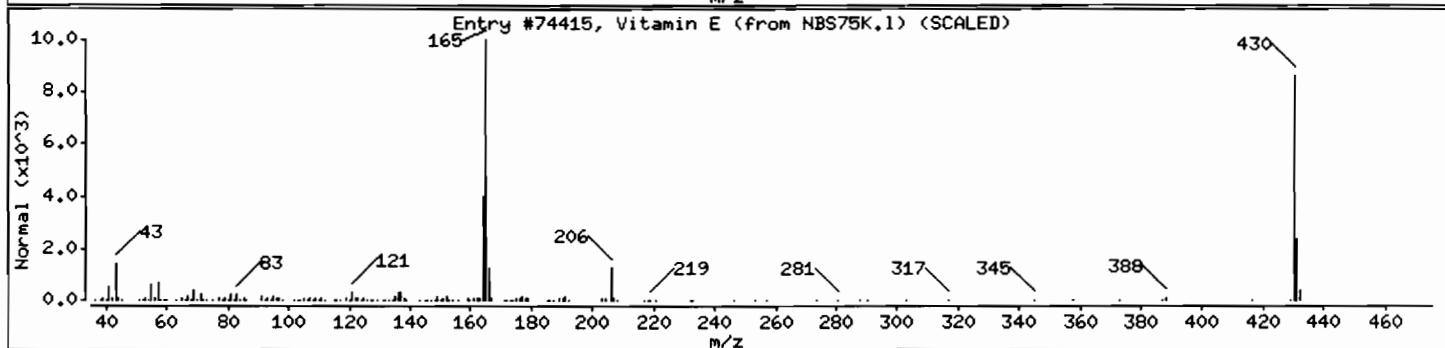
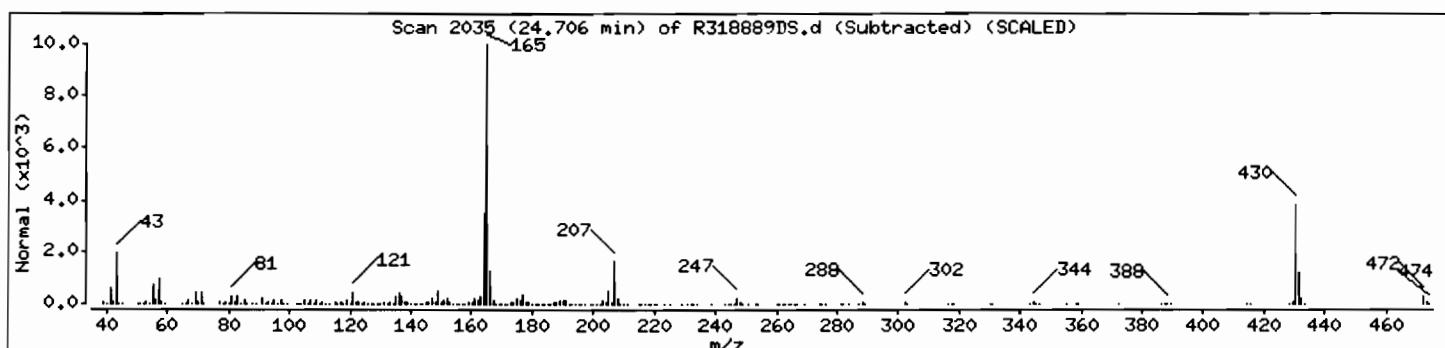
Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Vitamin E	59-02-9	NBS75K.1	74415	97	C29H50O2	430
Vitamin E	59-02-9	NBS75K.1	55996	72	C29H50O2	430
Vitamin E acetate	58-95-7	NBS75K.1	74566	70	C31H52O3	472



METHOD 8270
SEMIVOLATILE ORGANIC ANALYSIS

STANDARDS



Inchcape Testing Services

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Instrument ID: R Calibration Date(s): 11/25/96 11/25/96

Calibration Time(s): 0943 1156

LAB FILE ID: RRF80 =RHX080BS	RRF20 =RHX010BS RRF120=RHX120BS	RRF50 =RHX050BS RRF160=RHX160BS	RRF	% RSD			
COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
Phenol	1.351	1.257	1.168	1.008	1.051	1.167	12.2
bis(2-Chloroethyl) Ether	1.070	1.018	0.955	0.825	0.793	0.932	12.9
2-Chlorophenol	0.989	0.910	0.846	0.742	0.737	0.845	12.9
1,3-Dichlorobenzene	1.403	1.242	1.161	0.999	0.985	1.158	15.1
1,4-Dichlorobenzene	1.430	1.246	1.172	1.013	1.009	1.174	15.0
1,2-Dichlorobenzene	1.311	1.140	1.051	0.914	0.924	1.068	15.5
2,2'-oxybis(1-Chloropropane)	1.381	1.220	1.130	1.009	1.087	1.165	12.2
2-Methylphenol	0.793	0.791	0.734	0.648	0.654	0.724	9.7
N-Nitroso-di-n-propylamine	* 0.572	0.506	0.478	0.438	0.460	0.491	10.6*
Hexachloroethane	0.376	0.354	0.331	0.298	0.301	0.332	10.1
4-Methylphenol	0.822	0.807	0.747	0.664	0.703	0.749	9.0
Nitrobenzene	0.349	0.338	0.312	0.277	0.279	0.311	10.6
Isophorone	0.683	0.691	0.621	0.585	0.564	0.629	9.1
2-Nitrophenol	0.273	0.294	0.269	0.244	0.238	0.264	8.6
2,4-Dimethylphenol	0.279	0.272	0.258	0.228	0.235	0.254	8.7
bis(2-Chloroethoxy)methane	0.461	0.440	0.405	0.357	0.348	0.402	12.4
2,4-Dichlorophenol	0.414	0.406	0.380	0.334	0.356	0.378	8.9
1,2,4-Trichlorobenzene	0.357	0.343	0.320	0.289	0.298	0.321	8.9
Naphthalene	1.078	0.923	0.858	0.728	0.744	0.866	16.6
4-Chloroaniline	0.442	0.446	0.411	0.380	0.374	0.411	8.2
Hexachlorobutadiene	0.093	0.098	0.091	0.086	0.086	0.091	5.3
4-Chloro-3-Methylphenol	0.234	0.273	0.239	0.227	0.245	0.244	7.2
2-Methylnaphthalene	0.866	0.759	0.706	0.622	0.638	0.718	13.8
Hexachlorocyclopentadiene	* 0.154	0.158	0.161	0.146	0.143	0.152	5.0*
2,4,6-Trichlorophenol	0.230	0.249	0.235	0.210	0.217	0.228	6.6
2,4,5-Trichlorophenol		0.262	0.248	0.229	0.242	0.245	5.5
2-Chloronaphthalene	1.315	1.042	1.012	0.858	0.818	1.009	19.4
2-Nitroaniline		0.251	0.240	0.215	0.223	0.232	7.1
Dimethylphthalate	1.531	1.239	1.170	1.005	0.988	1.187	18.6
Acenaphthylene	2.060	1.606	1.528	1.200	1.184	1.516	23.7
2,6-Dinitrotoluene	0.373	0.365	0.347	0.311	0.317	0.343	8.1
Acenaphthene	1.222	1.016	0.970	0.812	0.808	0.966	17.7
3-Nitroaniline		0.327	0.325	0.293	0.288	0.308	6.7
2,4-Dinitrophenol	*	0.162	0.157	0.151	0.148	0.154	4.0*
Dibenzofuran	1.635	1.314	1.258	1.039	1.037	1.257	19.6
2,4-Dinitrotoluene	0.492	0.462	0.452	0.414	0.409	0.446	7.8
4-Nitrophenol	*	0.076	0.075	0.070	0.069	0.072	4.9*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6C
SEMVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Instrument ID: R Calibration Date(s): 11/25/96 11/25/96

Calibration Time(s): 0943 1156

LAB FILE ID: RRF80 =RHX080BS	RRF20 =RHX010BS			RRF50 =RHX050BS				
	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD	
Diethylphthalate	1.385	1.050	1.000	0.828	0.829	1.018	22.4	
Fluorene	1.334	1.050	0.997	0.838	0.847	1.013	19.9	
4-Chlorophenyl-phenylether	0.346	0.328	0.314	0.275	0.292	0.311	9.1	
4-Nitroaniline		0.336	0.342	0.312	0.273	0.316	9.9	
N-nitrosodiphenylamine (1)	0.840	0.794	0.731	0.643	0.647	0.731	12.0	
4,6-Dinitro-2-methylphenol		0.158	0.152	0.150	0.147	0.152	3.0	
4-Bromophenyl-phenylether	0.160	0.168	0.158	0.147	0.152	0.157	5.0	
Hexachlorobenzene	0.196	0.197	0.184	0.175	0.173	0.185	6.2	
Pentachlorophenol		0.119	0.121	0.114	0.115	0.117	2.9	
Phenanthrene	1.443	1.231	1.174	0.971	0.970	1.158	17.1	
Anthracene	1.480	1.224	1.153	0.951	0.941	1.150	19.3	
Carbazole	1.423	1.245	1.198	1.019	0.951	1.167	16.1	
Di-n-butylphthalate	1.994	1.389	1.330	1.929	1.965	1.721	19.3	
Fluoranthene	0.908	0.781	0.804	0.694	0.664	0.770	12.6	
Pyrene	1.660	1.748	1.493	1.331	1.341	1.515	12.4	
Butylbenzylphthalate	1.667	1.530	1.363	1.168	1.209	1.387	15.2	
Benzo(a)anthracene	1.222	1.160	1.107	0.977	1.002	1.094	9.5	
3,3'-Dichlorobenzidine	0.439	0.463	0.472	0.439	0.429	0.448	4.0	
Chrysene	1.134	1.066	1.027	0.934	0.935	1.019	8.5	
bis(2-Ethylhexyl)phthalate	2.135	1.810	1.666	1.338	1.441	1.678	18.8	
Di-n-octylphthalate	3.597	3.269	2.741	3.510	5.272	3.678	25.9	
Benzo(b)fluoranthene	1.238	1.413	1.261	1.219	1.219	1.270	6.4	
Benzo(k)fluoranthene	1.398	1.259	1.354	1.103	1.148	1.252	10.2	
Benzo(a)pyrene	1.015	1.018	1.040	0.946	0.972	0.998	3.8	
Indeno(1,2,3-cd)pyrene	0.956	0.953	0.908	0.808	0.918	0.909	6.6	
Dibenz(a,h)anthracene	0.728	0.744	0.714	0.642	0.738	0.713	5.8	
Benzo(g,h,i)perylene	0.734	0.718	0.673	0.584	0.668	0.675	8.7	
2-Fluorophenol	0.820	0.818	0.788	0.677	0.660	0.753	10.4	
Phenol-d5	1.146	1.084	1.018	0.891	0.912	1.010	10.8	
2-Chlorophenol-d4	0.951	0.942	0.876	0.770	0.769	0.862	10.3	
1,2-Dichlorobenzene-d4	0.869	0.831	0.784	0.699	0.713	0.779	9.4	
Nitrobenzene-d5	0.396	0.393	0.364	0.326	0.322	0.360	9.9	
2-Fluorobiphenyl	1.262	0.993	0.977	0.817	0.801	0.970	19.1	
2,4,6-Tribromophenol	0.120	0.120	0.115	0.107	0.107	0.114	5.5	
Terphenyl-d14	1.000	1.073	0.950	0.861	0.894	0.956	8.8	

(1) Cannot be separated from Diphenylamine

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

Data File: /chem/R.i/Rsvr.p/RHK_8270.b/RHK160BS.d

Date : 25-NOV-96 09:43:40

Client ID: SSTD160

Sample Info: SSTD160 CRV#RHK

Volume Injected (uL): 2.0

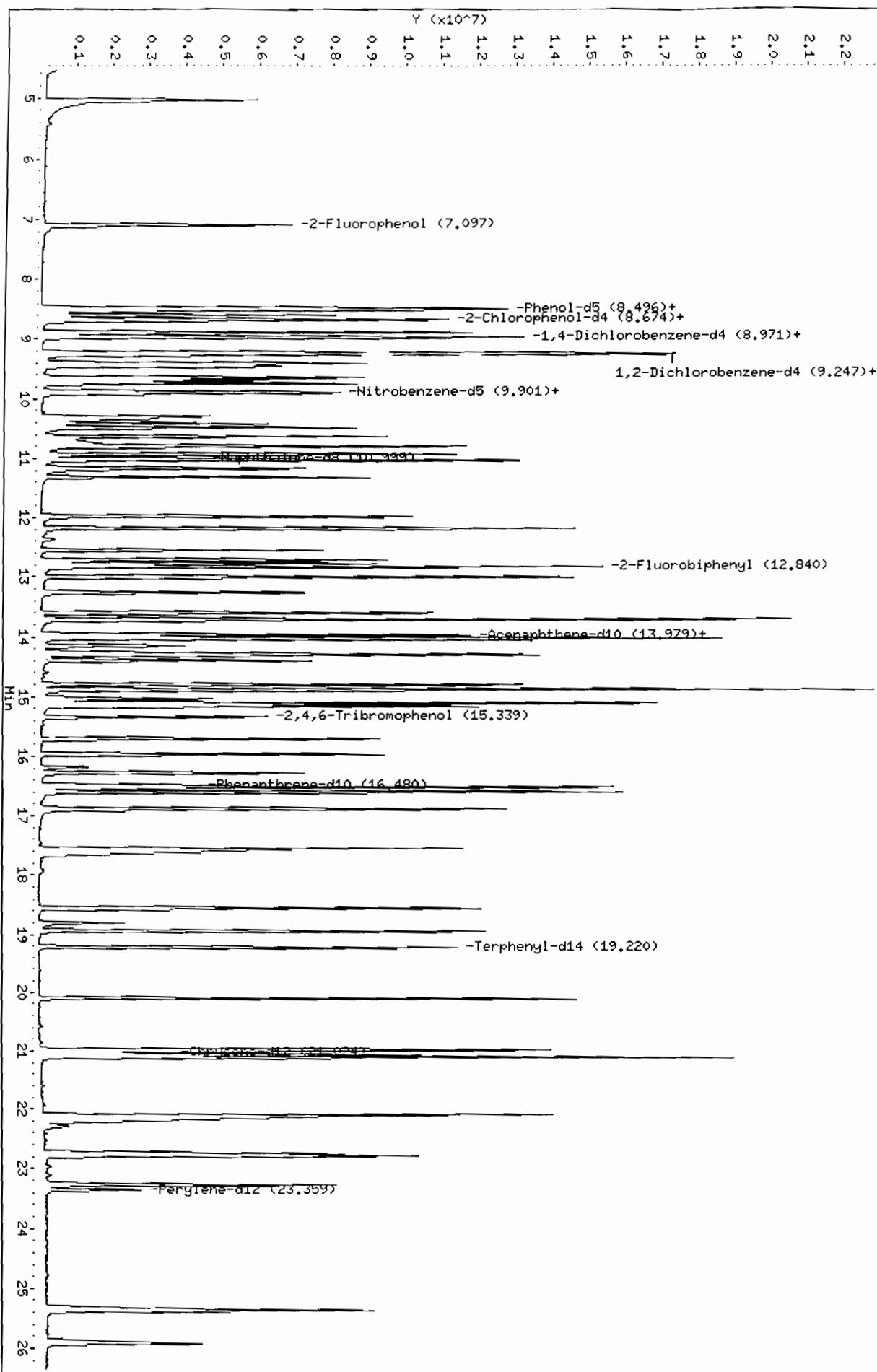
Column phase: RTX-5

Instrument: R.i

Operator: DJB

Column diameter: 0.25

/chem/R.i/Rsvr.p/RHK_8270.b/RHK160BS.d



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SEMICVOLATILE QUANTITATION REPORT

Data file : /chem/R.i/Rsvr.p/RHX_8270.b/RHX160BS.d
Lab Smp Id: SSTD160 Client Smp ID: SSTD160
Inj Date : 25-NOV-96 09:43:40
Operator : DJB Inst ID: R.i
Smp Info : SSTD160 CRV#RHX
Misc Info : 100% ANALYSIS
Comment :
Method : /chem/R.i/Rsvr.p/RHX_8270.b/SV_8270v6RTE.m
Meth Date : 25-Nov-96 14:18:08 je Quant Type: ISTD
Cal Date : 25-NOV-96 11:21:16 Cal File: RHX050BS.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.30
Procesing Host: chemsvr4

Concentration Formula: $U_f * V_t / (V_o * V_i)$

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)
1 N-Nitrosodimethylamine	42	5.039	5.147 (0.563)	1985227		160	160(Q)
2 Pyridine	79	5.039	5.147 (0.563)	5208663		160	140
\$ 3 2-Fluorophenol	112	7.097	7.118 (0.793)	4540708		160	140
4 Aniline	93	8.516	8.518 (0.951)	7228349		160	140
\$ 5 Phenol-d5	99	8.476	8.479 (0.947)	6277132		160	150
6 Phenol	94	8.496	8.498 (0.949)	7235132		160	140
7 bis(2-Chloroethyl)Ether	93	8.595	8.597 (0.960)	5459135		160	140
\$ 8 2-Chlorophenol-d4	132	8.664	8.667 (0.968)	5294232		160	140
9 2-chlorophenol	128	8.684	8.686 (0.970)	5070826		160	140
10 1,3-Dichlorobenzene	146	8.891	8.894 (0.993)	6777995		160	140
* 11 1,4-Dichlorobenzene-d4	152	8.951	8.953 (1.000)	1720885		40	
12 1,4-Dichlorobenzene	146	8.971	8.973 (1.002)	6947897		160	140
\$ 13 1,2-Dichlorobenzene-d4	152	9.237	9.240 (1.032)	4909908		160	150
14 1,2-Dichlorobenzene	146	9.267	9.270 (1.035)	6359546		160	140
15 Benzyl Alcohol	108	9.218	9.210 (1.030)	3239766		160	150

000954

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	(ng)
16 2,2'-oxybis(1-Chloropropane)	45	9.436	9.428 (1.054)	7484544	160	150	
17 2-Methylphenol	108	9.396	9.399 (1.050)	4505113	160	140	
18 N-Nitroso-di-n-propylamine	70	9.693	9.685 (1.083)	3168628	160	150	
19 Hexachloroethane	117	9.742	9.745 (1.088)	2071627	160	150	
20 4-Methylphenol	108	9.643	9.636 (1.077)	4842519	160	150	
\$ 21 Nitrobenzene-d5	82	9.881	9.874 (0.898)	5266254	160	140	
22 Nitrobenzene	77	9.911	9.903 (0.901)	4574852	160	140	
23 Isophorone	82	10.296	10.289 (0.936)	9238601	160	140	
24 2-Nitrophenol	139	10.424	10.417 (0.948)	3902112	160	140	
25 2,4-Dimethylphenol	107	10.484	10.477 (0.953)	3846530	160	150	
26 bis(2-Chloroethoxy)methane	93	10.632	10.625 (0.967)	5698743	160	140	
27 2,4-Dichlorophenol	162	10.800	10.793 (0.982)	5826226	160	150	
28 1,2,4-Trichlorobenzene	180	10.929	10.932 (0.994)	4878282	160	150	
29 Benzoic Acid	122	10.800	10.764 (0.982)	3355711	160	160	
* 30 Naphthalene-d8	136	10.999	10.992 (1.000)	4092797	40		
31 Naphthalene	128	11.038	11.032 (1.004)	12175385	160	140	
32 4-Chloroaniline	127	11.167	11.161 (1.015)	6118657	160	140	
33 Hexachlorobutadiene	225	11.316	11.319 (1.029)	1412155	160	150	
34 4-Chloro-3-Methylphenol	107	11.978	11.971 (1.089)	4008665	160	150	
35 2-Methylnaphthalene	142	12.186	12.179 (1.108)	10441561	160	150	
36 Hexachlorocyclopentadiene	237	12.552	12.545 (0.898)	1819715	160	150	
37 2,4,6-Trichlorophenol	196	12.721	12.714 (0.910)	2755395	160	150	
38 2,4,5-Trichlorophenol	196	12.780	12.773 (0.914)	3071855	160	150	
\$ 39 2-Fluorobiphenyl	172	12.840	12.823 (0.918)	10163436	160	140	
40 2-Chloronaphthalene	162	13.009	12.992 (0.931)	10376642	160	140	
41 2-Nitroaniline	65	13.256	13.249 (0.948)	2824268	160	150	
42 Dimethylphthalate	163	13.613	13.596 (0.974)	12534541	160	140	
43 Acenaphthylene	152	13.722	13.715 (0.982)	15018327	160	140	
44 2,6-Dinitrotoluene	165	13.732	13.715 (0.982)	4023706	160	150	
* 45 Acenaphthene-d10	164	13.979	13.972 (1.000)	3171103	40		
46 Acenaphthene	153	14.029	14.022 (1.004)	10243289	160	140	
47 3-Nitroaniline	138	13.979	13.962 (1.000)	3652934	160	150	
48 2,4-Dinitrophenol	184	14.158	14.141 (1.013)	1876034	160	150	
49 Dibenzofuran	168	14.307	14.300 (1.023)	13149024	160	140	
50 2,4-Dinitrotoluene	165	14.406	14.389 (1.031)	5183958	160	150	
51 4-Nitrophenol	109	14.267	14.250 (1.021)	878775	160	150	
52 Diethylphthalate	149	14.803	14.795 (1.059)	10518601	160	140	
53 Fluorene	166	14.892	14.885 (1.065)	10743772	160	140	
54 4-Chlorophenyl-phenylether	204	14.882	14.875 (1.065)	3707876	160	150	
55 4-Nitroaniline	138	15.041	15.024 (1.076)	3462877	160	140	
56 N-nitrosodiphenylamine	169	15.121	15.103 (0.917)	8586797	160	140	
57 4,6-Dinitro-2-methylphenol	198	15.111	15.093 (0.917)	1948192	160	150	
58 Azobenzene	77	15.160	15.143 (1.084)	9031306	160	150	
\$ 59 2,4,6-Tribromophenol	330	15.339	15.331 (1.097)	1357256	160	150	
60 4-Bromophenyl-phenylether	248	15.716	15.698 (0.954)	2022904	160	150	
61 Hexachlorobenzene	284	15.974	15.965 (0.969)	2297901	160	150	
62 Pentachlorophenol	266	16.281	16.273 (0.988)	1523145	160	160	

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)
=====	=====	====	==	=====	=====	=====	=====
* 63 Phenanthrene-d10		188	16.480	16.472 (1.000)	3318179		40
64 Phenanthrene		178	16.520	16.512 (1.002)	12870645	160	140
65 Anthracene		178	16.600	16.591 (1.007)	12491431	160	140
66 Carbazole		167	16.888	16.879 (1.025)	12621718	160	140
67 Di-n-butylphthalate		149	17.551	17.551 (1.065)	26083765	160	190(A)
68 Fluoranthene		202	18.565	18.549 (1.127)	8813642	160	150
69 Benzidine		184	18.803	18.787 (0.894)	2191511	160	140
70 Pyrene		202	18.943	18.936 (0.901)	8940451	160	140
\$ 71 Terphenyl-d14		244	19.220	19.214 (0.914)	5959491	160	140
72 Butylbenzylphthalate		149	20.112	20.094 (0.957)	8062716	160	140
73 Benzo(a)anthracene		228	20.994	20.975 (0.999)	6681212	160	150
74 3,3'-Dichlorobenzidine		252	20.984	20.965 (0.998)	2858524	160	150
* 75 Chrysene-d12		240	21.024	21.015 (1.000)	1666559	40	
76 Chrysene		228	21.074	21.055 (1.002)	6230636	160	150
77 bis(2-Ethylhexyl)phthalate		149	21.114	21.105 (1.004)	9603398	160	140
78 Di-n-octylphthalate		149	22.098	22.086 (0.946)	31420286	160	200(A)
79 Benzo(b)fluoranthene		252	22.750	22.732 (0.974)	7264469	160	150
80 Benzo(k)fluoranthene		252	22.790	22.772 (0.976)	6844764	160	150
81 Benzo(a)pyrene		252	23.279	23.249 (0.997)	5791134	160	160
* 82 Perylene-d12		264	23.359	23.349 (1.000)	1489953	40	
83 Indeno(1,2,3-cd)pyrene		276	25.361	25.327 (1.086)	5471012	160	160
84 Dibenz(a,h)anthracene		278	25.371	25.337 (1.086)	4396219	160	160
85 Benzo(g,h,i)perylene		276	25.919	25.884 (1.110)	3978192	160	150

QC Flag Legend

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

Q - Qualifier signal failed the ratio test.

000056-

Data File: /chem/R.i/RSvr.p/RHX_8270.b/RHX120BS.d
Date : 25-NOV-96 10:11:29
Client ID: SSTD120

Sample Info: SSTD120 CRV#RHX
Volume Injected (uL): 2.0
Column Phase: RTX-5

Instrument: R.i
Operator: DJB
Column diameter: 0.25

000000

2.2

2.1

2.0

1.9

1.8

1.7

1.6

1.5

1.4

1.3

1.2

1.1

1.0

0.9

0.8

0.7

0.6

0.5

0.4

0.3

0.2

0.1

Y ($\times 10^{17}$)

-2-Fluorophenol (7.109)

-Phenol-d5 (8.498)+

-2-Chlorophenol-d4 (8.676)+

1,4-Dichlorobenzene-d4 (8.973)+

1,2-Dichlorobenzene-d4 (9.250)+

-Nitrobenzene-d5 (9.904)+

2-Fluorobiphenyl (12.835)

-Acenaphthene-d10 (13.975)+

-2,4,6-Tribromophenol (15.335)

-Phenanthrene-d10 (16.477)

-Terphenyl-d14 (19.218)

-Perylene-d12 (23.356)

/chem/R.i/RSvr.p/RHX_8270.b/RHX120BS.d

Inchcape Environmental

SEMOVOLATILE QUANTITATION REPORT

Data file : /chem/R.i/Rsrv.p/RHX_8270.b/RHX120BS.d
Lab Smp Id: SSTD120 Client Smp ID: SSTD120
Inj Date : 25-NOV-96 10:11:29
Operator : DJB Inst ID: R.i
Smp Info : SSTD120 CRV#RHX
Misc Info : 100% ANALYSIS
Comment :
Method : /chem/R.i/Rsrv.p/RHX_8270.b/SV_8270v6RTE.m
Meth Date : 25-Nov-96 14:18:13 je Quant Type: ISTD
Cal Date : 25-NOV-96 11:21:16 Cal File: RHX050BS.d
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.30
Procesing Host: chemsvr4

Concentration Formula: $U_f * V_t / (V_o * V_i)$

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)
1 N-Nitrosodimethylamine	42	5.068	5.147 (0.566)	2088060	120	110	
2 Pyridine	79	5.068	5.147 (0.566)	6279847	120	120	
\$ 3 2-Fluorophenol	112	7.109	7.118 (0.794)	5256627	120	110	
4 Aniline	93	8.528	8.518 (0.952)	8080022	120	110	
\$ 5 Phenol-d5	99	8.478	8.479 (0.947)	6923929	120	110	
6 Phenol	94	8.498	8.498 (0.949)	7830488	120	110	
7 bis(2-Chloroethyl)Ether	93	8.597	8.597 (0.960)	6407234	120	110	
\$ 8 2-Chlorophenol-d4	132	8.667	8.667 (0.968)	5980108	120	110	
9 2-Chlorophenol	128	8.686	8.686 (0.970)	5761009	120	110	
10 1,3-Dichlorobenzene	146	8.894	8.894 (0.993)	7758581	120	110	
* 11 1,4-Dichlorobenzene-d4	152	8.953	8.953 (1.000)	2589440	40		
12 1,4-Dichlorobenzene	146	8.973	8.973 (1.002)	7867271	120	110	
\$ 13 1,2-Dichlorobenzene-d4	152	9.240	9.240 (1.032)	5433525	120	110	
14 1,2-Dichlorobenzene	146	9.270	9.270 (1.035)	7097367	120	110	
15 Benzyl Alcohol	108	9.220	9.210 (1.030)	3467800	120	110	

090058

Compounds	QUANT SIG	MASS	RT	AMOUNTS			
				EXP RT	REL RT	RESPONSE	CAL-AMT (ng)
16 2,2'-oxybis(1-Chloropropane)	45	9.438	9.428 (1.054)	7840093	120	110	
17 2-Methylphenol	108	9.399	9.399 (1.050)	5037840	120	110	
18 N-Nitroso-di-n-propylamine	70	9.696	9.685 (1.083)	3404557	120	110	
19 Hexachloroethane	117	9.745	9.745 (1.088)	2314505	120	110	
20 4-Methylphenol	108	9.646	9.636 (1.077)	5154582	120	110	
\$ 21 Nitrobenzene-d5	82	9.884	9.874 (0.898)	5793796	120	110	
22 Nitrobenzene	77	9.914	9.903 (0.901)	4932655	120	110	
23 Isophorone	82	10.299	10.289 (0.936)	10408567	120	110	
24 2-Nitrophenol	139	10.428	10.417 (0.948)	4348305	120	110	
25 2,4-Dimethylphenol	107	10.487	10.477 (0.953)	4068476	120	110	
26 bis(2-Chloroethoxy)methane	93	10.636	10.625 (0.967)	6348650	120	110	
27 2,4-Dichlorophenol	162	10.804	10.793 (0.982)	5938079	120	110	
28 1,2,4-Trichlorobenzene	180	10.933	10.932 (0.994)	5150341	120	110	
29 Benzoic Acid	122	10.794	10.764 (0.981)	3415039	120	110	
* 30 Naphthalene-d8	136	11.003	10.992 (1.000)	5932720	40		
31 Naphthalene	128	11.032	11.032 (1.003)	12957586	120	110	
32 4-Chloroaniline	127	11.171	11.161 (1.015)	6770928	120	110	
33 Hexachlorobutadiene	225	11.320	11.319 (1.029)	1530250	120	110	
34 4-Chloro-3-Methylphenol	107	11.983	11.971 (1.089)	4035260	120	110	
35 2-Methylnaphthalene	142	12.180	12.179 (1.107)	11075128	120	110	
36 Hexachlorocyclopentadiene	237	12.547	12.545 (0.898)	1879180	120	120	
37 2,4,6-Trichlorophenol	196	12.716	12.714 (0.910)	2703710	120	110	
38 2,4,5-Trichlorophenol	196	12.775	12.773 (0.914)	2948239	120	110	
\$ 39 2-Fluorobiphenyl	172	12.835	12.823 (0.918)	10500601	120	110	
40 2-Chloronaphthalene	162	13.004	12.992 (0.930)	11032232	120	110	
41 2-Nitroaniline	65	13.262	13.249 (0.949)	2763912	120	110	
42 Dimethylphthalate	163	13.608	13.596 (0.974)	12922725	120	110	
43 Acenaphthylene	152	13.717	13.715 (0.982)	15428630	120	110	
44 2,6-Dinitrotoluene	165	13.727	13.715 (0.982)	3997827	120	110	
* 45 Acenaphthene-d10	164	13.975	13.972 (1.000)	4285896	40		
46 Acenaphthene	153	14.035	14.022 (1.004)	10440182	120	110	
47 3-Nitroaniline	138	13.975	13.962 (1.000)	3773133	120	120	
48 2,4-Dinitrophenol	184	14.154	14.141 (1.013)	1939103	120	120	
49 Dibenzofuran	168	14.303	14.300 (1.023)	13360602	120	110	
50 2,4-Dinitrotoluene	165	14.402	14.389 (1.031)	5317997	120	120	
51 4-Nitrophenol	109	14.273	14.250 (1.021)	901550	120	120	
52 Diethylphthalate	149	14.799	14.795 (1.059)	10646826	120	110	
53 Fluorene	166	14.888	14.885 (1.065)	10782116	120	110	
54 4-Chlorophenyl-phenylether	204	14.878	14.875 (1.065)	3535529	120	110	
55 4-Nitroaniline	138	15.047	15.024 (1.077)	4012204	120	120	
56 N-nitrosodiphenylamine	169	15.117	15.103 (0.917)	8656074	120	110	
57 4,6-Dinitro-2-methylphenol	198	15.107	15.093 (0.917)	2024282	120	120	
58 Azobenzene	77	15.157	15.143 (1.085)	8874099	120	120	
\$ 59 2,4,6-Tribromophenol	330	15.345	15.331 (1.098)	1380152	120	120	
60 4-Bromophenyl-phenylether	248	15.712	15.698 (0.954)	1979165	120	110	
61 Hexachlorobenzene	284	15.970	15.965 (0.969)	2352461	120	120	
62 Pentachlorophenol	266	16.278	16.273 (0.988)	1536036	120	120	

030059

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*	63 Phenanthrene-d10	188	16.477	16.472 (1.000)		4489700	40	
	64 Phenanthrene	178	16.527	16.512 (1.003)		13080536	120	110
	65 Anthracene	178	16.597	16.591 (1.007)		12808914	120	110
	66 Carbazole	167	16.884	16.879 (1.025)		13723018	120	110
	67 Di-n-butylphthalate	149	17.548	17.551 (1.065)		25980732	120	130
	68 Fluoranthene	202	18.563	18.549 (1.127)		9348741	120	120
	69 Benzidine	184	18.801	18.787 (0.894)		2742638	120	120
	70 Pyrene	202	18.940	18.936 (0.901)		9491116	120	110
\$	71 Terphenyl-d14	244	19.218	19.214 (0.914)		6142837	120	110
	72 Butylbenzylphthalate	149	20.109	20.094 (0.957)		8334117	120	110
	73 Benzo(a)anthracene	228	20.991	20.975 (0.999)		6968595	120	110
	74 3,3'-Dichlorobenzidine	252	20.982	20.965 (0.998)		3130841	120	120
*	75 Chrysene-d12	240	21.022	21.015 (1.000)		2377430	40	
	76 Chrysene	228	21.072	21.055 (1.002)		6664233	120	110
	77 bis(2-Ethylhexyl)phthalate	149	21.112	21.105 (1.004)		9541421	120	100
	78 Di-n-octylphthalate	149	22.095	22.086 (0.946)		21077552	120	100
	79 Benzo(b)fluoranthene	252	22.747	22.732 (0.974)		7321941	120	110
	80 Benzo(k)fluoranthene	252	22.787	22.772 (0.976)		6625781	120	110
	81 Benzo(a)pyrene	252	23.276	23.249 (0.997)		5680058	120	120
*	82 Perylene-d12	264	23.356	23.349 (1.000)		2001545	40	
	83 Indeno(1,2,3-cd)pyrene	276	25.346	25.327 (1.085)		4852841	120	110
	84 Dibenz(a,h)anthracene	278	25.356	25.337 (1.086)		3854389	120	110
	85 Benzo(g,h,i)perylene	276	25.905	25.884 (1.109)		3504192	120	110

