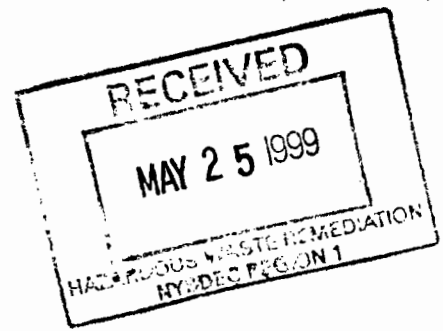


REMEDIAL INVESTIGATION REPORT

Addendum Appendix D - 2

**ALUMINUM LOUVRE CORPORATION
161 SWEET HOLLOW ROAD
OLD BETHPAGE, NEW YORK 11804**

LABORATORY REPORTS



ANALYTICAL DATA REPORT PACKAGE

April 19, 1999

GCI

960285

VOLUME 2 OF 2

ANALab Inc. - Randolph Facility
1152 Route 10
Randolph, NJ 07869
973-584-0330

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ANALab, Inc. - Randolph Facility
1152 Route 10
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973-584-0330
April 19, 1999

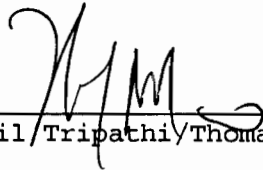
Certified for: NJ, PA, DE, CT, NY (DOH)
NJ #14116 NY #11376
US EPA CLP Lab

ANALYTICAL DATA REPORT PACKAGE

Client: GCI
Sampled By: Customer

SAMPLE ID:	MATRIX	LAB NUMBER	DATE & TIME COLLECTED	AT LAB DATE
MW-1A	Aqueous	306389	03/11/99 15:00	03/15/99
DW-1	Soil	306390	03/11/99 10:30	03/15/99
DW-2	Soil	306391	03/11/99 10:45	03/15/99
DW-3	Soil	306392	03/11/99 11:00	03/15/99
DW-4	Soil	306393	03/11/99 11:15	03/15/99
DW-5	Soil	306394	03/11/99 11:30	03/15/99
DW-6	Soil	306395	03/11/99 11:45	03/15/99
DW-7	Soil	306396	03/11/99 12:00	03/15/99
AST-1	Soil	306397	03/11/99 12:45	03/15/99
AST-2	Soil	306398	03/11/99 13:00	03/15/99
Trip Blank	Aqueous	306399	03/11/99	03/15/99

Supervisor/Manager Signature:


Sunil/Tripathi/Thomas J. Mancuso

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KAT

LABORATORY DELIVERABLES

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following laboratory deliverables shall be included in the data submissions. All deviations from the accepted methodology and procedures, or performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The NJDEP "Technical Requirements for Site Remediation" rules, effective June 7, 1993 and readopted February 18, 1997 (operative date-July 18, 1997), provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits be included in one section of the data package and in the main body of the report.

	Check if Complete
1. Cover Page, Title Page listing Lab Certification #, facility name & address, & date of report	<u>✓</u>
2. Table of Contents	<u>✓</u>
3. Summary Sheets listing analytical results for all targeted and non-targeted compounds	<u>NA</u>
4. Summary Table cross-referencing field ID #'s vs. Lab ID #'s	<u>✓</u>
5. Document bound, paginated and legible	<u>✓</u>
6. Chain of Custody	<u>✓</u>
7. Methodology Summary	<u>✓</u>
8. Laboratory Chronicle and Holding Time Check	<u>✓</u>
9. Results submitted on a dry weight basis (if applicable)	<u>✓</u>
10. Method Detection Limits	<u>✓</u>
11. Lab certified by NJDEPE for parameters or appropriate category of parameters or a member of the USEPA CLP	<u>✓</u>
12. Non-Conformance Summary	<u>✓</u>
<u>K. Santacana</u> ANALab, Inc. - Randolph Facility Quality Control Coordinator	<u>4/19/99</u> Date

ANALAB INC.

205 Campus Plaza 1, Raritan Center, Edison, New Jersey 08837 (908) 225-4111
 ENVIRONMENTAL ANALYTICAL LABORATORY SERVICES FAX (908) 225-4110

CHAIN-OF-CUSTODY RECORD

and

Work Authorization

Company GCI
 Address 125 Baylis Road, Suite 380 Phone 576 694 7878
 City Metairie
 State New York ZIP 11747 Fax 576 694 7130
 Project Manager Matt Seegal
 Project name 960285 Purchase Order No. _____

LAB SDG NO.: (FOR LAB USE ONLY)

ANALYSIS REQUESTED

PRINT ANALYSIS REQUESTS CLEARLY, LEGIBLY AND COMPLETELY.
 Page 1 of 1
 REMARKS

SAMPLE DESCRIPTION	TYPE		DATE SAMPLED	TIME	PRES	NO. CONT	REMARKS
	GRB	COMP					
MW-1A	X		3/11/99	3:00	40	5	306389
DW-1	X		3/11/99	10:30	40	2	306390
DW-2	X		3/11/99	12:45	40	2	306391
DW-3	X		3/11/99	11:00	40	2	306392
DW-4	X		3/11/99	11:15	40	2	306393
DW-5	X		3/11/99	11:30	40	2	306394
DW-6	X		3/11/99	11:45	40	2	306395
DW-7	X		3/11/99	12:00	40	2	306396
AST-1	X		3/11/99	12:45	40	2	306397
AST-2	X		3/11/99	1:00	40	2	306398

FAILURE TO PRINT CLEARLY, LEGIBLY AND COMPLETELY MAY RESULT IN DELAYS. ANY ANALYSIS REQUEST NOT ENTERED COMPLETELY, CLEARLY AND LEGIBLY OR WHICH IS CONFUSING OR AMBIGUOUS MAY RESULT IN DELAYS. SAMPLES CAN NOT BE LOGGED IN AND THE TURNAROUND TIME CLOCK WILL NOT START UNTIL ANY AMBIGUITIES ARE RESOLVED. TO AVOID THIS, PRINT CLEARLY, LEGIBLY AND COMPLETELY.

SAMPLER/SUBMITTER'S STATEMENT: I attest that the proper field sampling procedures were used during the collection. Name (print): _____
 of these samples and that the information on this Chain of Custody and the analysis(es) requested are true and correct.

RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:	RELINQUISHED TO LABORATORY BY:	ACCEPTED FOR LAB BY:	DATE:	TIME:
<u>Matt Seegal</u>	<u>[Signature]</u>	3/11/99	4:00	<u>[Signature]</u>	<u>[Signature]</u>	3-12-99	16:35
	<u>[Signature]</u>	3-12-99	12:00	<u>[Signature]</u>	<u>[Signature]</u>	3/15/99	1600

Laboratory Comments:

Data Deliverables (Standard T.A.T. Hard Copy)

Results only _____
 Results with QC X
 RTD-4 _____
 FTD-2 _____

If other than standard turnaround time for hard copy, please indicate in client remarks.

Client Remarks: Reports must be ASP
 Category "B" deliverables
 Package.

ANALAB Inc. Randolph
Internal Chain-of-Custody

LINK: 306389-306399

Account number: WAB929 801
Project: 980235
Site Level: NY B

Laboratory Person Breaking Seal on Shuttle:

R. Mahanah
S.C.

Title:

Number	Relinqu.	By	Recd.	By	Date	Time	Reason for Transfer	Aliquot ID
All	RM		RM		03/15/99	16:00	STORAGE	ALL
89	RM		AK		3/16/99	8:15	625B-dip	U,
9-99	RM		KL		3/16/99	9:00	8240-dip	HU, H1/2, Su,
89	RM		SD		3/17/99	8:15	PhC-dip	HC,
0-98	RM		SD		3/17/99	8:30	phc	8u,
0-98	SD		RM		3/17/99	19:00	storage	8u,
0-98	RM		KL		3/17/99	9:00	8240-dip	5u,
0-98	RM		AK		3/19/99	8:15	625B	8u,
0-98	AK		RM		3/19/99	17:00	storage	8u,
70-98	RM		~ S		3/22/99	8:15	metals	8u,
70-98	~ S		RM		3/23/99	19:00	storage	8u,
89	RM		~ S		3/24/99	8:30	metals	N,
89	~ S		RM		4/1/99	14:00	storage	N,
70-98	RM				4/8/99	8:15	DRO	8u,
70-98			RM		4/9/99	19:00	storage	8u,

ANALab, Inc. - Randolph Facility
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
APRIL 19, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY CHRONICLE

LAB #: 306389
SOURCE: 960285
MATRIX: Liquid (Aqueous)
DATE SAMPLED: 03/11/99
DATE RECEIPT: 03/15/99

Analyzed: *** GC/MS VOLATILES: *** 03/16/99

Extracted: *** GC/MS SEMIVOLATILES: *** 03/16/99
Analyzed: 03/25/99

*** INORGANICS - METALS: ***
Tot. Arsenic Analyzed: 03/30/99
Tot. Barium Analyzed: 03/30/99
Tot. Cadmium Analyzed: 03/30/99
Tot. Chromium Analyzed: 03/30/99
Tot. Lead Analyzed: 03/30/99
Tot. Mercury Analyzed: 03/24/99
Tot. Selenium Analyzed: 03/30/99
Tot. Silver Analyzed: 03/30/99

*** INORGANICS - GENERAL CHEMISTRY/MICROBIOLOGY: ***
Pet. Hydrocarbon Extracted: 03/17/99
Pet. Hydrocarbon Analyzed: 03/17/99

PRESERVED BOTTLES USED:

1 Liter plastic w/Nitric Acid pH = <2
40 ml glass vial w/Hydrochloric Acid pH = <2
1 Liter glass w/Hydrochloric Acid pH = <2

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Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
APRIL 19, 1999

Certified for: NJ, PA, DE, CT, NY (DOH)
NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY CHRONICLE

LAB #: 306390
SOURCE: 960285
MATRIX: Soil
DATE SAMPLED: 03/11/99
DATE RECEIPT: 03/15/99

*** GC/MS VOLATILES: ***
Analyzed: 03/17/99

*** GC/MS SEMIVOLATILES: ***
Extracted: 03/19/99
Analyzed: 03/29/99

*** GC DAI/DRO/GRO/TRIBUTYL TIN: ***
DRO Extracted: 04/08/99
DRO Analyzed: 04/12/99

*** INORGANICS - METALS: ***
Tot. Arsenic Analyzed: 03/23/99
Tot. Barium Analyzed: 03/23/99
Tot. Cadmium Analyzed: 03/23/99
Tot. Chromium Analyzed: 03/23/99
Tot. Lead Analyzed: 03/23/99
Tot. Mercury Analyzed: 03/22/99
Tot. Selenium Analyzed: 03/23/99
Tot. Silver Analyzed: 03/23/99

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NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY CHRONICLE

LAB #: 306391
SOURCE: 960285
MATRIX: Soil
DATE SAMPLED: 03/11/99
DATE RECEIPT: 03/15/99

*** GC/MS VOLATILES: ***
Analyzed: 03/17/99

*** GC/MS SEMIVOLATILES: ***
Extracted: 03/19/99
Analyzed: 03/30/99

*** GC DAI/DRO/GRO/TRIBUTYL TIN: ***
DRO Extracted: 04/08/99
DRO Analyzed: 04/09/99

*** INORGANICS - METALS: ***
Tot. Arsenic Analyzed: 03/23/99
Tot. Barium Analyzed: 03/23/99
Tot. Cadmium Analyzed: 03/23/99
Tot. Chromium Analyzed: 03/23/99
Tot. Lead Analyzed: 03/23/99
Tot. Mercury Analyzed: 03/22/99
Tot. Selenium Analyzed: 03/23/99
Tot. Silver Analyzed: 03/23/99

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APRIL 19, 1999

Certified for: NJ, PA, DE, CT, NY (DOH)
NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY CHRONICLE

LAB #: 306392
SOURCE: 960285
MATRIX: Soil
DATE SAMPLED: 03/11/99
DATE RECEIPT: 03/15/99

*** GC/MS VOLATILES: ***
Analyzed: 03/17/99

*** GC/MS SEMIVOLATILES: ***
Extracted: 03/19/99
Analyzed: 03/30/99

*** GC DAI/DRO/GRO/TRIBUTYL TIN: ***
DRO Extracted: 04/08/99
DRO Analyzed: 04/09/99

*** INORGANICS - METALS: ***
Tot. Arsenic Analyzed: 03/23/99
Tot. Barium Analyzed: 03/23/99
Tot. Cadmium Analyzed: 03/23/99
Tot. Chromium Analyzed: 03/23/99
Tot. Lead Analyzed: 03/23/99
Tot. Mercury Analyzed: 03/22/99
Tot. Selenium Analyzed: 03/23/99
Tot. Silver Analyzed: 03/23/99

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Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
APRIL 19, 1999

Certified for: NJ, PA, DE, CT, NY (DOH)
NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY CHRONICLE

LAB #: 306393
SOURCE: 960285
MATRIX: Soil
DATE SAMPLED: 03/11/99
DATE RECEIPT: 03/15/99

*** GC/MS VOLATILES: ***
Analyzed: 03/17/99

*** GC/MS SEMIVOLATILES: ***
Extracted: 03/19/99
Analyzed: 03/29/99

*** GC DAI/DRO/GRO/TRIBUTYL TIN: ***
DRO Extracted: 04/08/99
DRO Analyzed: 04/12/99

*** INORGANICS - METALS: ***
Tot. Arsenic Analyzed: 03/23/99
Tot. Barium Analyzed: 03/23/99
Tot. Cadmium Analyzed: 03/23/99
Tot. Chromium Analyzed: 03/23/99
Tot. Lead Analyzed: 03/23/99
Tot. Mercury Analyzed: 03/22/99
Tot. Selenium Analyzed: 03/23/99
Tot. Silver Analyzed: 03/23/99

ANALab, Inc. - Randolph Facility
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973-584-0330, FAX: 973-584-0515
APRIL 19, 1999

Certified for: NJ, PA, DE, CT, NY (DOH)
NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY CHRONICLE

LAB #: 306394
SOURCE: 960285
MATRIX: Soil
DATE SAMPLED: 03/11/99
DATE RECEIPT: 03/15/99

*** GC/MS VOLATILES: ***
Analyzed: 03/17/99

*** GC/MS SEMIVOLATILES: ***
Extracted: 03/19/99
Analyzed: 03/30/99

*** GC DAI/DRO/GRO/TRIBUTYL TIN: ***
DRO Extracted: 04/08/99
DRO Analyzed: 04/09/99

*** INORGANICS - METALS: ***
Tot. Arsenic Analyzed: 03/23/99
Tot. Barium Analyzed: 03/23/99
Tot. Cadmium Analyzed: 03/23/99
Tot. Chromium Analyzed: 03/23/99
Tot. Lead Analyzed: 03/23/99
Tot. Mercury Analyzed: 03/22/99
Tot. Selenium Analyzed: 03/23/99
Tot. Silver Analyzed: 03/23/99

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APRIL 19, 1999

Certified for: NJ, PA, DE, CT, NY (DOH)
NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY CHRONICLE

LAB #: 306395
SOURCE: 960285
MATRIX: Soil
DATE SAMPLED: 03/11/99
DATE RECEIPT: 03/15/99

*** GC/MS VOLATILES: ***
Analyzed: 03/17/99

*** GC/MS SEMIVOLATILES: ***
Extracted: 03/19/99
Analyzed: 03/30/99

*** GC DAI/DRO/GRO/TRIBUTYL TIN: ***
DRO Extracted: 04/08/99
DRO Analyzed: 04/12/99

*** INORGANICS - METALS: ***
Tot. Arsenic Analyzed: 03/23/99
Tot. Barium Analyzed: 03/23/99
Tot. Cadmium Analyzed: 03/23/99
Tot. Chromium Analyzed: 03/23/99
Tot. Lead Analyzed: 03/23/99
Tot. Mercury Analyzed: 03/22/99
Tot. Selenium Analyzed: 03/23/99
Tot. Silver Analyzed: 03/23/99

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APRIL 19, 1999

Certified for: NJ, PA, DE, CT, NY (DOH)
NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY CHRONICLE

LAB #: 306396
SOURCE: 960285
MATRIX: Soil
DATE SAMPLED: 03/11/99
DATE RECEIPT: 03/15/99

*** GC/MS VOLATILES: ***
Analyzed: 03/17/99

*** GC/MS SEMIVOLATILES: ***
Extracted: 03/19/99
Analyzed: 03/30/99

*** GC DAI/DRO/GRO/TRIBUTYL TIN: ***
DRO Extracted: 04/08/99
DRO Analyzed: 04/12/99

*** INORGANICS - METALS: ***
Tot. Arsenic Analyzed: 03/23/99
Tot. Barium Analyzed: 03/23/99
Tot. Cadmium Analyzed: 03/23/99
Tot. Chromium Analyzed: 03/23/99
Tot. Lead Analyzed: 03/23/99
Tot. Mercury Analyzed: 03/22/99
Tot. Selenium Analyzed: 03/23/99
Tot. Silver Analyzed: 03/23/99

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APRIL 19, 1999

Certified for: NJ, PA, DE, CT, NY (DOH)
NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY CHRONICLE

LAB #: 306397
SOURCE: 960285
MATRIX: Soil
DATE SAMPLED: 03/11/99
DATE RECEIPT: 03/15/99

*** GC/MS VOLATILES: ***
Analyzed: 03/17/99

*** GC/MS SEMIVOLATILES: ***
Extracted: 03/19/99
Analyzed: 03/26/99

*** GC DAI/DRO/GRO/TRIBUTYL TIN: ***
DRO Extracted: 04/08/99
DRO Analyzed: 04/09/99

*** INORGANICS - METALS: ***
Tot. Arsenic Analyzed: 03/23/99
Tot. Barium Analyzed: 03/23/99
Tot. Cadmium Analyzed: 03/23/99
Tot. Chromium Analyzed: 03/23/99
Tot. Lead Analyzed: 03/23/99
Tot. Mercury Analyzed: 03/22/99
Tot. Selenium Analyzed: 03/23/99
Tot. Silver Analyzed: 03/23/99

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NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY CHRONICLE

LAB #: 306398
SOURCE: 960285
MATRIX: Soil
DATE SAMPLED: 03/11/99
DATE RECEIPT: 03/15/99

*** GC/MS VOLATILES: ***
Analyzed: 03/18/99

*** GC/MS SEMIVOLATILES: ***
Extracted: 03/19/99
Analyzed: 03/26/99

*** GC DAI/DRO/GRO/TRIBUTYL TIN: ***
DRO Extracted: 04/08/99
DRO Analyzed: 04/09/99

*** INORGANICS - METALS: ***
Tot. Arsenic Analyzed: 03/23/99
Tot. Barium Analyzed: 03/23/99
Tot. Cadmium Analyzed: 03/23/99
Tot. Chromium Analyzed: 03/23/99
Tot. Lead Analyzed: 03/23/99
Tot. Mercury Analyzed: 03/22/99
Tot. Selenium Analyzed: 03/23/99
Tot. Silver Analyzed: 03/23/99

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973-584-0330, FAX: 973-584-0515
APRIL 19, 1999

Certified for: NJ, PA, DE, CT, NY (DOH)
NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY CHRONICLE

LAB #: 306399
SOURCE: 960285
MATRIX: Liquid (Aqueous)
DATE SAMPLED: 03/11/99
DATE RECEIPT: 03/15/99

Analyzed: *** GC/MS VOLATILES: *** 03/16/99

PRESERVED BOTTLES USED:

40 ml glass vial w/Hydrochloric Acid pH = <2

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

	<u>NO</u>	<u>YES</u>
1. Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks)	___	___ ✓
2. GC/MS Tuning Specifications		
a. BFB Meet Criteria	___	___ ✓
b. DFTPP Meet Criteria	___	___ ✓
3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 series	___	___ ✓
4. GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series	___	___ ✓
5. GC/MS Calibration Requirements		
a. Calibration Check Compounds	___	___ ✓
b. System Performance Check Compounds	___	___ ✓
6. Blank Contamination - If yes, list compounds and concentrations in each blank:	___ ✓	___
a. VOA Fraction _____		
b. B/N Fraction _____		
c. Acid Fraction _____		

7. Surrogate Recoveries Meet Criteria ___ ✓

If not met, list those compounds and their recoveries
which fall outside the acceptable ranges

a. VOA Fraction Water QA Sample DCE 148% all other surrogates meet criteria
 b. B/N Fraction 306392 TPH 4%
 c. Acid Fraction _____

If not met, were the calculations checked and the results
qualified as "estimated"? ___

8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria
(If not met, list those compounds and their recoveries
which fall outside the acceptable range) ___ ✓

a. VOA Fraction Soil MSD 150%
 b. B/N Fraction 14 Dichlorobenzene MS-27%, MSD 27%, 1,2,4 Trichlorobenzene MS 99%, MSD 99%
 c. Acid Fraction _____ RSD 4%

9. Internal Standard Area/Retention Time Shift Meet
Criteria ___ ✓

303393, 306390MSD, Internal standard areas low due to
matrix interference.