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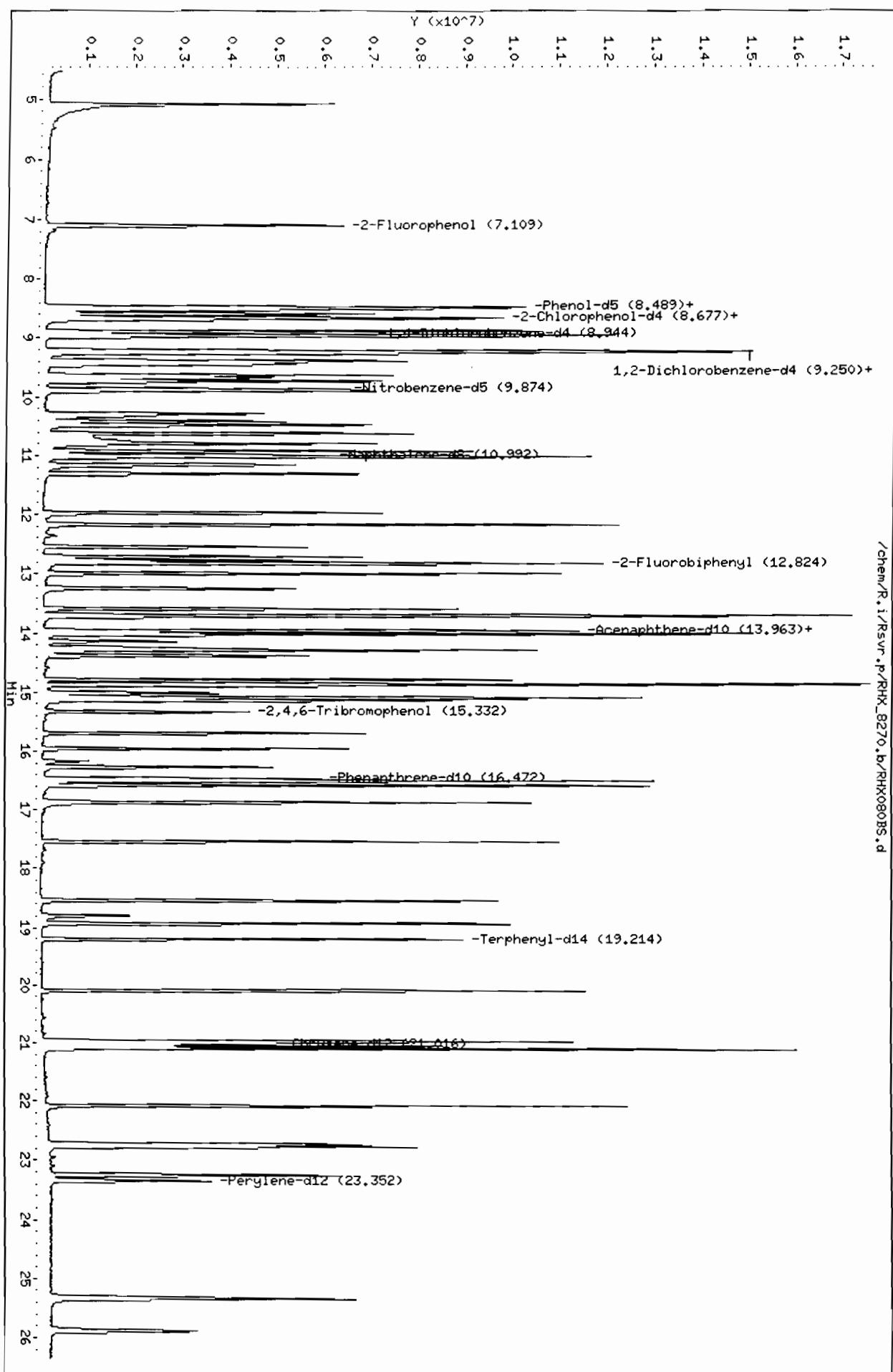
Data File: /chem/R.i/Rsvr.p/RHX_8270.b/RHX080BS.d
Date : 25-Nov-96 10:46:25
Client ID: SSTD080

Page 4

Sample Info: SSTD080 CRV#RHX
Volume Injected (uL): 2.0
Column phase: RTX-5

/chem/R.i/Rsvr.p/RHX_8270.b/RHX080BS.d

Instrument: R.i
Operator: DJB
Column diameter: 0.25



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SEMIVOLATILE QUANTITATION REPORT

Data file : /chem/R.i/Rsrvr.p/RHX_8270.b/RHX080BS.d
Lab Smp Id: SSTD080 Client Smp ID: SSTD080
Inj Date : 25-NOV-96 10:46:25
Operator : DJB Inst ID: R.i
Smp Info : SSTD080 CRV#RHX
Misc Info : 100% ANALYSIS
Comment :
Method : /chem/R.i/Rsrvr.p/RHX_8270.b/SV_8270v6RTE.m
Meth Date : 25-Nov-96 14:18:16 je Quant Type: ISTD
Cal Date : 25-NOV-96 11:21:16 Cal File: RHX050BS.d
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.30
Procesing Host: chemsvr4

Concentration Formula: $U_f * V_t / (V_o * V_i)$

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	====	==	=====	=====	=====	=====	=====	=====
1 N-Nitrosodimethylamine	42	5.088	5.147 (0.569)	1651080	80	82		
2 Pyridine	79	5.088	5.147 (0.569)	5142363	80	86		
\$ 3 2-Fluorophenol	112	7.109	7.118 (0.795)	4359664	80	86		
4 Aniline	93	8.518	8.518 (0.952)	6453444	80	82		
\$ 5 Phenol-d5	99	8.479	8.479 (0.948)	5637269	80	83		
6 Phenol	94	8.498	8.498 (0.950)	6466623	80	83		
7 bis(2-Chloroethyl)Ether	93	8.597	8.597 (0.961)	5288737	80	85		
\$ 8 2-Chlorophenol-d4	132	8.657	8.667 (0.968)	4850448	80	84		
9 2-Chlorophenol	128	8.687	8.686 (0.971)	4681918	80	84		
10 1,3-Dichlorobenzene	146	8.894	8.894 (0.994)	6428585	80	85		
* 11 1,4-Dichlorobenzene-d4	152	8.944	8.953 (1.000)	2767966	40			
12 1,4-Dichlorobenzene	146	8.973	8.973 (1.003)	6490860	80	84		
\$ 13 1,2-Dichlorobenzene-d4	152	9.240	9.240 (1.033)	4340057	80	83		
14 1,2-Dichlorobenzene	146	9.260	9.270 (1.035)	5820388	80	84		
15 Benzyl Alcohol	108	9.211	9.210 (1.030)	2778308	80	82		

090062

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
	====	==	=====	=====	=====	=====	=====	=====
16 2,2'-oxybis(1-Chloropropane)	45	9.428	9.428 (1.054)	6253990		80	81	
17 2-Methylphenol	108	9.399	9.399 (1.051)	4062574		80	83	
18 N-Nitroso-di-n-propylamine	70	9.686	9.685 (1.083)	2644080		80	81	
19 Hexachloroethane	117	9.735	9.745 (1.089)	1834566		80	82	
20 4-Methylphenol	108	9.636	9.636 (1.077)	4133804		80	82	
\$ 21 Nitrobenzene-d5	82	9.874	9.874 (0.898)	4511763		80	83	
22 Nitrobenzene	77	9.904	9.903 (0.901)	3866155		80	83	
23 Isophorone	82	10.289	10.289 (0.936)	7703067		80	81	
24 2-Nitrophenol	139	10.417	10.417 (0.948)	3340116		80	82	
25 2,4-Dimethylphenol	107	10.477	10.477 (0.953)	3200646		80	83	
26 bis(2-Chloroethoxy)methane	93	10.625	10.625 (0.967)	5031091		80	84	
27 2,4-Dichlorophenol	162	10.804	10.793 (0.983)	4713135		80	82	
28 1,2,4-Trichlorobenzene	180	10.933	10.932 (0.995)	3967878		80	82	
29 Benzoic Acid	122	10.764	10.764 (0.979)	2376342		80	76	
* 30 Naphthalene-d8	136	10.992	10.992 (1.000)	6204379		40		
31 Naphthalene	128	11.032	11.032 (1.004)	10643244		80	84	
32 4-Chloroaniline	127	11.161	11.161 (1.015)	5105831		80	82	
33 Hexachlorobutadiene	225	11.320	11.319 (1.030)	1129802		80	81	
34 4-Chloro-3-Methylphenol	107	11.972	11.971 (1.089)	2968275		80	78	
35 2-Methylnaphthalene	142	12.179	12.179 (1.108)	8755998		80	83	
36 Hexachlorocyclopentadiene	237	12.546	12.545 (0.898)	1325958		80	85	
37 2,4,6-Trichlorophenol	196	12.714	12.714 (0.910)	1932945		80	82	
38 2,4,5-Trichlorophenol	196	12.774	12.773 (0.914)	2036784		80	81	
\$ 39 2-Fluorobiphenyl	172	12.834	12.823 (0.918)	8037176		80	87	
40 2-Chloronaphthalene	162	13.002	12.992 (0.931)	8323614		80	87	
41 2-Nitroaniline	65	13.250	13.249 (0.948)	1975731		80	83	
42 Dimethylphthalate	163	13.596	13.596 (0.973)	9622627		80	85	
43 Acenaphthylene	152	13.715	13.715 (0.982)	12567785		80	89	
44 2,6-Dinitrotoluene	165	13.715	13.715 (0.982)	2854833		80	83	
* 45 Acenaphthene-d10	164	13.973	13.972 (1.000)	4111624		40		
46 Acenaphthene	153	14.022	14.022 (1.004)	7976909		80	86	
47 3-Nitroaniline	138	13.963	13.962 (0.999)	2674484		80	84	
48 2,4-Dinitrophenol	184	14.141	14.141 (1.012)	1287957		80	81	
49 Dibenzofuran	168	14.300	14.300 (1.023)	10346692		80	87	
50 2,4-Dinitrotoluene	165	14.390	14.389 (1.030)	3721642		80	83	
51 4-Nitrophenol	109	14.250	14.250 (1.020)	619477		80	83	
52 Diethylphthalate	149	14.796	14.795 (1.059)	8225678		80	86	
53 Fluorene	166	14.885	14.885 (1.065)	8202098		80	86	
54 4-Chlorophenyl-phenylether	204	14.875	14.875 (1.065)	2582353		80	83	
55 4-Nitroaniline	138	15.024	15.024 (1.075)	2812588		80	87	
56 N-nitrosodiphenylamine	169	15.104	15.103 (0.917)	6329498		80	83	
57 4,6-Dinitro-2-methylphenol	198	15.093	15.093 (0.916)	1319146		80	80	
58 Azobenzene	77	15.143	15.143 (1.084)	6021155		80	81	
\$ 59 2,4,6-Tribromophenol	330	15.332	15.331 (1.097)	945855		80	82	
60 4-Bromophenyl-phenylether	248	15.698	15.698 (0.953)	1371226		80	81	
61 Hexachlorobenzene	284	15.966	15.965 (0.969)	1590097		80	81	
62 Pentachlorophenol	266	16.273	16.273 (0.988)	1046511		80	82	

000063

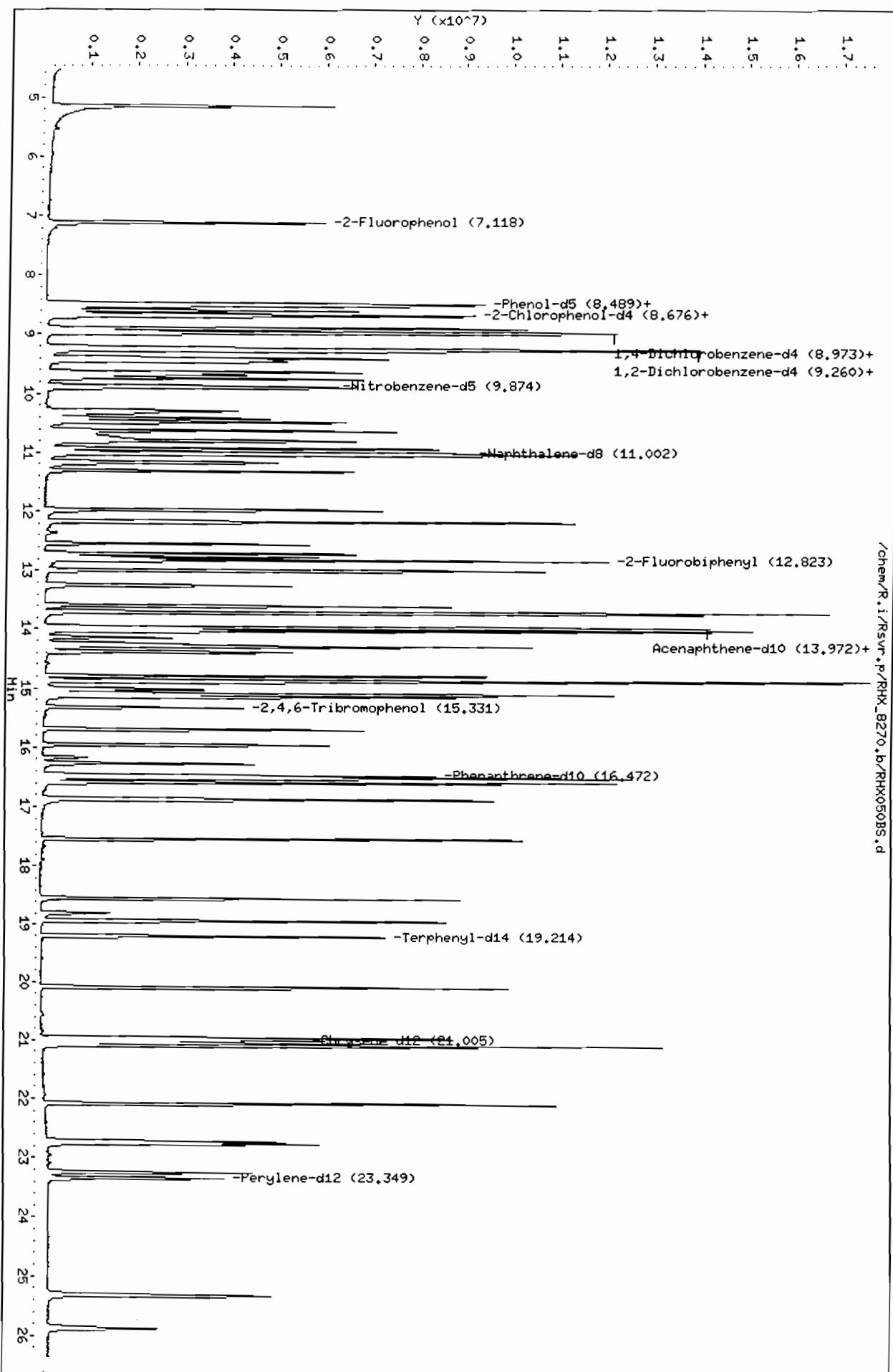
Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
	====	==	=====	=====	=====	=====	=====	=====
* 63 Phenanthrene-d10	188	16.472	16.472 (1.000)	4326497		40		
64 Phenanthrene	178	16.512	16.512 (1.002)	10158385		80		86
65 Anthracene	178	16.592	16.591 (1.007)	9974252		80		86
66 Carbazole	167	16.879	16.879 (1.025)	10368385		80		87
67 Di-n-butylphthalate	149	17.552	17.551 (1.066)	11510411		80		64
68 Fluoranthene	202	18.550	18.549 (1.126)	6957361		80		87
69 Benzidine	184	18.797	18.787 (0.894)	1900587		80		82
70 Pyrene	202	18.937	18.936 (0.901)	7127059		80		81
\$ 71 Terphenyl-d14	244	19.214	19.214 (0.914)	4535710		80		80
72 Butylbenzylphthalate	149	20.105	20.094 (0.957)	6508479		80		83
73 Benzo(a)anthracene	228	20.986	20.975 (0.999)	5287633		80		83
74 3,3'-Dichlorobenzidine	252	20.965	20.965 (0.998)	2253408		80		84
* 75 Chrysene-d12	240	21.016	21.015 (1.000)	2387294		40		
76 Chrysene	228	21.056	21.055 (1.002)	4903597		80		83
77 bis(2-Ethylhexyl)phthalate	149	21.106	21.105 (1.004)	7955930		80		85
78 Di-n-octylphthalate	149	22.088	22.086 (0.946)	10985417		80		59
79 Benzo(b)fluoranthene	252	22.734	22.732 (0.974)	5054380		80		79
80 Benzo(k)fluoranthene	252	22.774	22.772 (0.975)	5428394		80		89
81 Benzo(a)pyrene	252	23.262	23.249 (0.996)	4166152		80		84
* 82 Perylene-d12	264	23.352	23.349 (1.000)	2003801		40		
83 Indeno(1,2,3-cd)pyrene	276	25.341	25.327 (1.085)	3640134		80		81
84 Dibenz(a,h)anthracene	278	25.351	25.337 (1.086)	2863007		80		80
85 Benzo(g,h,i)perylene	276	25.888	25.884 (1.109)	2697573		80		82

000064

Sample Info: SST050 CRV#RHX
Volume Injected (uL): 2.0
Column phase: RTX-5

Instrument: R.i
Operator: DJB
Column diameter: 0.25

/chem/R.i/RSvr.p/RHX_8270.b/RHX050BS.d



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SEMIVOLATILE QUANTITATION REPORT

Data file : /chem/R.i/Rsver.p/RHX_8270.b/RHX050BS.d
Lab Smp Id: SSTD050 Client Smp ID: SSTD050
Inj Date : 25-NOV-96 11:21:16
Operator : DJB Inst ID: R.i
Smp Info : SSTD050 CRV#RHX
Misc Info : 100% ANALYSIS
Comment :
Method : /chem/R.i/Rsver.p/RHX_8270.b/SV_8270v6RTE.m
Meth Date : 25-Nov-96 14:18:21 je Quant Type: ISTD
Cal Date : 25-NOV-96 11:21:16 Cal File: RHX050BS.d
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.30
Procesing Host: chemsvr4

Concentration Formula: $Uf * Vt / (Vo * Vi)$

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)
1 N-Nitrosodimethylamine	42	5.147	5.147 (0.575)	1483645	50	53	
2 Pyridine	79	5.147	5.147 (0.575)	4684566	50	56	
\$ 3 2-Fluorophenol	112	7.118	7.118 (0.795)	3974951	50	56	
4 Aniline	93	8.518	8.518 (0.951)	6182856	50	56	
\$ 5 Phenol-d5	99	8.479	8.479 (0.947)	5262599	50	56	
6 Phenol	94	8.498	8.498 (0.949)	6106268	50	56	
7 bis(2-Chloroethyl)Ether	93	8.597	8.597 (0.960)	4945820	50	57	
\$ 8 2-Chlorophenol-d4	132	8.667	8.667 (0.968)	4574885	50	56	
9 2-Chlorophenol	128	8.686	8.686 (0.970)	4418959	50	56	
10 1,3-Dichlorobenzene	146	8.894	8.894 (0.993)	6028858	50	57	
* 11 1,4-Dichlorobenzene-d4	152	8.953	8.953 (1.000)	3884789	40		
12 1,4-Dichlorobenzene	146	8.973	8.973 (1.002)	6053178	50	56	
\$ 13 1,2-Dichlorobenzene-d4	152	9.240	9.240 (1.032)	4034907	50	55	
14 1,2-Dichlorobenzene	146	9.270	9.270 (1.035)	5535173	50	56	
15 Benzyl Alcohol	108	9.210	9.210 (1.029)	2590410	50	55	

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Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)
16 2,2'-oxybis(1-Chloropropane)	45	9.428	9.428 (1.053)	5927038	50	55	
17 2-Methylphenol	108	9.399	9.399 (1.050)	3839499	50	56	
18 N-Nitroso-di-n-propylamine	70	9.685	9.685 (1.082)	2456444	50	54	
19 Hexachloroethane	117	9.745	9.745 (1.088)	1718544	50	55	
20 4-Methylphenol	108	9.636	9.636 (1.076)	3919944	50	55	
\$ 21 Nitrobenzene-d5	82	9.874	9.874 (0.898)	4313975	50	56	
22 Nitrobenzene	77	9.903	9.903 (0.901)	3706958	50	56	
23 Isophorone	82	10.289	10.289 (0.936)	7585312	50	56	
24 2-Nitrophenol	139	10.417	10.417 (0.948)	3225875	50	56	
25 2,4-Dimethylphenol	107	10.477	10.477 (0.953)	2986532	50	55	
26 bis(2-Chloroethoxy)methane	93	10.625	10.625 (0.967)	4835365	50	57	
27 2,4-Dichlorophenol	162	10.793	10.793 (0.982)	4457748	50	55	
28 1,2,4-Trichlorobenzene	180	10.932	10.932 (0.995)	3762353	50	55	
29 Benzoic Acid	122	10.764	10.764 (0.979)	2390401	50	54	
* 30 Naphthalene-d8	136	10.992	10.992 (1.000)	8781904	40		
31 Naphthalene	128	11.032	11.032 (1.004)	10129922	50	57	
32 4-Chloroaniline	127	11.161	11.161 (1.015)	4896944	50	55	
33 Hexachlorobutadiene	225	11.319	11.319 (1.030)	1070445	50	54	
34 4-Chloro-3-Methylphenol	107	11.971	11.971 (1.089)	2993935	50	55	
35 2-Methylnaphthalene	142	12.179	12.179 (1.108)	8327633	50	56	
36 Hexachlorocyclopentadiene	237	12.545	12.545 (0.898)	1239693	50	52	
37 2,4,6-Trichlorophenol	196	12.714	12.714 (0.910)	1947353	50	55	
38 2,4,5-Trichlorophenol	196	12.773	12.773 (0.914)	2051347	50	53	
\$ 39 2-Fluorobiphenyl	172	12.823	12.823 (0.918)	7772401	50	55	
40 2-Chloronaphthalene	162	12.992	12.992 (0.930)	8156140	50	56	
41 2-Nitroaniline	65	13.249	13.249 (0.948)	1967327	50	54	
42 Dimethylphthalate	163	13.596	13.596 (0.973)	9692322	50	56	
43 Acenaphthylene	152	13.715	13.715 (0.982)	12568571	50	58	
44 2,6-Dinitrotoluene	165	13.715	13.715 (0.982)	2853449	50	54	
* 45 Acenaphthene-d10	164	13.972	13.972 (1.000)	6260022	40		
46 Acenaphthene	153	14.022	14.022 (1.004)	7952631	50	56	
47 3-Nitroaniline	138	13.962	13.962 (0.999)	2561645	50	53	
48 2,4-Dinitrophenol	184	14.141	14.141 (1.012)	1265646	50	52	
49 Dibenzofuran	168	14.300	14.300 (1.023)	10284709	50	56	
50 2,4-Dinitrotoluene	165	14.389	14.389 (1.030)	3615881	50	53	
51 4-Nitrophenol	109	14.250	14.250 (1.020)	596405	50	52	
52 Diethylphthalate	149	14.795	14.795 (1.059)	8214967	50	57	
53 Fluorene	166	14.885	14.885 (1.065)	8216297	50	56	
54 4-Chlorophenyl-phenylether	204	14.875	14.875 (1.065)	2565332	50	54	
55 4-Nitroaniline	138	15.024	15.024 (1.075)	2626835	50	53	
56 N-nitrosodiphenylamine	169	15.103	15.103 (0.917)	6297386	50	56	
57 4,6-Dinitro-2-methylphenol	198	15.093	15.093 (0.916)	1249519	50	52	
58 Azobenzene	77	15.143	15.143 (1.084)	5932095	50	52	
\$ 59 2,4,6-Tribromophenol	330	15.331	15.331 (1.097)	935736	50	53	
60 4-Bromophenyl-phenylether	248	15.698	15.698 (0.953)	1329078	50	54	
61 Hexachlorobenzene	284	15.965	15.965 (0.969)	1562038	50	54	
62 Pentachlorophenol	266	16.273	16.273 (0.988)	945352	50	51	

001087

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	====	====	==	=====	=====	=====	=====	=====
* 63 Phenanthrene-d10		188	16.472	16.472 (1.000)	6340566	40		
64 Phenanthrene		178	16.512	16.512 (1.002)	9759659	50	57	
65 Anthracene		178	16.591	16.591 (1.007)	9698733	50	57	
66 Carbazole		167	16.879	16.879 (1.025)	9865943	50	56	
67 Di-n-butylphthalate		149	17.551	17.551 (1.066)	11007286	50	42	
68 Fluoranthene		202	18.549	18.549 (1.126)	6188152	50	53	
69 Benzidine		184	18.787	18.787 (0.894)	1582861	50	57	
70 Pyrene		202	18.936	18.936 (0.901)	6299707	50	59	
\$ 71 Terphenyl-d14		244	19.214	19.214 (0.914)	3868697	50	57	
72 Butylbenzylphthalate		149	20.094	20.094 (0.956)	5515202	50	58	
73 Benzo(a)anthracene		228	20.975	20.975 (0.998)	4181302	50	55	
74 3,3'-Dichlorobenzidine		252	20.965	20.965 (0.998)	1667454	50	51	
* 75 Chrysene-d12		240	21.015	21.015 (1.000)	2883282	40		
76 Chrysene		228	21.055	21.055 (1.002)	3842650	50	54	
77 bis(2-Ethylhexyl)phthalate		149	21.105	21.105 (1.004)	6522419	50	58	
78 Di-n-octylphthalate		149	22.086	22.086 (0.946)	9162647	50	44	
79 Benzo(b)fluoranthene		252	22.732	22.732 (0.974)	3959339	50	55	
80 Benzo(k)fluoranthene		252	22.772	22.772 (0.975)	3528970	50	52	
81 Benzo(a)pyrene		252	23.249	23.249 (0.996)	2852542	50	51	
* 82 Perylene-d12		264	23.349	23.349 (1.000)	2242241	40		
83 Indeno(1,2,3-cd)pyrene		276	25.327	25.327 (1.085)	2672033	50	53	
84 Dibenz(a,h)anthracene		278	25.337	25.337 (1.085)	2086447	50	52	
85 Benzo(g,h,i)perylene		276	25.884	25.884 (1.109)	2012772	50	54	

000068

Data File: /chem/R.i/RSvr.p/RHX_8270.b/RHX010BS.d
Date : 25-NOV-96 11:56:13

Client ID: SSTD010
Sample Info: SSTD010 CRV#RHX
Volume Injected (uL): 2.0

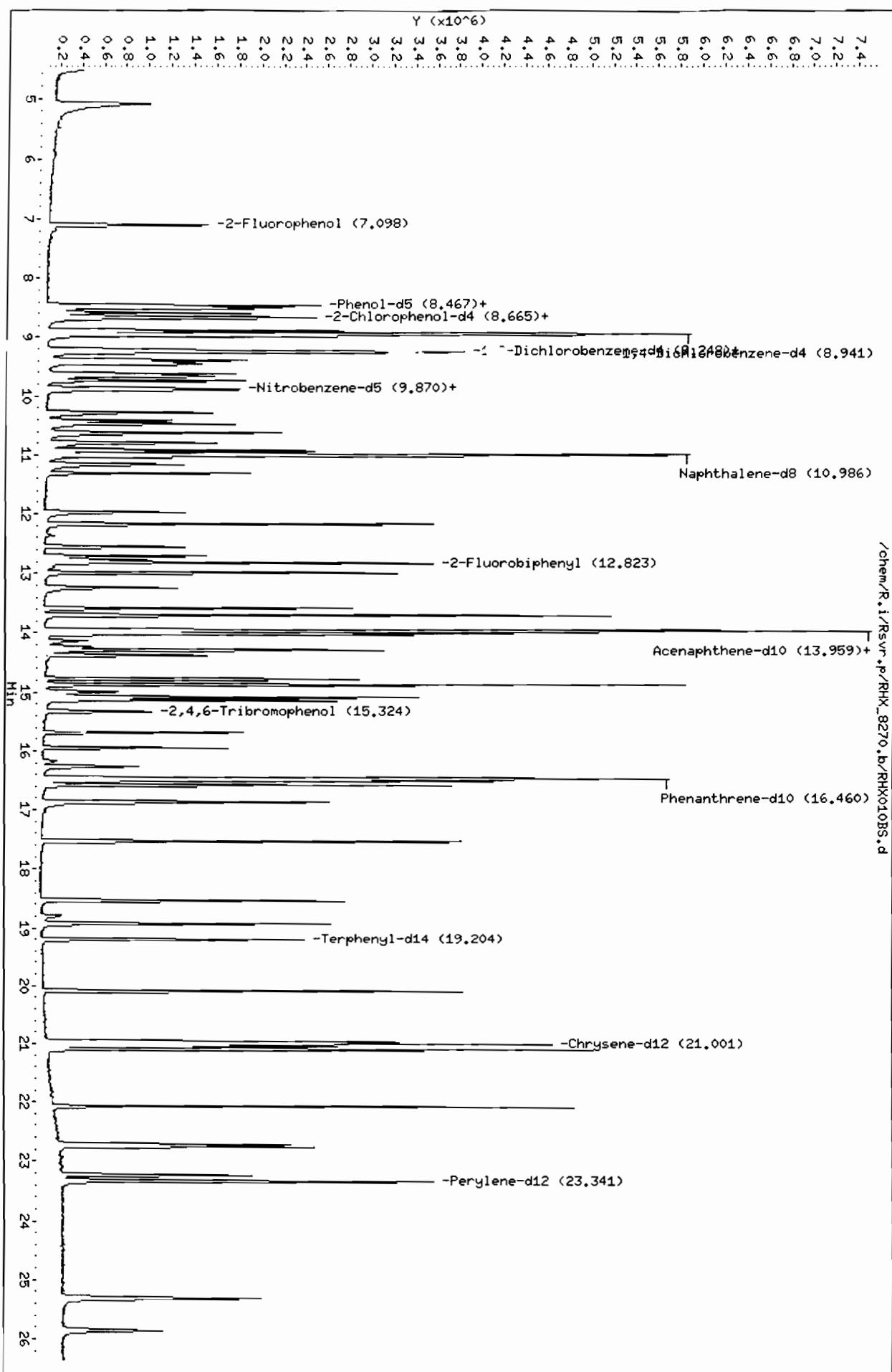
Column phase: RTX-5

Instrument: R.i

Operator: DJB

Column diameter: 0.25

/chem/R.i/RSvr.p/RHX_8270.b/RHX010BS.d



Inchcape Environmental

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem/R.i/Rsrv.p/RHX_8270.b/RHX010BS.d
Lab Smp Id: SSTD010 Client Smp ID: SSTD010
Inj Date : 25-NOV-96 11:56:13
Operator : DJB Inst ID: R.i
Smp Info : SSTD010 CRV#RHX
Misc Info : 100% ANALYSIS
Comment :
Method : /chem/R.i/Rsrv.p/RHX_8270.b/SV_8270v6RTE.m
Meth Date : 25-Nov-96 14:18:25 je Quant Type: ISTD
Cal Date : 25-NOV-96 11:21:16 Cal File: RHX050BS.d
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.30
Procesing Host: chemsvr4

Concentration Formula: $U_f * V_t / (V_o * V_i)$

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)
1 N-Nitrosodimethylamine	42	5.068	5.147 (0.567)	418297	20	23	
2 Pyridine	79	5.098	5.147 (0.570)	1203569	20	22	
\$ 3 2-Fluorophenol	112	7.098	7.118 (0.794)	1008547	20	22	
4 Aniline	93	8.507	8.518 (0.951)	1617098	20	23(a)	
\$ 5 Phenol-d5	99	8.457	8.479 (0.946)	1409436	20	23	
6 Phenol	94	8.477	8.498 (0.948)	1661236	20	23(Q)	
7 bis(2-Chloroethyl)Ether	93	8.586	8.597 (0.960)	1315636	20	23	
\$ 8 2-Chlorophenol-d4	132	8.655	8.667 (0.968)	1168993	20	22	
9 2-Chlorophenol	128	8.675	8.686 (0.970)	1215964	20	23	
10 1,3-Dichlorobenzene	146	8.892	8.894 (0.994)	1724311	20	24	
* 11 1,4-Dichlorobenzene-d4	152	8.941	8.953 (1.000)	2458712	40		
12 1,4-Dichlorobenzene	146	8.971	8.973 (1.003)	1757871	20	24	
\$ 13 1,2-Dichlorobenzene-d4	152	9.238	9.240 (1.033)	1068425	20	22	
14 1,2-Dichlorobenzene	146	9.258	9.270 (1.035)	1611583	20	24	
15 Benzyl Alcohol	108	9.208	9.210 (1.030)	618400	20	20	

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)
16 2,2'-oxybis(1-Chloropropane)	45	9.425	9.428 (1.054)	1697584	20	24	
17 2-Methylphenol	108	9.386	9.399 (1.050)	974671	20	22	
18 N-Nitroso-di-n-propylamine	70	9.663	9.685 (1.081)	703620	20	23	
19 Hexachloroethane	117	9.742	9.745 (1.089)	461931	20	23	
20 4-Methylphenol	108	9.613	9.636 (1.075)	1010408	20	22	
\$ 21 Nitrobenzene-d5	82	9.860	9.874 (0.897)	1144446	20	22	
22 Nitrobenzene	77	9.890	9.903 (0.900)	1010101	20	22	
23 Isophorone	82	10.274	10.289 (0.935)	1976334	20	22	
24 2-Nitrophenol	139	10.413	10.417 (0.948)	788956	20	21	
25 2,4-Dimethylphenol	107	10.472	10.477 (0.953)	807378	20	22	
26 bis(2-Chloroethoxy)methane	93	10.620	10.625 (0.967)	1332713	20	23	
27 2,4-Dichlorophenol	162	10.788	10.793 (0.982)	1196057	20	22	
28 1,2,4-Trichlorobenzene	180	10.927	10.932 (0.995)	1031873	20	22	
29 Benzoic Acid	122	10.630	10.764 (0.968)	306837	20	10(a)	
* 30 Naphthalene-d8	136	10.986	10.992 (1.000)	5783658	40		
31 Naphthalene	128	11.026	11.032 (1.004)	3118783	20	25	
32 4-Chloroaniline	127	11.164	11.161 (1.016)	1278160	20	22	
33 Hexachlorobutadiene	225	11.313	11.319 (1.030)	268704	20	20	
34 4-Chloro-3-Methylphenol	107	11.964	11.971 (1.089)	676708	20	19	
35 2-Methylnaphthalene	142	12.171	12.179 (1.108)	2505058	20	24	
36 Hexachlorocyclopentadiene	237	12.546	12.545 (0.899)	277418	20	20	
37 2,4,6-Trichlorophenol	196	12.704	12.714 (0.910)	413784	20	20	
38 2,4,5-Trichlorophenol	196	12.774	12.773 (0.915)	414089	20	19(a)	
\$ 39 2-Fluorobiphenyl	172	12.823	12.823 (0.919)	2274715	20	26	
40 2-Chloronaphthalene	162	12.992	12.992 (0.931)	2369667	20	26	
41 2-Nitroaniline	65	13.238	13.249 (0.948)	483861	20	23(a)	
42 Dimethylphthalate	163	13.584	13.596 (0.973)	2759563	20	26	
43 Acenaphthylene	152	13.702	13.715 (0.982)	3712987	20	27	
44 2,6-Dinitrotoluene	165	13.702	13.715 (0.982)	672638	20	22	
* 45 Acenaphthene-d10	164	13.959	13.972 (1.000)	3604544	40		
46 Acenaphthene	153	14.019	14.022 (1.004)	2203168	20	25	
47 3-Nitroaniline	138	13.949	13.962 (0.999)	624883	20	22(a)	
48 2,4-Dinitrophenol	184	14.137	14.141 (1.013)	192762	20	14(a)	
49 Dibenzofuran	168	14.286	14.300 (1.023)	2946093	20	26	
50 2,4-Dinitrotoluene	165	14.375	14.389 (1.030)	886115	20	22	
51 4-Nitrophenol	109	14.236	14.250 (1.020)	113256	20	17(aM)	
52 Diethylphthalate	149	14.780	14.795 (1.059)	2496948	20	27	
53 Fluorene	166	14.869	14.885 (1.065)	2404147	20	26	
54 4-Chlorophenyl-phenylether	204	14.869	14.875 (1.065)	624365	20	22	
55 4-Nitroaniline	138	14.987	15.024 (1.074)	572596	20	20(a)	
56 N-nitrosodiphenylamine	169	15.086	15.103 (0.917)	1728449	20	23	
57 4,6-Dinitro-2-methylphenol	198	15.067	15.093 (0.915)	251494	20	16(a)	
58 Azobenzene	77	15.136	15.143 (1.084)	1798080	20	26	
\$ 59 2,4,6-Tribromophenol	330	15.324	15.331 (1.098)	215516	20	21	
60 4-Bromophenyl-phenylether	248	15.699	15.698 (0.954)	330551	20	20	
61 Hexachlorobenzene	284	15.956	15.965 (0.969)	404206	20	21	
62 Pentachlorophenol	266	16.262	16.273 (0.988)	185945	20	15(a)	

000001

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	====	====	==	=====	=====	=====	=====	=====
* 63 Phenanthrene-d10		188	16.460	16.472 (1.000)		4117335	40	
64 Phenanthrene		178	16.500	16.512 (1.002)		2970544	20	25
65 Anthracene		178	16.579	16.591 (1.007)		3046787	20	26
66 Carbazole		167	16.866	16.879 (1.025)		2929772	20	24
67 Di-n-butylphthalate		149	17.537	17.551 (1.065)		4104621	20	23
68 Fluoranthene		202	18.542	18.549 (1.126)		1870190	20	24
69 Benzidine		184	18.789	18.787 (0.895)		196278	20	8.8(a)
70 Pyrene		202	18.918	18.936 (0.901)		1919326	20	22
\$ 71 Terphenyl-d14		244	19.204	19.214 (0.914)		1156100	20	21
72 Butylbenzylphthalate		149	20.092	20.094 (0.957)		1927066	20	24
73 Benzo(a)anthracene		228	20.971	20.975 (0.999)		1412427	20	22
74 3,3'-Dichlorobenzidine		252	20.961	20.965 (0.998)		507797	20	20
* 75 Chrysene-d12		240	21.001	21.015 (1.000)		2311861	40	
76 Chrysene		228	21.041	21.055 (1.002)		1310780	20	22
77 bis(2-Ethylhexyl)phthalate		149	21.101	21.105 (1.005)		2468410	20	25
78 Di-n-octylphthalate		149	22.081	22.086 (0.946)		3749151	20	20
79 Benzo(b)fluoranthene		252	22.715	22.732 (0.973)		1290188	20	19
80 Benzo(k)fluoranthene		252	22.755	22.772 (0.975)		1457186	20	22
81 Benzo(a)pyrene		252	23.241	23.249 (0.996)		1057582	20	20
* 82 Perylene-d12		264	23.341	23.349 (1.000)		2084394	40	
83 Indeno(1,2,3-cd)pyrene		276	25.305	25.327 (1.084)		996122	20	21
84 Dibenz(a,h)anthracene		278	25.315	25.337 (1.085)		759038	20	20
85 Benzo(g,h,i)perylene		276	25.862	25.884 (1.108)		765091	20	22

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

090972

Inchcape Environmental

INITIAL CALIBRATION DATA

Start Cal Date : 25-NOV-96 09:43:40
 End Cal Date : 25-NOV-96 11:56:13
 Quant Method : ISTD
 Target Version : 3.30
 Integrator : HP RTE
 Method file : /chem/R.i/Rsrv.p/RHX_8270.b/SV_8270v6RTE.m
 Cal Date : 25-Nov-96 14:18:25 je
 Curve Type : Average

Calibration File Names:

Level 1: /chem/R.i/Rsrv.p/RHX_8270.b/RHX010BS.d
 Level 2: /chem/R.i/Rsrv.p/RHX_8270.b/RHX050BS.d
 Level 3: /chem/R.i/Rsrv.p/RHX_8270.b/RHX080BS.d
 Level 4: /chem/R.i/Rsrv.p/RHX_8270.b/RHX120BS.d
 Level 5: /chem/R.i/Rsrv.p/RHX_8270.b/RHX160BS.d

Compound	20	50	80	120	160	—	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	
1 N-Nitrosodimethylamine	0.34026	0.30553	0.29825	0.26879	0.28840	0.30025	8.753
2 Pyridine	0.97902	0.96470	0.92891	0.80839	0.75668	0.88754	11.185
4 Aniline	+++++	1.27324	1.16574	1.04012	1.05009	1.13230	9.706
6 Phenol	1.35131	1.25747	1.16812	1.00800	1.05108	1.16720	12.182
7 bis(2-Chloroethyl)Ether	1.07018	1.01850	0.95535	0.82479	0.79307	0.93238	12.906
9 2-Chlorophenol	0.98911	0.91000	0.84573	0.74160	0.73666	0.84462	12.891
10 1,3-Dichlorobenzene	1.40261	1.24153	1.16125	0.99875	0.98467	1.15776	15.099
12 1,4-Dichlorobenzene	1.42991	1.24654	1.17250	1.01274	1.00935	1.17421	14.987
14 1,2-Dichlorobenzene	1.31092	1.13987	1.05138	0.91363	0.92388	1.06793	15.461
15 Benzyl Alcohol	0.50303	0.53345	0.50187	0.44640	0.47065	0.49108	6.805
16 2,2'-oxybis(1-Chloropropane)	1.38087	1.22056	1.12971	1.00924	1.08731	1.16554	12.226
17 2-Methylphenol	0.79283	0.79067	0.73386	0.64851	0.65448	0.72407	9.720
18 N-Nitroso-di-n-propylamine	0.57235	0.50586	0.47762	0.43826	0.46032	0.49088	10.556
19 Hexachloroethane	0.37575	0.35390	0.33139	0.29794	0.30095	0.33199	10.123
20 4-Methylphenol	0.82190	0.80724	0.74672	0.66354	0.70349	0.74858	8.982
22 Nitrobenzene	0.34929	0.33769	0.31157	0.27714	0.27945	0.31103	10.567
23 Isophorone	0.68342	0.69099	0.62078	0.58481	0.56432	0.62886	9.068
24 2-Nitrophenol	0.27282	0.29387	0.26917	0.24431	0.23835	0.26371	8.567
25 2,4-Dimethylphenol	0.27919	0.27206	0.25793	0.22859	0.23496	0.25455	8.748
26 bis(2-Chloroethoxy)methane	0.46085	0.44048	0.40545	0.35670	0.34810	0.40232	12.374
27 2,4-Dichlorophenol	0.41360	0.40608	0.37982	0.33363	0.35588	0.37780	8.894
28 1,2,4-Trichlorobenzene	0.35682	0.34274	0.31976	0.28937	0.29798	0.32134	8.921
29 Benzoic Acid	+++++	0.21776	0.19151	0.19188	0.20498	0.20153	6.204
31 Naphthalene	1.07848	0.92280	0.85772	0.72803	0.74371	0.86615	16.574
32 4-Chloroaniline	0.44199	0.44609	0.41147	0.38043	0.37375	0.41075	8.179

Inchcape Environmental

INITIAL CALIBRATION DATA

Start Cal Date : 25-NOV-96 09:43:40
 End Cal Date : 25-NOV-96 11:56:13
 Quant Method : ISTD
 Target Version : 3.30
 Integrator : HP RTE
 Method file : /chem/R.i/Rsrv.p/RHX_8270.b/SV_8270v6RTE.m
 Cal Date : 25-Nov-96 14:18:25 je
 Curve Type : Average

Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD
33 Hexachlorobutadiene	0.09292	0.09751	0.09105	0.08598	0.08626	0.09074	5.327
34 4-Chloro-3-Methylphenol	0.23401	0.27274	0.23921	0.22672	0.24486	0.24351	7.250
35 2-Methylnaphthalene	0.86625	0.75862	0.70563	0.62226	0.63780	0.71811	13.817
36 Hexachlorocyclopentadiene	0.15393	0.15843	0.16125	0.14615	0.14346	0.15264	5.027
37 2,4,6-Trichlorophenol	0.22959	0.24886	0.23506	0.21028	0.21723	0.22820	6.636
38 2,4,5-Trichlorophenol	+++++	0.26215	0.24769	0.22930	0.24218	0.24533	5.547
40 2-Chloronaphthalene	1.31482	1.04231	1.01221	0.85803	0.81806	1.00909	19.438
41 2-Nitroaniline	+++++	0.25141	0.24026	0.21496	0.22266	0.23232	7.127
42 Dimethylphthalate	1.53116	1.23863	1.17017	1.00506	0.98818	1.18664	18.560
43 Acenaphthylene	2.06017	1.60620	1.52832	1.19995	1.18400	1.51573	23.662
44 2,6-Dinitrotoluene	0.37322	0.36466	0.34717	0.31093	0.31722	0.34264	8.115
46 Acenaphthene	1.22224	1.01631	0.97004	0.81198	0.80755	0.96566	17.721
47 3-Nitroaniline	+++++	0.32737	0.32523	0.29345	0.28799	0.30851	6.704
48 2,4-Dinitrophenol	+++++	0.16174	0.15662	0.15081	0.14790	0.15427	3.994
49 Dibenzofuran	1.63466	1.31434	1.25822	1.03911	1.03663	1.25659	19.572
50 2,4-Dinitrotoluene	0.49167	0.46209	0.45258	0.41360	0.40869	0.44572	7.795
51 4-Nitrophenol	+++++	0.07622	0.07533	0.07012	0.06928	0.07274	4.871
52 Diethylphthalate	1.38544	1.04983	1.00030	0.82805	0.82925	1.01858	22.390
53 Fluorene	1.33395	1.05000	0.99743	0.83857	0.84701	1.01339	19.895
54 4-Chlorophenyl-phenylether	0.34643	0.32784	0.31403	0.27497	0.29232	0.31112	9.084
55 4-Nitroaniline	+++++	0.33570	0.34203	0.31205	0.27300	0.31569	9.898
56 N-nitrosodiphenylamine	0.83960	0.79455	0.73148	0.64266	0.64695	0.73105	11.984
57 4,6-Dinitro-2-methylphenol	+++++	0.15765	0.15245	0.15029	0.14678	0.15179	2.999
58 Azobenzene	0.99767	0.75809	0.73221	0.69018	0.71200	0.77803	16.107
60 4-Bromophenyl-phenylether	0.16057	0.16769	0.15847	0.14694	0.15241	0.15722	5.041
61 Hexachlorobenzene	0.19634	0.19708	0.18376	0.17466	0.17313	0.18500	6.188
62 Pentachlorophenol	+++++	0.11928	0.12094	0.11404	0.11476	0.11725	2.881
64 Phenanthrene	1.44295	1.23139	1.17397	0.97115	0.96971	1.15783	17.122
65 Anthracene	1.47998	1.22371	1.15269	0.95099	0.94114	1.14970	19.330
66 Carbazole	1.42314	1.24480	1.19824	1.01885	0.95095	1.16720	16.100
67 Di-n-butylphthalate	1.99382	1.38881	1.33022	1.92891	1.96522	1.72140	19.275
68 Fluoranthene	0.90845	0.78077	0.80404	0.69409	0.66404	0.77028	12.559

Inchcape Environmental
INITIAL CALIBRATION DATA

Start Cal Date : 25-NOV-96 09:43:40
 End Cal Date : 25-NOV-96 11:56:13
 Quant Method : ISTD
 Target Version : 3.30
 Integrator : HP RTE
 Method file : /chem/R.i/Rsrv.p/RHX_8270.b/SV_8270v6RTE.m
 Cal Date : 25-Nov-96 14:18:25 je
 Curve Type : Average

Compound	20	50	80	120	160	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
69 Benzidine	+++++	0.43918	0.39806	0.38454	0.32875	0.38763	11.769
70 Pyrene	1.66042	1.74793	1.49271	1.33072	1.34115	1.51459	12.355
72 Butylbenzylphthalate	1.66711	1.53026	1.36315	1.16851	1.20949	1.38770	15.236
73 Benzo(a)anthracene	1.22190	1.16015	1.10745	0.97705	1.00225	1.09376	9.481
74 3,3'-Dichlorobenzidine	0.43930	0.46265	0.47196	0.43897	0.42881	0.44834	4.043
76 Chrysene	1.13396	1.06619	1.02702	0.93437	0.93466	1.01924	8.466
77 bis(2-Ethylhexyl)phthalate	2.13543	1.80972	1.66631	1.33778	1.44060	1.67797	18.819
78 Di-n-octylphthalate	3.59735	3.26910	2.74114	3.51021	5.27203	3.67797	25.867
79 Benzo(b)fluoranthene	1.23795	1.41264	1.26120	1.21938	1.21891	1.27002	6.424
80 Benzo(k)fluoranthene	1.39819	1.25909	1.35452	1.10344	1.14849	1.25275	10.153
81 Benzo(a)pyrene	1.01476	1.01775	1.03956	0.94595	0.97170	0.99794	3.816
83 Indeno(1,2,3-cd)pyrene	0.95579	0.95334	0.90831	0.80818	0.91798	0.90872	6.603
84 Dibenz(a,h)anthracene	0.72831	0.74441	0.71439	0.64190	0.73764	0.71333	5.816
85 Benzo(g,h,i)perylene	0.73411	0.71813	0.67311	0.58358	0.66750	0.67529	8.689
\$ 3 2-Fluorophenol	0.82039	0.81857	0.78752	0.67667	0.65965	0.75256	10.415
\$ 5 Phenol-d5	1.14648	1.08373	1.01831	0.89130	0.91190	1.01035	10.825
\$ 8 2-Chlorophenol-d4	0.95090	0.94211	0.87618	0.76981	0.76911	0.86162	10.324
\$ 13 1,2-Dichlorobenzene-d4	0.86909	0.83091	0.78398	0.69945	0.71328	0.77934	9.404
\$ 21 Nitrobenzene-d5	0.39575	0.39299	0.36360	0.32553	0.32168	0.35991	9.859
\$ 39 2-Fluorobiphenyl	1.26214	0.99327	0.97737	0.81668	0.80125	0.97014	19.140
\$ 59 2,4,6-Tribromophenol	0.11958	0.11958	0.11502	0.10734	0.10700	0.11371	5.496
\$ 71 Terphenyl-d14	1.00015	1.07341	0.94997	0.86127	0.89398	0.95576	8.846

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Instrument ID: R Calibration Date: 11/25/96 Time: 2153

Lab File ID: RHX050ABS Init. Calib. Date(s): 11/25/96 11/25/96

Init. Calib. Times: 0943 1156

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.167	1.276		9.3	25.0
bis(2-Chloroethyl) Ether	0.932	1.001		7.4	
2-Chlorophenol	0.845	0.909		7.6	
1,3-Dichlorobenzene	1.158	1.389		19.9	
1,4-Dichlorobenzene	1.174	1.450		23.5	25.0
1,2-Dichlorobenzene	1.068	1.312		22.8	
2,2'-oxybis(1-Chloropropane)	1.165	1.372		17.8	
2-Methylphenol	0.724	0.760		5.0	
N-Nitroso-di-n-propylamine	0.491	0.560	0.050	14.0	
Hexachloroethane	0.332	0.372		12.0	
4-Methylphenol	0.749	0.812		8.4	
Nitrobenzene	0.311	0.319		2.6	
Isophorone	0.629	0.685		8.9	
2-Nitrophenol	0.264	0.268		1.5	25.0
2,4-Dimethylphenol	0.254	0.278		9.4	
bis(2-Chloroethoxy)methane	0.402	0.458		13.9	
2,4-Dichlorophenol	0.378	0.432		14.3	25.0
1,2,4-Trichlorobenzene	0.321	0.350		9.0	
Naphthalene	0.866	1.043		20.4	
4-Chloroaniline	0.411	0.398		3.2	
Hexachlorobutadiene	0.091	0.091		0.0	25.0
4-Chloro-3-Methylphenol	0.244	0.252		3.3	25.0
2-Methylnaphthalene	0.718	0.853		18.8	
Hexachlorocyclopentadiene	0.152	0.137	0.050	9.9	
2,4,6-Trichlorophenol	0.228	0.239		4.8	25.0
2,4,5-Trichlorophenol	0.245	0.246		0.4	
2-Chloronaphthalene	1.009	1.280		26.8	
2-Nitroaniline	0.232	0.235		1.3	
Dimethylphthalate	1.187	1.359		14.5	
Acenaphthylene	1.516	2.018		33.1	
2,6-Dinitrotoluene	0.343	0.331		3.5	
Acenaphthene	0.966	1.190		23.2	25.0
3-Nitroaniline	0.308	0.320		3.9	
2,4-Dinitrophenol	0.154	0.114	0.050	26.0	
Dibenzofuran	1.257	1.505		19.7	
2,4-Dinitrotoluene	0.446	0.435		2.5	
4-Nitrophenol	0.072	0.066	0.050	8.3	

All other compounds must meet a minimum RRF of 0.010.

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Instrument ID: R Calibration Date: 11/25/96 Time: 2153

Lab File ID: RHX050ABS Init. Calib. Date(s): 11/25/96 11/25/96

Init. Calib. Times: 0943 1156

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.018	1.235		21.3	
Fluorene	1.013	1.192		17.7	
4-Chlorophenyl-phenylether	0.311	0.303		2.6	
4-Nitroaniline	0.316	0.287		9.2	
N-nitrosodiphenylamine(1)	0.731	0.827		13.1	25.0
4,6-Dinitro-2-methylphenol	0.152	0.122		19.7	
4-Bromophenyl-phenylether	0.157	0.156		0.6	
Hexachlorobenzene	0.185	0.184		0.5	
Pentachlorophenol	0.117	0.109		6.8	25.0
Phenanthrene	1.158	1.403		21.2	
Anthracene	1.150	1.413		22.9	
Carbazole	1.167	1.368		17.2	
Di-n-butylphthalate	1.721	2.010		16.8	
Fluoranthene	0.770	0.855		11.0	25.0
Pyrene	1.515	1.657		9.4	
Butylbenzylphthalate	1.387	1.745		25.8	
Benzo(a)anthracene	1.094	1.236		13.0	
3,3'-Dichlorobenzidine	0.448	0.461		2.9	
Chrysene	1.019	1.162		14.0	
bis(2-Ethylhexyl)phthalate	1.678	2.305		37.4	
Di-n-octylphthalate	3.678	3.731		1.4	25.0
Benzo(b)fluoranthene	1.270	1.242		2.2	
Benzo(k)fluoranthene	1.252	1.388		10.9	
Benzo(a)pyrene	0.998	1.069		7.1	25.0
Indeno(1,2,3-cd)pyrene	0.909	1.134		24.8	
Dibenz(a,h)anthracene	0.713	0.877		23.0	
Benzo(g,h,i)perylene	0.675	0.845		25.2	
2-Fluorophenol	0.753	0.779		3.4	
Phenol-d5	1.010	1.070		5.9	
2-Chlorophenol-d4	0.862	0.931		8.0	
1,2-Dichlorobenzene-d4	0.779	0.896		15.0	
Nitrobenzene-d5	0.360	0.365		1.4	
2-Fluorobiphenyl	0.970	1.226		26.4	
2,4,6-Tribromophenol	0.114	0.111		2.6	
Terphenyl-d14	0.956	0.981		2.6	

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

Data File: /chem/R.i/R1.p/RHXA_8270.b/RHX050ABS.d
Date : 25-NOV-96 21:53:00
Client ID: SST050

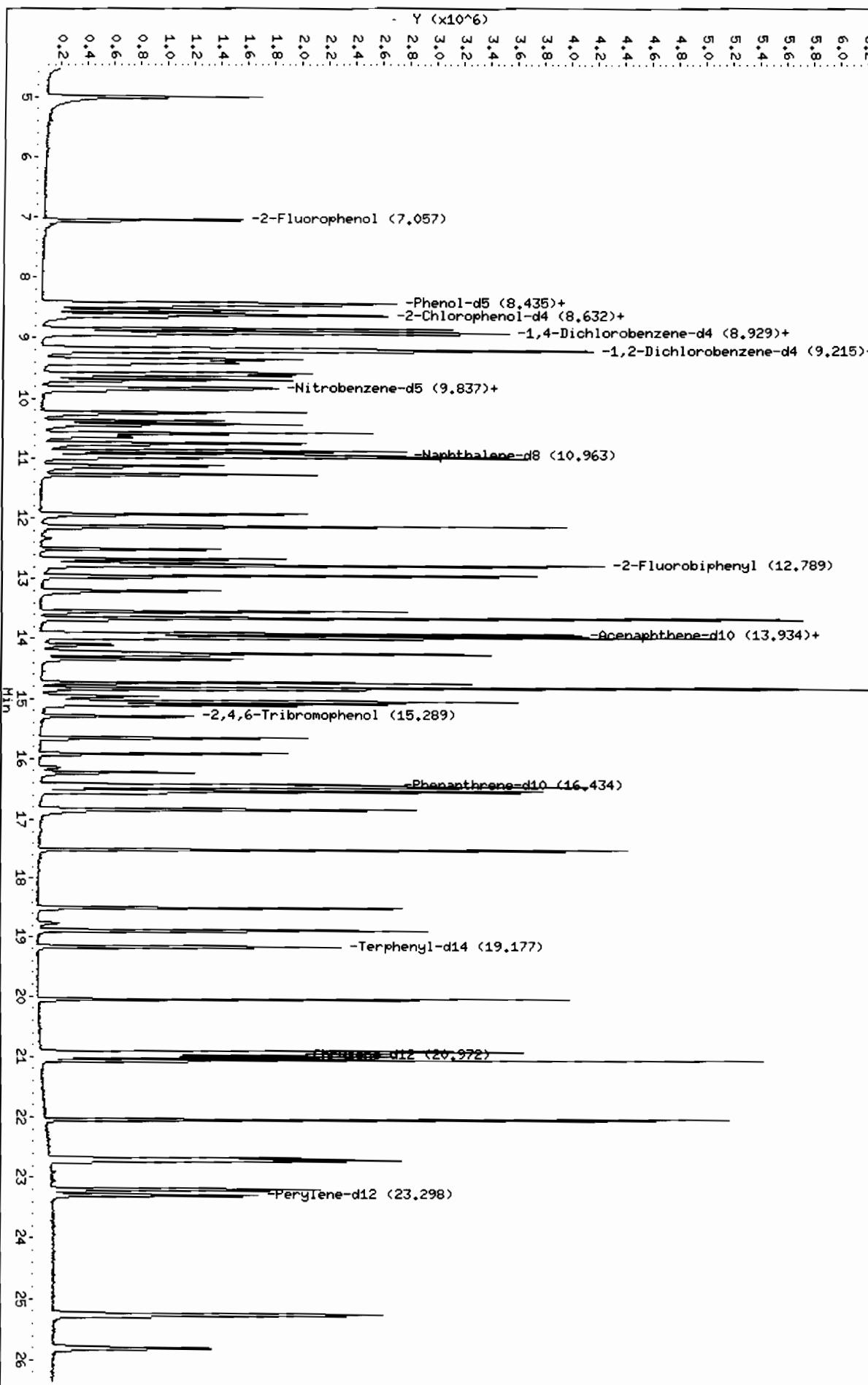
Sample Info: SST050 CRI#RHXA-A

Volume Injected (uL): 2.0

Column phase: RTX-5

Instrument: R.i
Operator: BES
Column diameter: 0.25

/chem/R.i/R1.p/RHXA_8270.b/RHX050ABS.d



Inchcape Environmental

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem/R.i/R1.p/RHXA_8270.b/RHX050ABS.d
Lab Smp Id: SSTD050 Client Smp ID: SSTD050
Inj Date : 25-NOV-96 21:53:00 MS Autotune Date: @
Operator : BES Inst ID: R.i
Smp Info : SSTD050 CRV#RHX-A
Misc Info : 100% ANALYSIS
Comment :
Method : /chem/R.i/R1.p/RHXA_8270.b/SV_8270v6RTE.m
Meth Date : 27-Nov-96 18:50:33 je Quant Type: ISTD
Cal Date : 25-NOV-96 21:53:00 Cal File: RHX050ABS.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.30
Procesing Host: chemsvr4

Concentration Formula: $Uf * Vt / (Vo * Vi)$

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
1 N-Nitrosodimethylamine	42	4.999	4.999 (0.561)	4.999	0.561	428398	50	54
2 Pyridine	79	5.009	5.009 (0.562)	5.009	0.562	1131746	50	49
\$ 3 2-Fluorophenol	112	7.057	7.057 (0.792)	7.057	0.792	1018547	50	52
4 Aniline	93	8.474	8.474 (0.951)	8.474	0.951	1571242	50	53
\$ 5 Phenol-d5	99	8.425	8.425 (0.946)	8.425	0.946	1398725	50	53
6 Phenol	94	8.445	8.445 (0.948)	8.445	0.948	1668478	50	55
7 bis(2-Chloroethyl)Ether	93	8.553	8.553 (0.960)	8.553	0.960	1309271	50	54
\$ 8 2-Chlorophenol-d4	132	8.613	8.613 (0.967)	8.613	0.967	1218012	50	54
9 2-Chlorophenol	128	8.642	8.642 (0.970)	8.642	0.970	1188701	50	54
10 1,3-Dichlorobenzene	146	8.850	8.850 (0.993)	8.850	0.993	1816024	50	60
* 11 1,4-Dichlorobenzene-d4	152	8.909	8.909 (1.000)	8.909	1.000	1046072	40	
12 1,4-Dichlorobenzene	146	8.929	8.929 (1.002)	8.929	1.002	1896273	50	62
\$ 13 1,2-Dichlorobenzene-d4	152	9.205	9.205 (1.033)	9.205	1.033	1171262	50	57
14 1,2-Dichlorobenzene	146	9.225	9.225 (1.035)	9.225	1.035	1715572	50	61
15 Benzyl Alcohol	108	9.165	9.165 (1.029)	9.165	1.029	704673	50	55

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)
16 2,2'-oxybis(1-Chloropropane)	45	9.393	9.393 (1.054)	1794414	50	59	
17 2-Methylphenol	108	9.363	9.363 (1.051)	994166	50	52	
18 N-Nitroso-di-n-propylamine	70	9.630	9.630 (1.081)	731661	50	57	
19 Hexachloroethane	117	9.699	9.699 (1.089)	486581	50	56	
20 4-Methylphenol	108	9.590	9.590 (1.076)	1062375	50	54	
\$ 21 Nitrobenzene-d5	82	9.827	9.827 (0.897)	1166205	50	51	
22 Nitrobenzene	77	9.857	9.857 (0.900)	1018447	50	51	
23 Isophorone	82	10.242	10.242 (0.935)	2188913	50	54	
24 2-Nitrophenol	139	10.380	10.380 (0.948)	856723	50	51	
25 2,4-Dimethylphenol	107	10.439	10.439 (0.953)	887322	50	54	
26 bis(2-Chloroethoxy)methane	93	10.587	10.587 (0.967)	1462521	50	57	
27 2,4-Dichlorophenol	162	10.755	10.755 (0.982)	1379827	50	57	
28 1,2,4-Trichlorobenzene	180	10.894	10.894 (0.995)	1117775	50	54	
29 Benzoic Acid	122	10.656	10.656 (0.973)	604827	50	47	
* 30 Naphthalene-d8	136	10.953	10.953 (1.000)	2556729	40		
31 Naphthalene	128	10.993	10.993 (1.004)	3333230	50	60	
32 4-Chloroaniline	127	11.131	11.131 (1.016)	1270701	50	48	
33 Hexachlorobutadiene	225	11.279	11.279 (1.030)	291775	50	50	
34 4-Chloro-3-Methylphenol	107	11.940	11.940 (1.090)	803988	50	52	
35 2-Methylnaphthalene	142	12.137	12.137 (1.108)	2727393	50	59	
36 Hexachlorocyclopentadiene	237	12.512	12.512 (0.898)	294218	50	45	
37 2,4,6-Trichlorophenol	196	12.680	12.680 (0.910)	512069	50	52	
38 2,4,5-Trichlorophenol	196	12.739	12.739 (0.914)	527983	50	50	
\$ 39 2-Fluorobiphenyl	172	12.789	12.789 (0.918)	2629549	50	63	
40 2-Chloronaphthalene	162	12.957	12.957 (0.930)	2745583	50	63	
41 2-Nitroaniline	65	13.214	13.214 (0.948)	504332	50	51	
42 Dimethylphthalate	163	13.559	13.559 (0.973)	2913174	50	57	
43 Acenaphthylene	152	13.678	13.678 (0.982)	4326068	50	66	
44 2,6-Dinitrotoluene	165	13.678	13.678 (0.982)	710285	50	48	
* 45 Acenaphthene-d10	164	13.934	13.934 (1.000)	1715388	40		
46 Acenaphthene	153	13.984	13.984 (1.004)	2550909	50	62	
47 3-Nitroaniline	138	13.914	13.914 (0.999)	687359	50	52(H)	
48 2,4-Dinitrophenol	184	14.102	14.102 (1.012)	244955	50	37	
49 Dibenzofuran	168	14.261	14.261 (1.023)	3227015	50	60	
50 2,4-Dinitrotoluene	165	14.340	14.340 (1.029)	931905	50	49	
51 4-Nitrophenol	109	14.211	14.211 (1.020)	142032	50	46	
52 Diethylphthalate	149	14.745	14.745 (1.058)	2648386	50	61	
53 Fluorene	166	14.844	14.844 (1.065)	2556512	50	59	
54 4-Chlorophenyl-phenylether	204	14.844	14.844 (1.065)	649544	50	49	
55 4-Nitroaniline	138	14.962	14.962 (1.074)	615945	50	45	
56 N-nitrosodiphenylamine	169	15.061	15.061 (0.916)	1825440	50	56	
57 4,6-Dinitro-2-methylphenol	198	15.041	15.041 (0.915)	268632	50	40	
58 Azobenzene	77	15.111	15.111 (1.084)	1801028	50	54	
\$ 59 2,4,6-Tribromophenol	330	15.299	15.299 (1.098)	237937	50	49	
60 4-Bromophenyl-phenylether	248	15.664	15.664 (0.953)	344086	50	50	
61 Hexachlorobenzene	284	15.921	15.921 (0.969)	407205	50	50	
62 Pentachlorophenol	266	16.237	16.237 (0.988)	241015	50	46	

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
* 63 Phenanthrene-d10	188	16.434	16.434 (1.000)	1765734		40		
64 Phenanthrene	178	16.474	16.474 (1.002)	3096229		50	60	
65 Anthracene	178	16.544	16.544 (1.007)	3119065		50	61	
66 Carbazole	167	16.840	16.840 (1.025)	3020492		50	59	
67 Di-n-butylphthalate	149	17.510	17.510 (1.065)	4437346		50	58	
68 Fluoranthene	202	18.506	18.506 (1.126)	1887057		50	55	
69 Benzidine	184	18.762	18.762 (0.895)	207913		50	23(aM)	
70 Pyrene	202	18.891	18.891 (0.901)	1919882		50	55	
\$ 71 Terphenyl-d14	244	19.177	19.177 (0.914)	1137378		50	51	
72 Butylbenzylphthalate	149	20.064	20.064 (0.957)	2021905		50	63	
73 Benzo(a)anthracene	228	20.943	20.943 (0.999)	1431961		50	56	
74 3,3'-Dichlorobenzidine	252	20.932	20.932 (0.998)	534262		50	51	
* 75 Chrysene-d12	240	20.972	20.972 (1.000)	927122		40		
76 Chrysene	228	21.012	21.012 (1.002)	1346246		50	57	
77 bis(2-Ethylhexyl)phthalate	149	21.072	21.072 (1.005)	2670817		50	69	
78 Di-n-octylphthalate	149	22.050	22.050 (0.946)	4252507		50	51	
79 Benzo(b)fluoranthene	252	22.683	22.683 (0.974)	1415391		50	49	
80 Benzo(k)fluoranthene	252	22.723	22.723 (0.975)	1582261		50	55	
81 Benzo(a)pyrene	252	23.209	23.209 (0.996)	1218789		50	54	
* 82 Perylene-d12	264	23.298	23.298 (1.000)	911753		40		
83 Indeno(1,2,3-cd)pyrene	276	25.260	25.260 (1.084)	1292359		50	62	
84 Dibenz(a,h)anthracene	278	25.270	25.270 (1.085)	1000059		50	62	
85 Benzo(g,h,i)perylene	276	25.816	25.816 (1.108)	963351		50	62	

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Inchcape Environmental

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: R.i Injection Date: 25-NOV-96 21:53:00
Lab File ID: RHX050ABS.d Init. Calibration Date(s): 11/25/96 11/25/96
Analysis Type: WATER Init. Calibration Times: 09:43:40 11:56:1:
Lab Sample ID: SSTD050 Method File: /chem/R.i/R1.p/RHXA_8270.b/SV_8270
Quant Type: ISTD

COMPOUND	RRF	RF50	MIN	%D	MAX
		RRF		%D	
1 N-Nitrosodimethylamine	0.300	0.328	0.010	9.1	40.0
2 Pyridine	0.888	0.866	0.010	2.5	40.0
\$ 3 2-Fluorophenol	0.753	0.779	0.010	3.5	40.0
4 Aniline	1.132	1.202	0.010	6.1	40.0
\$ 5 Phenol-d5	1.010	1.070	0.010	5.9	40.0
6 Phenol	1.167	1.276	0.010	9.3	25.0
7 bis(2-Chloroethyl)Ether	0.932	1.001	0.010	7.4	40.0
\$ 8 2-Chlorophenol-d4	0.862	0.931	0.010	8.1	40.0
9 2-Chlorophenol	0.845	0.909	0.010	7.6	40.0
10 1,3-Dichlorobenzene	1.158	1.389	0.010	20.0	40.0
12 1,4-Dichlorobenzene	1.174	1.450	0.010	23.5	25.0
\$ 13 1,2-Dichlorobenzene-d4	0.779	0.896	0.010	14.9	40.0
14 1,2-Dichlorobenzene	1.068	1.312	0.010	22.9	40.0
15 Benzyl Alcohol	0.491	0.539	0.010	9.7	40.0
16 2,2'-oxybis(1-Chloropropane)	1.166	1.372	0.010	17.7	40.0
17 2-Methylphenol	0.724	0.760	0.010	5.0	40.0
18 N-Nitroso-di-n-propylamine	0.491	0.560	0.050	14.0	40.0
19 Hexachloroethane	0.332	0.372	0.010	12.1	40.0
20 4-Methylphenol	0.749	0.812	0.010	8.5	40.0
\$ 21 Nitrobenzene-d5	0.360	0.365	0.010	1.4	40.0
22 Nitrobenzene	0.311	0.319	0.010	2.5	40.0
23 Isophorone	0.629	0.685	0.010	8.9	40.0
24 2-Nitrophenol	0.264	0.268	0.010	1.7	25.0
25 2,4-Dimethylphenol	0.255	0.278	0.010	9.1	40.0
26 bis(2-Chloroethoxy)methane	0.402	0.458	0.010	13.7	40.0
27 2,4-Dichlorophenol	0.378	0.432	0.010	14.3	25.0
28 1,2,4-Trichlorobenzene	0.321	0.350	0.010	8.8	40.0
29 Benzoic Acid	0.202	0.189	0.010	6.1	40.0
31 Naphthalene	0.866	1.043	0.010	20.4	40.0
32 4-Chloroaniline	0.411	0.398	0.010	3.2	40.0
33 Hexachlorobutadiene	0.091	0.091	0.010	0.6	25.0
34 4-Chloro-3-Methylphenol	0.244	0.252	0.010	3.3	25.0
35 2-Methylnaphthalene	0.718	0.853	0.010	18.8	40.0
36 Hexachlorocyclopentadiene	0.153	0.137	0.050	10.1	40.0
37 2,4,6-Trichlorophenol	0.228	0.239	0.010	4.6	25.0
38 2,4,5-Trichlorophenol	0.245	0.246	0.010	0.4	40.0
\$ 39 2-Fluorobiphenyl	0.970	1.226	0.010	26.4	40.0
40 2-Chloronaphthalene	1.009	1.280	0.010	26.9	40.0

0000000

Inchcape Environmental

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: R.i Injection Date: 25-NOV-96 21:53:00
Lab File ID: RHX050ABS.d Init. Calibration Date(s): 11/25/96 11/25/96
Analysis Type: WATER Init. Calibration Times: 09:43:40 11:56:13
Lab Sample ID: SSTD050 Method File: /chem/R.i/R1.p/RHXA_8270.b/SV_8270v
Quant Type: ISTD