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

- | | <u>NO</u> | <u>YES</u> |
|--|-----------|------------|
| 1. Chromatograms Labeled/Compounds Identified
(Field Samples and Method Blanks) | _____ | _____
✓ |
| 2. Standards Summary Submitted | _____ | _____
✓ |
| 3. Calibration - Initial Calibration performed within
30 days before sample analysis and continuing calibration
performed within 24 hours of sample analysis | _____ | _____
✓ |
| 4. Blank Contamination - If yes, list compounds and concentrations
in each blank: | _____ | _____
✓ |
| a. VOA Fraction _____ | | |
| b. B/N Fraction _____ | | |
| c. Acid Fraction _____ | | |
| d. Pesticides/PCB's _____ | | |
| e. Other _____ | | |
| 5. Surrogate Recoveries Meet Criteria (if applicable) | _____ | _____
✓ |
| If not met, list those compounds and their recoveries which
fall outside the acceptable range: | | |
| a. VOA Fraction _____ | | |
| b. B/N Fraction _____ | | |
| c. Acid Fraction _____ | | |
| d. Pesticides/PCB's _____ | | |
| e. Other _____ | | |
| If not met, were the calculations checked and the results
qualified as "estimated?" | | |
| | _____ | _____ |
| 6. Matrix Spike/Matrix Spike Duplicate Recoveries Meet
Criteria (if applicable) | _____ | _____
✓ |
| (If not met, list those compounds and their recoveries
which fall outside the acceptable range) | | |
| a. VOA Fraction _____ | | |
| b. B/N Fraction _____ | | |
| c. Acid Fraction _____ | | |
| d. Pesticides/PCB's _____ | | |
| e. Other _____ | | |
| 7. Retention Time Shift Meet Criteria (if applicable) | _____ | _____
✓ |

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT (CONTINUED)

NO YES

8. Extraction Holding Time Met

If not met, list number of days exceeded for each sample: _____

3 samples were extracted for DRO 14 days
past hold.

9. Analysis Holding Time Met

If not met, list number of days exceeded for each sample: _____

Additional Comments: _____

Quality Control Coordinator: K. Santacana Date: 4/19/99

METAL ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

- | | <u>NO</u> | <u>YES</u> |
|--|-----------|------------|
| 1. Calibration Summary Meet Criteria | ___ | ___ ✓ |
| 2. ICP Interference Check Sample Results Summary Submitted (if applicable) / Meet Criteria | ___ | ___ ✓ |
| 3. Serial Dilution Summary Submitted (if applicable) / Meet Criteria | ___ | ___ ✓ |
| 4. Laboratory Control Sample Summary Submitted (if applicable) / Meet Criteria | ___ | ___ ✓ |
| 5. Blank Contamination - If yes, list compounds and concentrations in each blank: | ___ ✓ | ___ |

6. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range)
- ___ ✓

7. Extraction Holding Time Met
- ___ ✓
- If not met, list number of days exceeded for each sample _____

8. Analysis Holding Time Met
- ___ ✓
- If not met, list number of days exceeded for each sample _____

Additional Comments: _____

Quality Control Coordinator: *K. Lantacano* Date: 4/19/99

- enic
 - *Test Methods for Evaluating Solid Wastes, SW846, 3rd Edition.
 - **Method 3010A/6010A
- rium
 - *Test Methods for Evaluating Solid Wastes, SW46, 3rd Edition.
 - **Method 3010A/6010A
- mium
 - *Test Methods for Evaluating Solid Wastes, SW46, 3rd Edition.
 - **Method 3010A/6010A
- romium
 - *Test Methods for Evaluating Solid Wastes, SW46, 3rd Edition.
 - **Method 3010A/6010A
- ad
 - *Test Methods for Evaluating Solid Wastes, SW46, 3rd Edition.
 - **Method 3010A/6010A
- rcury
 - *Test Methods for Evaluating Solid Wastes, SW46, 3rd Edition.
 - **Method 7470
- lenium
 - *Test Methods for Evaluating Solid Wastes, SW46, 3rd Edition.
 - **Method 3010A/6010A
- lver
 - *Test Methods for Evaluating Solid Wastes, SW46, 3rd Edition.
 - **Method 3010A/6010A
- roleum Hydrocarbons
 - *EPA Methods for Chemical Analysis of Water and Wastes, March 1983
 - **Method 418.1
- emivolatile Organic Compounds by GC/MS
 - *Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
 - **Method 8270B
- C/MS Extraction - Separatory Funnel Extraction
 - *Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
 - **Method 3510B
- C/MS Extraction - Sonication Extraction
 - *Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
 - **Method 3550A
- olatile Organics by GC/MS
 - *Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
 - **Method 8260A
- iesel Range Petroleum Hydrocarbons by GC
 - *API Methods for the Measurement of Petroleum Hydrocarbons Gasoline Range Feb.1992 version.
- C Extraction - Sonication Extraction
 - *Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
 - **Method 3550A

* Indicates reference.
* Indicates method.

ANALab, Inc. - Randolph Facility
 1152 Route 10
 Randolph, NJ 07869
 973-584-0330, FAX: 973-584-0515
 APRIL 16, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

TARGET COMPOUND LIST - VOLATILE ANALYSIS BY GC/MS

Lab Number: 306389 Data File: >A3665
 Client: GCI
 Sample source: 960285
 Sample ID: MW-1A
 Sample date: 03/11/99
 Sampled by: Customer Analysis Date: 03/16/99 Column: DB-624
 At lab date: 03/15/99 Dilution Factor: 1
 Matrix: Water Init Sample volume= 5ml Final volume= 5ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume

Parameter	Result ug/l	Method Blank ug/l	Practical Quantitation Limit ug/l	Minimum Detection Limit ug/l
Chloromethane	U	U	5	4.6
Bromomethane	U	U	5	3.8
Vinyl chloride	U	U	5	1.7
Chloroethane	U	U	5	1.8
Methylene chloride	4.2J #	U	5	2.7
Acetone	U	U	20	4.5
Carbon disulfide	U	U	5	1.7
1,1-Dichloroethene	U	U	5	1.7
1,1-Dichloroethane	U	U	5	1.4
trans-1,2-Dichloroethene	U	U	5	1.7
cis-1,2-Dichloroethene	U	U	5	1.7
Chloroform	U	U	5	1.6
1,2-Dichloroethane	U	U	5	1.9
2-Butanone	U	U	20	2.4
1,1,1-Trichloroethane	U	U	5	0.5
Carbon tetrachloride	U	U	5	0.6
Bromodichloromethane	U	U	5	0.6
1,2-Dichloropropane	U	U	5	0.6
cis-1,3-Dichloropropene	U	U	5	0.5
Trichloroethene	37	U	5	0.6
Dibromochloromethane	U	U	5	0.6
1,1,2-Trichloroethane	U	U	5	0.5
Benzene	U	U	5	0.5
trans-1,3-Dichloropropene	U	U	5	0.6
Bromoform	U	U	5	0.8
4-Methyl-2-pentanone	U	U	20	1.1
2-Hexanone	U	U	20	1.2
Tetrachloroethene	U	U	5	0.7
1,1,2,2-Tetrachloroethane	U	U	5	0.5
Toluene	U	U	5	0.8
Chlorobenzene	U	U	5	0.6
Ethylbenzene	U	U	5	0.7
Styrene	U	U	5	1
p&m-Xylene	U	U	5	0.9
o-Xylene	U	U	5	0.9
total Xylenes	U	U	5	0.9

ug/l = micrograms/liter or ppb

ND: Not Determined.

IND: Indeterminable.

U: Indicates a compound was analyzed for but not detected at the PQL.

J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.

B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

Methylene chloride: This compound is not flagged with a B since it was not found in corresponding blank. However, this compound is commonly found as a laboratory contaminant.

QUANT REPORT

Page 1

Operator ID: AT1446
 Output File: ^A3665::X1
 Data File: >A3665::B1
 Name: INST 59701, SAMPLE
 Misc: 306389 ,L,5,5, 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990316 22:21
 Injected at: 990316 21:50
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990315 18:22

Last Qual Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *Pentafluorobenzene	7.30	168.0	156248	50.00	ug/L	94
12) Methylene Chloride	4.20	49.0	8334	4.42	ug/L	72
26) Dibromofluoromethane	7.40	113.0	128093	58.30	ug/L	100
28) 1,2-Dichloroethane-d4	8.42	65.0	67390	56.23	ug/L	90
32) *1,4-Difluorobenzene	9.25	114.0	143991	50.00	ug/L	99
37) Trichloroethene	9.81	95.0	54945	36.67	ug/L	93
52) *Chlorobenzene-d5	14.80	117.0	146976	50.00	ug/L	91
54) Toluene-d8	12.08	98.0	168933	46.82	ug/L	94
67) Bromofluorobenzene	17.05	95.0	164524	42.85	ug/L	97
84) *1,4-Dichlorobenzene-d4	19.19	152.0	109648	50.00	ug/L	95

* Compound is ISTD

AT
3/16/99

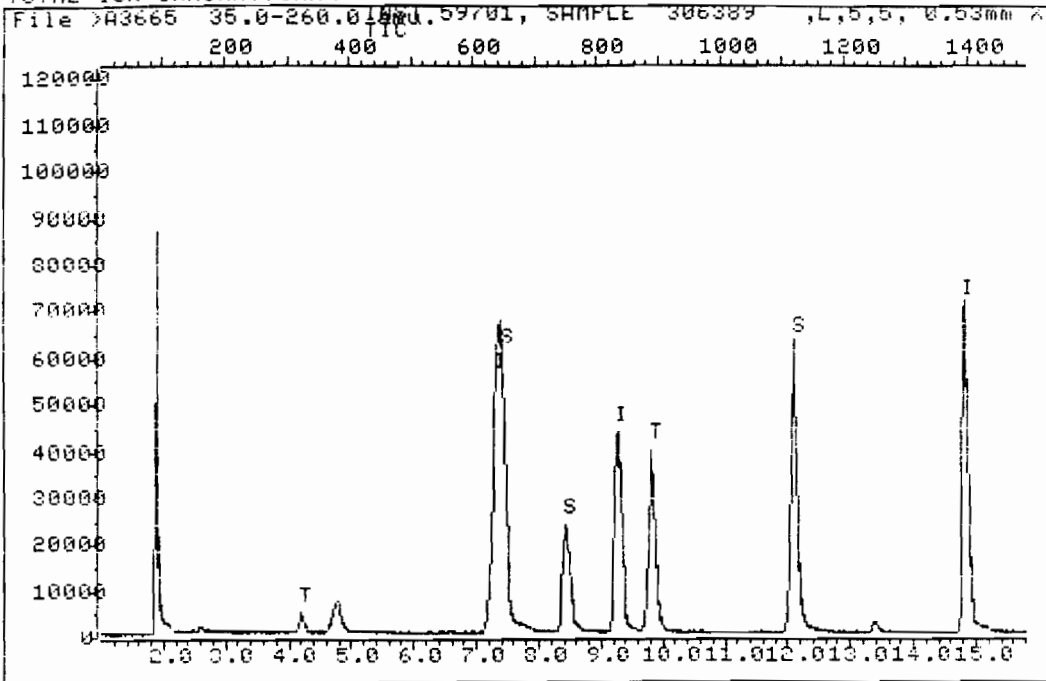
>A3685 INST 59701, SAMPLE 305389 ,L,5,5, 0.53mm X 75m DB-624
 35.01 260.0 TIC

Upslope: .1000 Area Reject: 5.00 % Max Peaks: 12 Bunch: 1 Valley >100 %
 Dnslope: -.0100 Results File VDJR78 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
<i>C O</i> 1	1.88	82	89	102	86545	274912	264413	31.85	6.041
2	4.75	363	379	403	6888	95993	65031	7.78	1.486
<i>S I</i> 3	7.36	616	643	665	67240	868258	835517	100.00	19.089
<i>S</i> 4	8.42	735	750	774	22810	215902	183459	21.96	4.192
<i>I</i> 5	9.26	813	835	863	43398	390970	360150	43.11	8.228
6	9.81 <i>T</i>	875	890	909	38705	320766	291049	34.83	6.650
<i>S</i> 7	12.07	1103	1119	1147	62889	482607	453211	54.24	10.355
<i>I</i> 8	14.81	1381	1396	1417	71277	470731	448582	53.69	10.249
<i>S</i> 9	17.05	1608	1622	1647	111317	695011	672659	80.51	15.569
<i>I</i> 10	19.20	1827	1839	1867	108442	669695	639528	76.54	14.611
<i>>10%</i> 11	19.69	1873	1888	1904	11625	142231	108902	13.03	2.488
<i><10%</i> 12	22.89	2198	2211	2227	6208	99691	54392	6.51	1.243

Sum of corrected areas: 4376893.

TOTAL ION CHROMATOGRAM

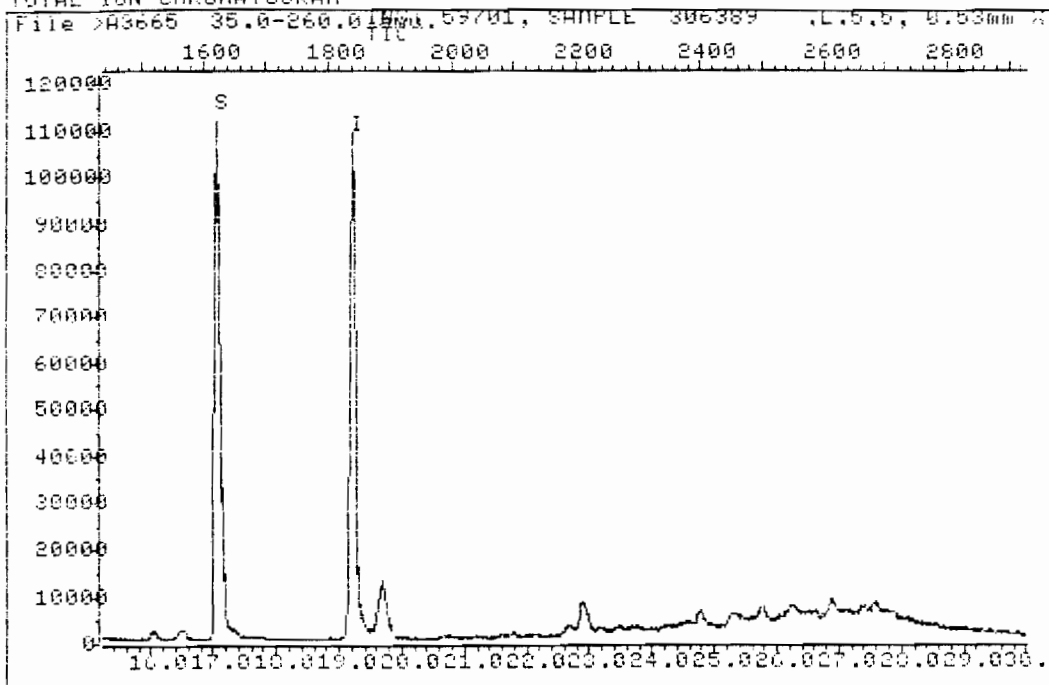


Data File: >A3665::B1 Quant Output File: ^A3665::X1
 Name: INST 59701, SAMPLE Instrument ID: INST "A"
 Misc: 306389 ,L,5,5, 0.53mm X 75m DB-624

Id File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990315 18:22 Last Qual Time: <none>

Operator ID: AT1446
 Quant Time : 990316 22:21
 Injected at: 990316 21:50

TOTAL ION CHROMATOGRAM

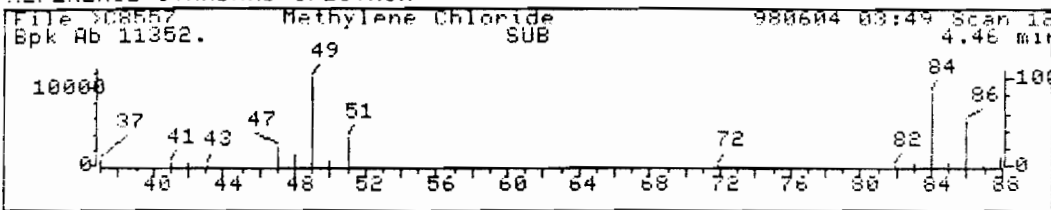


Data File: >A3665::B1 Quant Output File: ^A3665::X1
Name: INST 59701, SAMPLE Instrument ID: INST "A"
Misc: 306389 ,L,5,5, 0.53mm X 75m DB-624

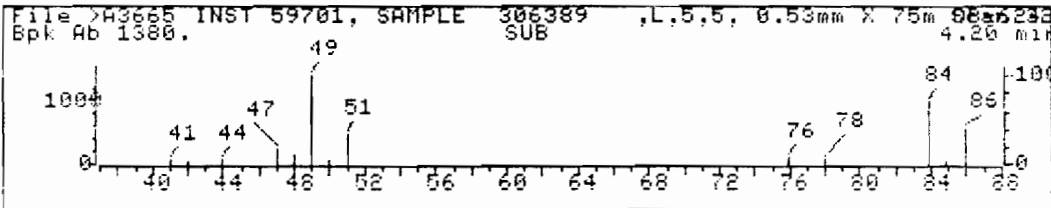
Id File: ID86AL::RS
Title: Method 8260B IDFILE
Last Calibration: 990315 18:22 Last Qual Time: <none>

Operator ID: AT1446
Quant Time : 990316 22:21
Injected at: 990316 21:50

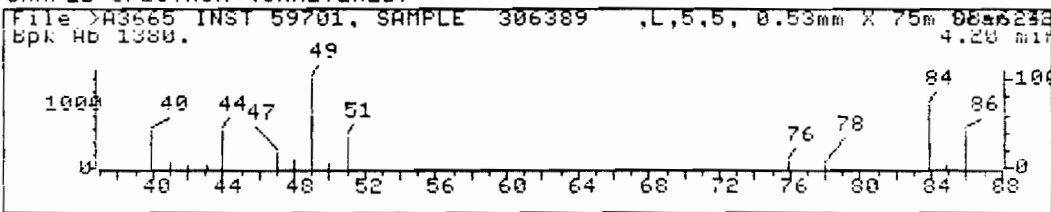
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



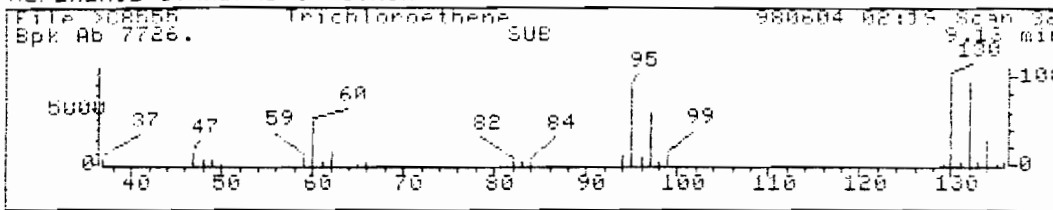
SAMPLE SPECTRUM (UNALTERED)



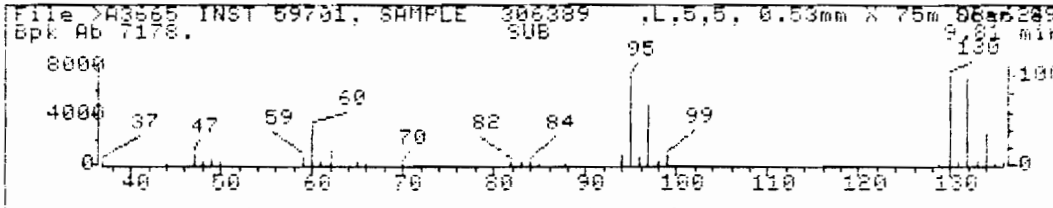
Data File: >A3665::B1 Quant Output File: >A3665::X1
 Name: INST 59701, SAMPLE Instrument ID: INST "A"
 Misc: 306389 ,L,5,5, 0.53mm X 75m DB-624
 Quant Time: 990316 22:21 Quant ID File: ID86AL::RS
 Injected at: 990316 21:50 Last Calibration: 990315 18:22
 Last Qcal Time: <none>

Compound No : 12
 Compound Name : Methylene Chloride
 Scan Number : 324
 Retention Time: 4.20 min.
 Quant Ion : 49.0
 Area : 8334
 Concentration : 4.42 ug/L
 q-value : 72

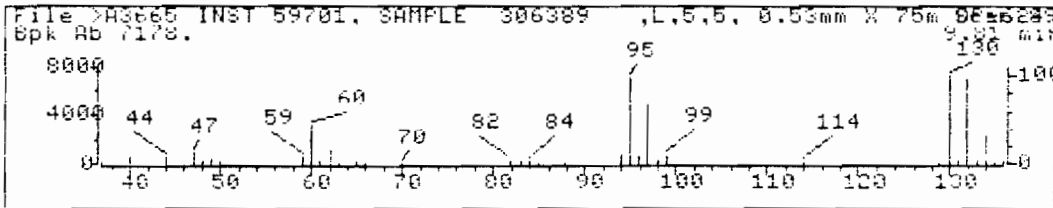
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >A3665::B1 Quant Output File: >A3665::X1
Name: INST 59701, SAMPLE Instrument ID: INST "A"
Misc: 306389 ,L,5,5, 0.53mm X 75m DB-624
Quant Time: 990316 22:21 Quant ID File: ID86AL::RS
Injected at: 990316 21:50 Last Calibration: 990315 18:22
Last Qual Time: <none>

Compound No : 37
Compound Name : Trichloroethene
Scan Number : 890
Retention Time: 9.81 min.
Quant Ion : 95.0
Area : 54945
Concentration : 36.67 ug/L
q-value : 93

ANALab, Inc. - Randolph Facility
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 973-584-0330, FAX: 973-584-0515
 MARCH 26, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

TARGET COMPOUND LIST - BASE/NEUTRAL FRACTION ANALYSIS BY GC/MS

Lab Number: 306389 Data File: >F4244
 Client: GCI
 Sample source: 960285
 Sample ID: MW-1A
 Sample date: 03/11/99 Extracted Date: 03/16/99
 Sampled by: Customer Analysis Date: 03/25/99 Column: 30m SPB-5
 At lab date: 03/15/99 Dilution Factor: 1
 Matrix: Water Init Sample volume= 1000ml Final volume= 1ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume*1000

Parameter	Result ug/l	Method Blank ug/l	Practical Quantitation Limit ug/l	Minimum Detection Limit ug/l
bis (2-Chloroethyl) ether	U	U	5	1
1,3-Dichlorobenzene	U	U	5	2.4
1,4-Dichlorobenzene	U	U	5	2.3
1,2-Dichlorobenzene	U	U	5	2.4
bis (2-Chloroisopropyl) ether	U	U	5	1.2
N-Nitroso-di-n-propylamine	U	U	5	1
Hexachloroethane	U	U	5	2.9
Nitrobenzene	U	U	5	1
Isophorone	U	U	5	1
bis (2-Chloroethoxy) methane	U	U	5	1
1,2,4-Trichlorobenzene	U	U	5	2.3
Naphthalene	U	U	5	2
4-Chloroaniline	U	U	5	1
Hexachlorobutadiene	U	U	5	1
2-Methylnaphthalene	U	U	5	2.1
Hexachlorocyclopentadiene	U	U	5	1.5
2-Chloronaphthalene	U	U	5	2
2-Nitroaniline	U	U	5	1
Dimethyl phthalate	U	U	5	4.6
Acenaphthylene	U	U	5	1.5
2,6-Dinitrotoluene	U	U	5	1
3-Nitroaniline	U	U	5	1
Acenaphthene	U	U	5	1.9
Dibenzofuran	U	U	5	1.5
2,4-Dinitrotoluene	U	U	5	1
Diethyl phthalate	U	U	5	2.3
4-Chlorophenyl phenyl ether	U	U	5	2
Fluorene	U	U	5	1.7
4-Nitroaniline	U	U	5	1
N-Nitrosodiphenylamine	U	U	5	1
4-Bromophenyl phenyl ether	U	U	5	1.9
Hexachlorobenzene	U	U	5	1.9
Phenanthrene	U	U	5	0.9
Anthracene	U	U	5	0.8

(continued on next page)

(continued from previous page)

Lab Number: 306389
Client: GCI

Data File: >F4244

Parameter	Result ug/l	Method Blank ug/l	Practical Quantitation Limit ug/l	Minimum Detection Limit ug/l
Di-n-butylphthalate	U	U	5	2.5
Fluoranthene	U	U	5	0.6
Pyrene	U	U	5	0.5
Butyl benzylphthalate	U	U	5	1.2
3,3'-Dichlorobenzidine	U	U	5	1
Benzo(a)anthracene	U	U	5	0.5
Chrysene	U	U	5	0.5
bis(2-Ethylhexyl)phthalate	U	U	5	3
Di-n-octylphthalate	U	U	5	1
Benzo(b)fluoranthene	U	U	5	0.7
Benzo(k)fluoranthene	U	U	5	0.7
Benzo(a)pyrene	U	U	5	0.5
Indeno(1,2,3-cd)pyrene	U	U	5	1.1
Dibenz(a,h)anthracene	U	U	5	0.5
Benzo(g,h,i)perylene	U	U	5	0.5
Carbazole	U	U	5	1

ug/l = micrograms/liter or ppb

ND: Not Determined.
IND: Indeterminable.

U: Indicates a compound was analyzed for but not detected at the PQL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

ANALab, Inc. - Randolph Facility
Thomas Mancuso, Lab Mgr.
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ANJ

Quantitation Report

Data File : F:\RTE\BNA\F42_D\F4244.D
 Acq Time : 25 MAR 99 4:46 PM Operator: AM9951
 Sample : ~~306589~~, ~~QCRT70~~ ~~P. 72416~~ Inst :
 Misc : 305475, ~~QCT8139~~ M SPB-5 CAP COLUMN Multiplr: 1.00
 Quant Time: Mar 23 23:06 1999

Method : C:\METHODS\CF4189.M
 Title : BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Mar 23 13:25:06 1999
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-Dichlorobenzene	7.56	152	63476	40.00	ng/uL	-0.03
21) d8-Naphthalene	10.10	136	240035	40.00	ng/uL	-0.05
33) d10-Acenaphthene	13.84	164	117373	40.00	ng/uL	-0.05
57) d10-Phenanthrene	16.97	188	365233	40.00	ng/uL	-0.06
66) d12-Chrysene	22.69	240	326837	40.00	ng/uL	-0.07
75) d12-Perylene	25.91	264	212770	40.00	ng/uL	-0.08

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
4) 2-Fluorophenol	0.00	112	0	0.00	ng/uL	0.00%
6) Phenol-d6	7.19	99	290	0.15	ng/uL	0.07%
19) Nitobenzene-d5	8.73	82	166719	78.54	ng/uL	78.54%
37) 2-Fluorobiphenyl	12.45	172	360481	83.12	ng/uL	83.12%
56) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng/uL	0.00%
69) Terphenyl-d14	20.47	244	580391	71.30	ng/uL	71.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
17) n-Nitosodipropyl Amine } 16G	8.73	70	25092	18.78	ng/uL#	48
42) 2,6-Dinitrotoluene (42G) } <i>A. m</i>	13.84	165	14677	9.05	ng/uL#	72

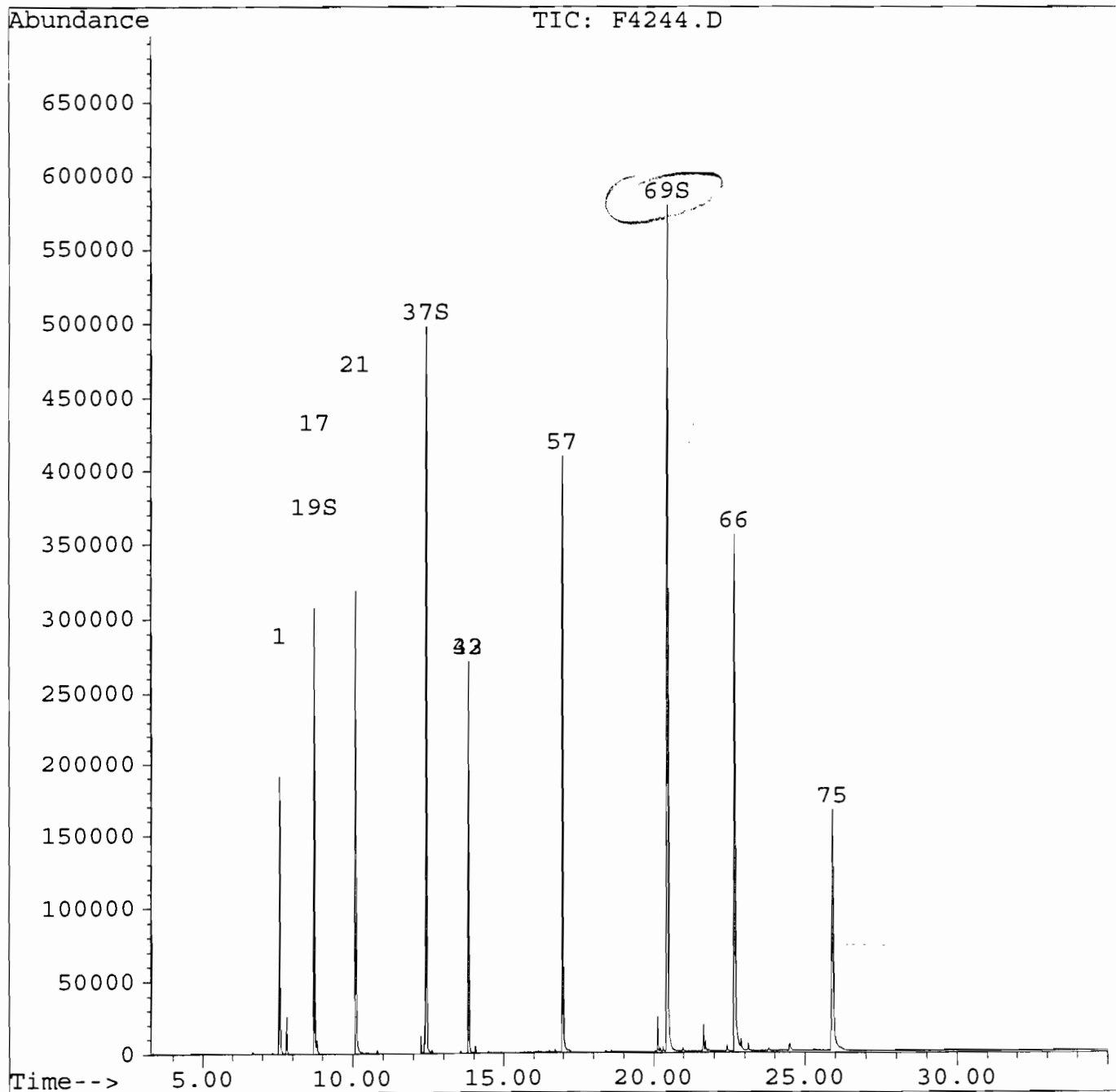
3/26

31

Quantitation Report

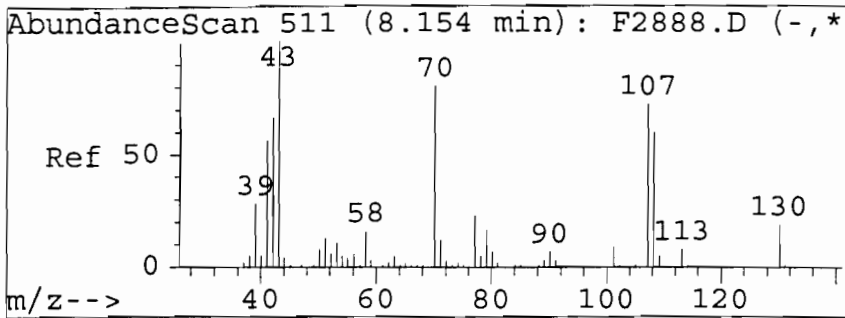
Data File : F:\RTE\BNA\F42_D\F4244.D
Acq Time : Data Taken: 3/25/99 @ 16:46 Operator: AM9951
Sample : 306389, QCT8170 Inst :
Misc : 305475, QCT8139 M SPB-5 CAP COLUMN Multiplr: 1.00
Quant Time: Mar 23 23:06 1999

Method : C:\METHODS\CF4189.M
Title : BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Mar 23 13:25:06 1999
Response via : Multiple Level Calibration

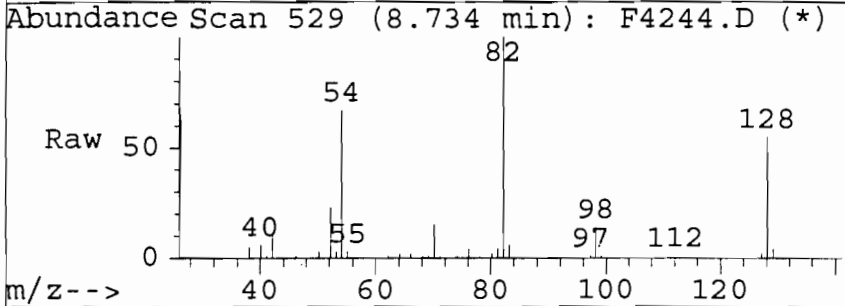


60 32

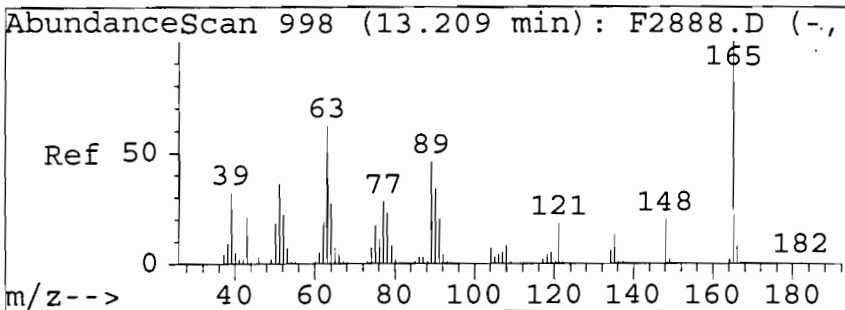
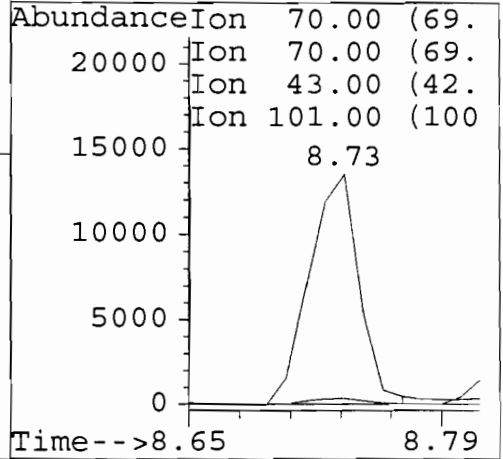
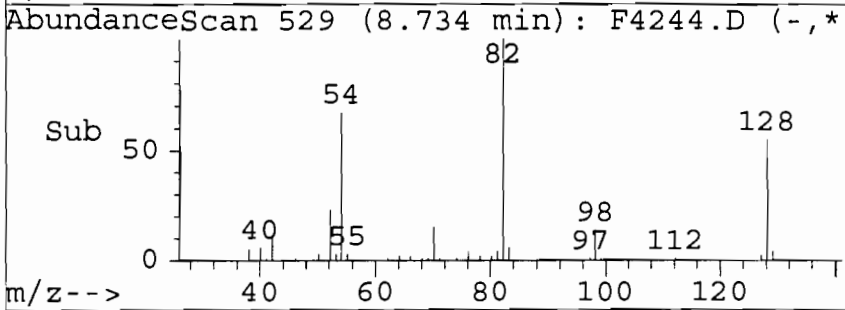
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	3.353	rVB	0.083	2184	3.332	3.415
2	3.570	rVB	0.114	3404	3.539	3.653
3	5.226	rVB	0.104	2038	5.175	5.278
4	6.675	rBB	0.083	3278	6.654	6.737
5	7.337	rBB	0.083	1849	7.295	7.378
6	7.564	rBV	0.187	369112	7.523	7.710
7	7.803	rVB	0.145	44423	7.772	7.917
8	8.734	rBV	0.083	568571	8.682	8.765
9	8.817	rVB	0.124	20370	8.786	8.910
10	10.100	rBV	0.218	607634	10.059	10.277
11	10.815	rBV	0.072	3943	10.784	10.856
12	12.253	rVB	0.073	18130	12.222	12.295
13	12.388	rBV	0.062	33236	12.347	12.409
14	12.451	rVB	0.083	1022736	12.409	12.492
15	12.616	rVB	0.104	4247	12.585	12.689
16	13.558	rBV	0.104	2675	13.538	13.641
17	13.838	rBV	0.218	491567	13.786	14.004
18	14.045	rVV	0.083	7440	14.004	14.086
19	14.490	rVB	0.072	2151	14.459	14.531
20	16.074	rVV	0.083	1845	16.032	16.115
21	16.146	rVV	0.083	2078	16.115	16.198
22	16.529	rBV	0.072	2883	16.498	16.570
23	16.715	rBV	0.083	3889	16.684	16.767
24	16.974	rBV	0.218	888343	16.922	17.140
25	18.589	rBV	0.062	2015	18.558	18.620
26	20.131	rBV	0.093	42650	20.100	20.194
27	20.214	rVB	0.062	5032	20.194	20.256
28	20.308	rBV	0.124	6454	20.277	20.401
29	20.474	rBV	0.291	1664551	20.401	20.692
30	20.982	rVB	0.093	5368	20.951	21.044
31	21.645	rVV	0.073	31901	21.613	21.686
32	21.717	rVV	0.093	13816	21.686	21.779
33	21.810	rVB	0.072	2182	21.779	21.852
34	22.431	rBV	0.135	11368	22.380	22.514
35	22.691	rBV	0.239	929663	22.618	22.857
36	22.888	rVB	0.114	18860	22.857	22.971
37	23.116	rBV	0.114	10948	23.085	23.199
38	23.799	rBV	0.093	5143	23.757	23.851
39	24.503	rBV	0.124	15326	24.451	24.575
40	25.911	rBV	0.332	633492	25.817	26.150



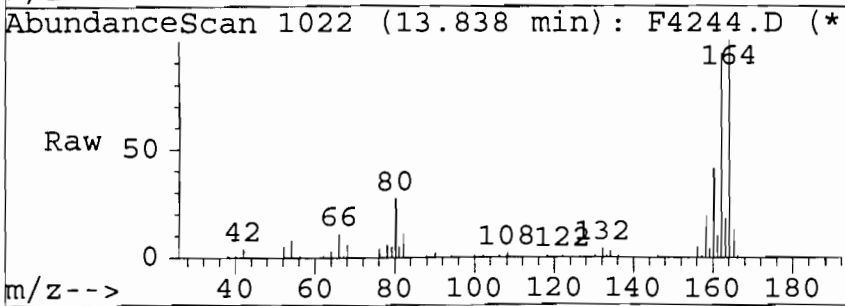
#17
 n-Nitosodipropyl Amine(16G)
 Concen: 18.78 ng/uL
 RT: 8.73 min Scan# 529
 Delta R.T. 0.18 min
 Lab File: F4244.D
 Acq: 3/25/99 @ 16:46



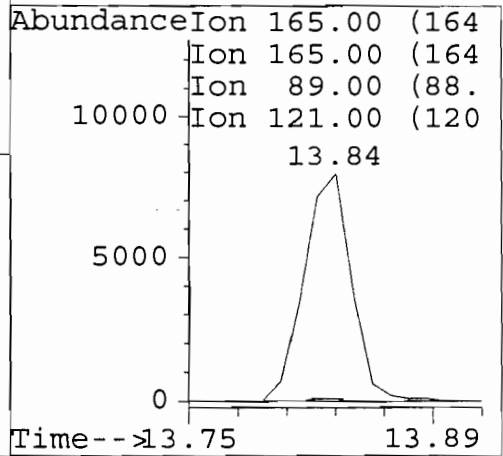
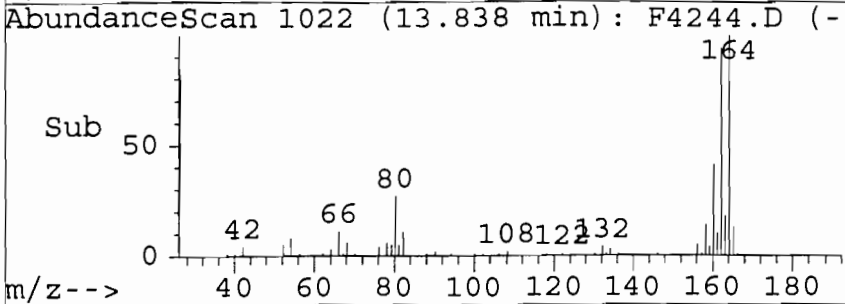
Tgt Ion	Ratio	Lower	Upper
70	100		
70	100.0	80.0	120.0
43	0.0	87.5	127.5#
101	0.0	0.0	30.4



#42
 2,6-Dinitrotoluene(42G)
 Concen: 9.05 ng/uL
 RT: 13.84 min Scan# 1022
 Delta R.T. 0.21 min
 Lab File: F4244.D
 Acq: 3/25/99 @ 16:46



Tgt Ion	Ratio	Lower	Upper
165	100		
165	100.0	80.0	120.0
89	0.0	33.6	73.6#
121	0.0	0.0	38.6



34

ANALab, Inc. - Randolph Facility
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
APRIL 6, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 306389
Client: GCI
Sample source: 960285
Sample ID: MW-1A
Sample date: 03/11/99
Sampled by: Customer
At lab date: 03/15/99
Matrix: WATER
Results in mg/l (ppm).