COMPOUND	RRF	RF50	MIN	%D	MAX
		RRF		%D	
41 2-Nitroaniline	0.232	0.235 0.010	1.2	40.0	
42 Dimethylphthalate	1.187	1.359 0.010	14.5	40.0	
43 Acenaphthylene	1.516	2.018 0.010	33.1	40.0	
44 2,6-Dinitrotoluene	0.343	0.331 0.010	3.3	40.0	
46 Acenaphthene	0.966	1.190 0.010	23.2	25.0	
47 3-Nitroaniline	0.309	0.321 0.010	3.9	40.0	
48 2,4-Dinitrophenol	0.154	0.114 0.050	25.9	40.0	
49 Dibenzofuran	1.257	1.505 0.010	19.8	40.0	
50 2,4-Dinitrotoluene	0.446	0.435 0.010	2.5	40.0	
51 4-Nitrophenol	0.073	0.066 0.050	8.9	40.0	
52 Diethylphthalate	1.019	1.235 0.010	21.3	40.0	
53 Fluorene	1.013	1.192 0.010	17.7	40.0	
54 4-Chlorophenyl-phenylether	0.311	0.303 0.010	2.6	40.0	
55 4-Nitroaniline	0.316	0.287 0.010	9.0	40.0	
56 N-nitrosodiphenylamine	0.731	0.827 0.010	13.1	25.0	
57 4,6-Dinitro-2-methylphenol	0.152	0.122 0.010	19.8	40.0	
58 Azobenzene	0.778	0.840 0.010	8.0	40.0	
\$ 59 2,4,6-Tribromophenol	0.114	0.111 0.010	2.4	40.0	
60 4-Bromophenyl-phenylether	0.157	0.156 0.010	0.8	40.0	
61 Hexachlorobenzene	0.185	0.184 0.010	0.3	40.0	
62 Pentachlorophenol	0.117	0.109 0.010	6.9	25.0	
64 Phenanthrene	1.158	1.403 0.010	21.2	40.0	
65 Anthracene	1.150	1.413 0.010	22.9	40.0	
66 Carbazole	1.167	1.368 0.010	17.2	40.0	
67 Di-n-butylphthalate	1.721	2.010 0.010	16.8	40.0	
68 Fluoranthene	0.770	0.855 0.010	11.0	25.0	
69 Benzidine	0.388	0.179 0.010	53.7	40.0 <-	
70 Pyrene	1.515	1.657 0.010	9.4	40.0	
\$ 71 Terphenyl-d14	0.956	0.981 0.010	2.7	40.0	
72 Butylbenzylphthalate	1.388	1.745 0.010	25.7	40.0	
73 Benzo(a)anthracene	1.094	1.236 0.010	13.0	40.0	
74 3,3'-Dichlorobenzidine	0.448	0.461 0.010	2.8	40.0	
76 Chrysene	1.019	1.162 0.010	14.0	40.0	
77 bis(2-Ethylhexyl)phthalate	1.678	2.305 0.010	37.3	40.0	
78 Di-n-octylphthalate	3.678	3.731 0.010	1.4	25.0	
79 Benzo(b)fluoranthene	1.270	1.242 0.010	2.2	40.0	
80 Benzo(k)fluoranthene	1.253	1.388 0.010	10.8	40.0	
81 Benzo(a)pyrene	0.998	1.069 0.010	7.2	25.0	

090083

Data File: /chem/R.i/R1.p/RHXA_8270.b/RHX050ABS.d
Report Date: 27-Nov-96 18:50:43

Page 3

Inchcape Environmental

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: R.i Injection Date: 25-NOV-96 21:53:00
Lab File ID: RHX050ABS.d Init. Calibration Date(s): 11/25/96 11/25/96
Analysis Type: WATER Init. Calibration Times: 09:43:40 11:56:13
Lab Sample ID: SSTD050 Method File: /chem/R.i/R1.p/RHXA_8270.b/SV_8270v
Quant Type: ISTD

COMPOUND	RRF	RF50	MIN		MAX	
			RRF	%D	RRF	%D
83 Indeno(1,2,3-cd)pyrene	0.909	1.134	0.010	24.8	40.0	
84 Dibenz(a,h)anthracene	0.713	0.877	0.010	23.0	40.0	
85 Benzo(g,h,i)perylene	0.675	0.845	0.010	25.2	40.0	

30

Col # 204-1111

6PC-C

DJP

11/13/96

Loop

2

3

4

5

6

Sample

MeCl₂ Blk-Tolu

SB1kT5

318890mJB

318889

MeCl₂ Blk-Tolu

0000005

Col # 204-1111

6PC-C

DTP 11-11-96

LIST: LIST
PEAK CAPACITY: 996ZERO = 5,-0.77
ATT 2↑ = 5
CHT SP = 0.2
PK WD = 0.64
THRSH = 4
AR REJ = 0

6PC-C (a) J. phen

(Col # 204-1111)

S.0L-T (a) S/T

Lot # 8960311B

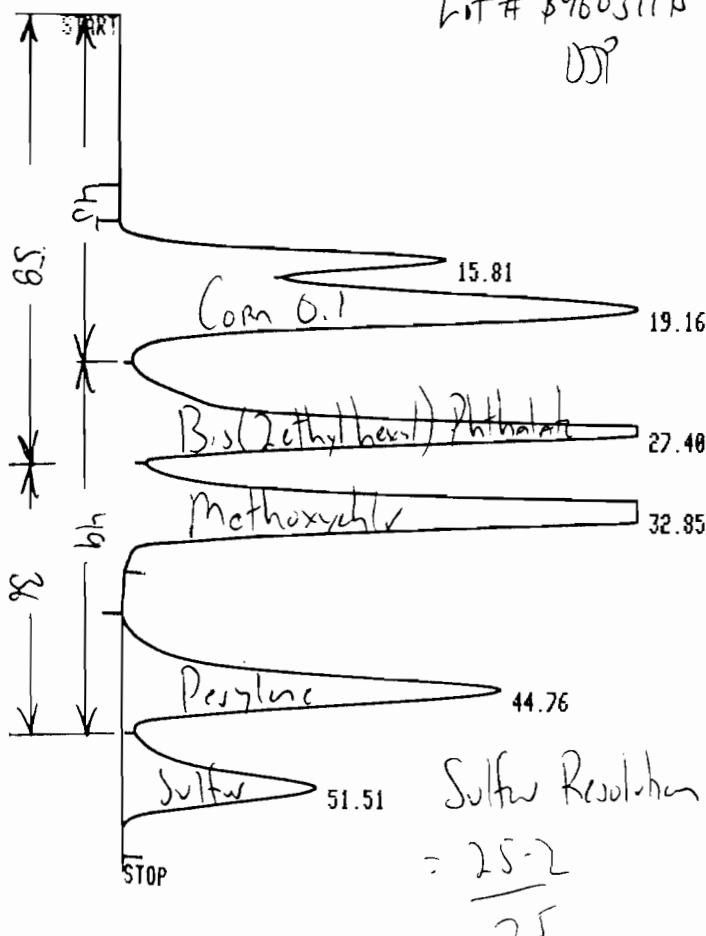
BPA R/t

Dump: 22.5 29.0

Collect: 28.5 20.0

Wash: 13.0 15.0

Flow Rate = 51.1 l/min

RUN #: 2
WORKFILE ID: B
WORKFILE NAME:

$$\frac{25-2}{25} = 92\%$$

AREA%	RT	AREA	TYPE	AR/HT	AREA%
	15.81	1.5351E+07	PY	1.667	8.444
	19.16	3.8109E+07	VV	2.584	20.961
	27.40	3.5467E+07	VV	2.114	19.508
	32.85	4.9656E+07	VB	2.193	27.312
	44.76	2.8135E+07	BV	2.617	15.475
	51.51	1.5092E+07	VB	2.729	8.301

TOTAL AREA= 1.8181E+08
MUL FACTOR= 1.0000E+00

JDP

LIST: LIST
PEAK CAPACITY: 596

ZERO = 5,-0.22
ATT 2↑ = 5
CHT SP = 0.2
PK WD = 0.64
THRSH = 4
AR REJ = 0

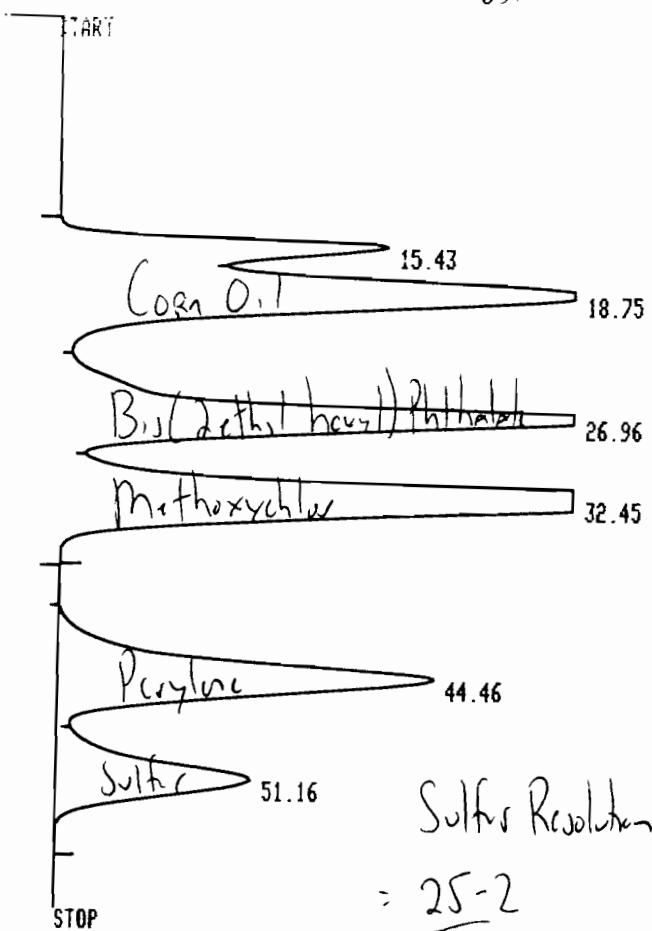
GPC-C Calibration

Col # 204-1111

S.0117 Cal file

Lot # B960311B

DJP



Sulfur Resolution

$$= \frac{25-2}{25}$$

RUN # 1
WORKFILE ID: B
WORKFILE NAME:

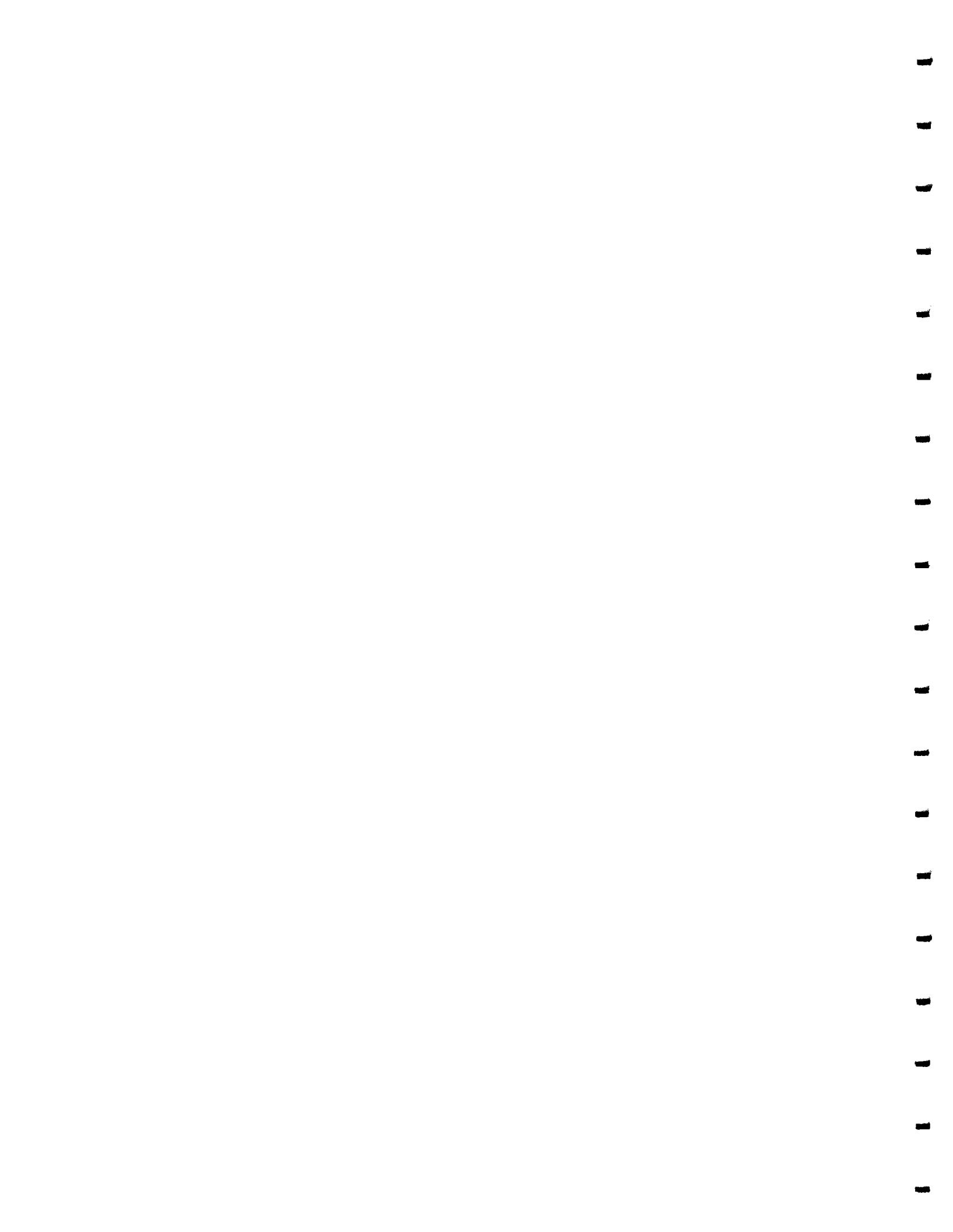
= 92%

AREA%

RT	AREA	TYPE	AR/HT	AREA%
15.43	1.5389E+07	BY	1.652	8.332
18.75	3.9574E+07	YY	2.610	21.427
26.96	3.5727E+07	YY	2.130	19.345
32.45	5.0309E+07	VB	2.220	27.248
44.46	2.8316E+07	PY	2.636	15.332
51.16	1.5372E+07	VB	2.777	8.324

TOTAL AREA= 1.8469E+08
MUL FACTOR= 1.0000E+00

090087

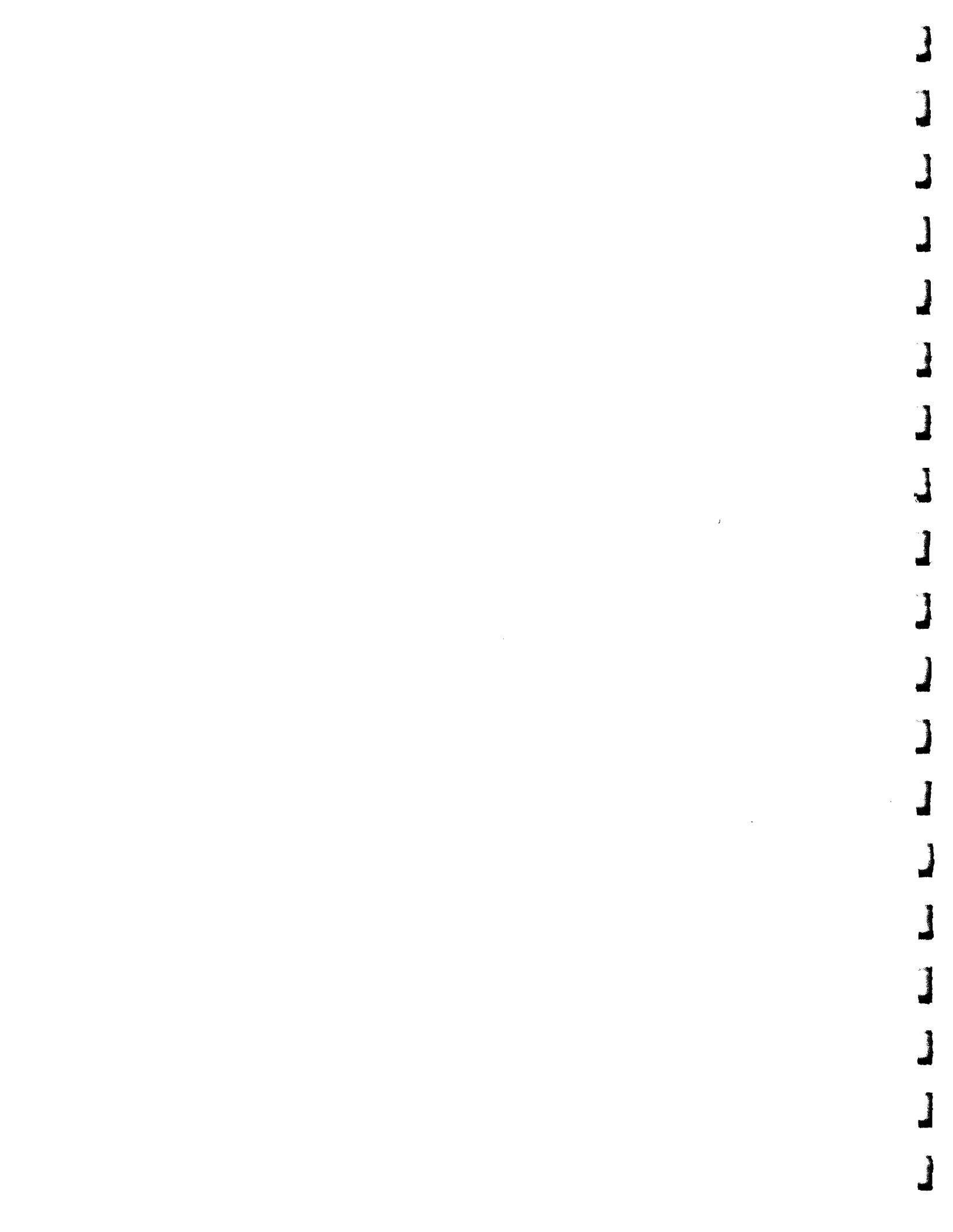


METHOD 8270
SEMIVOLATILE ORGANIC ANALYSIS

RAW QC DATA



Inchcape Testing Services



Data File: /chem/R.i/RSUR.p/RHX_8270.b/RHX001PS.d

Date : 25-NOV-96 08:44

Client ID: DFTPPR01

Sample Info: 50 ng DFTPPR01

Volume Injected (ul): 2.0

Column phase: RTX-5

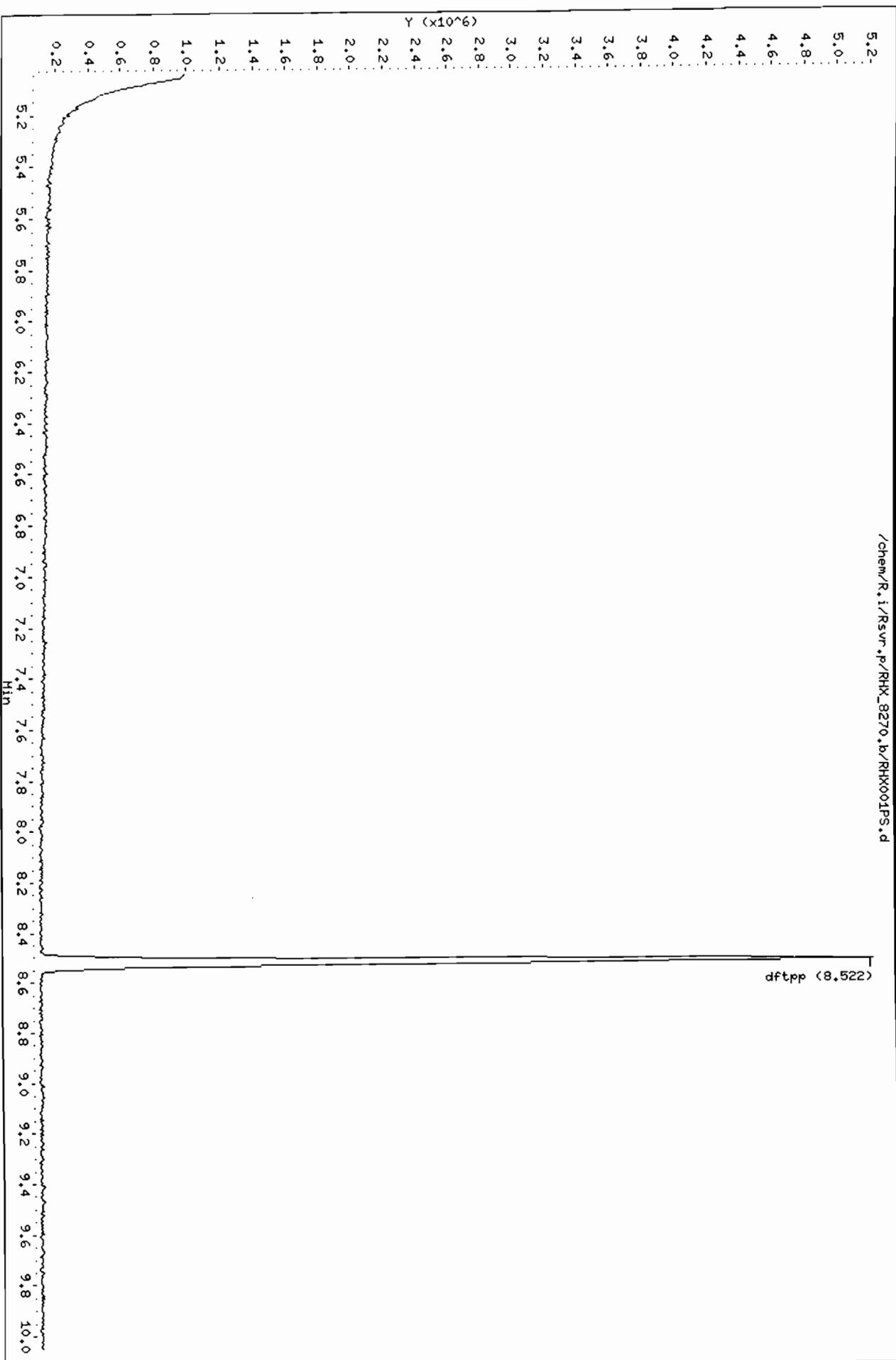
Page 1

Instrument: R.i
Operator: DJB
Column diameter: 0.25

/chem/R.i/RSUR.p/RHX_8270.b/RHX001PS.d

dftpp (8.522)

00000008



Date : 25-NOV-96 08:44

Client ID: DFTPPR01

Instrument: R.i

Sample Info: 50 ng DFTPPR01

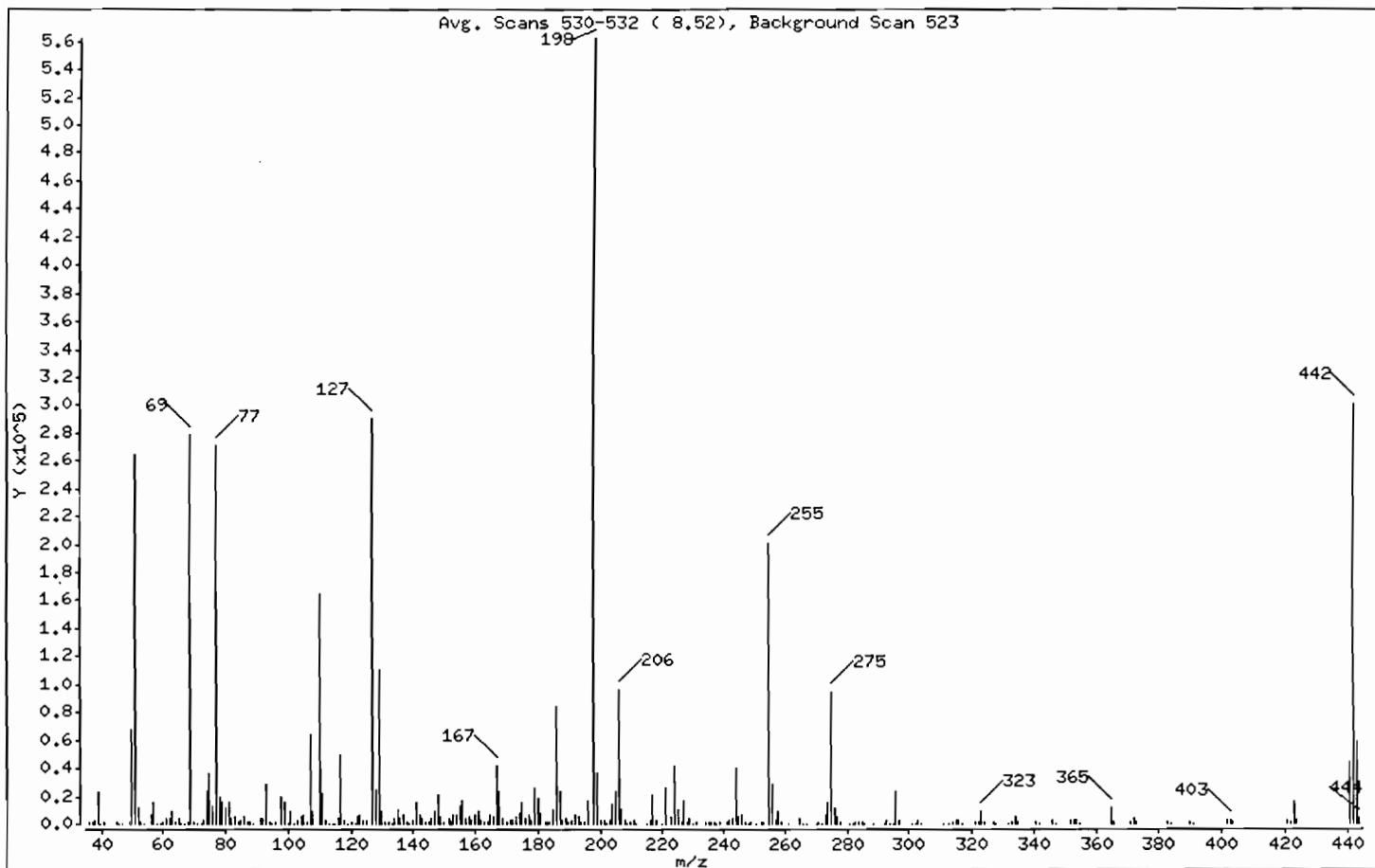
Volume Injected (uL): 2.0

Operator: DJB

Column phase: RTX-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	* RELATIVE ABUNDANCE
198 Base Peak, 100% relative abundance	100.00	
51 30.00 - 60.00% of mass 198	46.98	
68 Less than 2.00% of mass 69	0.19 < 0.39	
69 Mass 69 relative abundance	49.65	
70 Less than 2.00% of mass 69	0.16 < 0.32	
127 40.00 - 60.00% of mass 198	51.59	
197 Less than 1.00% of mass 198	0.00	
199 5.00 - 9.00% of mass 198	6.35	
275 10.00 - 30.00% of mass 198	16.87	
365 Greater than 1.00% of mass 198	2.07	
441 Present, but less than mass 443	7.72	
442 40.00 - 110.00% of mass 198	53.51	
443 17.00 - 23.00% of mass 442	10.46 < 19.55	

000009

Date : 25-NOV-96 08:44

Client ID: DFTPPR01

Instrument: R.i

Sample Info: 50 ng DFTPPR01

Volume Injected (uL): 2.0

Operator: DJB

Column phase: RTX-5

Column diameter: 0.25

Data File: RHX001PS.d

Spectrum: Avg. Scans 530-532 (8.52), Background Scan 523

Location of Maximum: 197.90

Number of points: 281

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	1298 114.95	548 186.95	23464 272.05	473			
37.10	1123 115.95	4045 187.90	2005 272.85	6767			
37.90	2744 116.95	49064 188.90	4044 273.85	15741			
39.00	22992 117.95	2809 189.80	760 274.95	94856			
39.90	409 118.85	495 191.00	1963 275.95	11812			
40.90	848 119.95	809 191.90	6607 276.95	5706			
44.85	1146 121.25	264 192.90	5789 277.95	937			
45.85	322 121.95	4663 194.00	1589 280.95	301			
46.95	289 122.80	6835 195.10	655 281.85	371			
48.95	1904 123.90	2713 195.90	16848 282.85	1256			
49.95	67280 124.90	2739 197.90	562176 284.05	873			
50.95	264128 126.90	290048 198.90	35712 285.05	1596			
51.95	11952 128.00	24568 200.00	2054 285.75	167			
52.95	912 128.90	110400 201.40	2605 288.80	320			
53.95	248 129.90	9138 202.00	359 292.00	223			
55.95	6427 130.90	1439 203.00	3063 292.90	1974			
56.95	15143 131.90	1228 204.00	13742 293.90	285			
57.90	508 133.00	495 204.95	22816 294.80	230			
59.00	295 134.00	3485 205.95	96488 295.90	23920			
59.90	714 135.00	9888 206.95	10637 296.90	2970			
60.90	3571 135.90	3566 207.95	3230 301.00	224			
61.90	3854 137.00	6131 208.75	343 302.00	230			
62.90	9554 137.90	994 209.95	1484 302.85	3124			
64.00	837 138.80	399 210.95	1955 303.95	216			
65.00	3744 139.95	2352 211.75	380 310.95	253			
65.80	288 140.85	15876 214.85	467 313.05	199			
67.00	378 141.95	6793 216.05	2136 313.95	1534			
67.90	1076 142.85	3725 216.85	20584 314.95	2690			
68.90	279104 143.95	1207 217.85	2252 315.95	2047			
69.90	881 144.95	1315 219.65	217 316.85	197			
71.00	235 145.95	3615 219.85	389 320.90	893			
72.00	379 146.95	9578 220.90	25304 322.00	771			
73.00	2683 147.85	20688 222.90	5150 322.90	8862			
73.95	22920 148.95	5501 223.90	40936 323.90	1575			
74.85	35928 149.75	1132 224.90	10711 326.90	1771			

Date : 25-NOV-96 08:44

Client ID: DFTPPR01

Instrument: R.i

Sample Info: 50 ng DFTPPR01

Volume Injected (uL): 2.0

Operator: DJB

Column phase: RTX-5

Column diameter: 0.25

Data File: RHX001PS.d

Spectrum: Avg. Scans 530-532 (8.52), Background Scan 523

Location of Maximum: 197.90

Number of points: 281

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.05	12945 151.55	3447 226.00	1476 327.90	279			
76.95	270144 151.95	819 226.90	16808 332.00	269			
77.95	19144 152.95	6807 228.00	1674 333.10	684			
78.95	15587 153.95	5874 228.90	3999 334.00	5546			
79.85	12258 154.95	12333 230.10	185 334.90	1192			
80.95	15353 155.90	16241 230.90	1316 340.75	817			
81.95	4316 157.00	4532 233.90	855 341.95	201			
82.95	4981 157.90	4585 234.90	1228 345.85	2218			
83.95	1315 158.90	2721 236.00	691 346.95	484			
84.95	2531 159.90	6806 236.90	1460 351.90	2464			
85.95	4986 160.90	9606 237.85	238 352.90	2228			
86.95	1460 161.90	2980 238.95	716 353.90	2625			
87.85	722 162.80	789 240.85	1151 354.80	462			
88.95	386 163.90	1410 241.95	2406 364.90	11663			
90.90	4530 164.90	7087 243.05	3515 365.80	1258			
91.90	4363 166.00	5765 243.95	40752 370.85	1049			
92.90	27880 167.00	41936 244.95	5222 371.95	4412			
93.90	1738 167.90	23200 245.95	6392 372.85	1441			
95.00	8 168.90	3551 246.75	1507 382.95	1174			
95.90	825 170.00	1556 247.95	200 383.90	230			
97.90	19520 171.00	2146 248.85	1090 390.00	805			
98.90	15655 171.95	3139 250.65	569 391.00	619			
99.90	637 172.95	4894 250.75	436 401.95	2119			
100.90	8970 173.95	7296 252.45	1176 402.85	2877			
102.00	602 174.95	15004 252.95	1736 403.75	778			
102.90	2925 175.95	4058 254.90	200896 420.90	1995			
104.00	5580 176.85	6858 255.90	28416 422.00	1435			
104.90	5894 177.95	2412 256.90	3200 422.90	15979			
106.10	1282 178.85	25312 257.90	9670 423.90	2888			
106.95	63536 179.95	17728 258.90	1341 440.95	43408			
107.85	9153 180.95	8394 261.00	519 441.95	300864			
109.95	164992 182.55	1521 264.90	4024 442.95	58816			
110.95	22192 183.15	709 266.00	373 443.95	4424			
111.85	2456 183.85	1720 267.20	255				
113.05	641 184.95	10931 269.85	234				

000003

Data File: /chem/R.i/Rsvr.p/RHX_8270.b/RHX001PS.d

Page 5

Date : 25-NOV-96 08:44

Client ID: DFTPPR01

Instrument: R.i

Sample Info: 50 ng DFTPPR01

Volume Injected (uL): 2.0

Operator: DJB

Column phase: RTX-5

Column diameter: 0.25

Data File: RHX001PS.d

Spectrum: Avg. Scans 530-532 (8.52), Background Scan 523

Location of Maximum: 197.90

Number of points: 281

m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.35	181	185.95	84400	270.85	863		