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Dilution Factor	Analysis Date
Arsenic	U	U	0.004	1	03/30/99
Barium	0.078	U	0.005	1	03/30/99
Cadmium	U	U	0.005	1	03/30/99
Chromium	U	U	0.005	1	03/30/99
Lead	U	U	0.004	1	03/30/99
Mercury	U	U	0.0002	1	03/24/99
Selenium	U	U	0.004	1	03/30/99
Silver	U	U	0.005	1	03/30/99

U = Not Detected

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ROB

ANALab, Inc. - Randolph Facility
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515

Certified for: NJ, PA, DE, CT, NY (DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PETROLEUM HYDROCARBONS

Client: GCI
Sample Source: 960285
Sample Date: 03/11/99
Sampled by: Customer
At Lab Date: 03/15/99
Sample Matrix: WATER

ab No.	SAMPLE ID	DILUTION FACTOR	RESULT mg/l	METHOD BLANK	MINIMUM	ANALYSIS DATE	EXTRACTION DATE
					DETECTION LIMIT mg/l		
06389	MW-1A	1	U	U	0.5	03/17/99	03/17/99

U = Not detected

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KAT

ANALab, Inc. - Randolph Facility
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 Randolph, NJ 07869
 973-584-0330, FAX: 973-584-0515
 MARCH 29, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

TARGET COMPOUND LIST - VOLATILE ANALYSIS BY GC/MS

Lab Number: 306390 Data File: >A3688
 Client: GCI
 Sample source: 960285
 Sample ID: DW-1
 Sample date: 03/11/99
 Sampled by: Customer Analysis Date: 03/17/99 Column: DB-624
 At lab date: 03/15/99 Dilution Factor: 1
 Matrix: Soil Init Sample Wght= 5g Final volume= 5ml

Percent Moisture: 31.1%
 Initial sample weight DWB= 3.445g

Conc. in Sample = (Conc. on Quant Report/Initial Sample Weight DWB)*Final Volume

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
Chloromethane	U	U	7.3	6.7
Bromomethane	U	U	7.3	5.5
Vinyl chloride	U	U	7.3	2.5
Chloroethane	U	U	7.3	2.6
Methylene chloride	U	U	7.3	3.9
Acetone	U	U	29	6.5
Carbon disulfide	U	U	7.3	2.5
1,1-Dichloroethene	U	U	7.3	2.5
1,1-Dichloroethane	U	U	7.3	2
trans-1,2-Dichloroethene	U	U	7.3	2.5
cis-1,2-Dichloroethene	U	U	7.3	2.5
Chloroform	U	U	7.3	2.3
1,2-Dichloroethane	U	U	7.3	2.8
2-Butanone	U	U	29	3.5
1,1,1-Trichloroethane	U	U	7.3	0.73
Carbon tetrachloride	U	U	7.3	0.87
Bromodichloromethane	U	U	7.3	0.87
1,2-Dichloropropane	U	U	7.3	0.87
cis-1,3-Dichloropropene	U	U	7.3	0.73
Trichloroethene	U	U	7.3	0.87
Dibromochloromethane	U	U	7.3	0.87
1,1,2-Trichloroethane	U	U	7.3	0.73
Benzene	U	U	7.3	0.73
trans-1,3-Dichloropropene	U	U	7.3	0.87
Bromoform	U	U	7.3	1.2
4-Methyl-2-pentanone	U	U	29	1.6
2-Hexanone	U	U	29	1.7
Tetrachloroethene	U	U	7.3	1
1,1,2,2-Tetrachloroethane	U	U	7.3	0.73
Toluene	U	U	7.3	1.2
Chlorobenzene	U	U	7.3	0.87
Ethylbenzene	U	U	7.3	1
Styrene	U	U	7.3	1.5
p&m-Xylene	U	U	7.3	1.3
o-Xylene	U	U	7.3	1.3
total Xylenes	U	U	7.3	1.3

ug/kg = micrograms/kilogram or ppb

Results are in ug/kg (ppb); they are reported on a dry weight basis.

ND: Not Determined.

IND: Indeterminable.

U: Indicates a compound was analyzed for but not detected at the PQL.

J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.

B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

QUANT REPORT

Operator ID: AT1446
 Output File: >A3688::K1
 Data File: >A3688::C1
 Name: INST 59701 SAMPLE
 Misc: 306390 ,S,5,5 ,0.53mm x75m db-624

Quant Rev: 7 Quant Time: 990317 19:55
 Injected at: 990317 19:24
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990312 14:07

Last Qual Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *Pentafluorobenzene	7.32	168.0	161668	50.00	ug/L	92
26) Dibromofluoromethane	7.42	113.0	106512M	53.57	ug/L	
28) 1,2-Dichloroethane-d4	8.45	65.0	521873/18/	49.41	ug/L	86
32) *1,4-Difluorobenzene	9.27	114.0	149243	50.00	ug/L	99
52) *Chlorobenzene-d5	14.81	117.0	137016	50.00	ug/L	94
54) Toluene-d8	12.08	98.0	139466	50.64	ug/L	93
67) Bromofluorobenzene	17.05	95.0	125350	45.07	ug/L	95
84) *1,4-Dichlorobenzene-d4	19.19	152.0	93009	50.00	ug/L	93

* Compound is ISTD

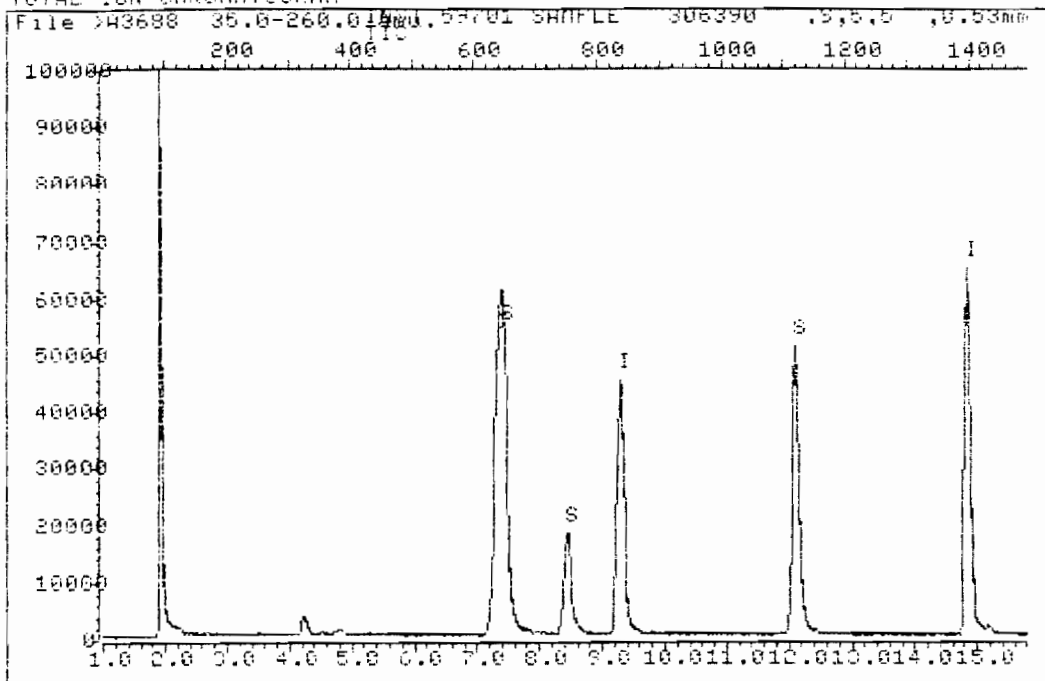
AT
 3/17/99

A3688 INST 59701 SAMPLE 306390 ,S,S,S ,0.53mm x75m db-624
 35.01 260.0 TIC
 Upslope: .1000 Area Reject: 5.00 % Max Peaks: 8 Bunch: 1 Valley >100 %
 Dnslope: -.0100 Results File VDIR78 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
<i>CO2</i> 1	1.91	87	93	104	105837	303007	292642	37.86	8.600
<i>S&I</i> 2	7.39	618	647	671	60755	808090	772941	100.00	22.715
<i>S</i> 3	8.43	737	752	779	17506	175943	144621	18.71	4.250
<i>I</i> 4	9.27	820	837	866	44674	388616	355387	45.98	10.444
<i>S</i> 5	12.08	1107	1121	1146	50600	401598	370502	47.93	10.888
<i>I</i> 6	14.81	1384	1397	1415	64574	427340	409686	53.00	12.040
<i>S</i> 7	17.05	1605	1623	1650	84268	541769	517983	67.01	15.222
<i>I</i> 8	19.20	1827	1840	1866	90997	565294	539002	69.73	15.840

Sum of corrected areas: 3402764.

TOTAL ION CHROMATOGRAM

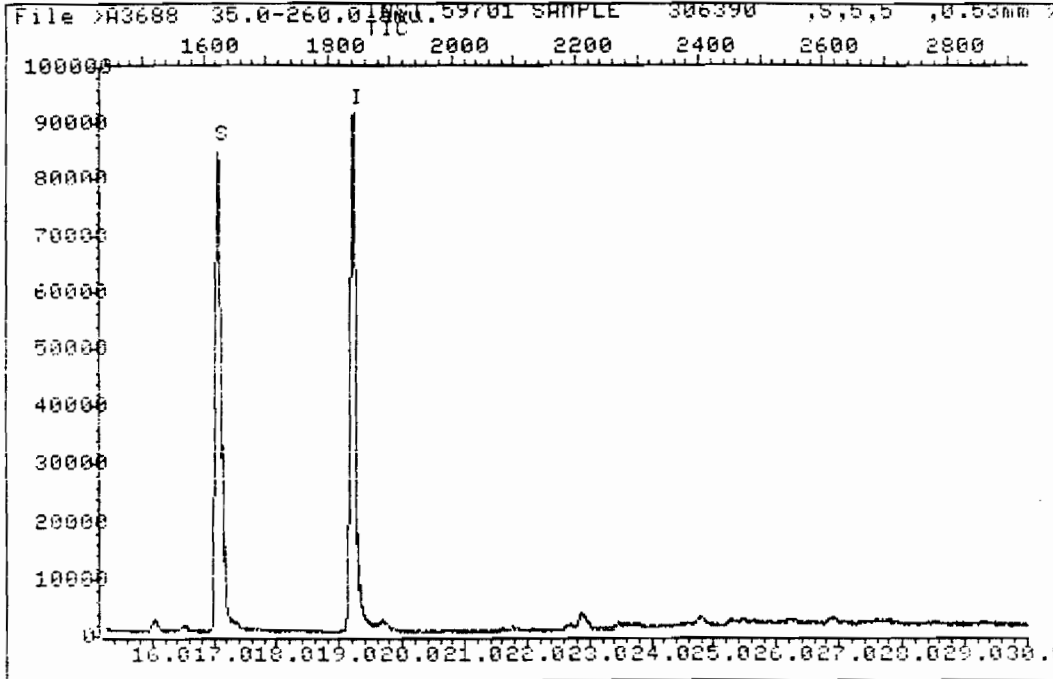


Data File: >A3688::C1 Quant Output File: >A3688::X1
Name: INST 59701 SAMPLE Instrument ID: INST "A"
Misc: 306390 ,S,S,S ,0.53mm x75m db-624

Id File: ID86AS::RS
Title: Method 8260B IDFILE
Last Calibration: 990312 14:07 Last Goal Time: <none>

Operator ID: AT1446
Quant Time : 990317 19:55
Injected at: 990317 19:24

TOTAL ION CHROMATOGRAM



Data File: >A3688::D1 Quant Output File: >A3688::M1
 Name: INST 59701 SAMPLE Instrument ID: INST "A"
 Misc: 306390 ,S,5,5 ,0.53mm x75m db-624

Id File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990312 14:07 Last Cal Time: <none>

Operator ID: AT1446
 Quant Time : 990317 19:55
 Injected at: 990317 19:24

ANALab, Inc. - Randolph Facility
 1152 Route 10
 Randolph, NJ 07869
 973-584-0330, FAX: 973-584-0515
 MARCH 29, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

TARGET COMPOUND LIST - BASE/NEUTRAL FRACTION ANALYSIS BY GC/MS

Lab Number: 306390 Data File: >F4278
 Client: GCI
 Sample source: 960285
 Sample ID: DW-1
 Sample date: 03/11/99 Extracted Date: 03/19/99
 Sampled by: Customer Analysis Date: 03/29/99 Column: 30m SPB-5
 At lab date: 03/15/99 Dilution Factor: 1
 Matrix: Soil Init Sample Wght= 30.00g Final volume= 1ml Percent Moisture: 31.1%
 Initial sample weight DWB= 20.67g

Conc. in Sample = (Conc. on Quant Report/Initial Sample Weight DWB)*Final Volume*1000

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
bis(2-Chloroethyl) ether	U	U	240	48
1,3-Dichlorobenzene	U	U	240	120
1,4-Dichlorobenzene	U	U	240	110
1,2-Dichlorobenzene	U	U	240	120
bis(2-Chloroisopropyl) ether	U	U	240	58
N-Nitroso-di-n-propylamine	U	U	240	48
Hexachloroethane	U	U	240	140
Nitrobenzene	U	U	240	48
Isophorone	U	U	240	48
bis(2-Chloroethoxy)methane	U	U	240	48
1,2,4-Trichlorobenzene	U	U	240	110
Naphthalene	U	U	240	97
4-Chloroaniline	U	U	240	48
Hexachlorobutadiene	U	U	240	48
2-Methylnaphthalene	U	U	240	100
Hexachlorocyclopentadiene	U	U	240	73
2-Chloronaphthalene	U	U	240	97
2-Nitroaniline	U	U	240	48
Dimethyl phthalate	U	U	240	220
Acenaphthylene	U	U	240	73
2,6-Dinitrotoluene	U	U	240	48
3-Nitroaniline	U	U	240	48
Acenaphthene	37J	U	240	92
Dibenzofuran	U	U	240	73
2,4-Dinitrotoluene	U	U	240	48
Diethyl phthalate	U	U	240	110
4-Chlorophenyl phenyl ether	U	U	240	97
Fluorene	58J	U	240	82
4-Nitroaniline	U	U	240	48
N-Nitrosodiphenylamine	U	U	240	48
4-Bromophenyl phenyl ether	U	U	240	92
Hexachlorobenzene	U	U	240	92
Phenanthrene	420	U	240	44
Anthracene	59J	U	240	39

(continued on next page)

(continued from previous page)

Lab Number: 306390
Client: GCI

Data File: >F4278

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
Di-n-butylphthalate	U	U	240	120
Fluoranthene	440	U	240	29
Pyrene	660	U	240	24
Butyl benzylphthalate	U	U	240	58
3,3'-Dichlorobenzidine	U	U	240	48
Benzo(a)anthracene	170J	U	240	24
Chrysene	230J	U	240	24
bis(2-Ethylhexyl)phthalate	360	U	240	150
Di-n-octylphthalate	80J	U	240	48
Benzo(b)fluoranthene	140J	U	240	34
Benzo(k)fluoranthene	190J	U	240	34
Benzo(a)pyrene	130J	U	240	24
Indeno(1,2,3-cd)pyrene	71J	U	240	53
Dibenz(a,h)anthracene	U	U	240	24
Benzo(g,h,i)perylene	85J	U	240	24
Carbazole	59J	U	240	48

ug/kg = micrograms/kilogram or ppb
Results are in ug/kg (ppb); they are reported on a dry weight basis.

ND: Not Determined.
IND: Indeterminable.

U: Indicates a compound was analyzed for but not detected at the PQL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

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LOU

Quantitation Report

Data File : F:\RTE\BNA\F42_D\F4278.D

Acq Time : 29 MAR 99 2:42 PM

Operator: AM9951

Sample :

Inst :

Misc : 306390, QC8167 M SPB-5 CAP COLUMN

Multiplr: 1.00

Quant Time: Mar 24 3:10 1999

Method : C:\METHODS\CF4189.M

Title : BNA STANDARDS FOR 5 POINT CALIBRATION

Last Update : Tue Mar 23 13:25:06 1999

Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-Dichlorobenzene	7.52	152	56075	40.00	ng/uL	-0.08
21) d8-Naphthalene	10.05	136	229446	40.00	ng/uL	-0.10
33) d10-Acenaphthene	13.78	164	106172	40.00	ng/uL	-0.12
57) d10-Phenanthrene	16.91	188	292700	40.00	ng/uL	-0.12
66) d12-Chrysene	22.62	240	108775	40.00	ng/uL	-0.14
75) d12-Perylene	25.81	264	46263	40.00	ng/uL	-0.19

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
4) 2-Fluorophenol	5.38	112	202457	146.80	ng/uL	73.40%
6) Phenol-d6	7.39	99	27	0.02	ng/uL	0.01%
19) Nitobenzene-d5	8.67	82	142831	76.17	ng/uL	76.17%
37) 2-Fluorobiphenyl	12.39	172	258783	65.97	ng/uL	65.97%
56) 2,4,6-Tribromophenol	15.50	330	90420	110.57	ng/uL	55.29%
69) Terphenyl-d14	20.39	244	170315	62.87	ng/uL	62.87%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) n-Nitrosodimethylamine	3.30	74	566	0.65	ng/uL#	100
17) n-Nitrosodipropyl Amine (16G)	8.67	70	21543	18.25	ng/uL#	48
42) 2,6-Dinitrotoluene (42G)	13.78	165	13865	9.45	ng/uL#	72
43) Acenaphthene (44G)	13.84	153	3062	0.76	ng/uL#	82
49) Fluorene (51G)	14.92	166	4801	1.20	ng/uL#	54
54) n-Nitrosodiphenyl Amine (56)	15.51	169	3492	1.19	ng/uL#	25
61) Phenanthrene (61G)	16.96	178	61788	8.59	ng/uL#	90
62) Anthracene (62G)	17.06	178	8994	1.22	ng/uLm	90
63) Carbazole (21S)	17.46	167	8085	1.21	ng/uL#	89
65) Fluoranthene (64G)	19.51	202	74871	9.16	ng/uL#	94
68) Pyrene (67G)	19.98	202	57380	13.55	ng/uL	97
70) Butylbenzyl Phthalate (69G)	21.54	149	1090	0.52	ng/uL#	69
71) Benzo- (a) -Anthracene (71G)	22.57	228	12294	3.54	ng/uLm	89
73) Chrysene (72G)	22.67	228	17184	4.84	ng/uL#	88
74) Bis (2-Ethylhexyl) Phthala	22.82	149	20387	7.42	ng/uL	98
76) Di-n-Octyl Phthalate (75G)	24.11	149	4796	1.65	ng/uL	96
77) Benzo- (b) -Fluoranthene (76G)	24.89	252	5071	2.92	ng/uLm	94
78) Benzo- (k) -Fluoranthene (77G)	24.92	252	7242	3.97	ng/uL	94
79) Benzo- (a) -Pyrene (78G)	25.66	252	4012	2.66	ng/uL	97
80) Indeno- (1,2,3-cd) -Pyrene (7	29.07	276	1421	1.46	ng/uL#	90
82) Benzo- (g,h,i) - Perylene (81	30.04	276	1316	1.76	ng/uLm	83