Data File: /chem/R.i/R1.p/RHXA_8270.b/RHK002PS.d

Date : 25-NOV-96 21:37

Client ID: DFTPPR02

Sample Info: 50 ng DFTPPR02

Volume Injected (uL): 2.0

Column phase: RTX-5

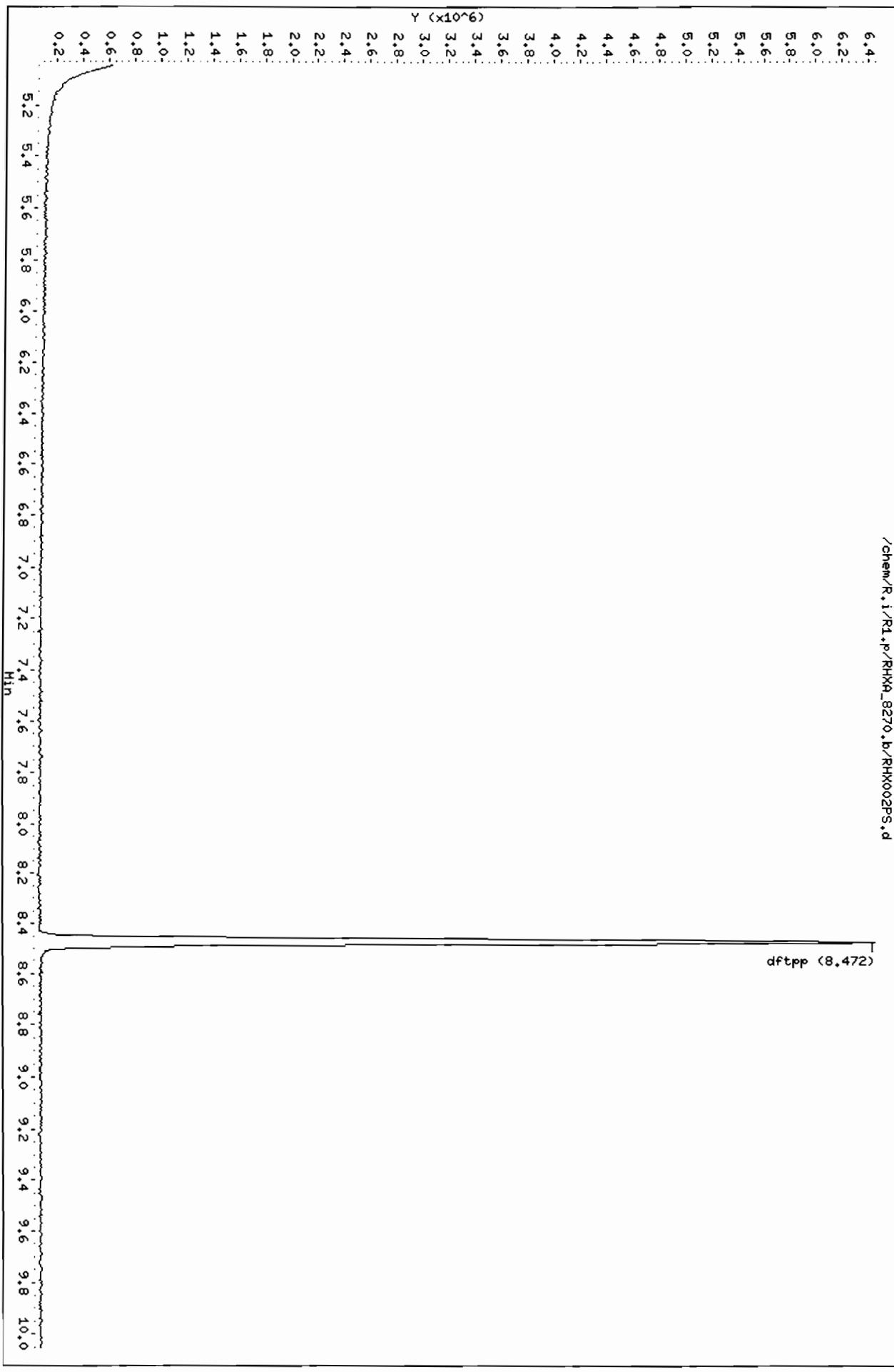
/chem/R.i/R1.p/RHXA_8270.b/RHK002PS.d

Instrument: R.i

Operator: BES

Column diameter: 0.25

Page 1



09093

Date : 25-NOV-96 21:37

Client ID: DFTPPR02

Instrument: R.i

Sample Info: 50 ng DFTPPR02

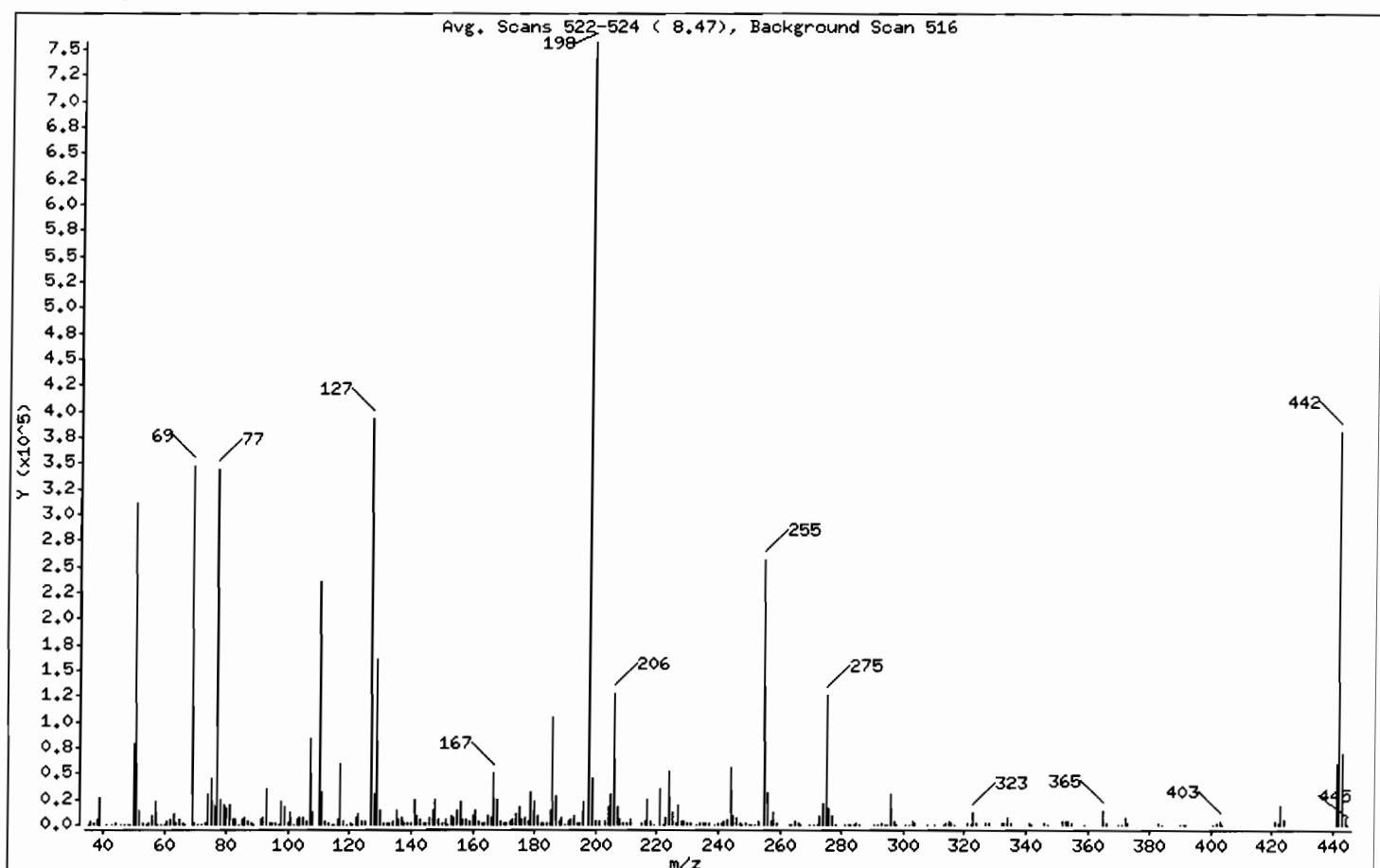
Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	* RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	40.95
68	Less than 2.00% of mass 69	0.00 (< 0.00)
69	Mass 69 relative abundance	45.87
70	Less than 2.00% of mass 69	0.17 (< 0.36)
127	40.00 - 60.00% of mass 198	51.73
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	5.88
275	10.00 - 30.00% of mass 198	16.54
365	Greater than 1.00% of mass 198	1.94
441	Present, but less than mass 443	7.84
442	40.00 - 110.00% of mass 198	50.21
443	17.00 - 23.00% of mass 442	9.31 (< 18.54)

090004

Date : 25-NOV-96 21:37

Client ID: DFTPPR02

Instrument: R.i

Sample Info: 50 ng DFTPPR02

Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Data File: RHX002PS.d

Spectrum: Avg. Scans 522-524 (8.47), Background Scan 516

Location of Maximum: 197.90

Number of points: 292

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	194 114.85	784 189.90	679 277.85	824			
35.90	2992 116.05	4410 191.00	2940 281.05	276			
36.90	1041 116.95	60048 191.90	6098 281.95	214			
38.00	4657 117.95	4112 193.00	8150 282.95	712			
39.00	25448 119.05	331 193.90	1938 283.85	512			
40.95	528 120.05	1376 194.90	2058 284.85	1601			
42.95	404 120.85	508 196.00	21904 286.00	204			
43.95	1167 121.95	6654 197.90	757184 290.80	233			
45.85	216 122.90	9815 198.90	44504 291.90	238			
46.85	172 123.90	3570 200.00	2719 292.90	1989			
48.05	194 124.90	3848 201.50	3754 294.00	397			
48.95	692 126.90	391680 203.00	3855 295.00	337			
49.95	79352 128.00	28952 204.00	18072 295.90	29960			
50.95	310080 128.90	159936 204.95	28920 296.90	3919			
51.95	14785 129.90	13254 205.95	127040 298.00	526			
52.95	1271 130.90	2440 206.95	17776 300.70	370			
53.95	192 132.00	1220 207.95	4645 301.90	267			
54.95	1831 132.90	1014 208.85	1271 302.95	3729			
55.95	9349 134.00	4208 210.15	1701 303.95	907			
56.95	22336 135.00	14305 211.55	5025 307.65	186			
57.90	795 136.00	4938 214.95	1251 307.85	250			
59.00	312 137.00	6129 216.05	2874 310.05	288			
60.00	809 137.80	1247 216.95	24352 312.95	188			
60.90	3809 138.95	1076 217.95	2917 313.95	1522			
62.00	4922 139.85	2374 219.05	364 314.95	3544			
63.00	10109 140.95	23680 221.00	35504 315.85	1862			
63.90	1736 141.95	8306 221.90	842 316.95	191			
65.00	5184 142.95	5735 223.00	6143 321.00	1226			
66.00	925 143.95	1699 224.00	52168 321.90	561			
66.80	274 144.95	2084 224.90	11503 323.00	11692			
68.90	347264 145.95	6167 226.10	1028 323.90	2209			
70.00	1252 146.95	13569 226.90	19984 326.80	1620			
70.90	165 147.95	24624 227.90	2809 327.90	887			
71.90	170 148.95	4717 228.90	4079 332.00	917			
73.10	2453 149.95	1460 229.90	894 332.90	929			

Date : 25-NOV-96 21:37

Client ID: DFTPPR02

Instrument: R.i

Sample Info: 50 ng DFTPPR02

Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

Data File: RHX002PS.d

Spectrum: Avg. Scans 522-524 < 8.47>, Background Scan 516

Location of Maximum: 197.90

Number of points: 292

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.95	29560 151.55	4736 230.90	1711 334.00	7421			
74.95	45792 152.05	704 232.80	323 334.95	1666			
76.05	16808 152.95	9412 233.90	1175 341.05	1404			
76.95	342848 153.85	6253 235.00	1870 341.85	180			
78.05	24480 155.05	14389 236.00	1083 345.95	1993			
78.95	19232 155.90	22912 236.90	1634 346.95	308			
79.95	15558 156.90	4977 238.95	761 351.90	3627			
80.95	19368 157.90	5425 239.85	895 352.90	2688			
81.95	5525 158.90	4205 240.95	1783 353.90	3728			
82.95	5233 160.00	8073 241.95	3020 354.90	1160			
84.05	618 160.90	13895 243.05	4715 358.80	172			
84.95	4890 161.90	2949 243.95	55272 364.90	14657			
85.95	7092 162.90	1650 244.95	9127 365.90	1725			
86.95	3076 164.00	1695 245.95	7763 369.95	175			
88.05	1387 164.90	8781 246.95	1340 370.95	598			
88.95	702 166.00	7619 247.95	404 371.95	6419			
90.90	5443 166.90	50232 248.95	1571 372.85	1800			
91.90	6763 168.00	24896 249.95	562 382.95	1534			
92.90	34648 169.00	4179 250.95	380 383.75	215			
93.90	2245 170.10	2125 251.95	811 389.90	750			
95.00	1266 171.00	2308 253.05	3007 390.90	328			
95.90	1651 171.85	4100 254.90	256064 391.90	365			
96.90	174 172.85	5008 255.90	32184 400.85	361			
97.90	23240 173.95	9684 257.00	3217 401.85	2296			
98.90	18168 174.95	17672 257.90	12304 402.95	3870			
100.10	1646 175.95	5266 258.90	1881 403.95	862			
100.90	12101 176.95	7485 263.10	187 420.80	2900			
102.10	848 177.95	2743 264.00	228 422.00	2307			
103.00	5526 178.85	32056 265.00	4110 422.90	19096			
103.90	7358 179.95	23240 266.00	1208 423.90	4381			
105.00	6726 180.95	9346 266.80	185 440.95	59360			
106.10	2860 181.95	1707 269.85	245 441.95	380160			
106.95	83352 182.95	1239 270.95	809 442.95	70488			
107.95	12784 183.95	2263 271.85	743 443.95	7011			
109.95	236352 184.95	14160 272.95	8531 444.95	290			

090006

Date : 25-NOV-96 21:37

Client ID: DFTPPR02

Instrument: R.i

Sample Info: 50 ng DFTPPR02

Volume Injected (uL): 2.0

Operator: PES

Column phase: RTX-5

Column diameter: 0.25

Data File: RHX002PS.d

Spectrum: Avg. Scans 522-524 (8.47), Background Scan 516

Location of Maximum: 197.90

Number of points: 292

m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.95	31208	185.95	105416	273.95	20712		
111.95	3728	186.95	28536	274.95	125216		
113.05	1398	187.90	3377	275.95	16296		
114.65	529	188.90	6422	276.95	8643		

1B
SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKT5

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Matrix: (soil/water) SOIL Lab Sample ID: SBLKT5

Sample wt/vol: 2.0 (g/mL) G Lab File ID: RB1118T5S

Level: (low/med) MED Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/25/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
---------	----------	-----------------	-------	---

108-95-2-----	Phenol	10000	U
111-44-4-----	bis(2-Chloroethyl) Ether	10000	U
95-57-8-----	2-Chlorophenol	10000	U
541-73-1-----	1,3-Dichlorobenzene	10000	U
106-46-7-----	1,4-Dichlorobenzene	10000	U
95-50-1-----	1,2-Dichlorobenzene	10000	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10000	U
95-48-7-----	2-Methylphenol	10000	U
621-64-7-----	N-Nitroso-di-n-propylamine	10000	U
67-72-1-----	Hexachloroethane	10000	U
106-44-5-----	4-Methylphenol	10000	U
98-95-3-----	Nitrobenzene	10000	U
78-59-1-----	Isophorone	10000	U
88-75-5-----	2-Nitrophenol	10000	U
105-67-9-----	2,4-Dimethylphenol	10000	U
111-91-1-----	bis(2-Chloroethoxy)methane	10000	U
120-83-2-----	2,4-Dichlorophenol	10000	U
120-82-1-----	1,2,4-Trichlorobenzene	10000	U
91-20-3-----	Naphthalene	10000	U
106-47-8-----	4-Chloroaniline	10000	U
87-68-3-----	Hexachlorobutadiene	10000	U
59-50-7-----	4-Chloro-3-Methylphenol	10000	U
91-57-6-----	2-Methylnaphthalene	10000	U
77-47-4-----	Hexachlorocyclopentadiene	10000	U
88-06-2-----	2,4,6-Trichlorophenol	10000	U
95-95-4-----	2,4,5-Trichlorophenol	25000	U
91-58-7-----	2-Chloronaphthalene	10000	U
88-74-4-----	2-Nitroaniline	25000	U
131-11-3-----	Dimethylphthalate	10000	U
208-96-8-----	Acenaphthylene	10000	U
606-20-2-----	2,6-Dinitrotoluene	10000	U
83-32-9-----	Acenaphthene	10000	U
99-09-2-----	3-Nitroaniline	25000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKT5

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVVT Case No.: 95212 SAS No.: SDG No.: 62586

Matrix: (soil/water) SOIL Lab Sample ID: SBLKT5

Sample wt/vol: 2.0 (g/mL) G Lab File ID: RB1118T5S

Level: (low/med) MED Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/25/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol_____	25000	U
132-64-9-----	Dibenzofuran_____	10000	U
121-14-2-----	2,4-Dinitrotoluene_____	10000	U
100-02-7-----	4-Nitrophenol_____	25000	U
84-66-2-----	Diethylphthalate_____	10000	U
86-73-7-----	Fluorene_____	10000	U
7005-72-3-----	4-Chlorophenyl-phenylether_____	10000	U
100-01-6-----	4-Nitroaniline_____	25000	U
86-30-6-----	N-nitrosodiphenylamine (1)_____	10000	U
534-52-1-----	4,6-Dinitro-2-methylphenol_____	25000	U
101-55-3-----	4-Bromophenyl-phenylether_____	10000	U
118-74-1-----	Hexachlorobenzene_____	10000	U
87-86-5-----	Pentachlorophenol_____	25000	U
85-01-8-----	Phenanthrene_____	10000	U
120-12-7-----	Anthracene_____	10000	U
86-74-8-----	Carbazole_____	10000	U
84-74-2-----	Di-n-butylphthalate_____	10000	U
206-44-0-----	Fluoranthene_____	10000	U
129-00-0-----	Pyrene_____	10000	U
85-68-7-----	Butylbenzylphthalate_____	10000	U
56-55-3-----	Benzo(a)anthracene_____	10000	U
91-94-1-----	3,3'-Dichlorobenzidine_____	10000	U
218-01-9-----	Chrysene_____	10000	U
117-81-7-----	bis(2-Ethylhexyl)phthalate_____	10000	U
117-84-0-----	Di-n-octylphthalate_____	10000	U
205-99-2-----	Benzo(b)fluoranthene_____	10000	U
207-08-9-----	Benzo(k)fluoranthene_____	10000	U
50-32-8-----	Benzo(a)pyrene_____	10000	U
193-39-5-----	Indeno(1,2,3-cd)pyrene_____	10000	U
53-70-3-----	Dibenz(a,h)anthracene_____	10000	U
191-24-2-----	Benzo(g,h,i)perylene_____	10000	U

(1) - Cannot be separated from Diphenylamine

090609

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKT5

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVVT Case No.: 95212 SAS No.: SDG No.: 62586

Matrix: (soil/water) SOIL Lab Sample ID: SBLKT5

Sample wt/vol: 2.0 (g/mL) G Lab File ID: RB1118T5S

Level: (low/med) MED Date Received: _____

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 11/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/25/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	6.60	12000	NJA
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
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21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Data File: /chem/R.i/R1.p/RHXA_8270.b/RB1118T5S.d
Date : 25-Nov-96 22:37:13
Client ID: SBLKT5

Page 4

Sample Info: BLANK SH0#SBLKT5 EIRR#62586
Volume Injected (uL): 2.0
Column phase: RTX-5

Instrument: R.i
Operator: BES
Column diameter: 0.25

Y (x10⁶)

6.8
6.6
6.4
6.2
6.0
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2

-2-Fluorophenol (7.085)

-Phenol-d5 (8.434)

-1,4-Dichlorobenzene-d4 (8.917) 2-Chlorophenol-d4 (8.631)

1,2-Dichlorobenzene-d4 (9.213)

-Nitrobenzene-d5 (9.833)

-Naphthalene-d8 (10.966)

2-Fluorobiphenyl (12.796)

-Acenaphthene-d10 (13.939)

-2,4,6-Tribromophenol (15.298)

-Phenanthrene-d10 (16.430)

-Terphenyl-d14 (19.176)

-Chrysene-d12 (20.969)

-Perylene-d12 (23.300)

/chem/R.i/R1.p/RHXA_8270.b/RB1118T5S.d

Inchcape Environmental

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem/R.i/R1.p/RHXA_8270.b/RB1118T5S.d
Lab Smp Id: SBLKT5 Client Smp ID: SBLKT5
Inj Date : 25-NOV-96 22:37:13
Operator : BES Inst ID: R.i
Smp Info : BLANK SMO#SBLKT5 ETR#62586
Misc Info : 100% ANALYSIS
Comment :
Method : /chem/R.i/R1.p/RHXA_8270.b/SV_8270v6RTE.m
Meth Date : 27-Nov-96 18:50:33 Je Quant Type: ISTD
Cal Date : 25-NOV-96 21:53:00 Cal File: RHX050ABS.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLM.sub
Target Version: 3.30
Procesing Host: chemsvr4

Concentration Formula: Uf * Vt / (Vi * Ws * (100-M) / 100) * GPC

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.000	% Moisture
GPC	2.000	GPC Factor

Compounds	MASS	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	(ng)	(ug/Kg)
\$ 3 2-Fluorophenol	112	7.085	7.057 (0.795)	3114636	140	71000	
\$ 5 Phenol-d5	99	8.434	8.425 (0.946)	3901915	130	65000	
6 Phenol	94.00	Compound Not Detected.					
7 bis(2-Chloroethyl)Ether	93.00	Compound Not Detected.					
\$ 8 2-Chlorophenol-d4	132	8.631	8.613 (0.968)	3494985	130	66000	
9 2-chlorophenol	128.00	Compound Not Detected.					
10 1,3-Dichlorobenzene	146.00	Compound Not Detected.					
* 11 1,4-Dichlorobenzene-d4	152	8.917	8.909 (1.000)	1126932	40		
12 1,4-Dichlorobenzene	146.00	Compound Not Detected.					
\$ 13 1,2-Dichlorobenzene-d4	152	9.213	9.205 (1.033)	2605006	100	52000	
14 1,2-Dichlorobenzene	146.00	Compound Not Detected.					
16 2,2'-oxybis(1-Chloropropane)	45.00	Compound Not Detected.					
17 2-Methylphenol	108.00	Compound Not Detected.					

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng) FINAL (ug/Kg)
18 N-Nitroso-di-n-propylamine	70.00					Compound Not Detected.	
19 Hexachloroethane	117.00					Compound Not Detected.	
20 4-Methylphenol	108.00					Compound Not Detected.	
\$ 21 Nitrobenzene-d5	82	9.833	9.827 (0.897)	2309962		95	48000
22 Nitrobenzene	77.00					Compound Not Detected.	
23 Isophorone	82.00					Compound Not Detected.	
24 2-Nitrophenol	139.00					Compound Not Detected.	
25 2,4-Dimethylphenol	107.00					Compound Not Detected.	
26 bis(2-Chloroethoxy)methane	93.00					Compound Not Detected.	
27 2,4-Dichlorophenol	162.00					Compound Not Detected.	
28 1,2,4-Trichlorobenzene	180.00					Compound Not Detected.	
* 30 Naphthalene-d8	136	10.966	10.953 (1.000)	2662483		40	
31 Naphthalene	128.00					Compound Not Detected.	
32 4-Chloroaniline	127.00					Compound Not Detected.	
33 Hexachlorobutadiene	225.00					Compound Not Detected.	
34 4-Chloro-3-Methylphenol	107.00					Compound Not Detected.	
35 2-Methylnaphthalene	142.00					Compound Not Detected.	
36 Hexachlorocyclopentadiene	237.00					Compound Not Detected.	
37 2,4,6-Trichlorophenol	196.00					Compound Not Detected.	
38 2,4,5-Trichlorophenol	196.00					Compound Not Detected.	
\$ 39 2-Fluorobiphenyl	172	12.796	12.789 (0.918)	4892926		88	44000
40 2-Chloronaphthalene	162.00					Compound Not Detected.	
41 2-Nitroaniline	65.00					Compound Not Detected.	
42 Dimethylphthalate	163.00					Compound Not Detected.	
43 Acenaphthylene	152.00					Compound Not Detected.	
44 2,6-Dinitrotoluene	165.00					Compound Not Detected.	
* 45 Acenaphthene-d10	164	13.939	13.934 (1.000)	1818048		40	
46 Acenaphthene	153.00					Compound Not Detected.	
47 3-Nitroaniline	138.00					Compound Not Detected.	
48 2,4-Dinitrophenol	184.00					Compound Not Detected.	
49 Dibenzofuran	168.00					Compound Not Detected.	
50 2,4-Dinitrotoluene	165.00					Compound Not Detected.	
51 4-Nitrophenol	109.00					Compound Not Detected.	
52 Diethylphthalate	149.00					Compound Not Detected.	
53 Fluorene	166.00					Compound Not Detected.	
54 4-Chlorophenyl-phenylether	204.00					Compound Not Detected.	
55 4-Nitroaniline	138.00					Compound Not Detected.	
56 N-nitrosodiphenylamine	169.00					Compound Not Detected.	
57 4,6-Dinitro-2-methylphenol	198.00					Compound Not Detected.	
\$ 59 2,4,6-Tribromophenol	330	15.298	15.299 (1.097)	644510		130	64000
60 4-Bromophenyl-phenylether	248.00					Compound Not Detected.	
61 Hexachlorobenzene	283.81					Compound Not Detected.	
62 Pentachlorophenol	266.00					Compound Not Detected.	
* 63 Phenanthrene-d10	188	16.430	16.434 (1.000)	1550772		40	
64 Phenanthrene	178.00					Compound Not Detected.	
65 Anthracene	178.00					Compound Not Detected.	
66 Carbazole	167.00					Compound Not Detected.	

006303

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)
67 Di-n-butylphthalate	149.00		Compound Not Detected.				
68 Fluoranthene	202.00		Compound Not Detected.				
70 Pyrene	202.00		Compound Not Detected.				
\$ 71 Terphenyl-d14	244	19.176	19.177	(0.914)	2050949	70	35000
72 Butylbenzylphthalate	149.00		Compound Not Detected.				
73 Benzo(a)anthracene	228.00		Compound Not Detected.				
74 3,3'-Dichlorobenzidine	252.00		Compound Not Detected.				
* 75 Chrysene-d12	240	20.969	20.972	(1.000)	1185634	40	
76 Chrysene	228.00		Compound Not Detected.				
77 bis(2-Ethylhexyl)phthalate	149.00		Compound Not Detected.				
78 Di-n-octylphthalate	149.00		Compound Not Detected.				
79 Benzo(b)fluoranthene	252.00		Compound Not Detected.				
80 Benzo(k)fluoranthene	252.00		Compound Not Detected.				
81 Benzo(a)pyrene	252.00		Compound Not Detected.				
* 82 Perylene-d12	264	23.300	23.298	(1.000)	1180361	40	
83 Indeno(1,2,3-cd)pyrene	276.00		Compound Not Detected.				
84 Dibenz(a,h)anthracene	278.00		Compound Not Detected.				
85 Benzo(g,h,i)perylene	276.00		Compound Not Detected.				

Date : 25-NOV-96 22:37:13

Client ID: SBLKT5

Instrument: R.i

Sample Info: BLANK SMO#SBLKT5 ETR#62586

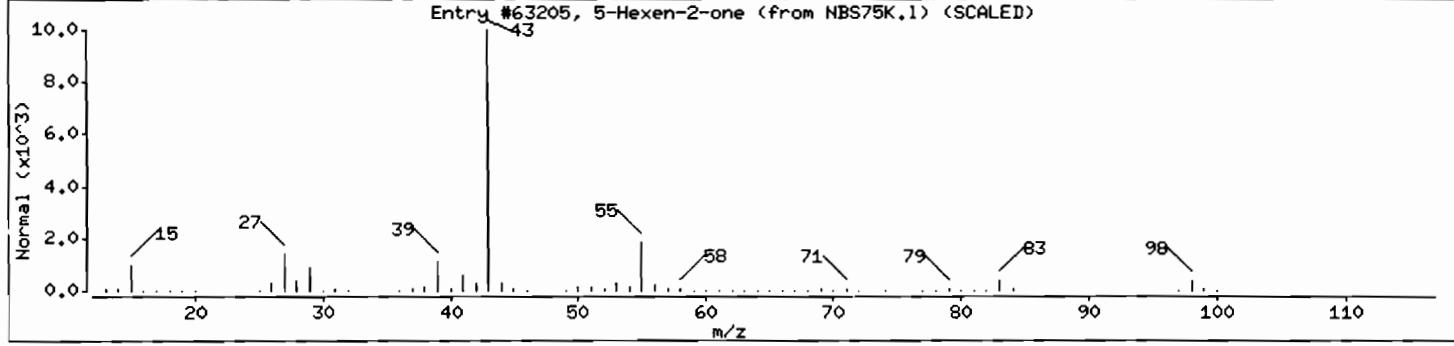
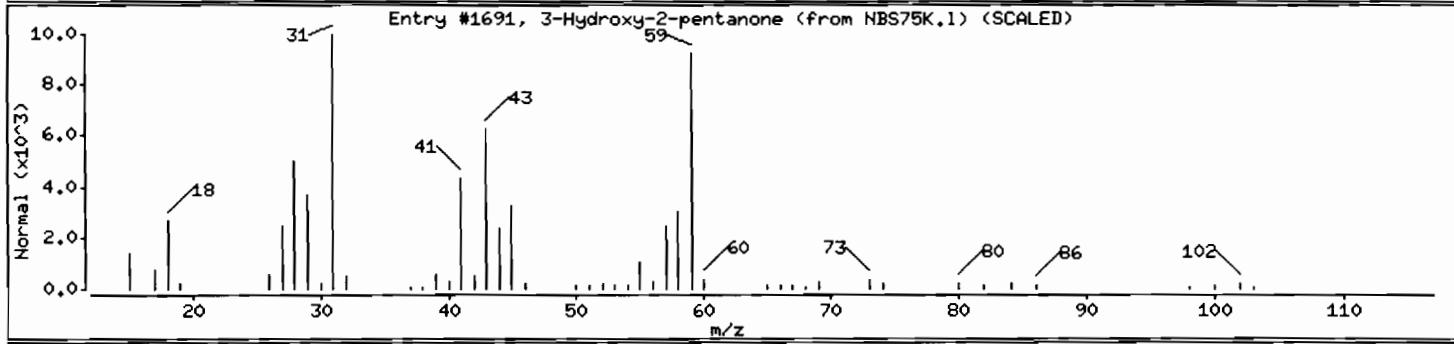
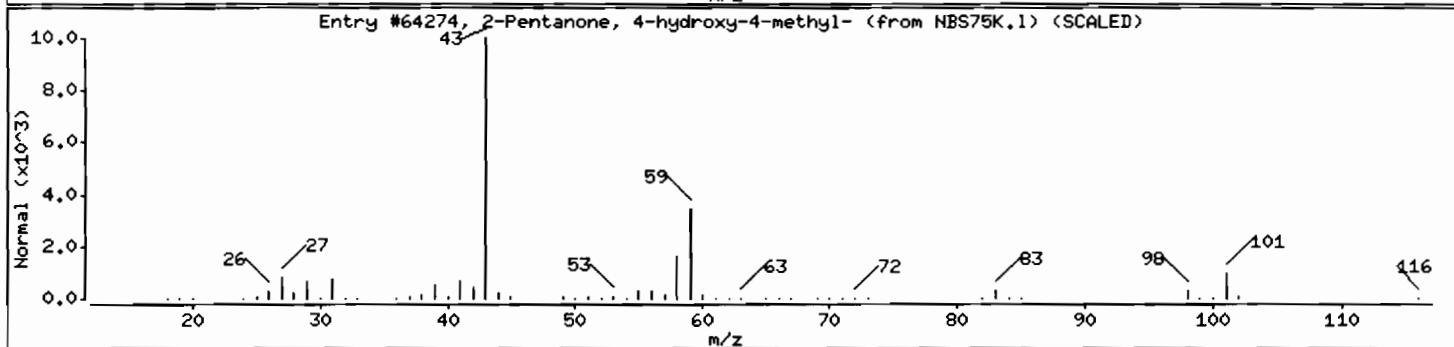
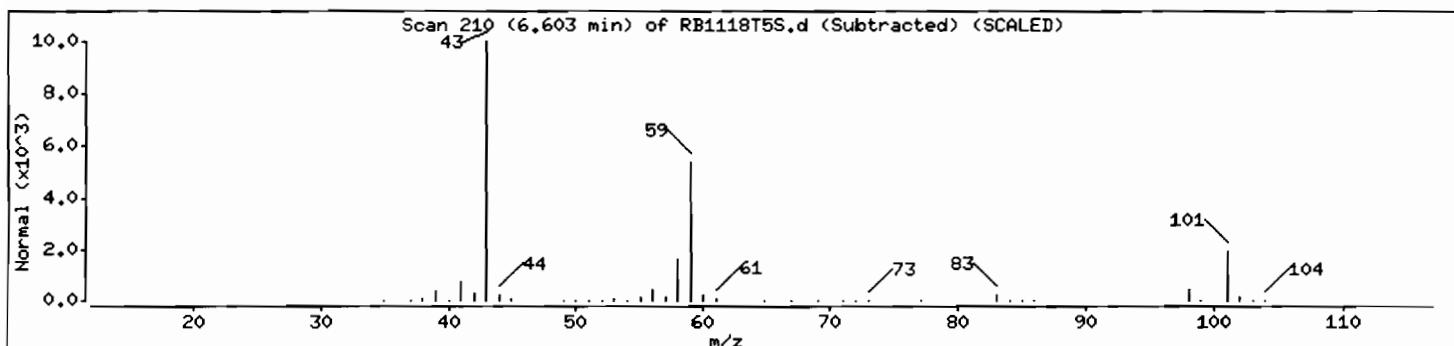
Volume Injected (uL): 2.0

Operator: BES

Column phase: RTX-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.1	64274	37	C6H12O2	116
3-Hydroxy-2-pentanone	3142-66-3	NBS75K.1	1691	23	C5H10O2	102
5-Hexen-2-one	109-49-9	NBS75K.1	63205	9	C6H10O	98



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBS

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 62586

Matrix: (soil/water) SOIL Lab Sample ID: 318890

Sample wt/vol: 2.0 (g/mL) G Lab File ID: R318890S

Level: (low/med) MED Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/25/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
---------	----------	-----------------	-------	---

108-95-2-----	Phenol	64000		
111-44-4-----	bis(2-Chloroethyl) Ether	10000	U	
95-57-8-----	2-Chlorophenol	71000		
541-73-1-----	1,3-Dichlorobenzene	10000	U	
106-46-7-----	1,4-Dichlorobenzene	42000		
95-50-1-----	1,2-Dichlorobenzene	10000	U	
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10000	U	
95-48-7-----	2-Methylphenol	10000	U	
621-64-7-----	N-Nitroso-di-n-propylamine	46000		
67-72-1-----	Hexachloroethane	10000	U	
106-44-5-----	4-Methylphenol	10000	U	
98-95-3-----	Nitrobenzene	10000	U	
78-59-1-----	Isophorone	10000	U	
88-75-5-----	2-Nitrophenol	10000	U	
105-67-9-----	2,4-Dimethylphenol	10000	U	
111-91-1-----	bis(2-Chloroethoxy)methane	10000	U	
120-83-2-----	2,4-Dichlorophenol	10000	U	
120-82-1-----	1,2,4-Trichlorobenzene	44000		
91-20-3-----	Naphthalene	10000	U	
106-47-8-----	4-Chloroaniline	10000	U	
87-68-3-----	Hexachlorobutadiene	10000	U	
59-50-7-----	4-Chloro-3-Methylphenol	64000		
91-57-6-----	2-Methylnaphthalene	10000	U	
77-47-4-----	Hexachlorocyclopentadiene	10000	U	
88-06-2-----	2,4,6-Trichlorophenol	10000	U	
95-95-4-----	2,4,5-Trichlorophenol	25000	U	
91-58-7-----	2-Chloronaphthalene	10000	U	
88-74-4-----	2-Nitroaniline	25000	U	
131-11-3-----	Dimethylphthalate	10000	U	
208-96-8-----	Acenaphthylene	10000	U	
606-20-2-----	2,6-Dinitrotoluene	10000	U	
83-32-9-----	Acenaphthene	41000		
99-09-2-----	3-Nitroaniline	25000	U	