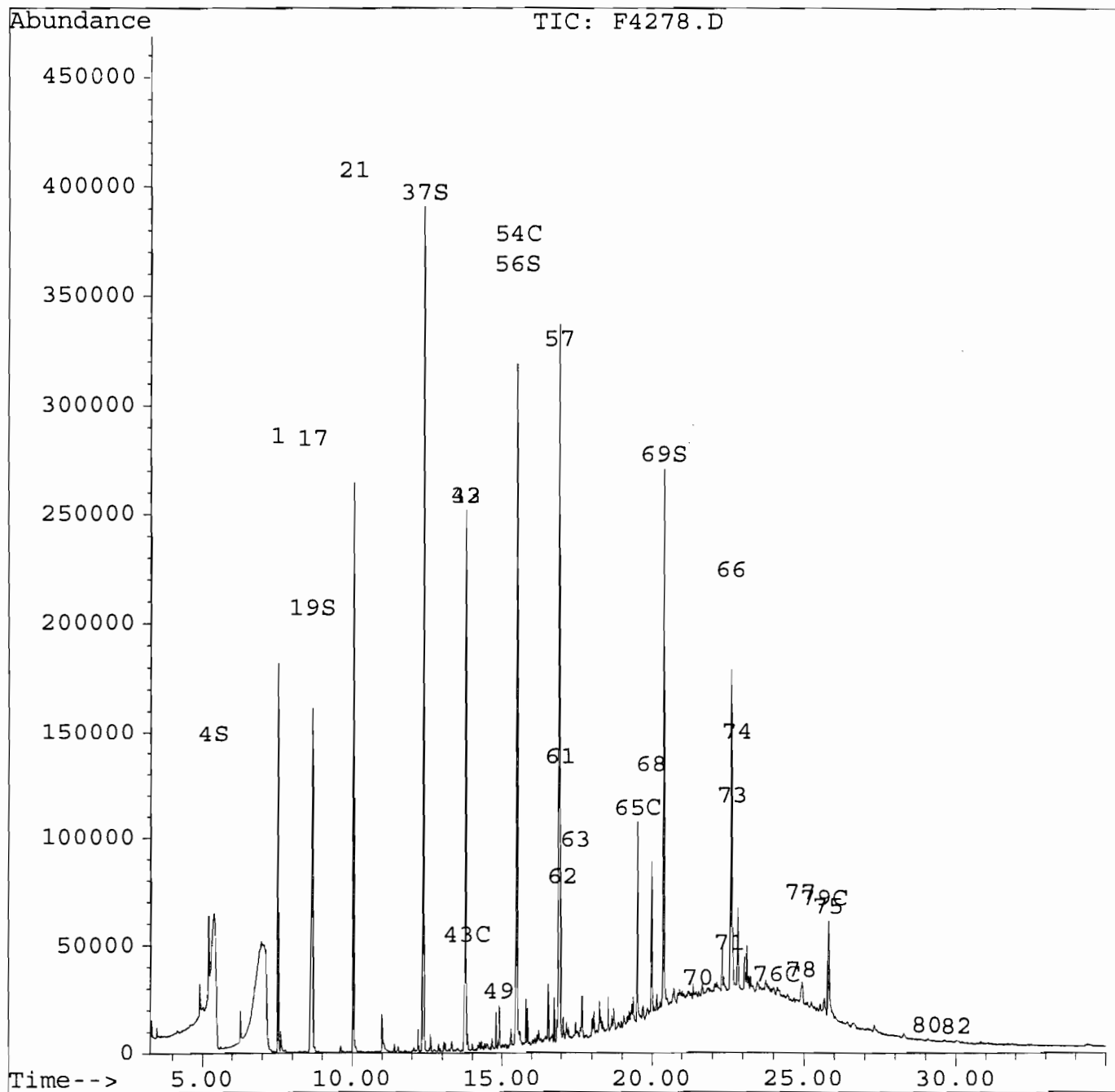
(#) = qualifier out of range (m) = manual integration

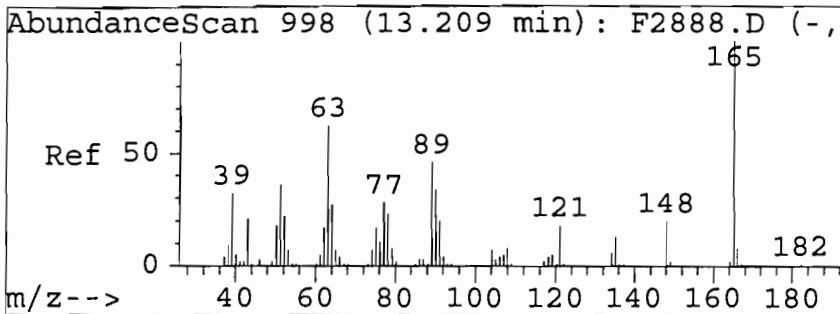
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	4.898	rBV	0.073	25680	4.878	4.950
2	5.200	rBV	0.062	65156	5.168	5.231
3	6.257	rBV	0.124	28885	6.226	6.350
4	7.522	rBV	0.104	329322	7.481	7.584
5	7.605	rVV	0.135	21960	7.584	7.719
6	8.671	rVV	0.218	478686	8.526	8.744
7	10.048	rBV	0.125	483654	9.976	10.100
8	10.990	rBV	0.093	41552	10.970	11.063
9	12.202	rVB	0.093	18914	12.150	12.243
10	12.336	rBV	0.052	23003	12.295	12.347
11	12.389	rVB	0.083	730644	12.347	12.430
12	13.776	rVV	0.125	470045	13.693	13.818
13	14.803	rVB	0.062	23575	14.771	14.834
14	14.917	rVB	0.093	34505	14.885	14.979
15	15.498	rBV	0.177	786029	15.404	15.581
16	15.810	rBV	0.073	31391	15.758	15.831
17	15.862	rVV	0.062	25795	15.831	15.893
18	16.568	rVV	0.083	54492	16.516	16.599
19	16.765	rVB	0.062	28999	16.734	16.796
20	16.859	rBV	0.052	19113	16.817	16.869
21	16.921	rVV	0.073	722379	16.869	16.942
22	16.963	rVV	0.073	141871	16.942	17.015
23	17.057	rVB	0.094	22826	17.015	17.109
24	17.161	rBV	0.083	21519	17.109	17.192
25	17.670	rVB	0.083	29590	17.649	17.733
26	18.065	rVB	0.073	20673	18.034	18.107
27	18.252	rBV	0.063	29824	18.211	18.273
28	18.544	rVB	0.062	24355	18.513	18.575
29	18.721	rVB	0.094	25255	18.690	18.783
30	19.367	rVB	0.073	20587	19.346	19.419
31	19.513	rBV	0.136	193318	19.471	19.607
32	19.701	rVB	0.104	19839	19.659	19.763
33	19.982	rVB	0.104	157638	19.940	20.045
34	20.390	rVB	0.126	502432	20.348	20.473
35	22.312	rBV	0.063	36899	22.280	22.343
36	22.615	rBV	0.116	372207	22.542	22.657
37	22.835	rVB	0.094	73923	22.793	22.887
38	23.055	rBV	0.073	30838	23.023	23.096
39	23.128	rVB	0.063	31877	23.096	23.159
40	25.810	rVB	0.178	135643	25.758	25.936

Quantitation Report

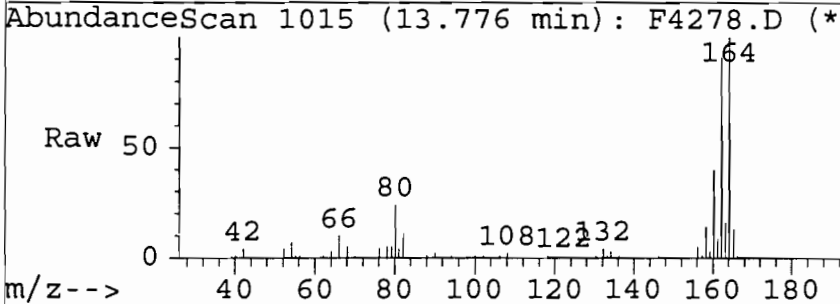
Data File : F:\RTE\BNA\F42_D\F4278.D
Acq Time : Data Taken: 3/29/99 @ 14:42 Operator: AM9951
Sample : Inst :
Misc : 306390, QC8167 M SPB-5 CAP COLUMN Multiplr: 1.00
Quant Time: Mar 24 3:10 1999

Method : C:\METHODS\CF4189.M
Title : BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Mar 23 13:25:06 1999
Response via : Multiple Level Calibration

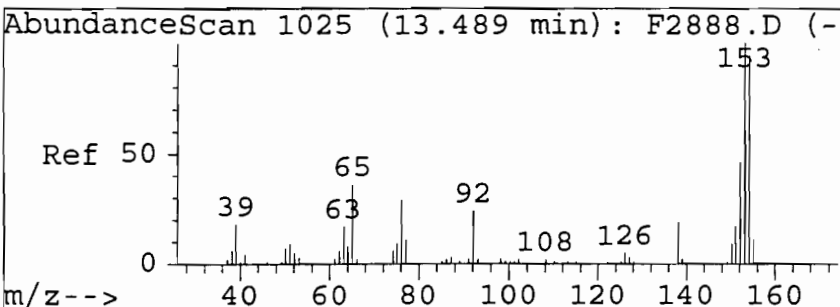
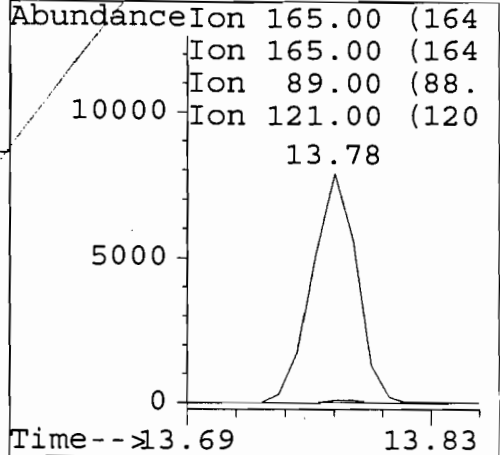
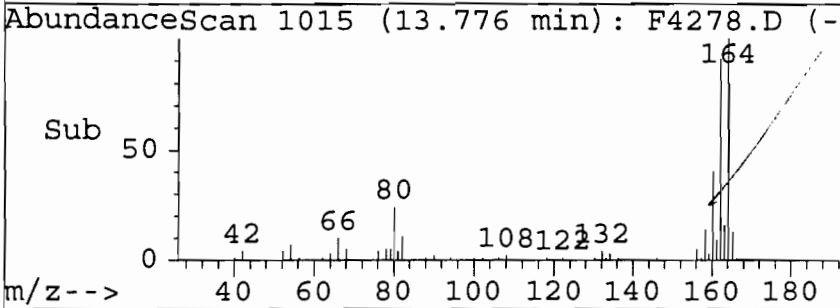




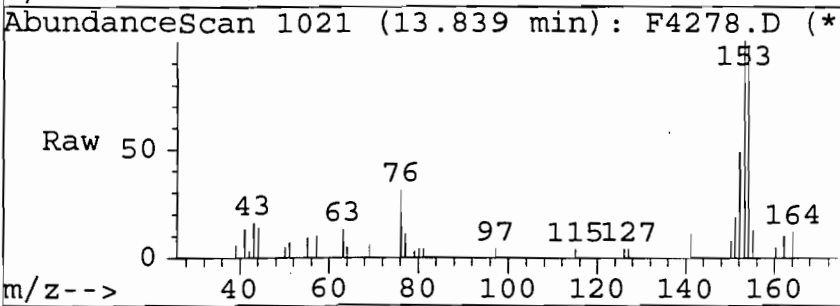
#42
 2,6-Dinitrotoluene(42G)
 Concen: 9.45 ng/uL
 RT: 13.78 min Scan# 1015
 Delta R.T. 0.14 min
 Lab File: F4278.D
 Acq: 3/29/99 @ 14:42



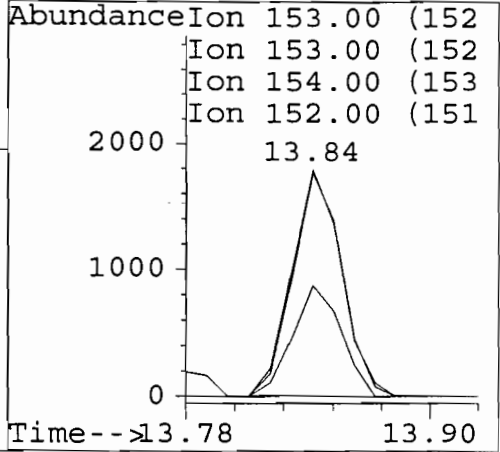
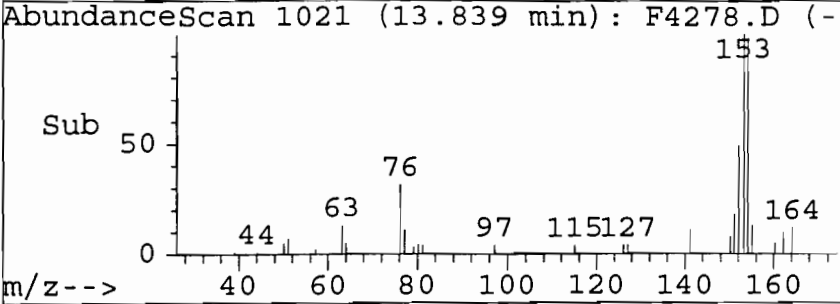
Tgt Ion	Ratio	Lower	Upper	Resp
165	100			13865
165	100.0	80.0	120.0	
89	0.7	33.6	73.6#	
121	0.0	0.0	38.6	

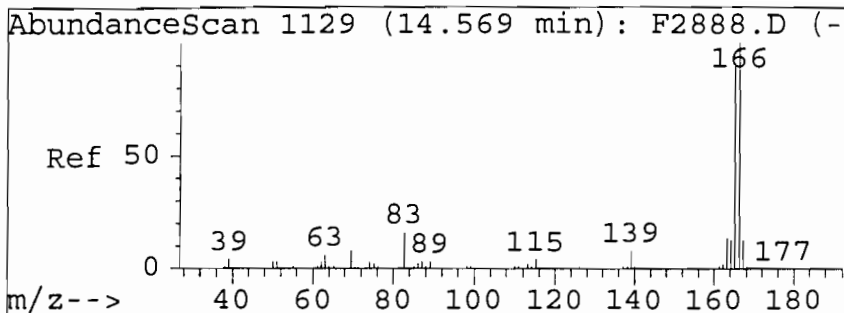


#43
 Acenaphthene(44G)
 Concen: 0.76 ng/uL
 RT: 13.84 min Scan# 1021
 Delta R.T. -0.12 min
 Lab File: F4278.D
 Acq: 3/29/99 @ 14:42



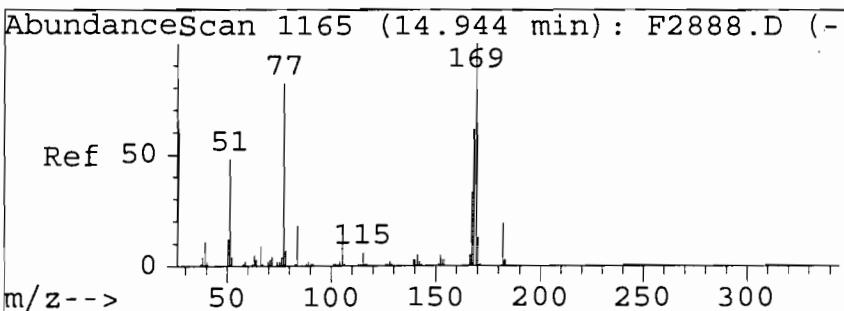
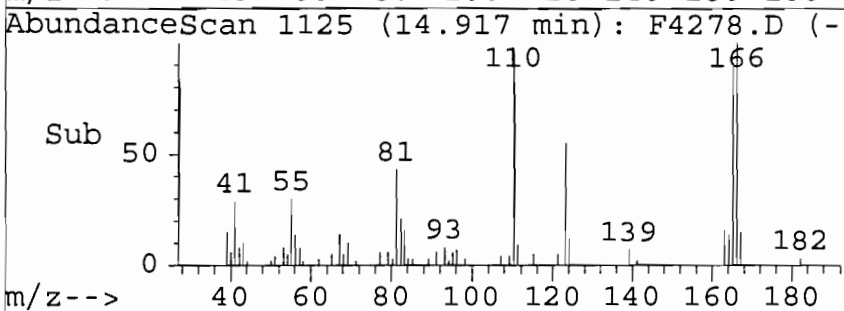
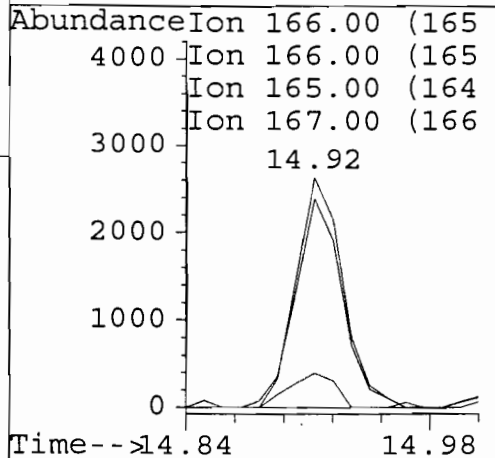
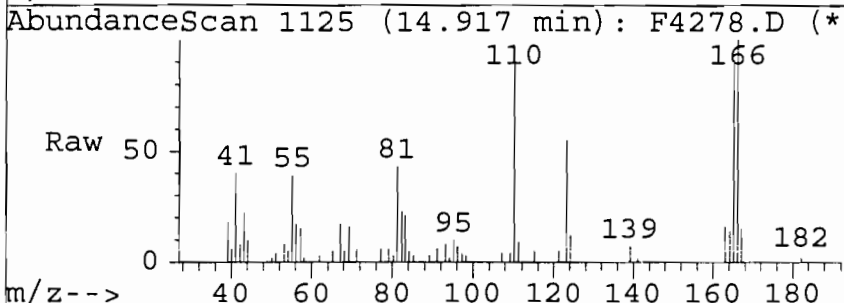
Tgt Ion	Ratio	Lower	Upper	Resp
153	100			3062
153	100.0	50.0	150.0	
154	97.5	38.7	138.7	
152	0.0	0.0	98.6	





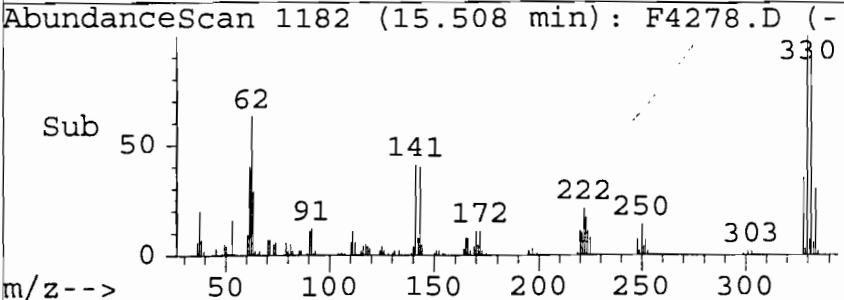
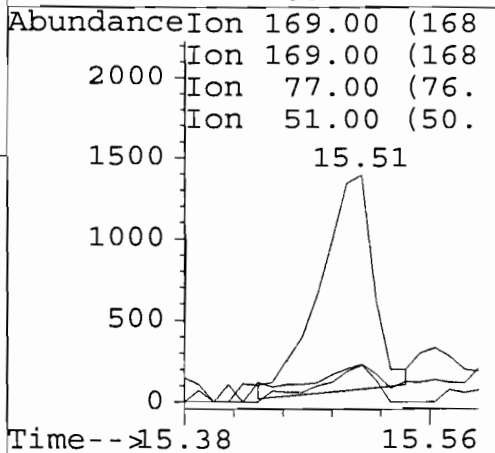
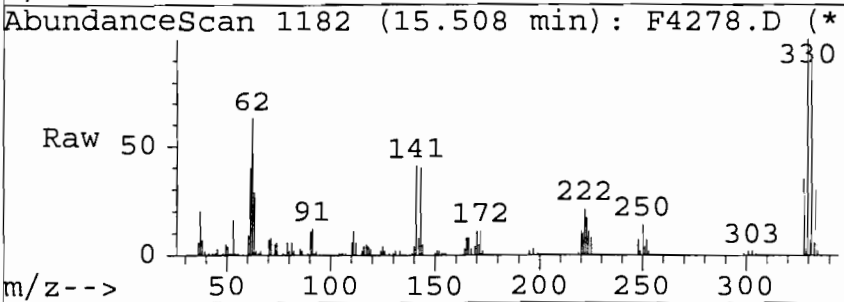
#49
 Fluorene(51G)
 Concen: 1.20 ng/uL
 RT: 14.92 min Scan# 1125
 Delta R.T. -0.12 min
 Lab File: F4278.D
 Acq: 3/29/99 @ 14:42

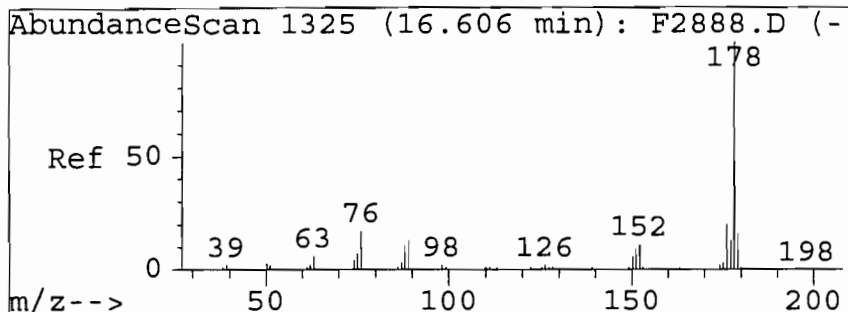
Tgt Ion	Resp	Lower	Upper
166	4801		
166	100		
166	100.0	50.0	150.0
165	0.0	47.3	147.3#
167	14.5	0.0	62.8



#54
 n-Nitrosodiphenyl Amine(56G)
 Concen: 1.19 ng/uL
 RT: 15.51 min Scan# 1182
 Delta R.T. 0.14 min
 Lab File: F4278.D
 Acq: 3/29/99 @ 14:42

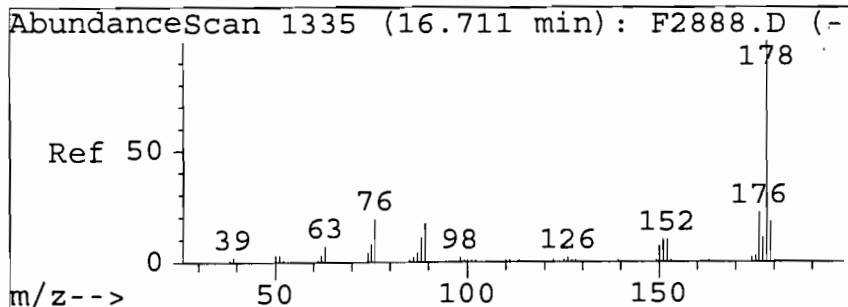
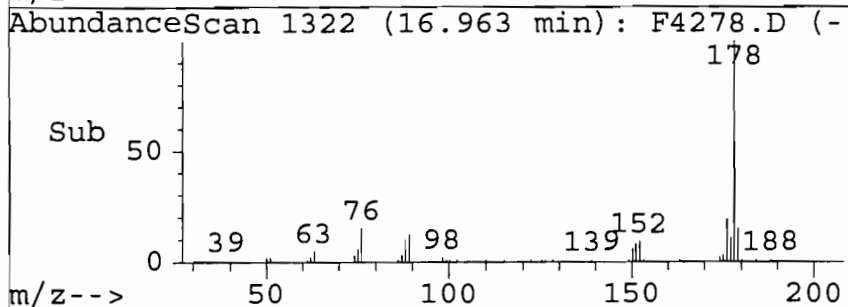
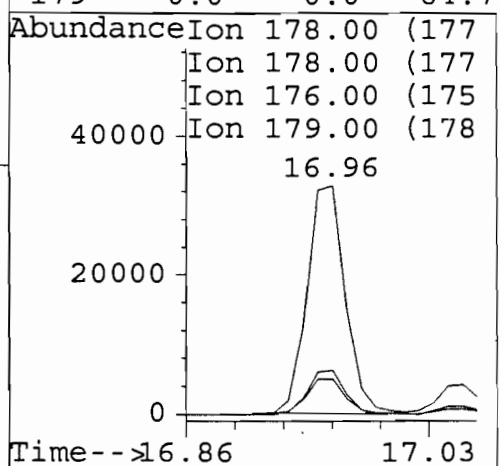
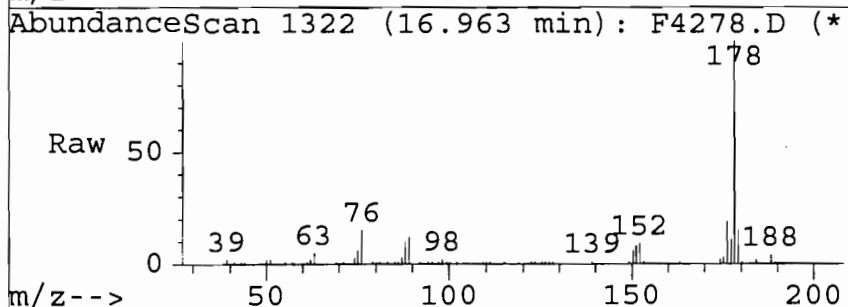
Tgt Ion	Resp	Lower	Upper
169	3492		
169	100		
169	100.0	80.0	120.0
77	0.0	122.5	162.5#
51	0.0	65.7	105.7#





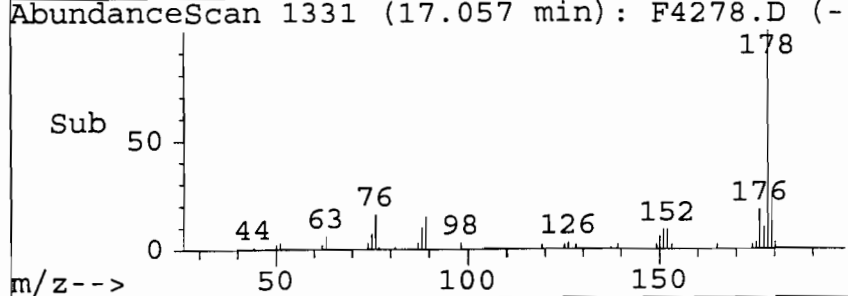
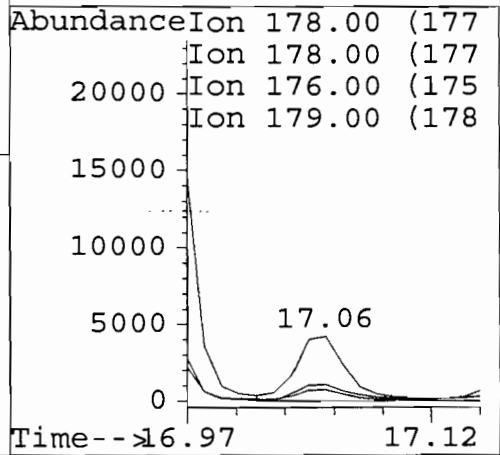
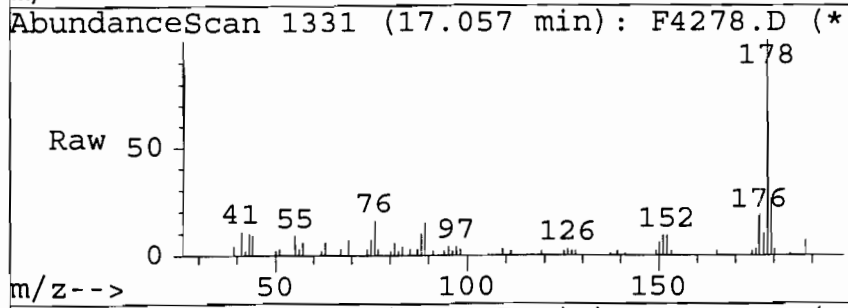
#61
 Phenanthrene (61G)
 Concen: 8.59 ng/uL
 RT: 16.96 min Scan# 1322
 Delta R.T. -0.21 min
 Lab File: F4278.D
 Acq: 3/29/99 @ 14:42

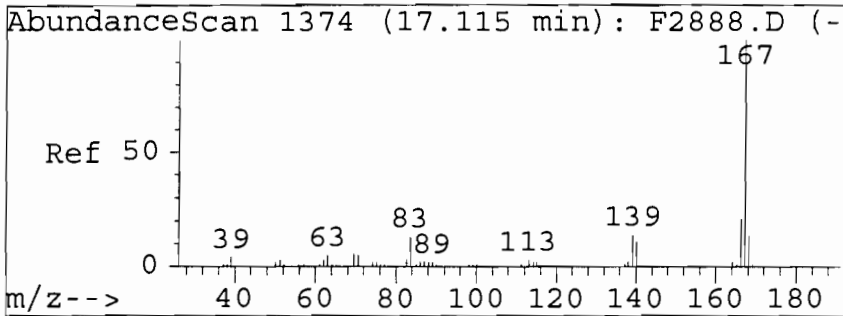
Tgt Ion	Resp	Lower	Upper
178	61788		
178	100		
178	100.0	50.0	150.0
176	0.0	0.0	69.5
179	0.0	0.0	64.7



#62
 Anthracene (62G)
 Concen: 1.22 ng/uL m
 RT: 17.06 min Scan# 1331
 Delta R.T. -0.11 min
 Lab File: F4278.D
 Acq: 3/29/99 @ 14:42

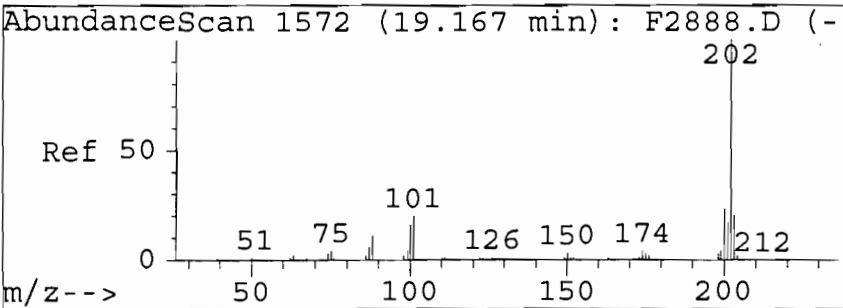
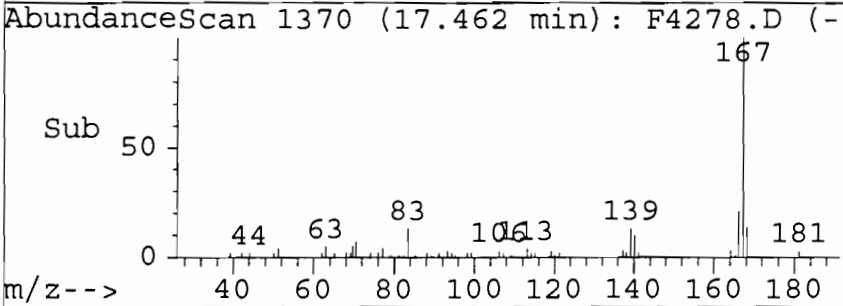
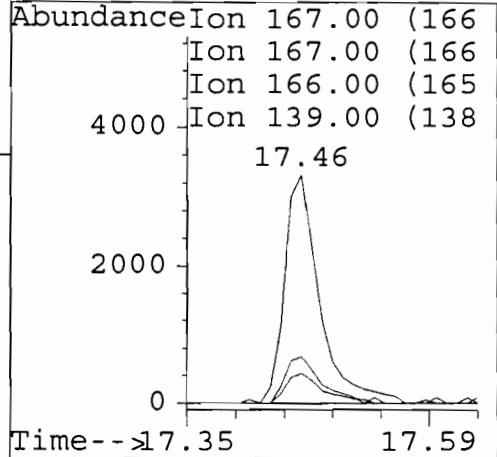
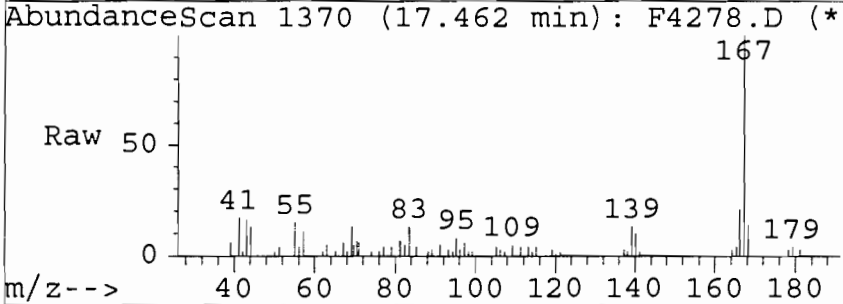
Tgt Ion	Resp	Lower	Upper
178	8994		
178	100		
178	100.0	50.0	150.0
176	17.6	9.6	28.7
179	25.6	7.3	21.9#





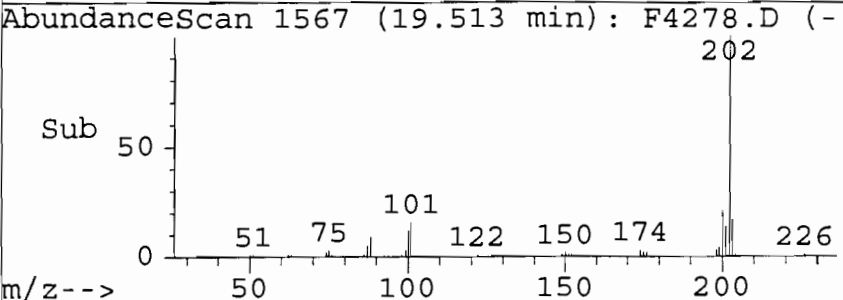
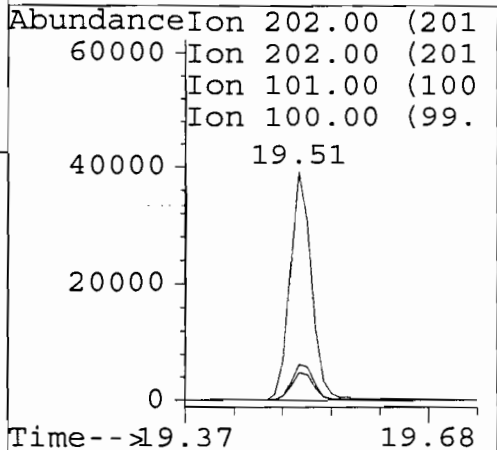
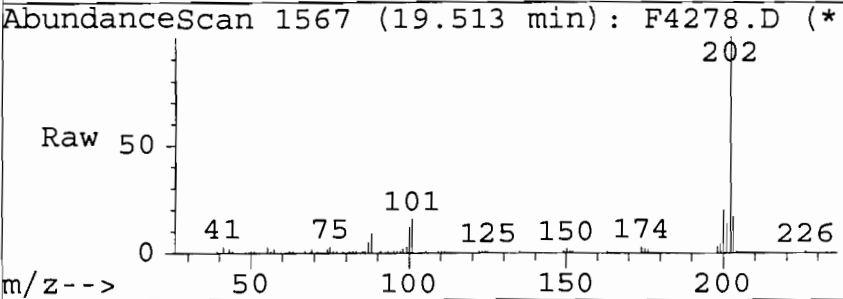
#63
 Carbazole (21S)
 Concen: 1.21 ng/uL
 RT: 17.46 min Scan# 1370
 Delta R.T. -0.11 min
 Lab File: F4278.D
 Acq: 3/29/99 @ 14:42

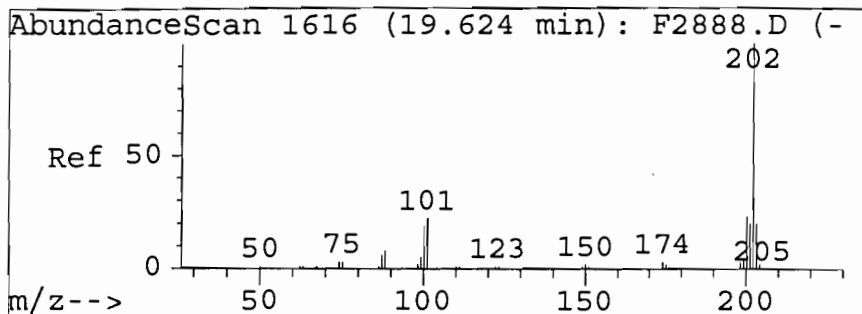
Tgt Ion	Resp	Lower	Upper
167	100		
167	100.0	50.0	150.0
166	0.0	0.0	71.8
139	0.0	0.0	64.4



#65
 Fluoranthene (64G)
 Concen: 9.16 ng/uL
 RT: 19.51 min Scan# 1567
 Delta R.T. -0.13 min
 Lab File: F4278.D
 Acq: 3/29/99 @ 14:42

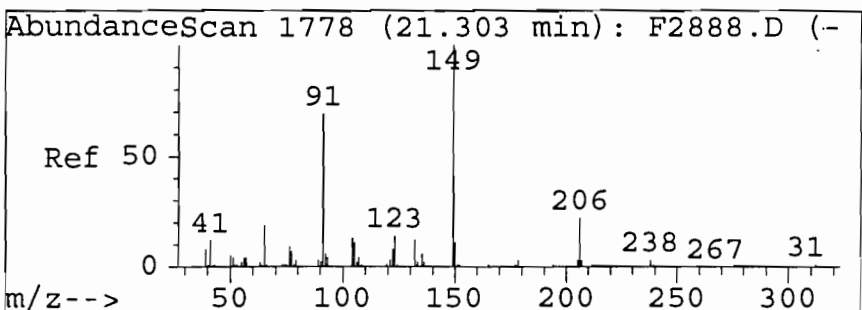
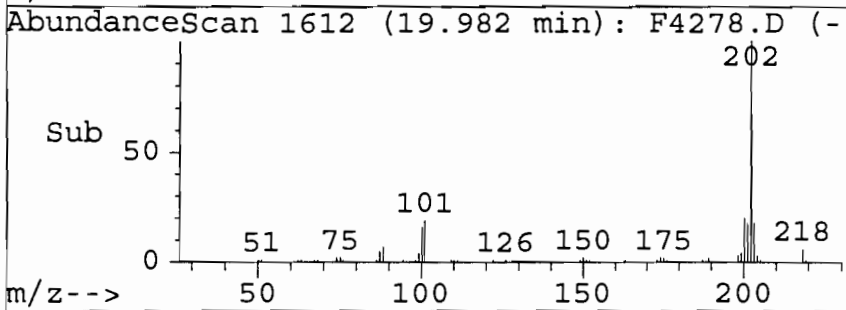
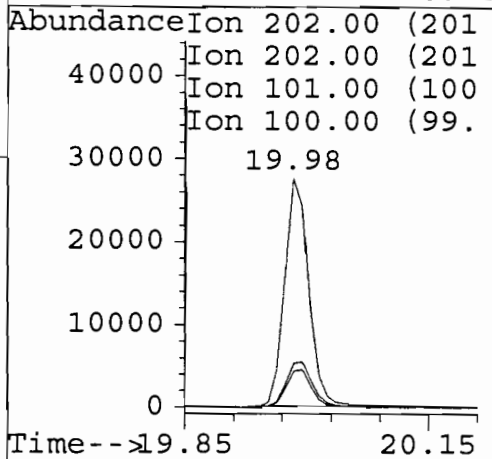
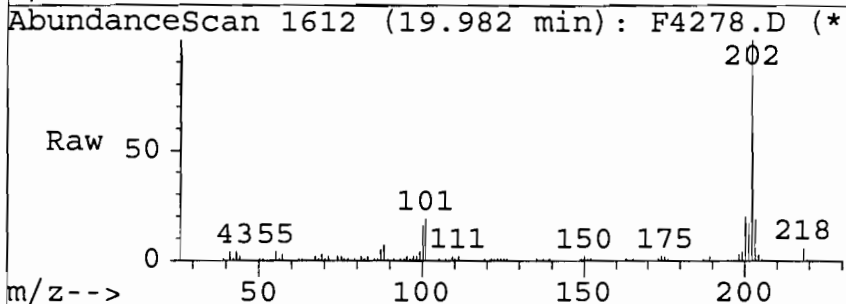
Tgt Ion	Resp	Lower	Upper
202	100		
202	100.0	50.0	150.0
101	0.0	0.0	63.1
100	0.0	0.0	60.9





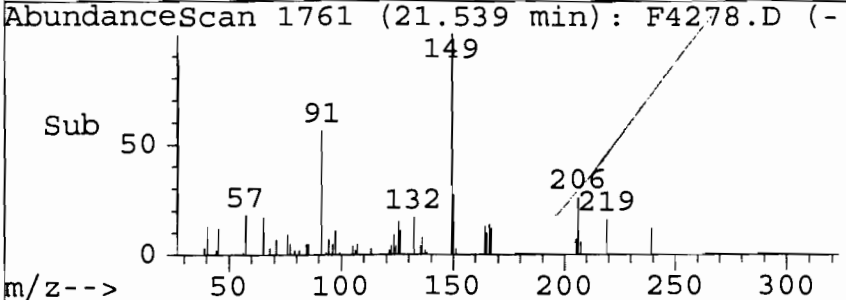
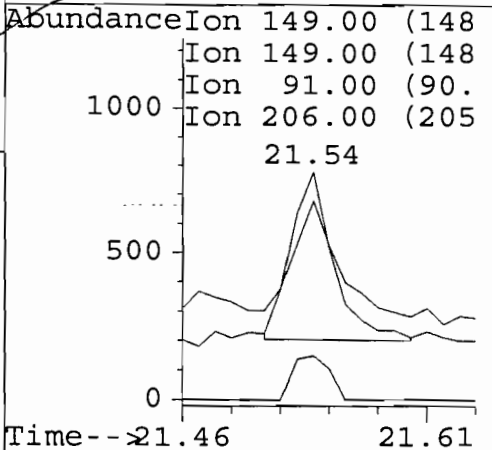
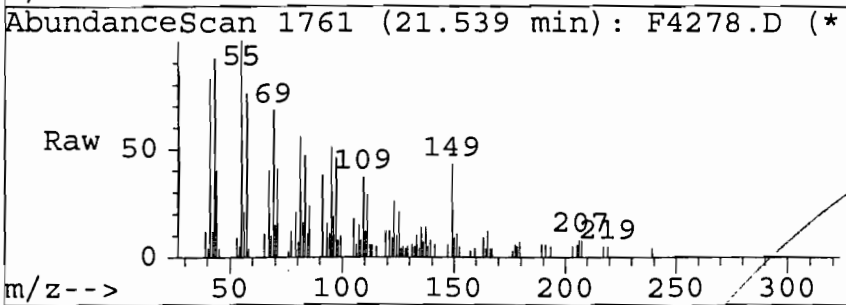
#68
 Pyrene (67G)
 Concen: 13.55 ng/uL
 RT: 19.98 min Scan# 1612
 Delta R.T. -0.13 min
 Lab File: F4278.D
 Acq: 3/29/99 @ 14:42