1C
SEMITOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBS

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 95212

Lab Code: INCHVVT Case No.: 95212 SAS No.: SDG No.: 62586

Matrix: (soil/water) SOIL Lab Sample ID: 318890

Sample wt/vol: 2.0 (g/mL) G Lab File ID: R318890S

Level: (low/med) MED Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/18/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/25/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	25000	U	
132-64-9-----	Dibenzofuran	10000	U	
121-14-2-----	2,4-Dinitrotoluene	44000		
100-02-7-----	4-Nitrophenol	55000		
84-66-2-----	Diethylphthalate	10000	U	
86-73-7-----	Fluorene	10000	U	
7005-72-3-----	4-Chlorophenyl-phenylether	10000	U	
100-01-6-----	4-Nitroaniline	25000	U	
86-30-6-----	N-nitrosodiphenylamine (1)	10000	U	
534-52-1-----	4,6-Dinitro-2-methylphenol	25000	U	
101-55-3-----	4-Bromophenyl-phenylether	10000	U	
118-74-1-----	Hexachlorobenzene	10000	U	
87-86-5-----	Pentachlorophenol	70000		
85-01-8-----	Phenanthrene	10000	U	
120-12-7-----	Anthracene	10000	U	
86-74-8-----	Carbazole	10000	U	
84-74-2-----	Di-n-butylphthalate	10000	U	
206-44-0-----	Fluoranthene	10000	U	
129-00-0-----	Pyrene	52000		
85-68-7-----	Butylbenzylphthalate	10000	U	
56-55-3-----	Benzo(a)anthracene	10000	U	
91-94-1-----	3,3'-Dichlorobenzidine	10000	U	
218-01-9-----	Chrysene	10000	U	
117-81-7-----	bis(2-Ethylhexyl)phthalate	10000	U	
117-84-0-----	Di-n-octylphthalate	10000	U	
205-99-2-----	Benzo(b)fluoranthene	10000	U	
207-08-9-----	Benzo(k)fluoranthene	10000	U	
50-32-8-----	Benzo(a)pyrene	10000	U	
193-39-5-----	Indeno(1,2,3-cd)pyrene	10000	U	
53-70-3-----	Dibenz(a,h)anthracene	10000	U	
191-24-2-----	Benzo(g,h,i)perylene	10000	U	

(1) - Cannot be separated from Diphenylamine

Data File: /chem/R.i/R1.p/RHXA_8270.b/R318890S.d
Date : 25-NOV-96 23:05:00

Client ID: MBS

Sample Info: L#718890 CLINHSB ETR#62586

Volume Injected (uL): 2.0

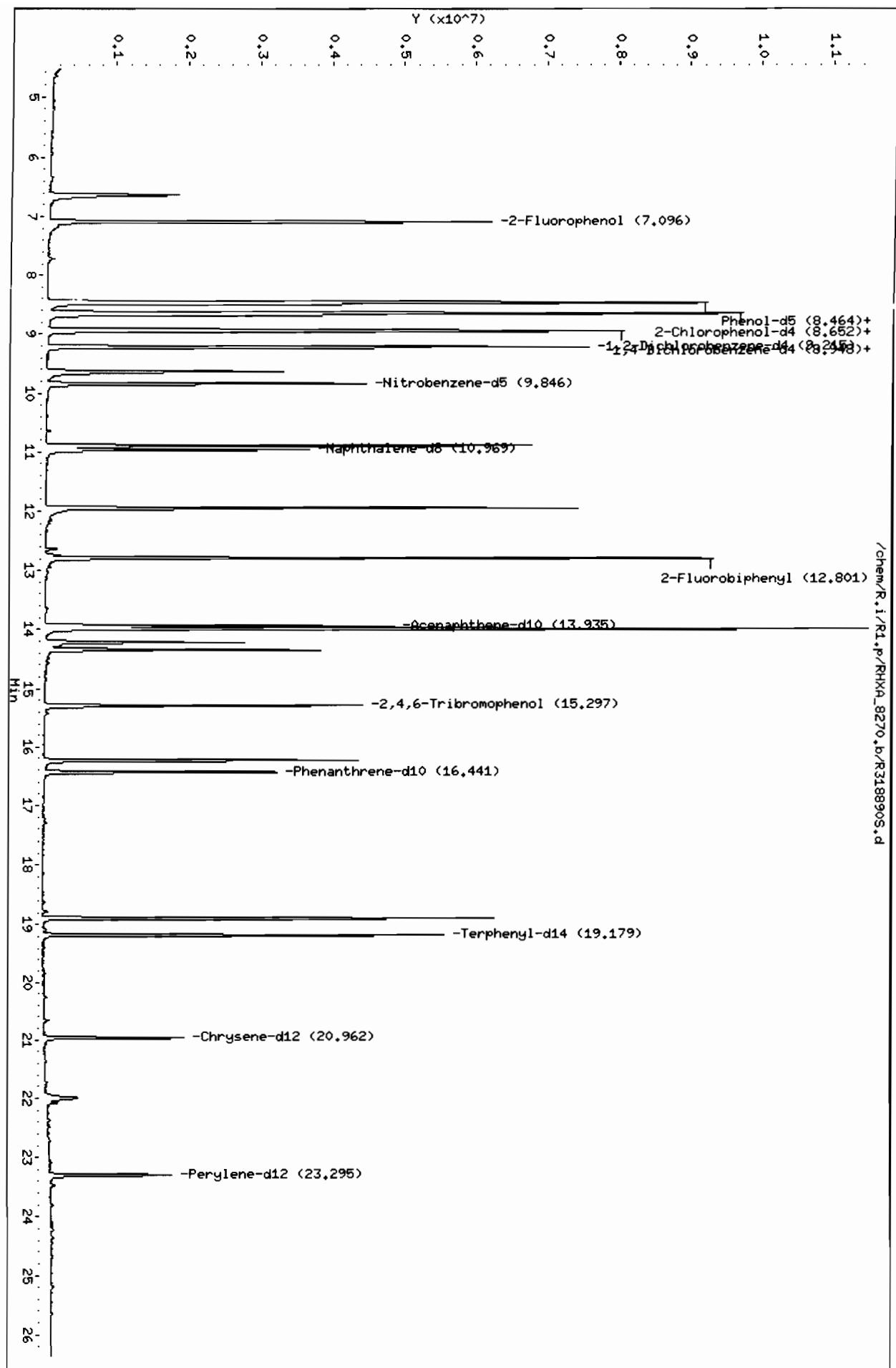
Column phase: RIX-5

Instrument: R.i

Operator: BES

Column diameter: 0.25

Page 4



000108

Inchcape Environmental

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem/R.i/R1.p/RHXA_8270.b/R318890S.d
Lab Smp Id: 318890 Client Smp ID: MBS
Inj Date : 25-NOV-96 23:05:00
Operator : BES Inst ID: R.i
Smp Info : L#318890 CLI#MSB ETR#62586
Misc Info : 100% ANALYSIS
Comment :
Method : /chem/R.i/R1.p/RHXA_8270.b/SV_8270v6RTE.m
Meth Date : 27-Nov-96 18:50:33 je Quant Type: ISTD
Cal Date : 25-NOV-96 21:53:00 Cal File: RHX050ABS.d
Als bottle: 2 QC Sample: BS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLM.sub
Target Version: 3.30
Procesing Host: chemsvr4

Concentration Formula: Uf * Vt/(Vi * Ws * (100-M)/100)*GPC

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.000	% Moisture
GPC	2.000	GPC Factor

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	(ng)
\$ 3 2-Fluorophenol	====	112	7.096	7.057 (0.795)	4127538	150	75000
\$ 5 Phenol-d5	=====	99	8.454	8.425 (0.947)	5410579	140	71000
6 Phenol	=====	94	8.474	8.445 (0.949)	5779890	130	64000(QR)
7 bis(2-Chloroethyl)Ether	93.00			Compound Not Detected.			
\$ 8 2-Chlorophenol-d4	=====	132	8.642	8.613 (0.968)	4911670	150	74000
9 2-Chlorophenol	=====	128	8.662	8.642 (0.970)	4572482	140	71000(R)
10 1,3-Dichlorobenzene	146.00			Compound Not Detected.			
* 11 1,4-Dichlorobenzene-d4	=====	152	8.928	8.909 (1.000)	1417038	40	
12 1,4-Dichlorobenzene	=====	146	8.948	8.929 (1.002)	4369286	85	42000(R)
\$ 13 1,2-Dichlorobenzene-d4	=====	152	9.215	9.205 (1.032)	3283305	100	52000
14 1,2-Dichlorobenzene	146.00			Compound Not Detected.			
16 2,2'-oxybis(1-Chloropropane)	45.00			Compound Not Detected.			
17 2-Methylphenol	108.00			Compound Not Detected.			

000105

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug/Kg)
18 N-Nitroso-di-n-propylamine	70	9.629	9.630 (1.078)	1831765			92	46000(R)
19 Hexachloroethane	117.00					Compound Not Detected.		
20 4-Methylphenol	108.00					Compound Not Detected.		
\$ 21 Nitrobenzene-d5	82	9.846	9.827 (0.898)	3119848			95	48000
22 Nitrobenzene	77.00					Compound Not Detected.		
23 Isophorone	82.00					Compound Not Detected.		
24 2-Nitrophenol	139.00					Compound Not Detected.		
25 2,4-Dimethylphenol	107.00					Compound Not Detected.		
26 bis(2-Chloroethoxy)methane	93.00					Compound Not Detected.		
27 2,4-Dichlorophenol	162.00					Compound Not Detected.		
28 1,2,4-Trichlorobenzene	180	10.899	10.894 (0.994)	2749640			88	44000(R)
* 30 Naphthalene-d8	136	10.969	10.953 (1.000)	3582261			40	
31 Naphthalene	128.00					Compound Not Detected.		
32 4-Chloroaniline	127.00					Compound Not Detected.		
33 Hexachlorobutadiene	225.00					Compound Not Detected.		
34 4-Chloro-3-Methylphenol	107	11.944	11.940 (1.089)	2864317			130	64000(R)
35 2-Methylnaphthalene	142.00					Compound Not Detected.		
36 Hexachlorocyclopentadiene	237.00					Compound Not Detected.		
37 2,4,6-Trichlorophenol	196.00					Compound Not Detected.		
38 2,4,5-Trichlorophenol	196.00					Compound Not Detected.		
\$ 39 2-Fluorobiphenyl	172	12.801	12.789 (0.919)	6427490			86	43000
40 2-Chloronaphthalene	162.00					Compound Not Detected.		
41 2-Nitroaniline	65.00					Compound Not Detected.		
42 Dimethylphthalate	163.00					Compound Not Detected.		
43 Acenaphthylene	152.00					Compound Not Detected.		
44 2,6-Dinitrotoluene	165.00					Compound Not Detected.		
* 45 Acenaphthene-d10	164	13.935	13.934 (1.000)	2431046			40	
46 Acenaphthene	153	13.994	13.984 (1.004)	5933082			82	41000(R)
47 3-Nitroaniline	138.00					Compound Not Detected.		
48 2,4-Dinitrophenol	184.00					Compound Not Detected.		
49 Dibenzofuran	168.00					Compound Not Detected.		
50 2,4-Dinitrotoluene	165	14.350	14.340 (1.030)	2315829			88	44000(R)
51 4-Nitrophenol	109	14.221	14.211 (1.021)	442165			110	55000(R)
52 Diethylphthalate	149.00					Compound Not Detected.		
53 Fluorene	166.00					Compound Not Detected.		
54 4-Chlorophenyl-phenylether	204.00					Compound Not Detected.		
55 4-Nitroaniline	138.00					Compound Not Detected.		
56 N-nitrosodiphenylamine	169.00					Compound Not Detected.		
57 4,6-Dinitro-2-methylphenol	198.00					Compound Not Detected.		
\$ 59 2,4,6-Tribromophenol	330	15.297	15.299 (1.098)	975856			140	72000
60 4-Bromophenyl-phenylether	248.00					Compound Not Detected.		
61 Hexachlorobenzene	283.81					Compound Not Detected.		
62 Pentachlorophenol	266	16.233	16.237 (0.987)	876176			140	70000(R)
* 63 Phenanthrene-d10	188	16.441	16.434 (1.000)	2279313			40	
64 Phenanthrene	178.00					Compound Not Detected.		
65 Anthracene	178.00					Compound Not Detected.		
66 Carbazole	167.00					Compound Not Detected.		

030110

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
							(ng)	(ug/Kg)
67 Di-n-butylphthalate		149.00				Compound Not Detected.		
68 Fluoranthene		202.00				Compound Not Detected.		
70 Pyrene		202	18.902	18.891 (0.902)		4464052	100	52000(R)
\$ 71 Terphenyl-d14		244	19.179	19.177 (0.915)		2604283	100	51000
72 Butylbenzylphthalate		149.00				Compound Not Detected.		
73 Benzo(a)anthracene		228.00				Compound Not Detected.		
74 3,3'-Dichlorobenzidine		252.00				Compound Not Detected.		
* 75 Chrysene-d12		240	20.962	20.972 (1.000)		1042250	40	
76 Chrysene		228.00				Compound Not Detected.		
77 bis(2-Ethylhexyl)phthalate		149.00				Compound Not Detected.		
78 Di-n-octylphthalate		149.00				Compound Not Detected.		
79 Benzo(b)fluoranthene		252.00				Compound Not Detected.		
80 Benzo(k)fluoranthene		252.00				Compound Not Detected.		
81 Benzo(a)pyrene		252.00				Compound Not Detected.		
* 82 Perylene-d12		264	23.305	23.298 (1.000)		1074800	40	
83 Indeno(1,2,3-cd)pyrene		276.00				Compound Not Detected.		
84 Dibenz(a,h)anthracene		278.00				Compound Not Detected.		
85 Benzo(g,h,i)perylene		276.00				Compound Not Detected.		

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 R - Spike/Surrogate failed recovery limits.

090111

Data File: /chem/R.i/R1.p/RHXA_8270.b/R318890S.d

Page 5

Date : 25-NOV-96 23:05:00

Client ID: MBS

Instrument: R.i

Sample Info: L#318890 CLI#MSB ETR#62586

Volume Injected (uL): 2.0

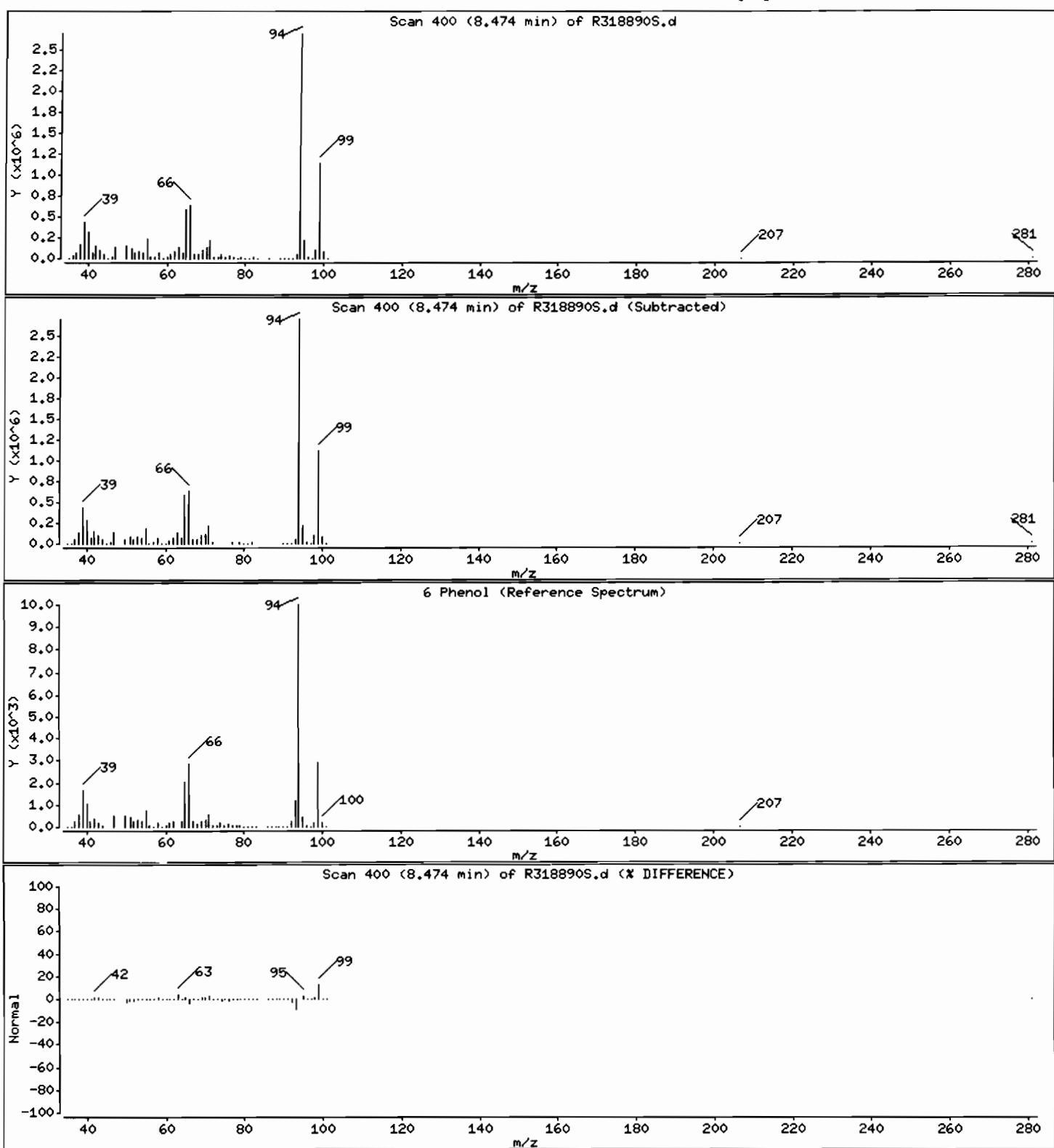
Operator: BES

Column phase: RTX-5

Column diameter: 0.25

6 Phenol

Concentration: 64000 ug/Kg



096412

Date : 25-NOV-96 23:05:00

Client ID: MBS

Instrument: R.i

Sample Info: L#318890 CLI#MSB ETR#62586

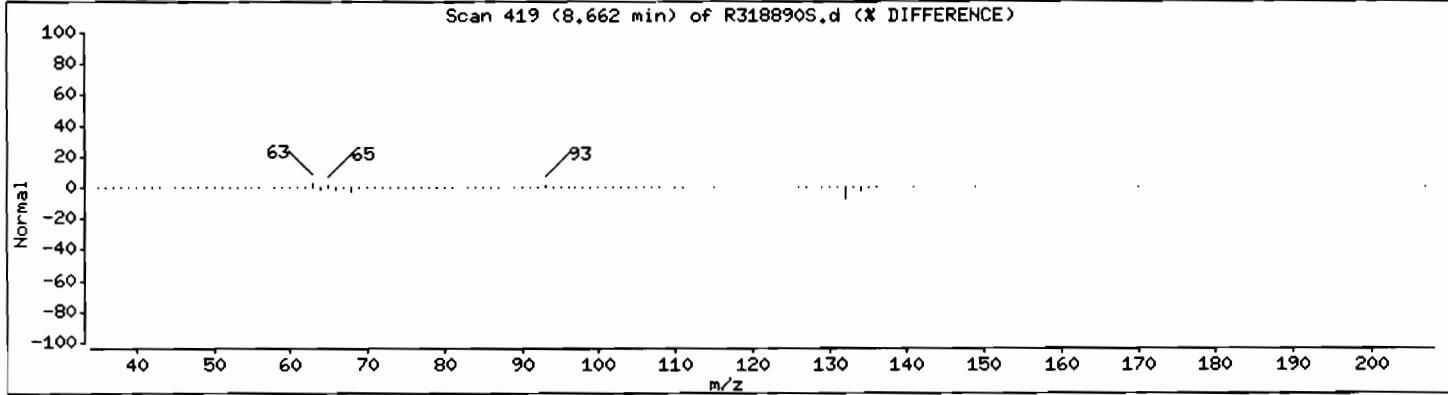
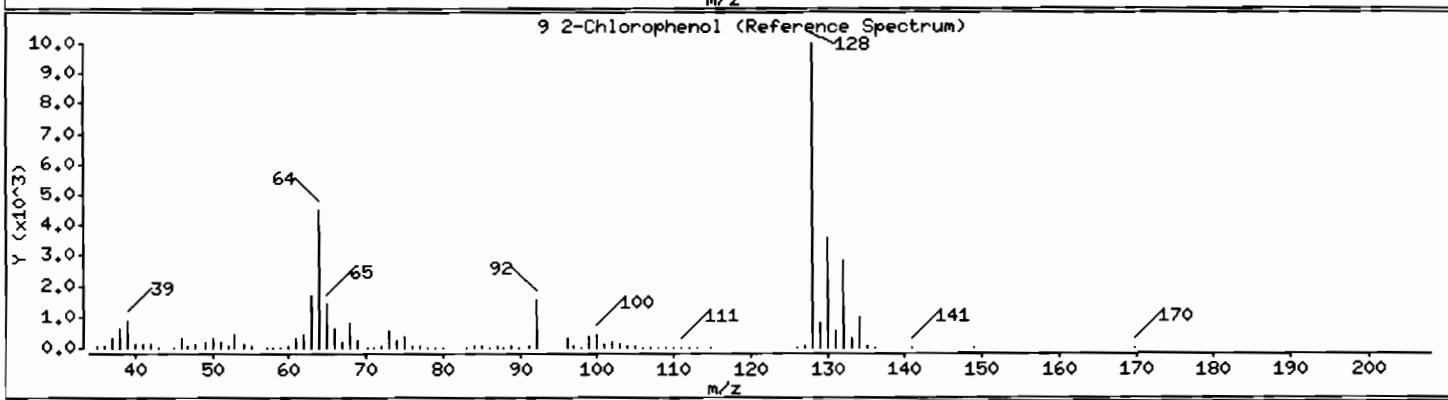
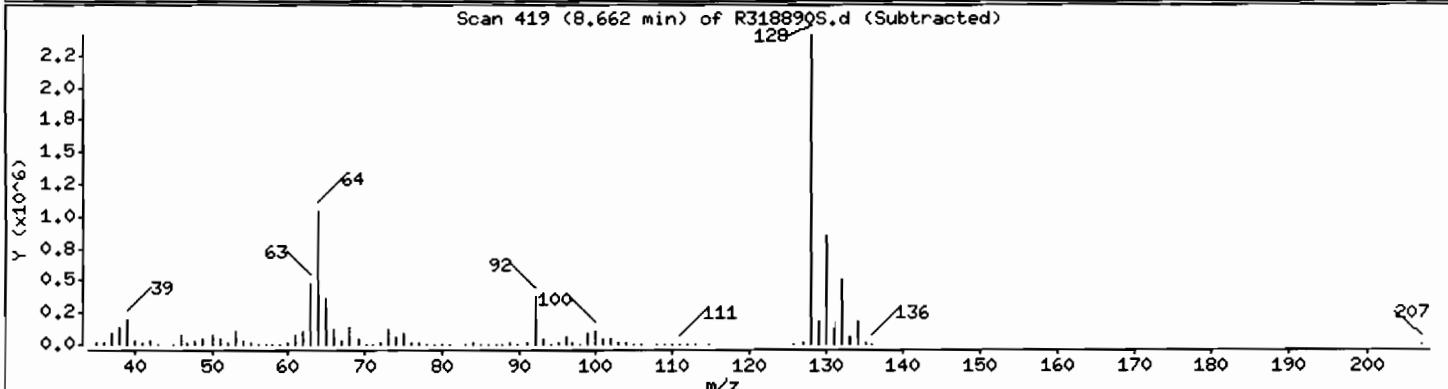
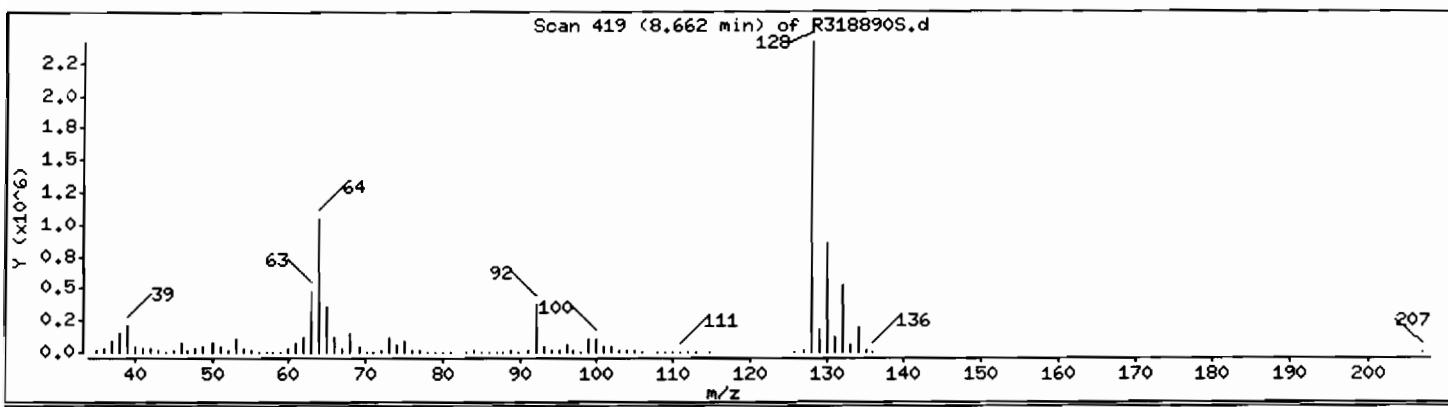
Volume Injected (μL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