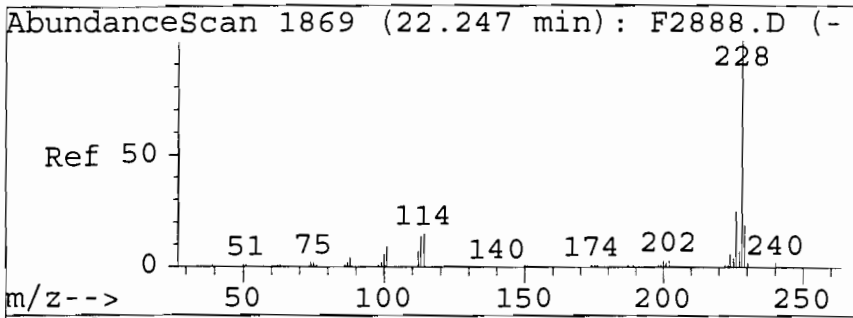
Tgt Ion	Resp	Lower	Upper
202	57380		
202	100		
202	100.0	50.0	150.0
101	22.0	0.0	65.0
100	17.4	0.0	63.5



#70
 Butylbenzyl Phthalate (69G)
 Concen: 0.52 ng/uL
 RT: 21.54 min Scan# 1761
 Delta R.T. -0.11 min
 Lab File: F4278.D
 Acq: 3/29/99 @ 14:42

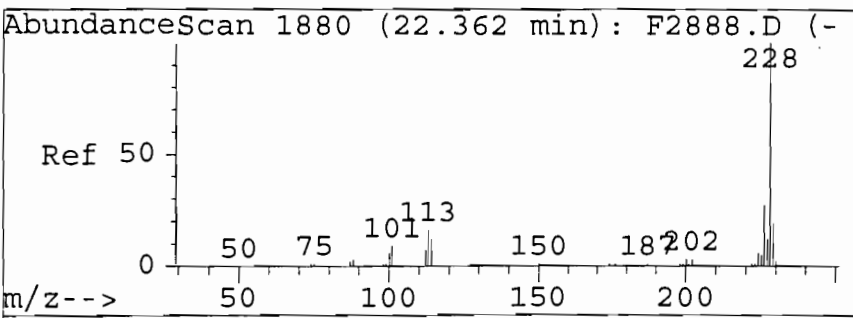
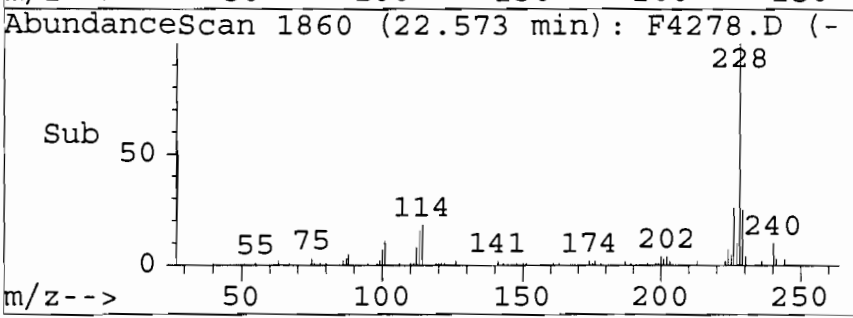
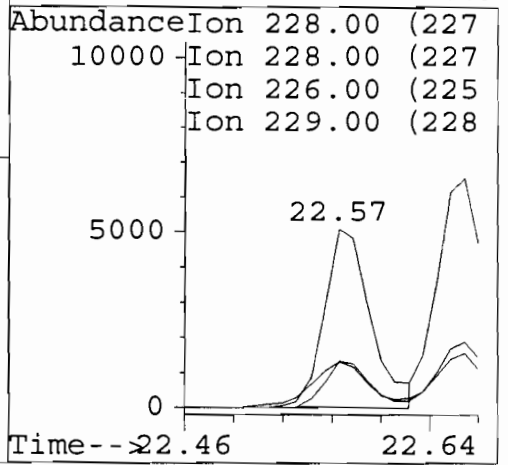
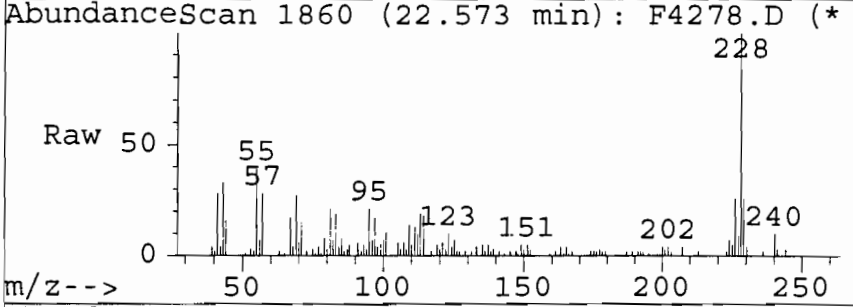
Tgt Ion	Resp	Lower	Upper
149	1090		
149	100		
149	100.0	50.0	150.0
91	0.0	15.5	115.5#
206	22.7	0.0	67.1





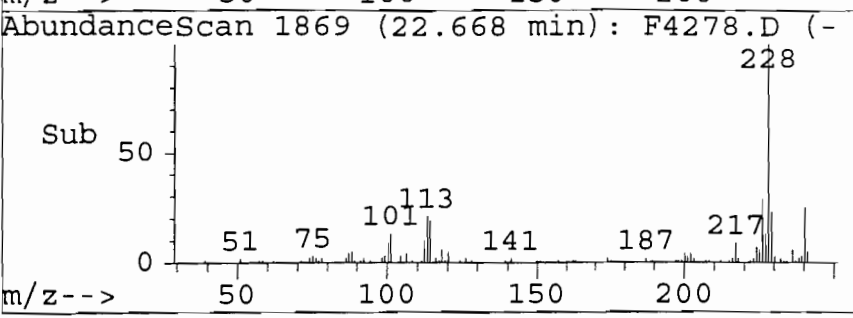
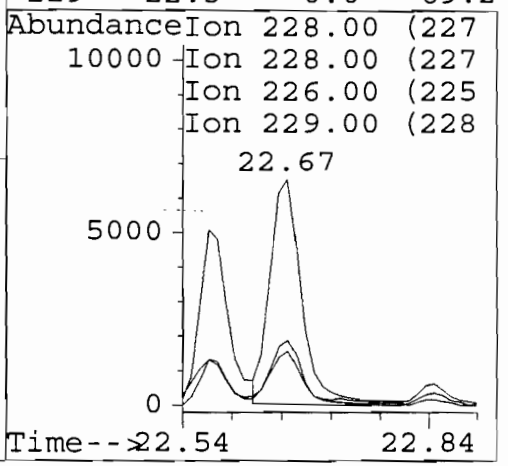
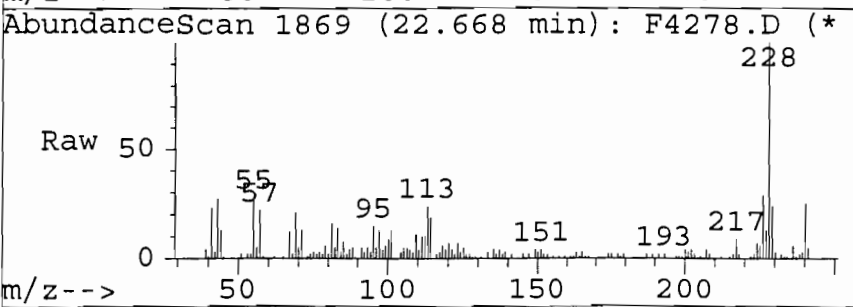
#71
 Benzo-(a)-Anthracene(71G)
 Concen: 3.54 ng/uL m
 RT: 22.57 min Scan# 1860
 Delta R.T. -0.24 min
 Lab File: F4278.D
 Acq: 3/29/99 @ 14:42

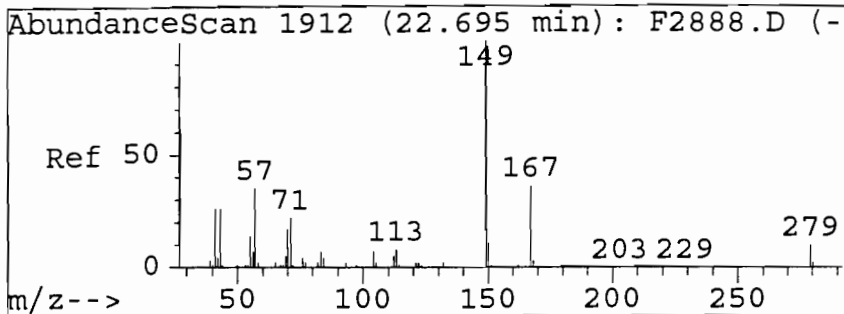
Tgt Ion	Resp	Lower	Upper
228	12294		
228	100	50.0	150.0
226	26.2	0.0	77.1
229	25.8	0.0	68.9



#73
 Chrysene(72G)
 Concen: 4.84 ng/uL
 RT: 22.67 min Scan# 1869
 Delta R.T. -0.14 min
 Lab File: F4278.D
 Acq: 3/29/99 @ 14:42

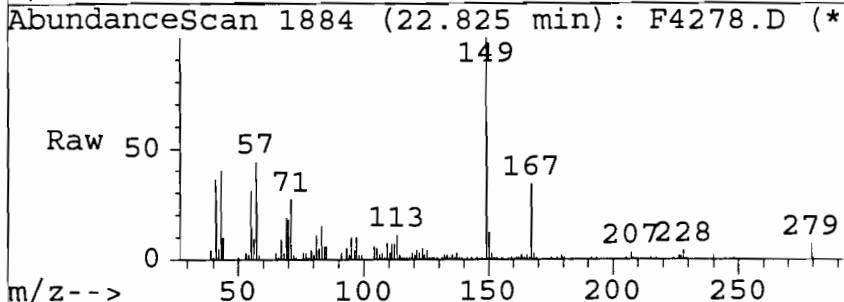
Tgt Ion	Resp	Lower	Upper
228	17184		
228	100	50.0	150.0
226	0.0	0.0	79.7
229	22.3	0.0	69.2



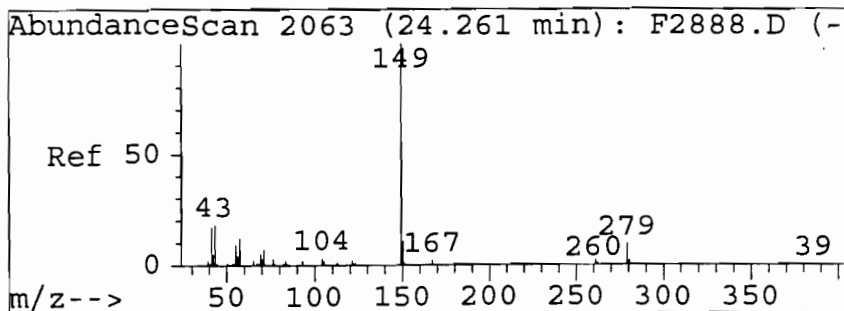
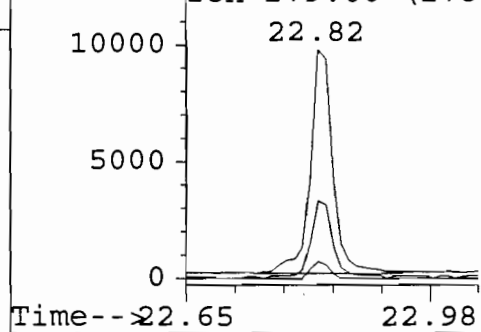
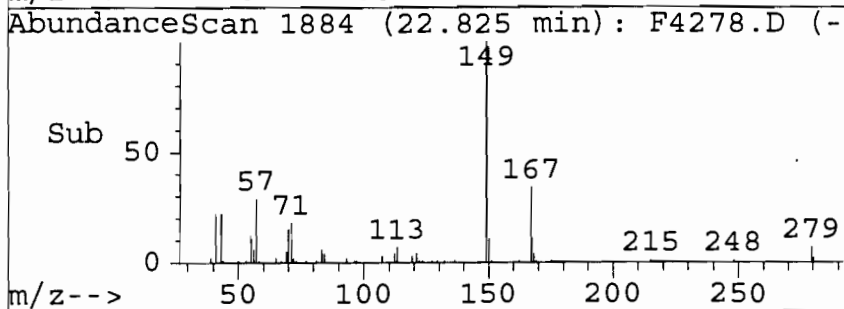


#74
 Bis (2-Ethylhexyl) Phthalate(
 Concen: 7.42 ng/uL
 RT: 22.82 min Scan# 1884
 Delta R.T. -0.11 min
 Lab File: F4278.D
 Acq: 3/29/99 @ 14:42

Tgt Ion	Resp	Lower	Upper
149	20387		
149	100		
149	100.0	50.0	150.0
167	34.0	0.0	80.6
279	5.7	0.0	56.6

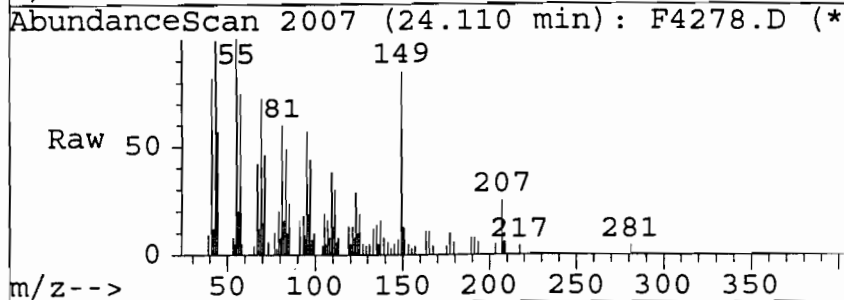


Abundance	Ion	Time
15000	149.00	22.82
15000	149.00	22.82
15000	167.00	22.82
15000	279.00	22.82

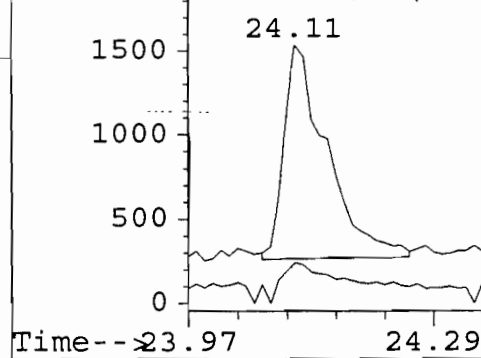
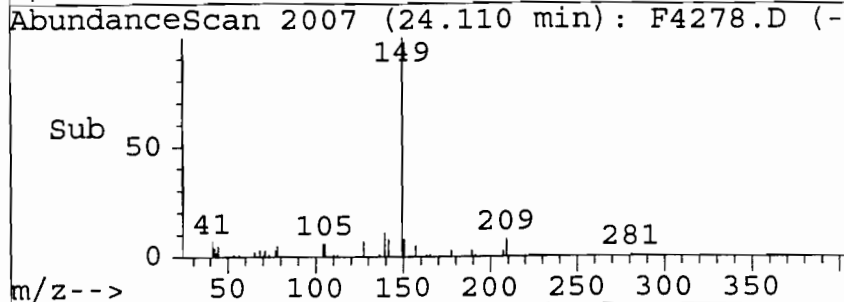


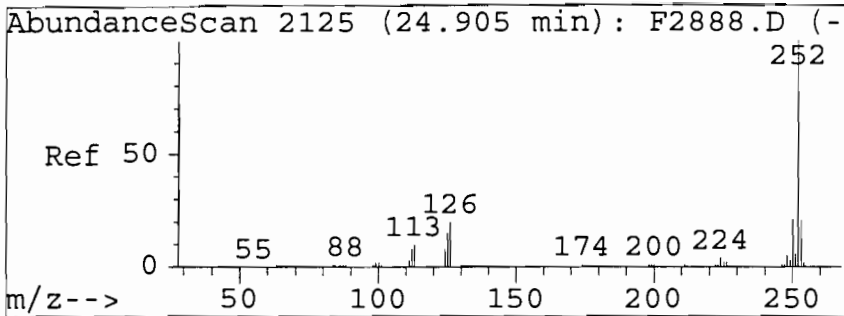
#76
 Di-n-Octyl Phthalate(75G)
 Concen: 1.65 ng/uL
 RT: 24.11 min Scan# 2007
 Delta R.T. -0.12 min
 Lab File: F4278.D
 Acq: 3/29/99 @ 14:42

Tgt Ion	Resp	Lower	Upper
149	4796		
149	100		
149	100.0	50.0	150.0
150	25.9	0.0	61.1
0	0.0	0.0	0.0



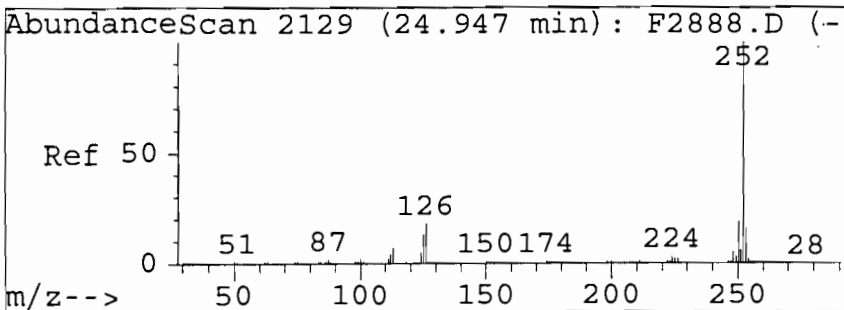
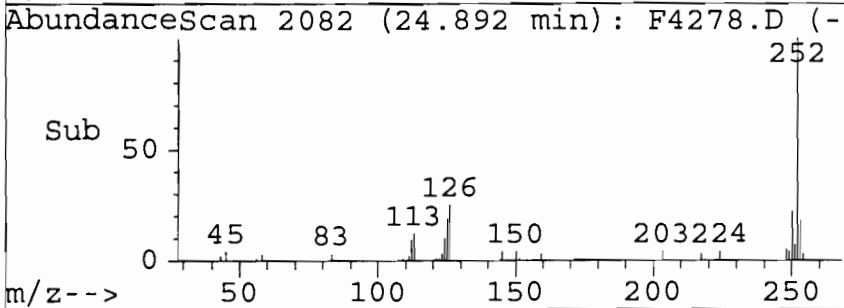
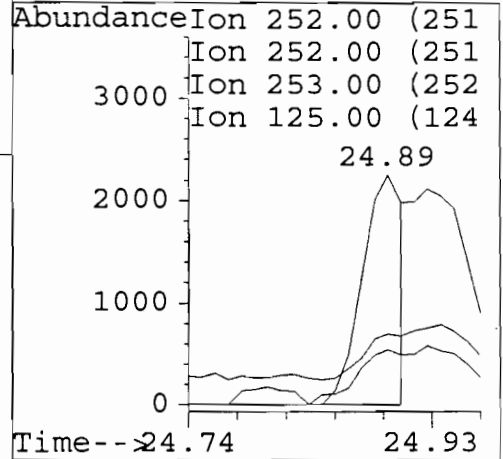
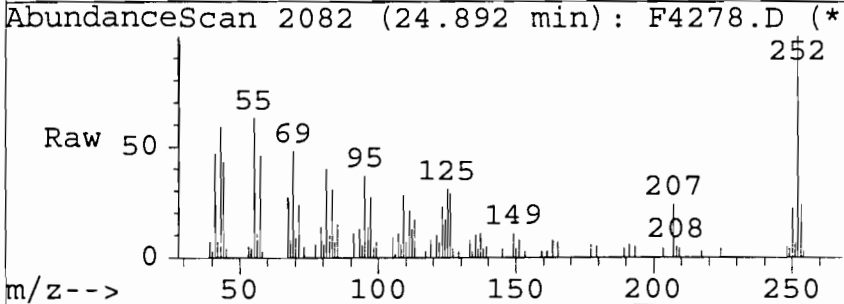
Abundance	Ion	Time
2000	149.00	24.11
2000	149.00	24.11
2000	150.00	24.11