9 2-Chlorophenol

Concentration: 71000 $\mu\text{g}/\text{Kg}$ 

Data File: /chem/R.i/R1.p/RHXA_8270.b/R318890S.d

Page 7

Date : 25-NOV-96 23:05:00

Client ID: MBS

Instrument: R.i

Sample Info: L#318890 CLI#MSB ETR#62586

Volume Injected (uL): 2.0

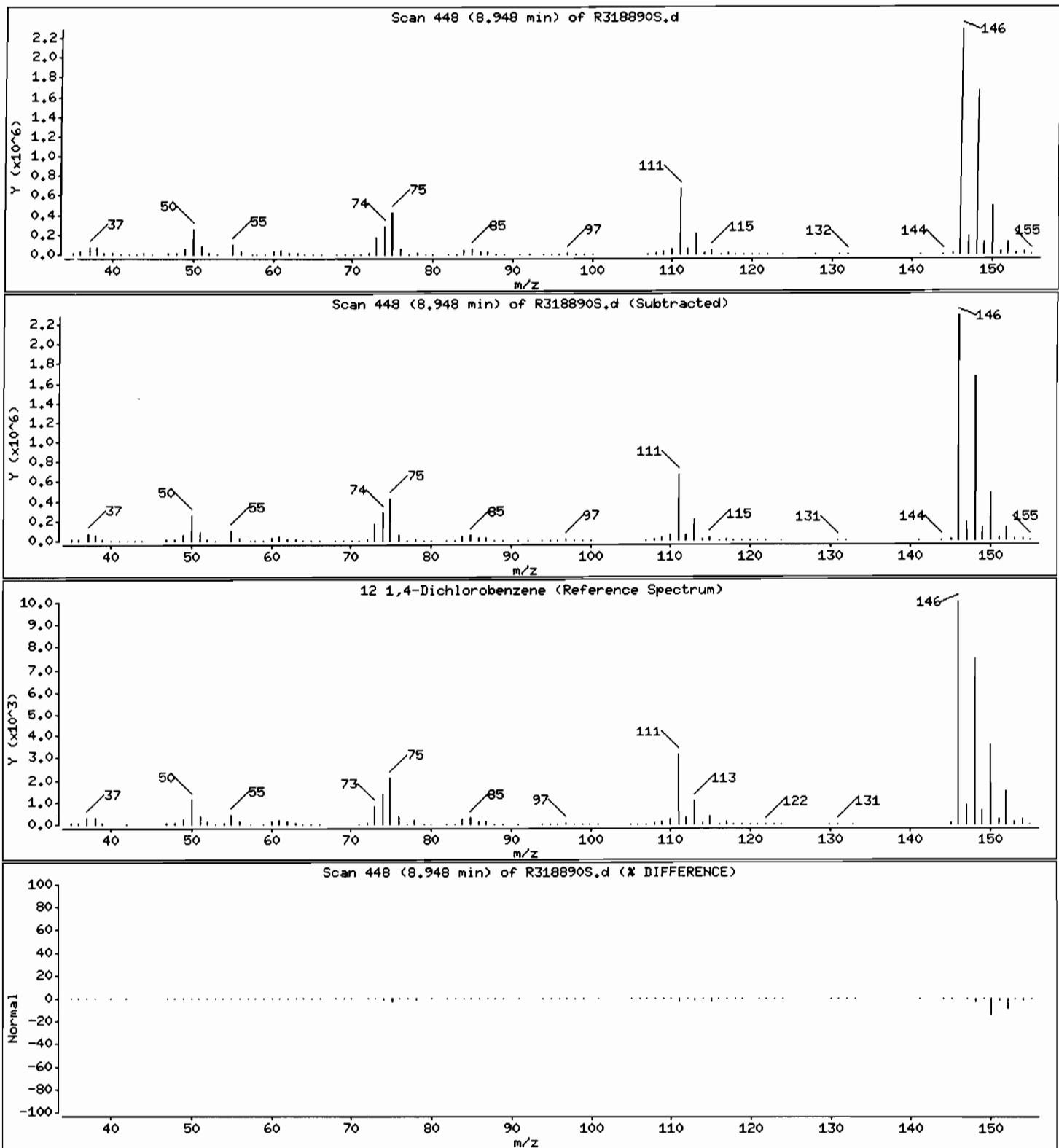
Operator: BES

Column phase: RTX-5

Column diameter: 0.25

12 1,4-Dichlorobenzene

Concentration: 42000 ug/Kg



090214

Date : 25-NOV-96 23:05:00

Client ID: MBS

Instrument: R.i

Sample Info: L#318890 CLI#MSB ETR#62586

Volume Injected (uL): 2.0

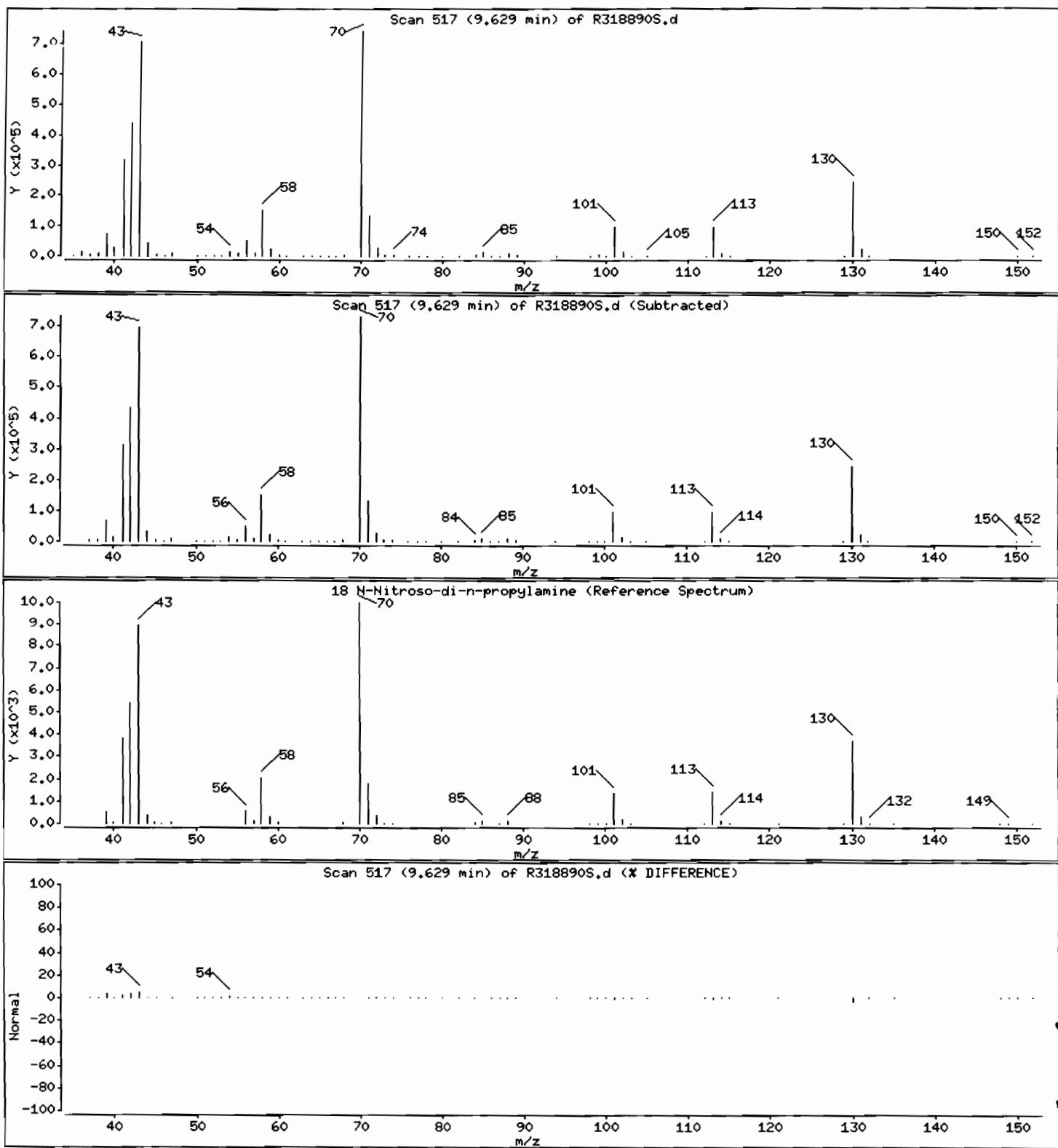
Operator: BES

Column phase: RTX-5

Column diameter: 0.25

18 N-Nitroso-di-n-propylamine

Concentration: 46000 ug/Kg



Data File: /chem/R.i/R1.p/RHXA_8270.b/R318890S.d

Page 9

Date : 25-NOV-96 23:05:00

Client ID: HBS

Instrument: R.i

Sample Info: L#318890 CLI#HSB ETR#62586

Volume Injected (uL): 2.0

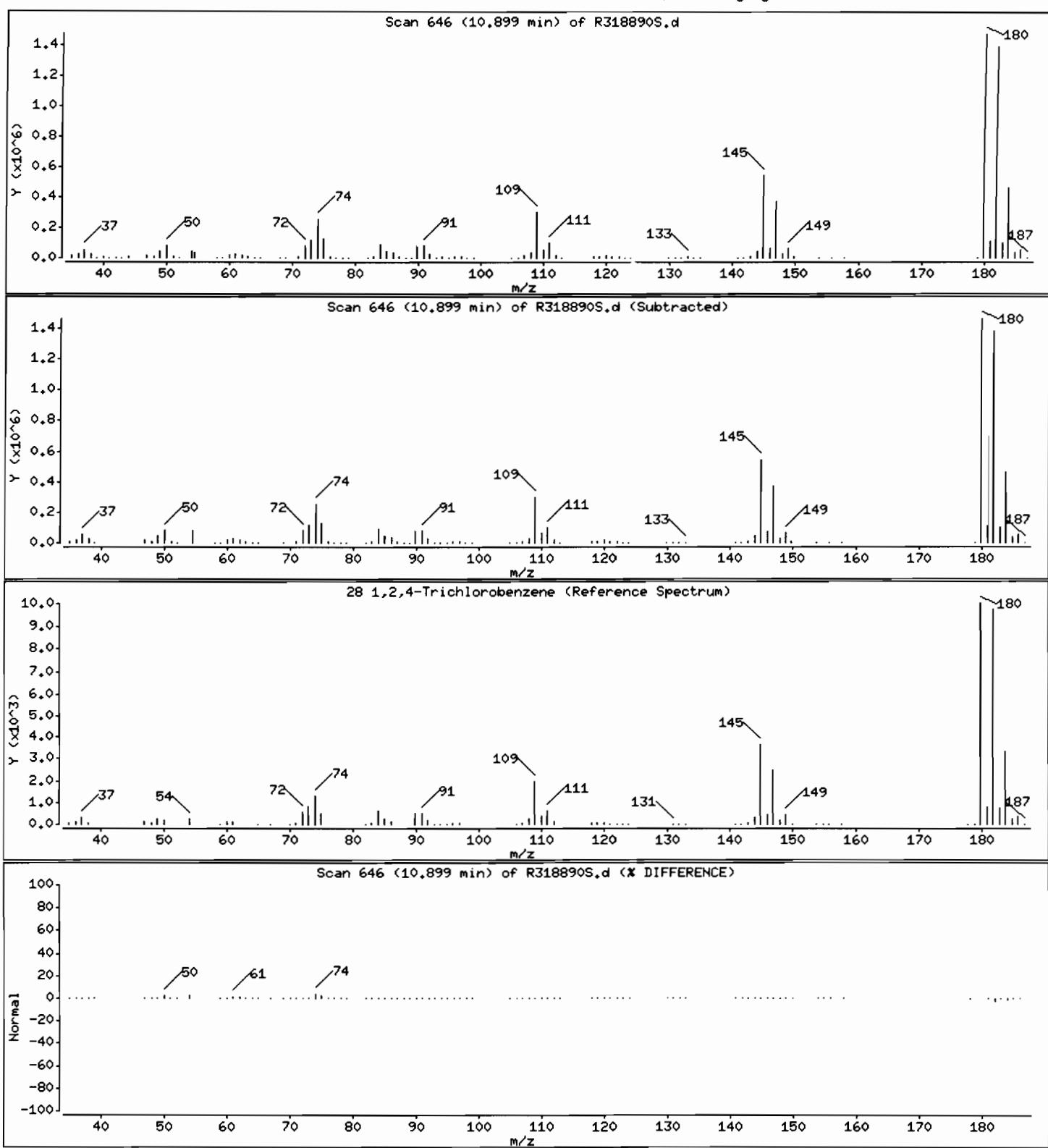
Operator: BES

Column phase: RTX-5

Column diameter: 0.25

28 1,2,4-Trichlorobenzene

Concentration: 44000 ug/Kg



Date : 25-NOV-96 23:05:00

Client ID: MBS

Instrument: R.i

Sample Info: L#318890 CLI#HSB ETR#62586

Volume Injected (uL): 2.0

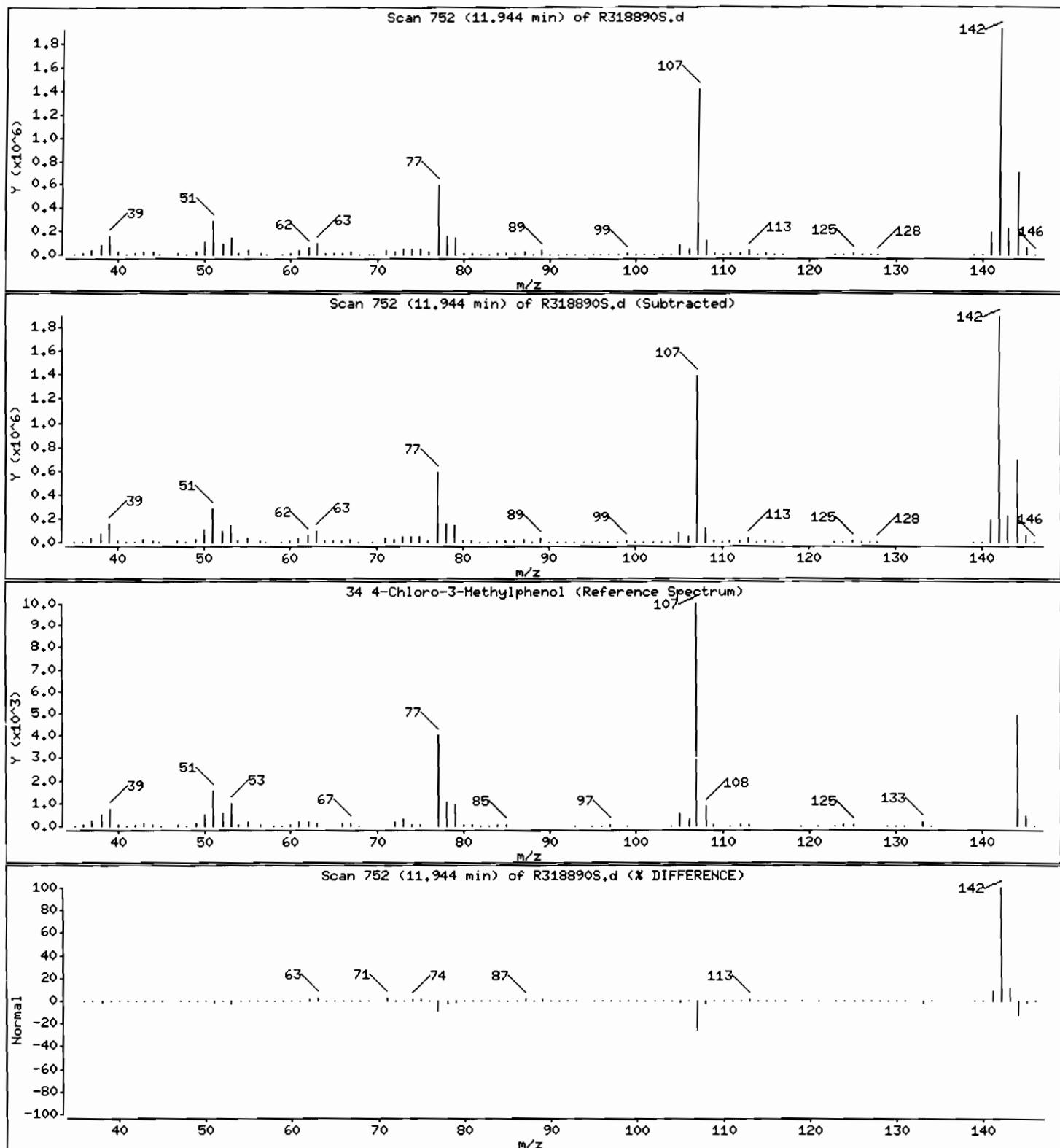
Operator: BES

Column phase: RTX-5

Column diameter: 0.25

34 4-Chloro-3-Methylphenol

Concentration: 64000 ug/Kg



090117

Date : 25-NOV-96 23:05:00

Client ID: MBS

Instrument: R.i

Sample Info: L#318890 CLI#MSB ETR#62586

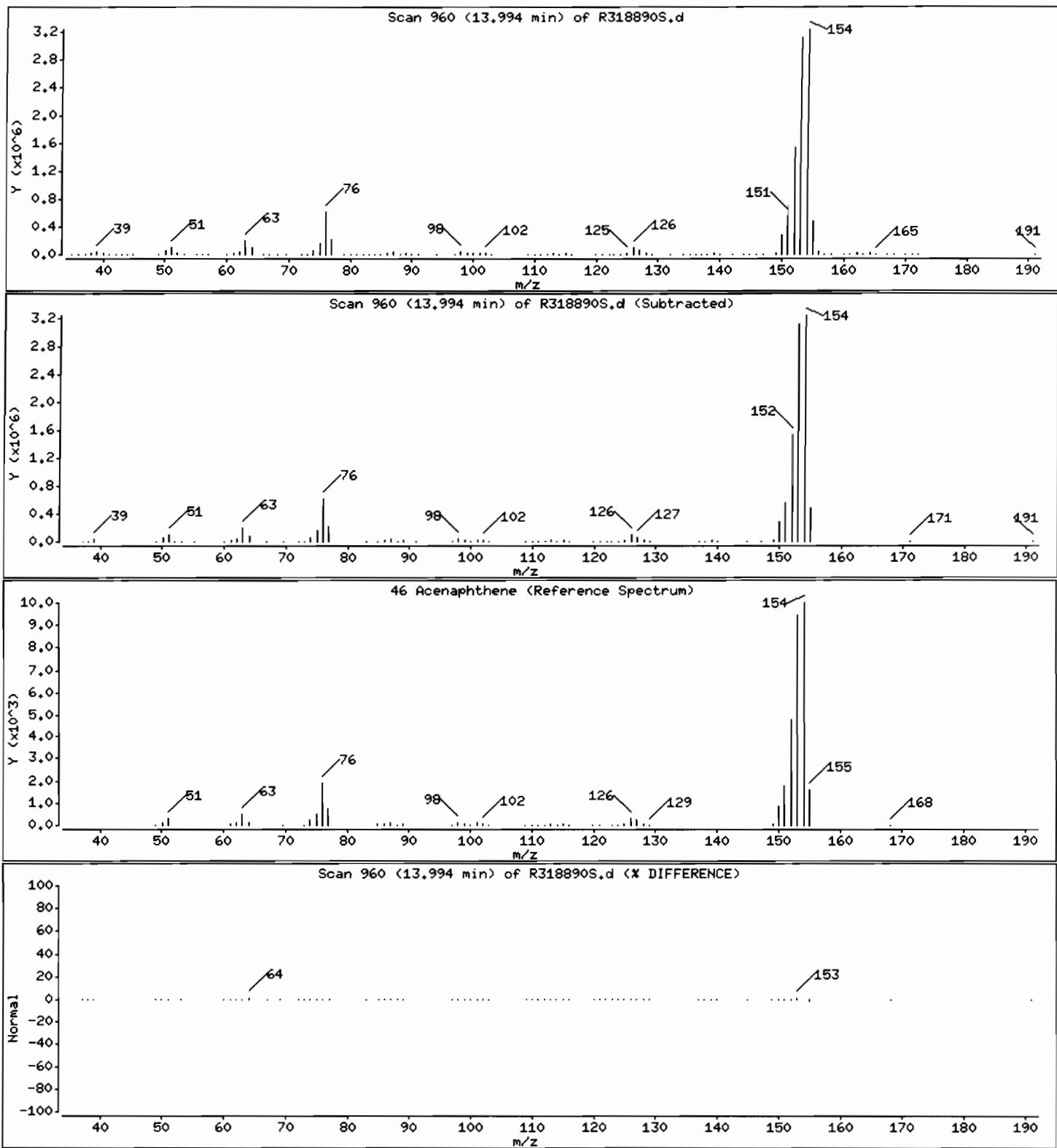
Volume Injected (μL): 2.0

Operator: BES

Column phase: RTX-5

Column diameter: 0.25

46 Acenaphthene

Concentration: 41000 $\mu\text{g}/\text{Kg}$ 

090218

Date : 25-NOV-96 23:05:00

Client ID: MBS

Instrument: R.i

Sample Info: L#318890 CLI#MSB ETR#62586

Volume Injected (uL): 2.0

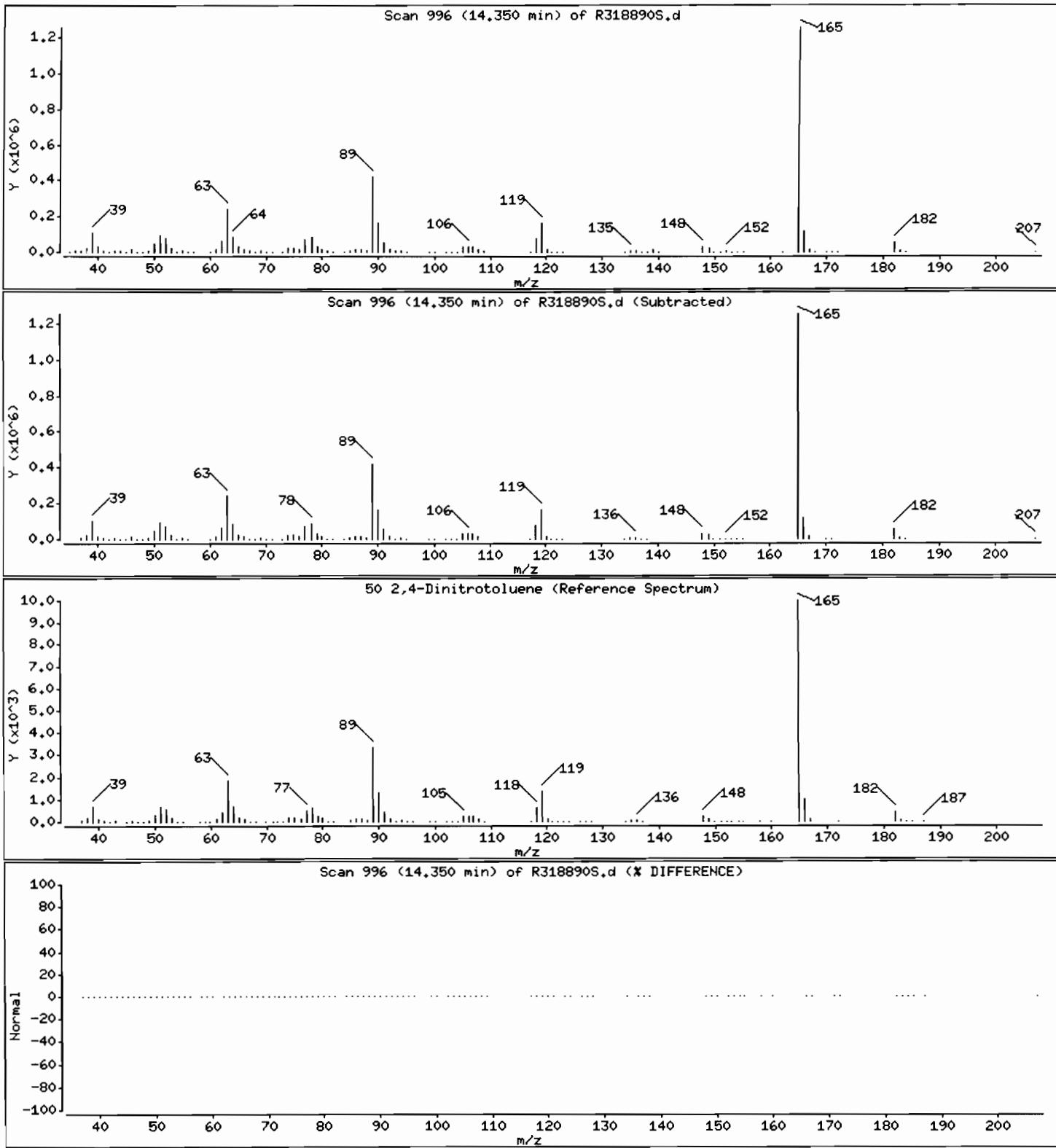
Operator: BES

Column phase: RTX-5

Column diameter: 0.25

50 2,4-Dinitrotoluene

Concentration: 44000 ug/Kg



Data File: /chem/R.i/R1.p/RHXA_8270.b/R318890S.d

Page 13

Date : 25-NOV-96 23:05:00

Client ID: MBS

Instrument: R.i

Sample Info: L#318890 CLI#MSB ETR#62586

Volume Injected (uL): 2.0

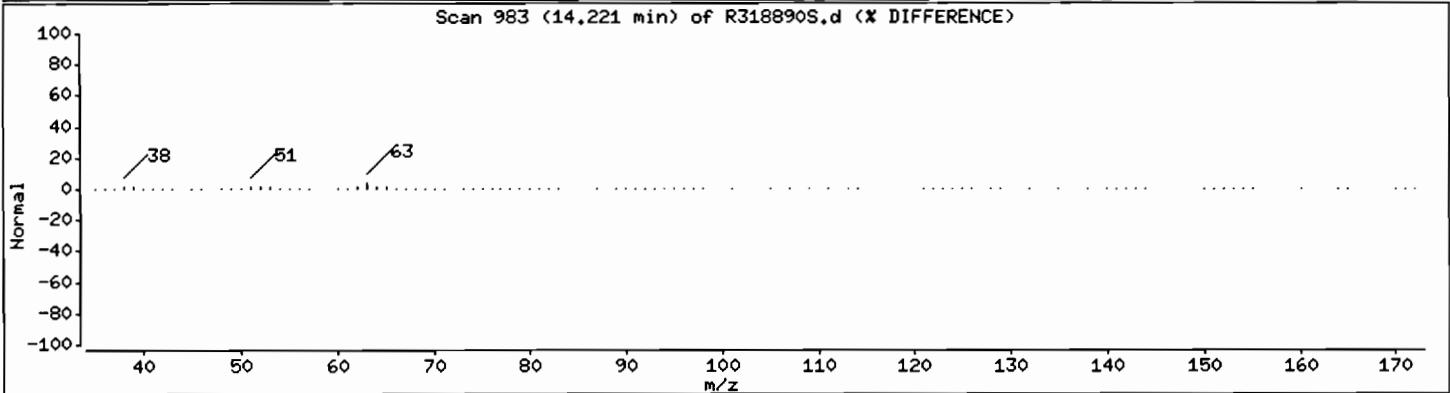
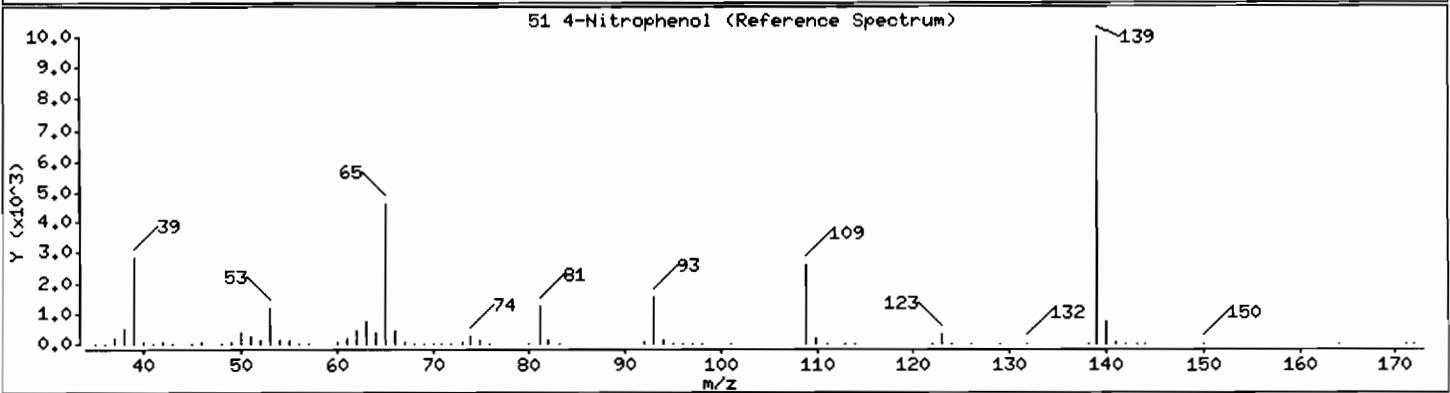
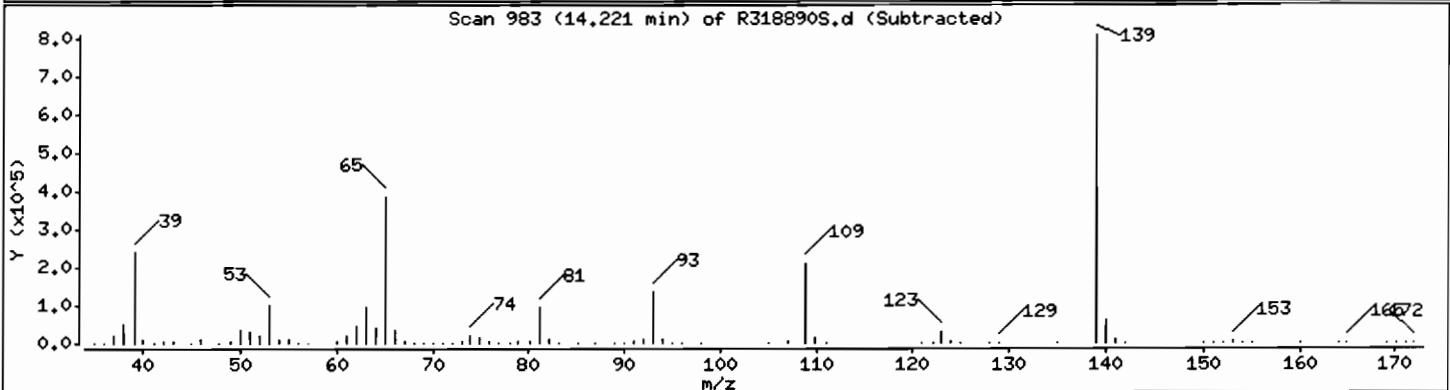
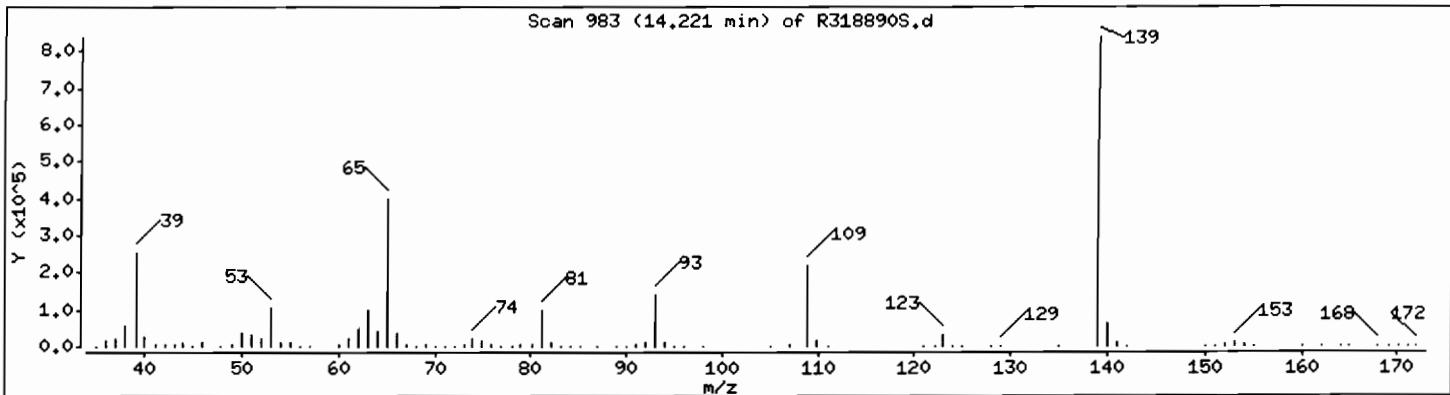
Operator: BES

Column phase: RTX-5

Column diameter: 0.25

51 4-Nitrophenol

Concentration: 55000 ug/Kg



09012

Data File: /chem/R.i/R1.p/RHXA_8270.b/R318890S.d

Page 14

Date : 25-NOV-96 23:05:00

Client ID: MBS

Instrument: R.i

Sample Info: L#318890 CLI#HSB ETR#62586

Volume Injected (uL): 2.0

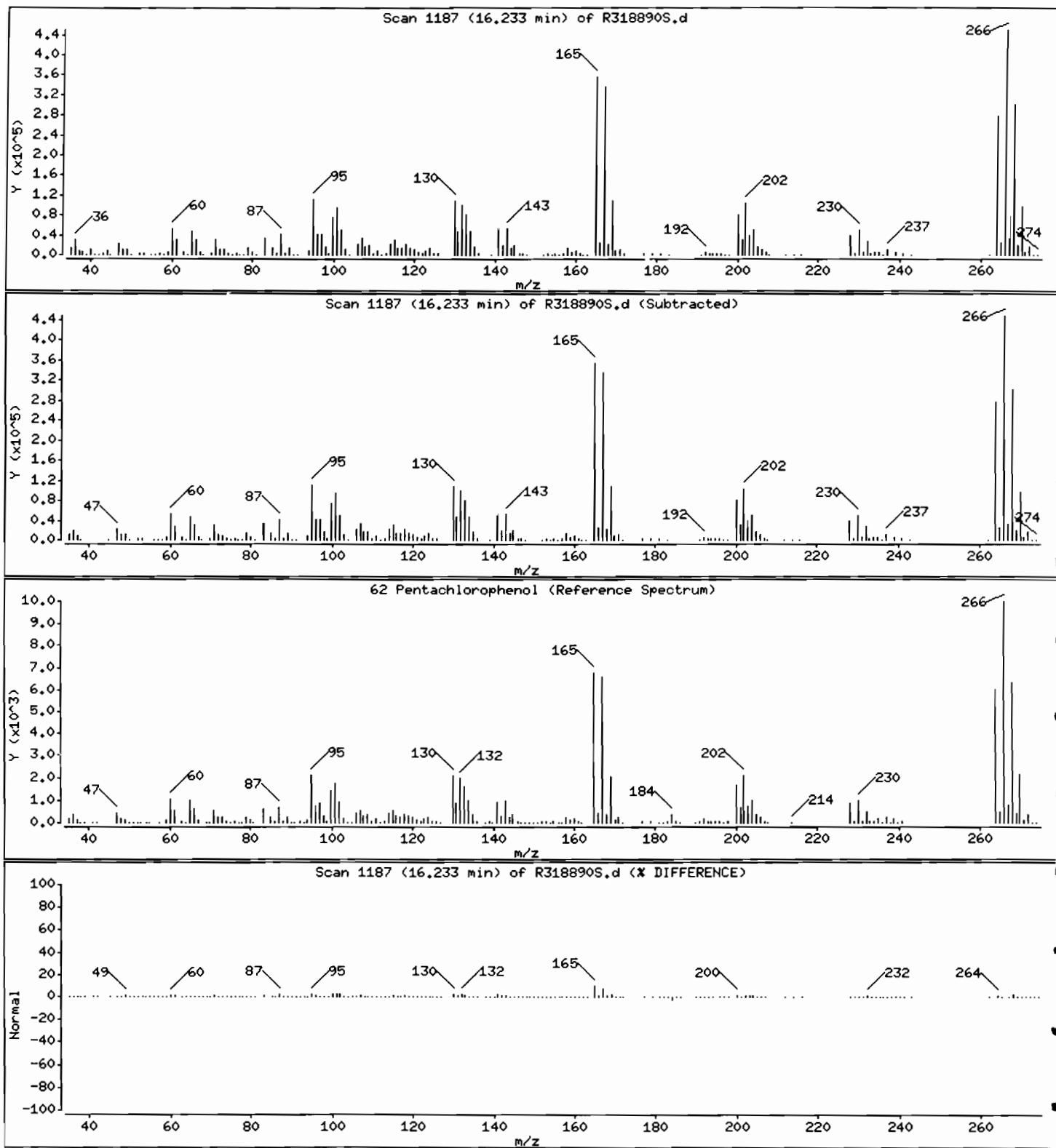
Operator: BES

Column phase: RTX-5

Column diameter: 0.25

62 Pentachlorophenol

Concentration: 70000 ug/Kg



Data File: /chem/R.i/R1.p/RHXA_8270.b/R318890S.d

Page 15

Date : 25-NOV-96 23:05:00

Client ID: MBS

Instrument: R.i

Sample Info: L#318890 CLI#MSB ETR#62586

Volume Injected (uL): 2.0

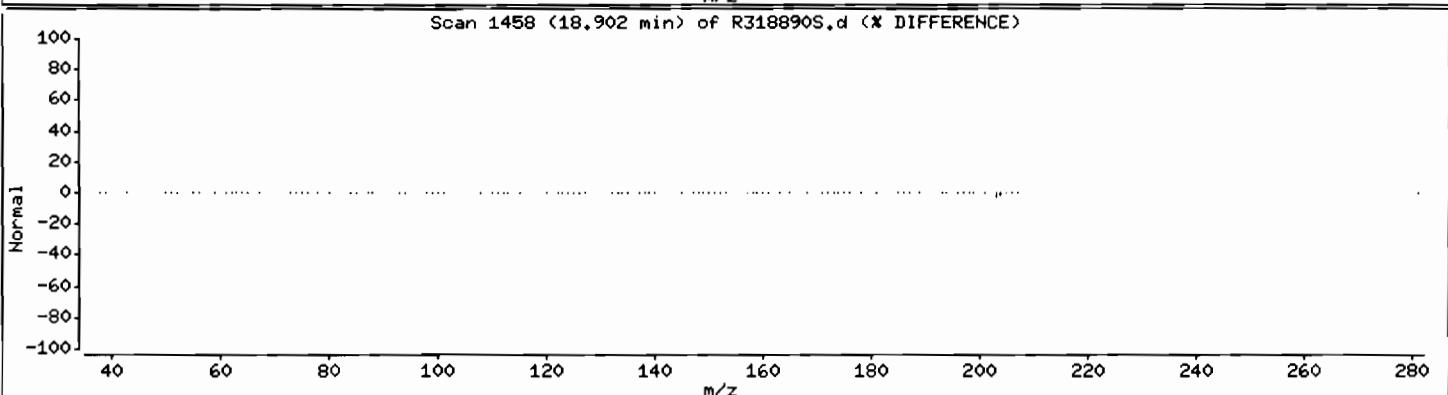
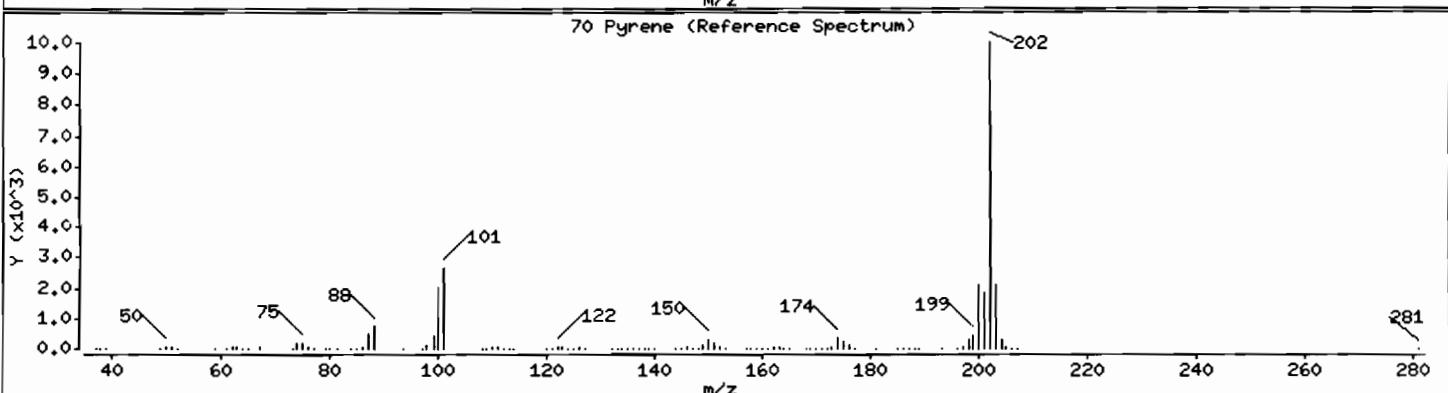
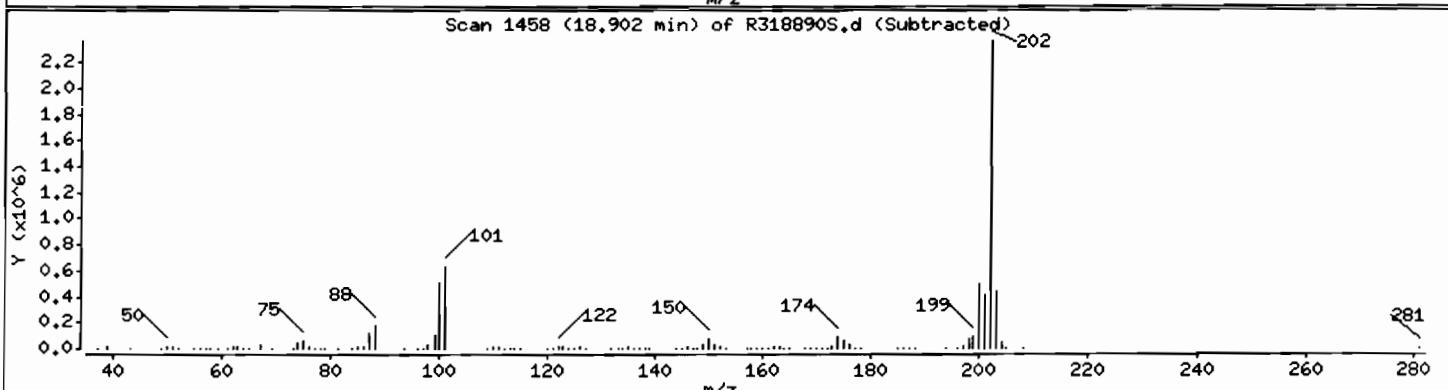
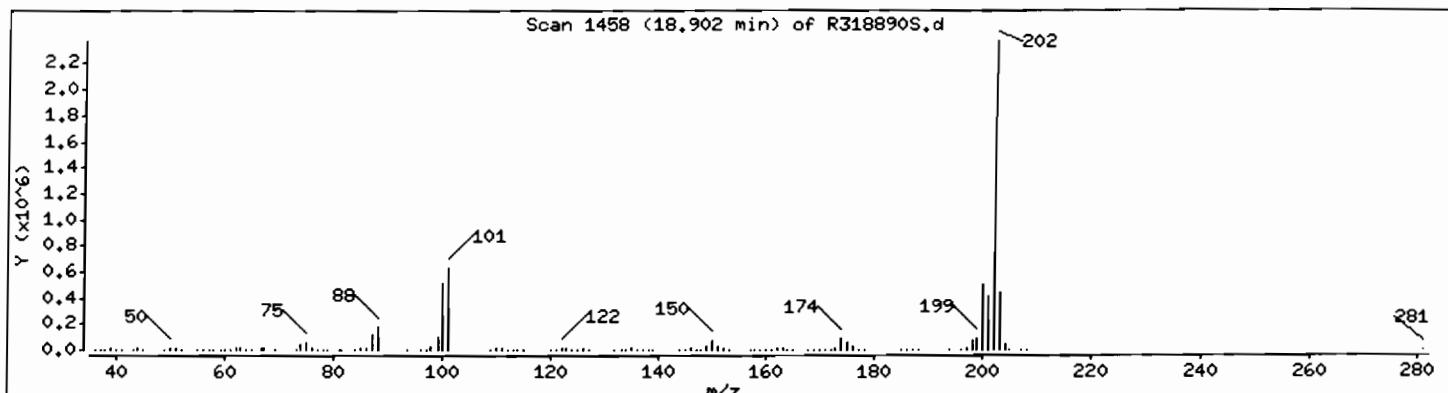
Operator: BES

Column phase: RTX-5

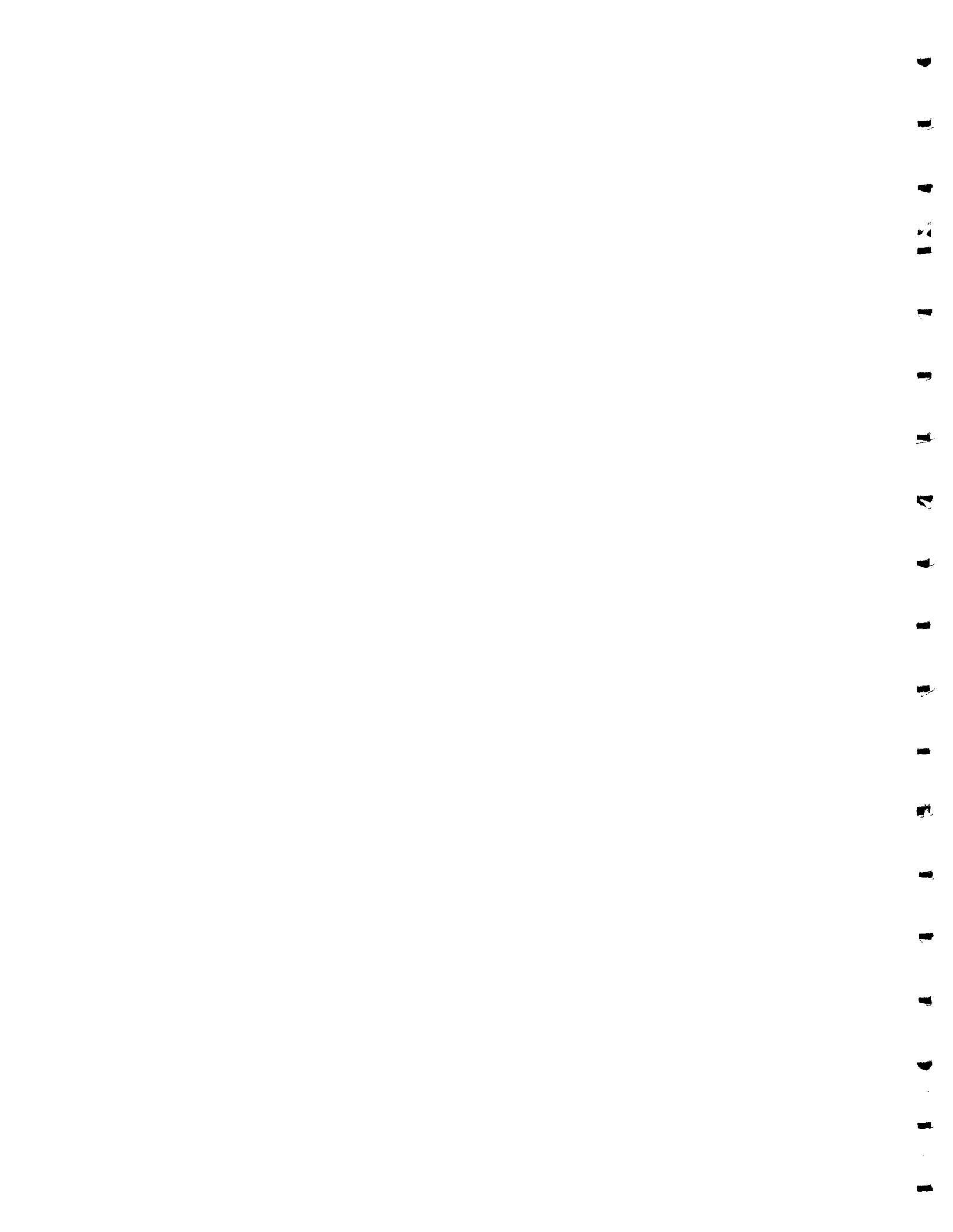
Column diameter: 0.25

70 Pyrene

Concentration: 52000 ug/Kg



000152



SAMPLE PREPARATION



Inchcape Testing Services

一一一一一一一一一一一一一一一一一一

Aquatec, Inc. --- PERCENT SOLID REPORT --- 19-NOV-1996 10:00:58 --- KRC

Method: IN623

Batch: MY

Analyst: PNT

Date Entered: 11-19-96
Entered by: PNT

Date/Time in: 11-14-96 1300

Date Verified: 11-19-96
Verified by: KRC

Date/Time out: 11-18-96 0845

Lab ID	Mass of Dish (g)	Mass of Dish and Wet Sample (g)	Mass of Dish and Dry Sample (g)	Percent Solid
318578 /	0.98	8.73	2.29	16.9032
318579-	0.97	9.15	7.79	83.3741
318580-	0.97	10.12	8.55	82.8415
318581-	0.97	8.02	6.80	82.6950
318582-	0.97	11.02	9.40	83.8806
318583-	0.97	11.76	9.18	76.0890
318584-	0.97	9.69	7.97	80.2752
318585-	0.97	9.00	7.62	82.8144
318586-	0.97	10.56	9.04	84.1502
318587-	0.97	7.28	5.95	78.9223
318588-	0.97	8.65	7.32	82.6823
318589-	0.98	8.88	7.64	84.3038
318590-	0.99	10.41	8.52	79.9363
318591-	0.99	9.45	7.92	81.9149
318592-	0.99	9.09	7.60	81.6049
318593-	0.99	9.72	8.46	85.5670
318593DP /	0.99	9.20	7.99	85.2619
318593MS /	0.99	9.72	8.46	85.5670
318594-	0.99	9.15	8.02	86.1520
318889 /	0.99	9.82	5.66	52.8879

COPY-ORIGINAL ON FILE
AT INCHCAPE TESTING SERVICES
AQUATEC LABORATORIES

000123

Percent Solids Benchsheet

(Method IN623)

Date In: 11/14/96
 Time In: 1300
 Analyst: PNT

Date Out: 11/18/96
 Time Out: 0845

LAB ID plus EPA ID	Dish #	Mass of Dish (g)	Mass of Dish & Wet Sample (g)	Mass of Dish & Dry Sample (g)
318578	21	0.98	8.73	2.29
318579	22	0.97	9.15	2.79
318580	23	0.97	10.12	8.55
318581	24	0.97	8.02	6.80
318582	25	0.97	11.02	9.40
318583	26	0.97	11.76	9.18
318584	27	0.97	9.69	7.97
318585	28	0.97	9.00	7.62
318586	29	0.97	10.56	9.04
318587	30	0.97	7.28	5.95
318588	31	0.97	8.65	7.32
318589	32	0.98	8.88	7.64
318590	33	0.99	10.41	8.52
318591	34	0.99	9.45	7.92
318592	35	0.99	9.09	7.60
318593	36	0.99	9.72	8.46
318593 ms				
318593 DP	37	0.99	9.20	7.99
318594	38	0.99	9.15	8.02
318889	39	0.99	9.82	5.66

Entered by: PNT
 Date: 11/19/96
 Batch: my

COPY. ORIGINAL ON FILE
 AT INCHCAPE TESTING SERVICES
 AQUATEC LABORATORIES

MEDIUM LEVEL, OZONE, ANALYSIS

DATE: 11/13/96
ANALYST: DTP
SPIKER: DTP
WITNESS: [Signature]

CLIENT: Lawmat
CASE: 95212
SDG: 62549
ETR: 62550

F₁ SIL # K3259
MeCL2 LOT # E1079601
SURR LOT # E08059601
MTX LOT # E08059601
ACETONE LOT # NA

AQUATEC ID	CLIENT ID	(gm sp/l) 2.00g	2gM Na2SO4 (powdered)	1.0 ml of BN/Agid Surr 100/150 ppm	Add 9 ml MeCL2 except Matrix Samples	Add 8 ml MeCL2 to Matrix Samples	Sonicate 2 min. control setting @ 5.0	Filter entire extract	Archive 1.5 ml	5ml --> GPC	Cone 1 ml	pH
SBK TS	2.0	9.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	8.0
3156990	2.0	9.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	8.0
3156991	2.0	6.6	✓	✓	✓	✓	✓	✓	✓	✓	✓	6.6
3156992	2.0											
3156993	2.0											
3156994	2.0											
3156995	2.0											
3156996	2.0											
3156997	2.0											
3156998	2.0											
3156999	2.0											

ITS AQUATEC, INC. GC RUN LOG

Analysis: BNA Seen
 Case/SDG No.:
 Comp. Method:

Date: 11/18/96
 GC Operator: WWR
 GC ID: JTP1320
 Column ID: R7X-5
 STDS: SC021596-01

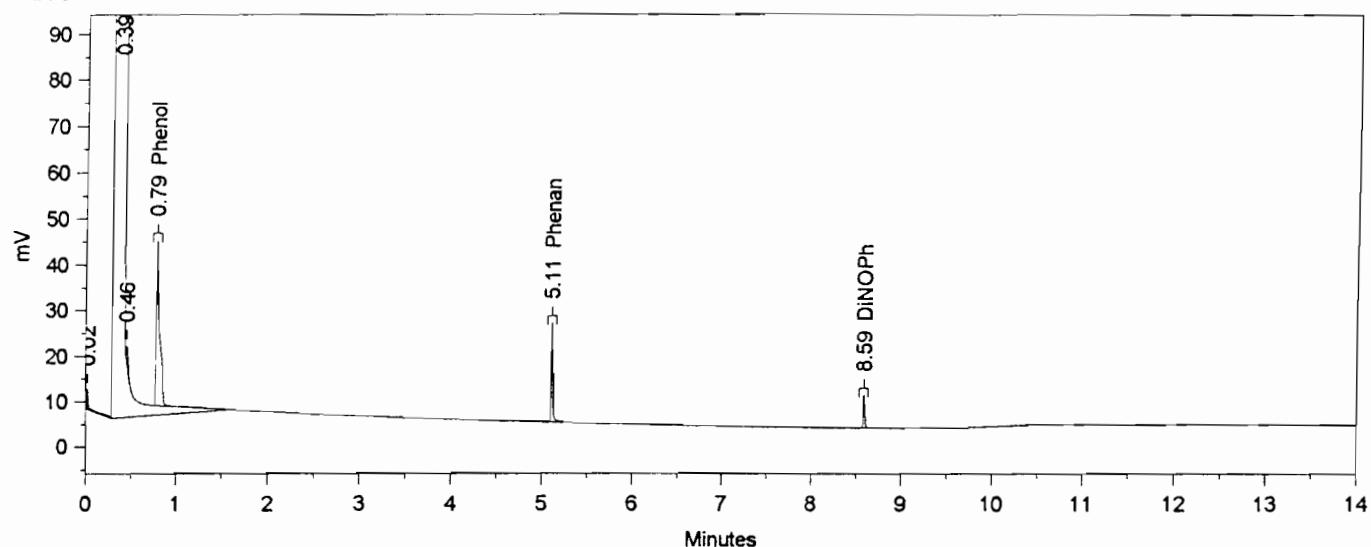
Notes: BNAU2 323

File No.	No.	Sample Description
	01	<u>Blunt</u>
	02	<u>BNALST</u>
<u>62052</u>	03	<u>SBLKS6</u>
	04	<u>316344</u>
	05	<u>316346</u>
	06	<u>316346MS</u>
	07	<u>316348</u>
	08	<u>316402</u>
	09	<u>316405</u>
<u>62441</u>	10	<u>316847</u>
	11	<u>SBLKS7</u>
	12	<u>LCS</u>
	13	<u>318053</u>
	14	<u>318054</u>
	15	<u>318055</u>
	16	<u>318056</u>
	17	<u>318057</u>
	18	<u>318058</u>
	19	<u>318056MS</u>
	20	<u>318056MD</u>
	21	<u>318056DP</u>
<u>62627</u>	22	<u>SALKT4</u>
	23	<u>319109</u>
	24	<u>319112</u>
<u>62556</u>	25	<u>SBLKT3</u>
	26	<u>LCS</u>
	27	<u>318632</u>
	28	<u>318633</u>
<u>62602</u>	29	<u>319022</u>
	30	<u>319023</u>
<u>62636</u>	31	<u>319168</u>
	32	<u>319169</u>
	33	<u>319170</u>
	34	<u>319171</u>
<u>62586</u>	35	<u>SBLKT5</u>
	36	<u>318889</u>
	37	<u>MSB</u>
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File No.	No.	Sample Description
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0902126

BNA STD



Sample Name: BNA STD

BNA SCREEN ON HP1320

Data File: C:\CPWIN\DATA1\BNA02323.02R

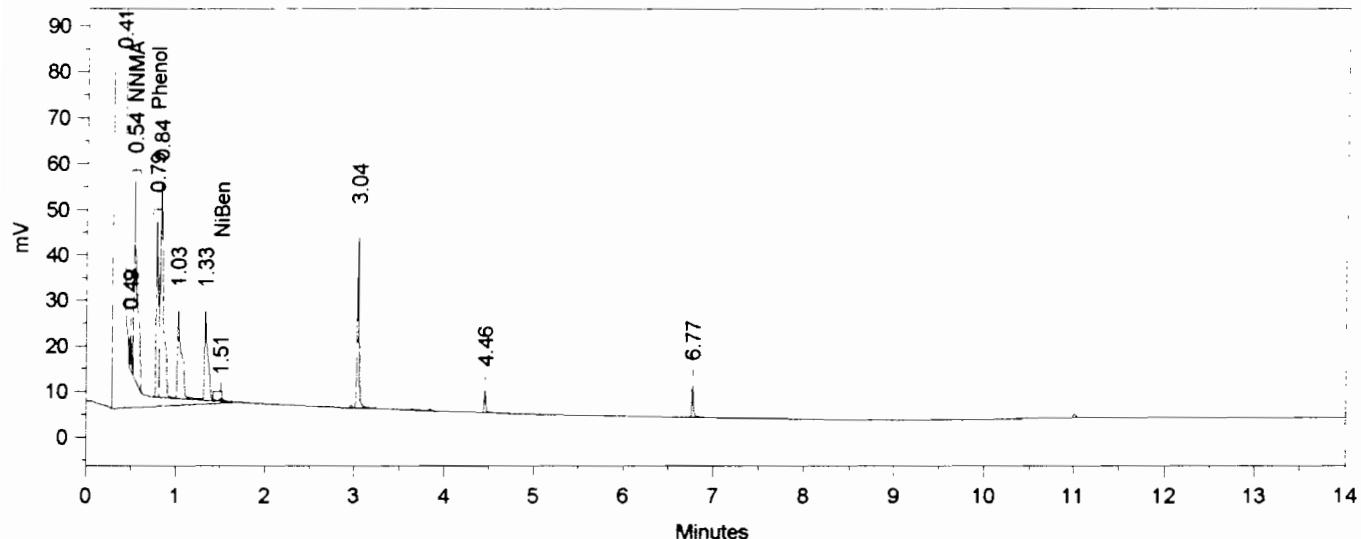
Acquired from Chrom2-Det2A on 11-18-1996 14:07:58 by WRD

Sample BNA STD was diluted 1:1.

RT	Name	Amount	Height	RT	Name	Amount	Height	RT	Name	Amount	Height
0.02		10	4426.57	0.46		8	3718.93	5.11	Phenan	50	21990.26
0.39		2187	969354.40	0.79	Phenol	59	36363.78	8.59	DiNOPh	42	7234.19

Sample Name: BNA STD

SBLKT5



Sample Name: SBLKT5

BNA SCREEN ON HP1320

Data File: C:\CPWIN\DATA1\BNA02323.35R

Acquired from Chrom2-Det2A on 11-19-1996 13:43:43 by WRD

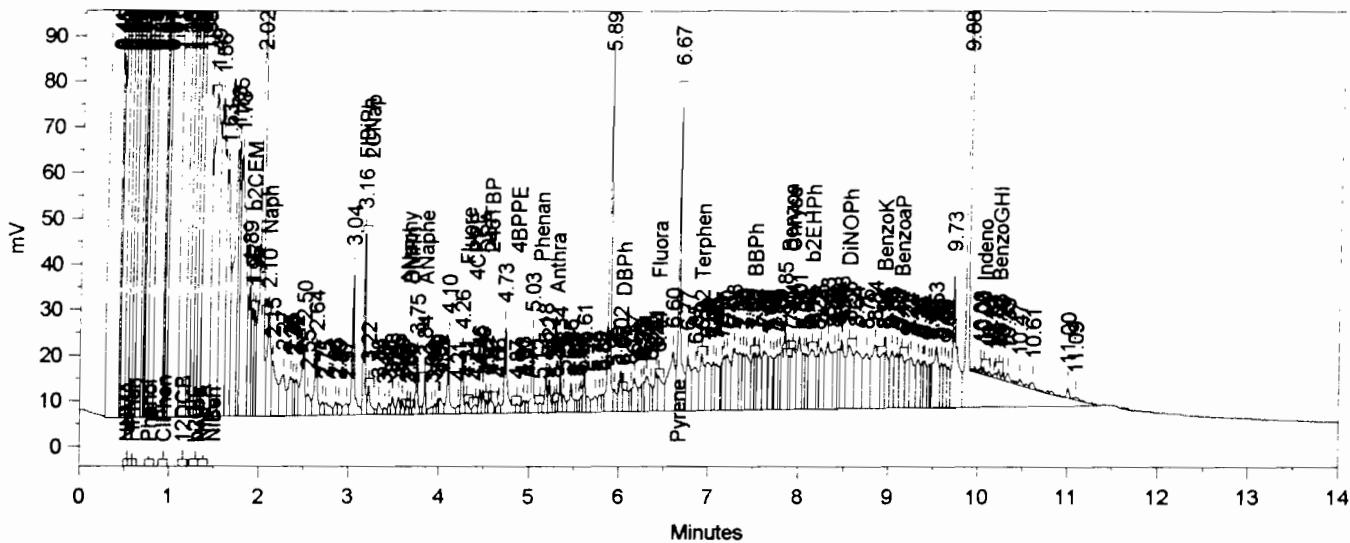
Sample SBLKT5 was diluted 1:1.

RT	Name	Amount	Height	RT	Name	Amount	Height	RT	Name	Amount	Height
0.41		2205	969583.30	0.84		107	47152.02	3.04		91	40078.70
0.49		18	7925.15	1.03		44	19314.39	4.46		11	4996.01
0.54	NNMA	1466	44258.38	1.33		45	19642.16	6.77		17	7409.41
0.79	Phenol	55	39834.94	1.51	NiBen	12	640.63				

Sample Name: SBLKT5

030128

318889



Sample Name: 318889

BNA SCREEN ON HP1320

Data File: C:\CPWIN\DATA1\BNA02323.36R

Acquired from Chrom2-Det2A on 11-19-1996 14:02:45 by WRD

Sample 318889 was diluted 1:1.

RT	Name	Amount	Height	RT	Name	Amount	Height	RT	Name	Amount	Height
0.41		2205	969611.30	3.92		3	1507.10	7.35		29	12665.00
0.45		182	79908.62	3.96		5	2133.75	7.38		29	12635.88
0.49		252	110910.10	3.99		8	3417.06	7.42		28	12406.26
0.54	NNMA	5579	168485.80	4.02		8	3436.77	7.50		28	12305.63
0.57		451	198141.30	4.10		38	16623.86	7.52	BBPh	73	12576.06
0.60	FIPhen	1127	146243.40	4.21		4	1763.84	7.56		28	12355.56
0.67		374	164583.40	4.26		30	13271.95	7.61		29	12919.50
0.71		460	202181.20	4.31	Fluore	3	2541.73	7.69		27	11729.63
0.72		510	224142.40	4.41	4CPPE	2	1853.60	7.72		26	11386.62
0.74		470	206694.80	4.46		12	5305.04	7.76		28	12121.43
0.78	Phenol	271	196938.40	4.49		12	5146.53	7.79		28	12390.38
0.85		1034	454926.60	4.52	DPA	9	3010.77	7.85		42	18413.06
0.94	CIPhen	1551	146253.20	4.57	246TBP	21	3105.76	7.90	Benzoa	61	11829.83
0.97		334	146730.90	4.66		5	2384.10	7.94	Chryse	65	13506.11
1.01		397	174681.40	4.73		43	18991.98	8.01		37	16106.49
1.16	12DCB	2219	165313.30	4.87	4BPPE	4	2125.82	8.05		28	12280.08
1.20		331	145742.00	4.93		6	2833.16	8.08		28	12127.62
1.25		238	104870.70	4.97		6	2599.07	8.15	b2EHPH	69	13114.43
1.31	b2CIE	202	91793.78	5.03		38	16917.85	8.22		27	12083.71
1.33		223	97882.80	5.12	Phenan	5	2138.13	8.25		31	13464.70
1.38	NNPA	489	332496.80	5.18		23	10056.63	8.33		34	14847.53
1.49	NiBen	1376	71040.95	5.22		16	7103.39	8.40		29	12650.47
1.56		159	69919.55	5.28		5	2273.91	8.45		30	13194.71
1.63		124	54516.38	5.31	Anthra	6	2527.48	8.48		34	15120.41
1.73		133	58416.63	5.34		21	9187.69	8.56	DiNOPh	96	13872.39
1.75		137	60158.64	5.38		8	3714.95	8.64		29	12755.92
1.78		130	57287.21	5.46		15	6403.94	8.75		27	12045.29

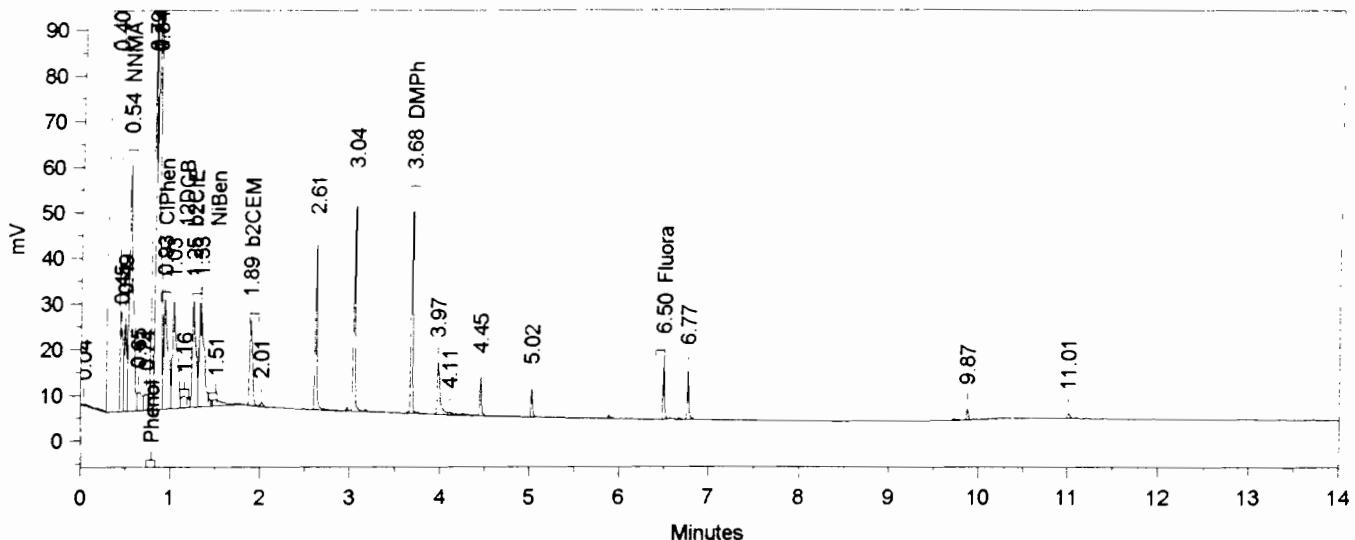
090129

RT	Name	Amount	Height	RT	Name	Amount	Height	RT	Name	Amount	Height
1.89		66	28891.71	5.52		6	2636.48	8.84		32	13931.32
1.92	b2CEM	59	23765.32	5.55		6	2677.71	8.94	BenzoK	59	12119.37
1.95		53	23137.92	5.58		8	3539.57	8.96		28	12223.75
2.02		244	107411.70	5.61		23	10118.05	9.03		29	12596.45
2.10	Naph	19	22723.26	5.73		8	3492.49	9.09		28	12160.39
2.15		27	11979.43	5.79		8	3707.12	9.14	BenzoaP	74	11772.28
2.27		21	9039.88	5.82		9	3807.92	9.21		24	10664.04
2.35		19	8503.21	5.89		186	81617.97	9.24		25	11199.86
2.38		8	7938.80	5.95		11	4876.27	9.32		24	10625.03
2.42		18	7906.21	6.02		21	9156.27	9.38		23	10105.88
2.50		36	15907.54	6.05	DBPh	11	4890.06	9.40		23	10274.67
2.55		11	4739.35	6.13		12	5064.47	9.45		22	9494.38
2.64		30	13324.77	6.17		17	7344.66	9.48		22	9677.83
2.71		7	2900.75	6.25		13	5715.95	9.53		31	13616.76
2.75		6	2683.02	6.28		15	6533.15	9.59		22	9736.14
2.86		7	2951.32	6.31		17	7659.37	9.63		22	9637.84
2.89		6	2474.05	6.36		13	5826.67	9.66		20	8905.98
2.97		6	2490.45	6.41		20	8736.41	9.73		66	29101.08
3.04		73	31912.64	6.44	Fluora	21	7688.59	9.88		361	158989.30
3.16	FIBiPh	443	40325.36	6.60		30	12974.30	10.03		4	1793.13
3.22	2CNap	5	6324.34	6.67	Pyrene	203	70951.27	10.06	Indeno	13	1856.70
3.33		6	2593.47	6.77		28	12443.66	10.13		3	1200.85
3.40		3	1327.78	6.85		21	9422.44	10.19		3	1125.23
3.45		5	2289.06	6.92	Terphen	52	12555.83	10.23	BenzoGHI	13	2280.21
3.48		9	3889.35	6.99		24	10575.09	10.28		4	1967.64
3.55		8	3653.50	7.05		25	10778.86	10.33		4	1826.49
3.59		6	2786.11	7.08		23	10226.01	10.47		3	1414.74
3.65	ANaphy	1	1756.48	7.15		24	10625.81	10.61		4	1598.49
3.68	DMPh	2	1357.43	7.17		27	11962.63	11.00		5	2135.12
3.75		28	12313.36	7.20		28	12297.04	11.09		1	618.19
3.84	ANaphe	6	7578.39	7.28		31	13604.31				

Sample Name: 318889

090420

LCS



Sample Name: LCS

BNA SCREEN ON HP1320

Data File: C:\CPWIN\DATA1\BNA02323.37R

Acquired from Chrom2--Det2A on 11-19-1996 14:21:43 by WRD

Sample LCS was diluted 1:1.

RT	Name	Amount	Height	RT	Name	Amount	Height	RT	Name	Amount	Height
0.04		1	275.02	1.03		53	23469.37	3.97		27	11662.48
0.40		2204	969467.30	1.16	12DCB	33	2469.50	4.11		1	527.45
0.45		41	18152.40	1.25	b2CIE	52	23467.75	4.45		19	8487.82
0.49		47	20482.38	1.33		53	23442.70	5.02		14	6355.15
0.54	NNMA	1849	55830.38	1.51	NiBen	25	1276.82	6.50	Fluora	37	13551.86
0.65		9	3972.06	1.89	b2CEM	46	18698.13	6.77		25	11202.83
0.74		8	3402.91	2.01		2	893.96	9.87		6	2457.36
0.79	Phenol	126	91391.28	2.61		86	37615.24	11.01		2	1088.44
0.84		236	103997.90	3.04		111	48929.84				
0.93	ClPhen	256	24110.90	3.68	DMPH	58	49418.20				

Sample Name: LCS

090151

Inchape Testing Services - Aquatec Laboratories
GCMS SVOA RUNLOG Inst: R.I.

Method ID: 244 5220
Int Date: 11/25/96
use Date: 11/25/96

Time: 08:44
Time: 20:44

Nº 04971

		ETR #	SDG #

ISTD Summaries

Previous

Rt

Areas

Current

Rt

Areas

ISTD Summaries

Tune

Response Factor Summary
11-Table Updated (Finn)
Rt & Ratios Updated (HP)

i.	Time	File Name	CLI/SMO #	ETR #	%	Moist	SSTD	Dil.	Wt/Vol	Rec	ISTD	Conc	Final Report	Analyst	Comments
2844	2440001	DATOPAC1													2440003
	2440002	SSTNDAC1													CANTICAN07
	2441200	SSTD120													
	2442000	SSTD200													
	2442005	SSTD2005													
	2442008	SSTD2008													
	2442015	SSTD2015													
	2442030	SSTD2030													
	2442050	SSTD2050													
	2442070	SSTD2070													
	2442080	SSTD2080													
	2442090	SSTD2090													
	2442100	SSTD2100													
	2442110	SSTD2110													
	2442120	SSTD2120													
	2442130	SSTD2130													
	2442140	SSTD2140													
	2442150	SSTD2150													
	2442160	SSTD2160													
	2442170	SSTD2170													
	2442180	SSTD2180													
	2442190	SSTD2190													
	2442200	SSTD2200													
	2442210	SSTD2210													
	2442220	SSTD2220													
	2442230	SSTD2230													
	2442240	SSTD2240													
	2442250	SSTD2250													
	2442260	SSTD2260													
	2442270	SSTD2270													
	2442280	SSTD2280													
	2442290	SSTD2290													
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	2442310	SSTD2310													
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	2442450	SSTD2450													
	2442460	SSTD2460													
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	2442520	SSTD2520													
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	2442550	SSTD2550													
	2442560	SSTD2560													
	2442570	SSTD2570													
	2442580	SSTD2580													
	2442590	SSTD2590													
	2442600	SSTD2600													

11-1

11-2

11-3

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11-5

11-6

11-7

11-8

11-9

11-10

Batch/Method ID: 244XA-02270
 Start Date: 11/25/96
 Close Date: 11/26/96

Inchcape Testing Services - Aquatec Laboratories
 GCMs SVOA RUNLOG Inst: 2

Time: 2:37
 Time: 2:37

ISTD Summaries

Areas	Previous Rt	Areas	Current Rt
			1046072
			2552729
			1715388
			1765234
			927122
			911253

1046072
 2552729
 1715388
 1765234
 927122
 911253

✓ Tune
 ✓ Response Factor Summary
 ✓ 11-Table Updated (Finn)
 ✓ Rt & Ratios Updated (HP)

ETR #	SDG #
62586	62586
62578	-
62414	62351

Inj. Time	File Name	CLI/SMO #	ETR #	%	Moist	Dil.	SSTD	ISTD	Conc	Final Report	Analyst	Comments
2.37	244X09205	DETPP-002								305	cm10149603	
2.51	244X050485	5570050								305	cm10148607	
2.57	2431118T35	583C4T5	62586	100%	✓	✓	✓	✓	✓	305	C:	
2.65	2431088905	44508	62586	100%	✓	✓	✓	✓	✓	305	C:	
2.740	2431088905	565P247010	62586	5%	✓	✓	✓	✓	✓	305	C:	2.20%?
0015	2431114T35	583L4T1	2552729	100%	✓	✓	✓	✓	✓	305	C:	
0050	24310885205	521.10-1112	2552729	5%	✓	✓	✓	✓	✓	305	R:15%	
0126	2431088535	52-247-11137	2552729	100%	✓	✓	✓	✓	✓	305	C:	
0201	2431114T105	LC54T1	62578	100%	✓	✓	✓	✓	✓	305	R:	201000 1/2 Spiked Aqueous
0236	2431107245	583L4T24	62578	100%	✓	✓	✓	✓	✓	305	C:	
0311	243125815	5210-0155-	62578	100%	✓	✓	✓	✓	✓	305	C:	
0347	243125825	5210-02255-	62578	100%	✓	✓	✓	✓	✓	305	C:	
✓	243125835	5210-0355-	62578	100%	✓	✓	✓	✓	✓	305	/ not approved	
✓	243125845	5210-0455-	62578	100%	✓	✓	✓	✓	✓	305	/	
0432	243125855	5210-0555-	62578	100%	✓	✓	✓	✓	✓	305	C:	
0501	243125865	5210-0655-	62578	100%	✓	✓	✓	✓	✓	305	C:	
0536	243125875	5210-06550-	62578	100%	✓	✓	✓	✓	✓	305	C:	
0611	243125885	5210-07555	62578	100%	✓	✓	✓	✓	✓	305	C:	
0647	243125895	5210-0855-	62578	100%	✓	✓	✓	✓	✓	305	C:	
0722	243125905	5210-0955-	62578	100%	✓	✓	✓	✓	✓	305	C:	
0801	243125915	5210-1055-	62578	100%	✓	✓	✓	✓	✓	305	/	

- - - - -

SAMPLE HANDLING



Inchcape Testing Services

】 】

FedEx® USA Airbill

Tracking Number **9898260610****1 From**Date **11.12.96**Sender's Name **Michael Icklin Inc.**Company **LAWLER MATUSKY & SKELLY ENGINE**
Dept/Floor/Suite/Room **Phone (914) 735-8300**Address **1 BLUE HILL PLAZA**City **PEARL RIVER**State **NY**Zip **10965**2 Your Internal Billing Reference Information **650-625**3 To Recipient's Name **Sample Receiving**Company **Phone (802) 655-1203**Address **4 Environmental Lab**City **Colchester**State **VT**Zip **05446**

4 HOLD at FedEx Location check here

For HOLD at FedEx Location check here

5 Hold Saturday (Not available in all locations)

(Not available with FedEx First Overnight or FedEx Standard Overnight)

(Not available with FedEx First Overnight or FedEx Standard Overnight)

6 Hold Weekday (Not available with FedEx First Overnight or FedEx Standard Overnight)

7 Hold Weekend (Not available with FedEx First Overnight or FedEx Standard Overnight)

8 Release Signature

9 898260610

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Recipient's Copy

11 1000 3140571 6156

4 Service Delivery commitment may be later in some areas
 FedEx Priority Overnight FedEx Standard Overnight FedEx 2 Day*
(Next business morning) (Not available after noon) (Service not available)
 FedEx Gov. Overnight FedEx 2 Day*
(Unauthorized use)
 FedEx Overnight Freight FedEx 2 Day Freight
For packages over 50 pounds Call for delivery schedule.*FedEx letter has not available
higher rate applies
morning delivery to selected locations
Due plain min. 2 day rate5 Packaging FedEx Pak* FedEx Box FedEx Tube
 FedEx Letter FedEx Other
Declared value limit \$5006 Special Handling Yes (No handling fee will be charged if no handling fee is required) No (Delivery & Deconsignment fees waived)
 Dangerous goods? Recipient Third Party Credit Card Cash/Check
(Dangerous Goods Shipper's Declaration rate required)7 Payment Bill to: Sender Account no. (Two to be listed) Credit Card (Enter credit card number in Credit Card section below) Debit Card (Enter account number in Credit Card section below)8 Total Packages **1** Total Weight **20** \$ **00.00** Total Declared Value **\$ 00.00** Total Charges **\$ 00.00**For Saturday Delivery check here If you charge more than \$10 per package you may use:
CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY Section 20 of FedEx Terms and Conditions9 Hold Call for information FedEx Card Auth.10 Payment Method Check Money Order Credit Card Debit Card Charge Card
(If you charge more than \$10 per package you may use:
CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY Section 20 of FedEx Terms and Conditions)11 Payment Method Check Money Order Credit Card Debit Card Charge Card
(If you charge more than \$10 per package you may use:
CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY Section 20 of FedEx Terms and Conditions)12 Payment Method Check Money Order Credit Card Debit Card Charge Card
(If you charge more than \$10 per package you may use:
CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY Section 20 of FedEx Terms and Conditions)13 Payment Method Check Money Order Credit Card Debit Card Charge Card
(If you charge more than \$10 per package you may use:
CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY Section 20 of FedEx Terms and Conditions)14 Payment Method Check Money Order Credit Card Debit Card Charge Card
(If you charge more than \$10 per package you may use:
CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY Section 20 of FedEx Terms and Conditions)

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SDC

INCHCAPE TESTING SERVICES ENVIRONMENTAL LABORATORIES LOG-IN SHEET

Lab Name: Inchcape Testing Services Environmental Laboratories - Burlington, VT

Page / of /

Received By (Print Name): FRANK Bessette

Log-in Date: 11-13-96

Received By (Signature): Frank Bessette

Case Number: 95212

CORRESPONDING

Sample Delivery
Group No: 62586
ETR Number: FNB 62586

	CLIENT	SAMPLE	ASSIGNED	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
	SAMPLE #	TAG #	LAB #	
REMARKS:	SGP247810	NA	318889	Were air bubbles present
1. Custody Seal	(Present/Absent)* Intact/Broken	MJB	318889	in any VOA vials? NA
2. Custody Seal Nos.:	/		318890	Samples Rec'd intact on ice
3. Chain-of-Custody Records	(Present/Absent)*			AT 3°C. COOLER
4. Sample Information Sheets	(Present/Absent)*			Recd intact with unbroken custody seals present.
5. Airbill	Airbill/Sticker (Present/Absent)*			
6. Airbill No.:	989 8260K10			
7. Sample Tags	(Present/Absent)			
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody			
8. Sample Condition:	(Intact/Broken)* Leaking			
9. Does information on the custody records, sample information sheets, sample tags and labels agree?	(Yes/No)*			
10. Date Received at Lab:	11-13-96			
11. Time Received:	0930			
12. Cooler Temperature:	3°C			
Sample Transfer				
Fraction:	All			
Area #:	LVL 4 FRIG			FNB
By:	FNB			11-13-96
On:	11-13-96			

* Contact Project Director

Reviewed by: _____

Logbook No.: _____

Date: _____

Logbook Page No.: _____

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