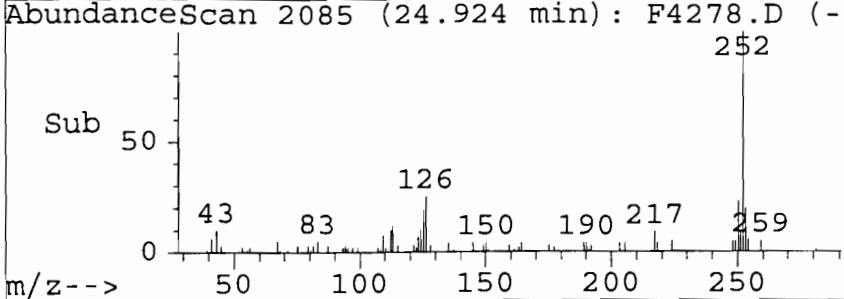
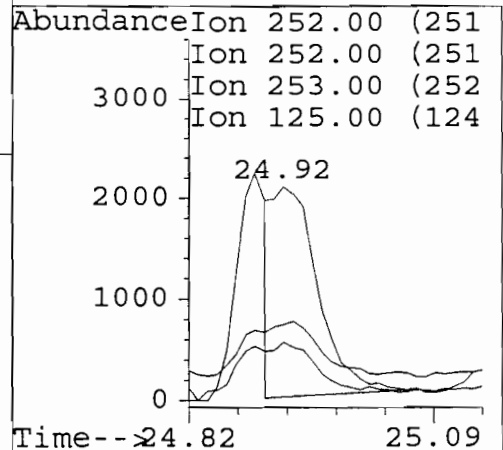
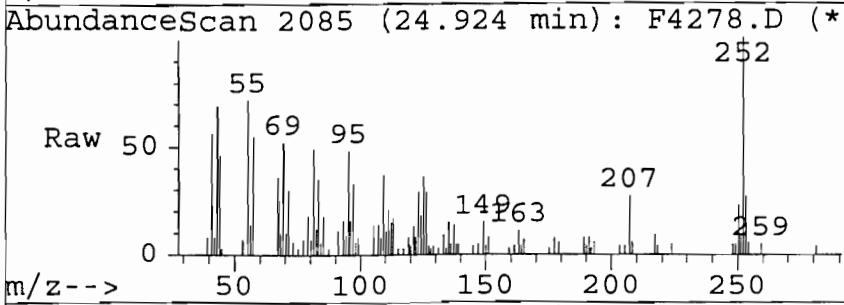
#77
 Benzo- (b) -Fluoranthene (76G)
 Concen: 2.92 ng/uL m
 RT: 24.89 min Scan# 2082
 Delta R.T. -0.20 min
 Lab File: F4278.D
 Acq: 3/29/99 @ 14:42

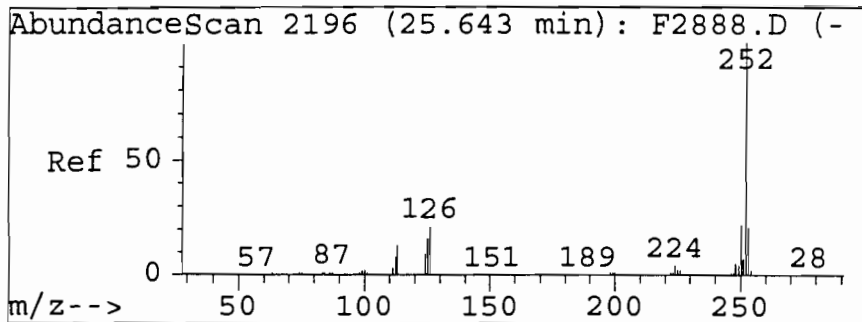
Tgt Ion	Ratio	Lower	Upper
252	100		
252	100.0	50.0	150.0
253	24.2	0.0	70.8
125	31.0	0.0	62.9



#78
 Benzo- (k) -Fluoranthene (77G)
 Concen: 3.97 ng/uL
 RT: 24.92 min Scan# 2085
 Delta R.T. -0.17 min
 Lab File: F4278.D
 Acq: 3/29/99 @ 14:42

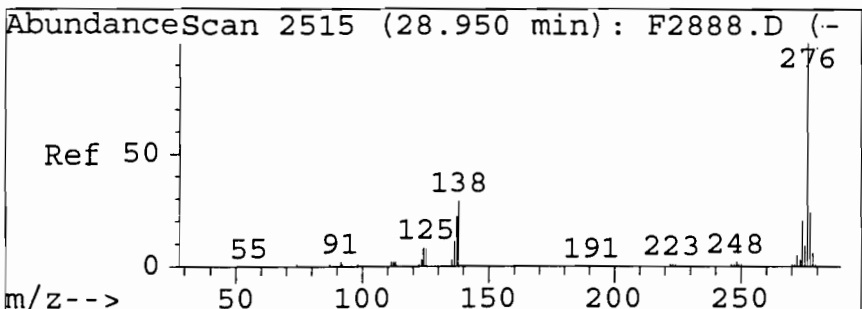
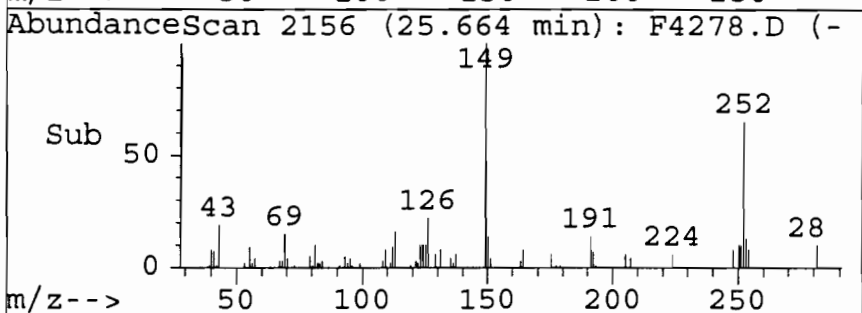
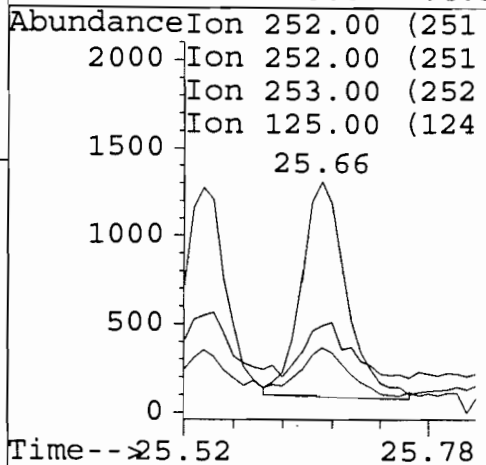
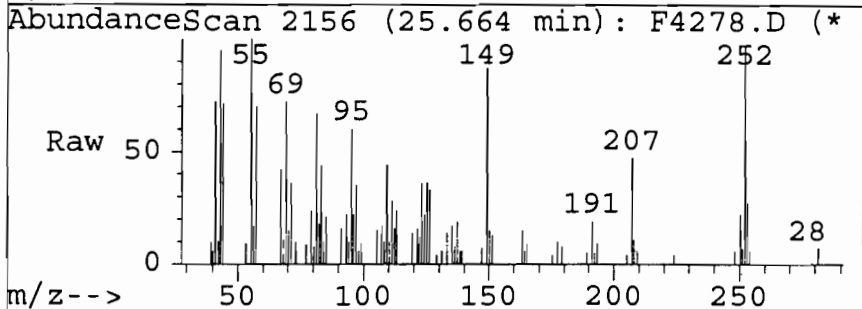
Tgt Ion	Ratio	Lower	Upper
252	100		
252	100.0	50.0	150.0
253	29.2	0.0	71.0
125	26.6	0.0	60.3





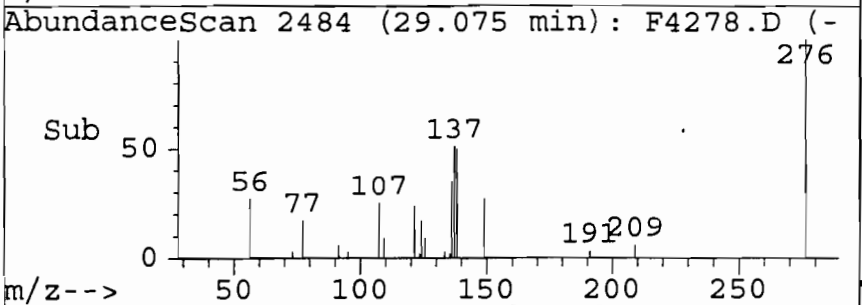
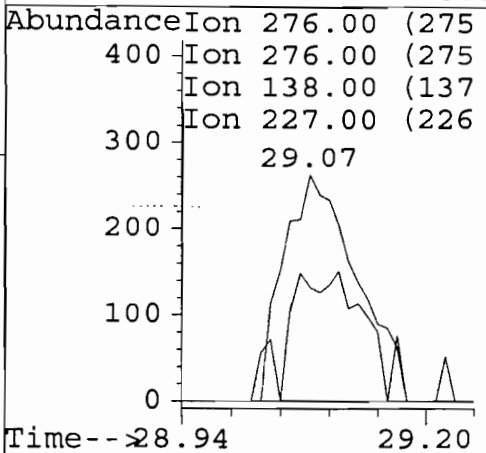
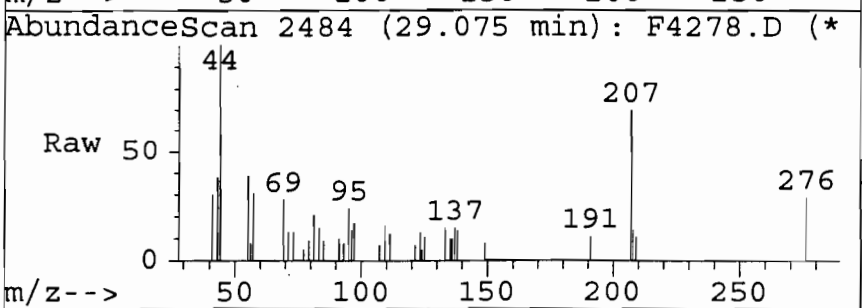
#79
 Benzo- (a) -Pyrene (78G)
 Concen: 2.66 ng/uL
 RT: 25.66 min Scan# 2156
 Delta R.T. -0.16 min
 Lab File: F4278.D
 Acq: 3/29/99 @ 14:42

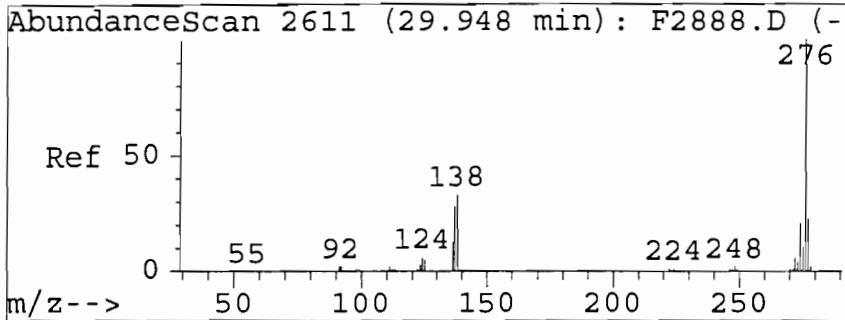
Tgt Ion	Resp	Lower	Upper
252	4012		
252	100		
252	100.0	50.0	150.0
253	22.3	0.0	70.9
125	24.0	0.0	64.5



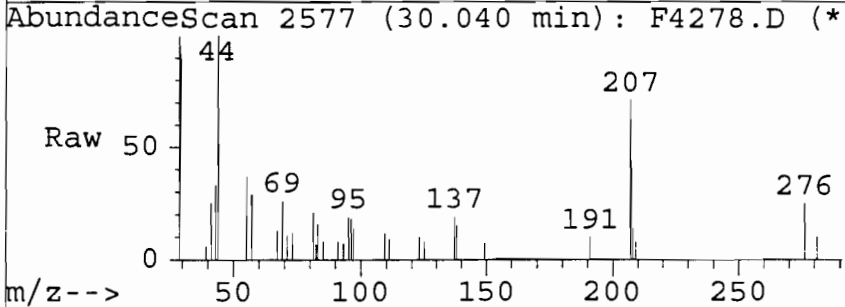
#80
 Indeno- (1,2,3-cd) -Pyrene (79G)
 Concen: 1.46 ng/uL
 RT: 29.07 min Scan# 2484
 Delta R.T. -0.21 min
 Lab File: F4278.D
 Acq: 3/29/99 @ 14:42

Tgt Ion	Resp	Lower	Upper
276	1421		
276	100		
276	100.0	50.0	150.0
138	0.0	0.0	74.7
227	0.0	0.0	50.0

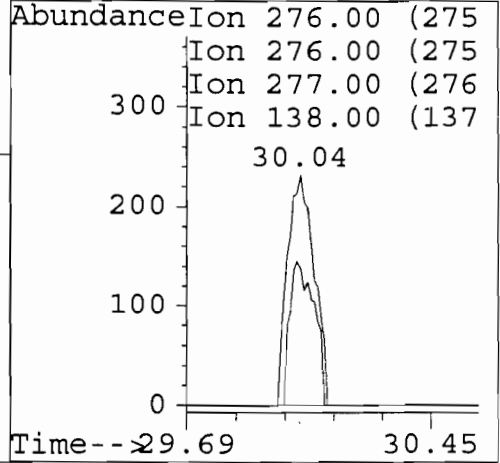
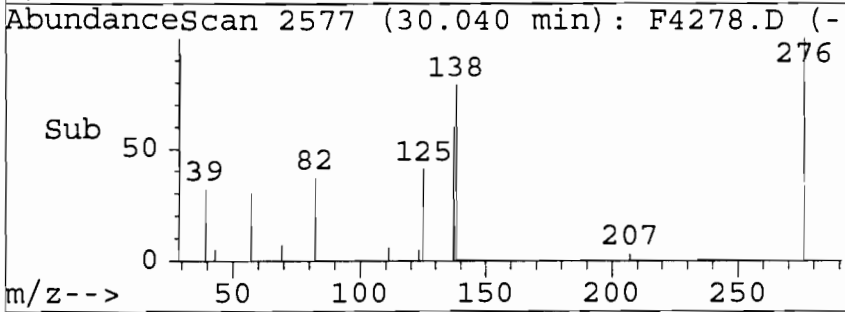




#82
 Benzo-(g,h,i)- Perylene(81G)
 Concen: 1.76 ng/uL m
 RT: 30.04 min Scan# 2577
 Delta R.T. -0.23 min
 Lab File: F4278.D
 Acq: 3/29/99 @ 14:42



Tgt Ion	Resp	Lower	Upper
276	100		
276	100.0	50.0	150.0
277	0.0	0.0	73.7
138	59.1	0.0	77.0



ANALab, Inc. - Randolph Facility
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Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
APRIL 12, 1999

Certified for: NJ, PA, DE, CT, NY (DOH)
NJ #14116 NY #11376
US EPA CLP Lab

DIESEL RANGE ORGANIC PETROLEUM HYDROCARBONS BY GC

Client: GCI
Sample Source: 960285
Sample Date: 03/11/99 At Lab Date: 03/15/99
Sample ID: DW-1
Sampled by: Customer

Lab Number: 306390
Sample wt/vol: 25 Final volume: 1
Sample Matrix: Soil Column used: RTX-5
Percent Moisture: 31.1% Dilution Factor 1
Analysis Date: 04/12/99 Extraction Date: 04/08/99

Parameter	Result mg/kg	Method Blank mg/kg	Minimum Detection Limit mg/kg	Practical Quantitation Limit mg/kg
DRO Petroleum Hydrocarbons	46	U	5.8	5.8

U = Not detected
Results reported as mg/kg (ppm) are reported on a dry weight basis.

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Thomas Mancuso, Lab Mgr.
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Data File : E:\1\DATA\DA1561.D
 Acq On : 12 Apr 99 11:42
 Sample : 306390
 Misc : QDR8195
 IntFile : EVENTS1.E
 Quant Time: Apr 12 12:32 1999

Vial: 24
 Operator:
 Inst : GC 5890_4
 Multiplr: 1.00

Quant Results File: DROSOIL.RES

Quant Method : E:\1\METHODS\DROSOIL.M (Chemstation Integrator)
 Title : GC TPH DRO METHOD - Total Area Quantitation
 Last Update : Mon Apr 12 09:21:56 1999
 Response via : Initial Calibration
 DataAcq Meth : DROSOIL.M

Volume Inj. : 1 µl injection
 Signal Phase : Restek RTX-5
 Signal Info : 30 M x 0.53mm x 0.25µm

Compound	R.T.	Response	Conc Units
----------	------	----------	------------

System Monitoring Compounds

1) S Ortho-Terphenyl	18.04	1377333	19.596 µg/ml
Spiked Amount 20.000		Recovery =	97.98%

Target Compounds

2) HM DIESEL RANGE	17.00	54593306	785.566 µg/ml
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Handwritten signature and date: 7/12/99

Quantitation Report

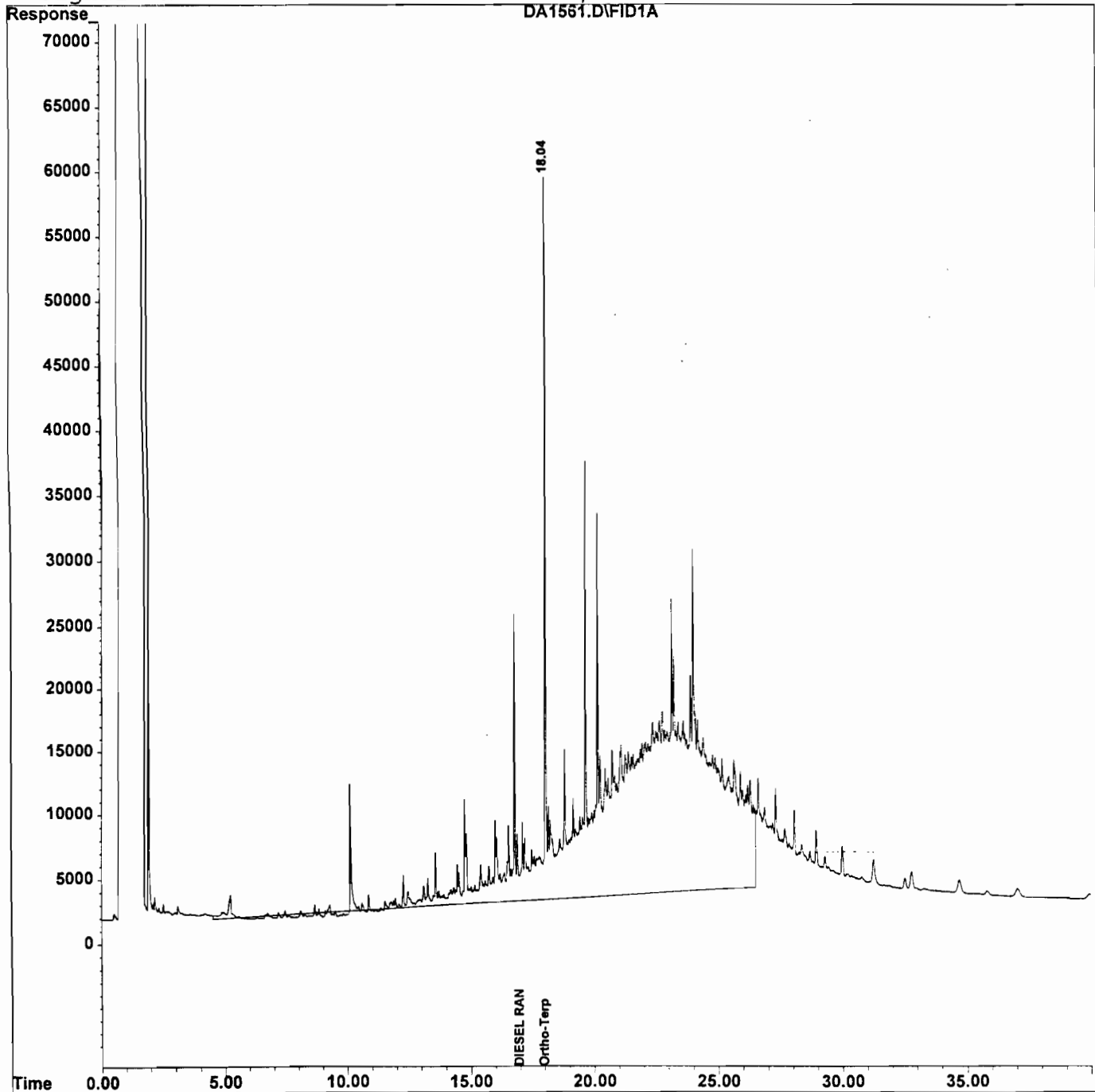
Data File : E:\1\DATA\DA1561.D
Acq On : 12 Apr 99 11:42
Sample : 306390
Misc : QDR8195
IntFile : EVENTS1.E
Quant Time: Apr 12 12:32 1999

Vial: 24
Operator:
Inst : GC 5890_4
Multiplr: 1.00

Quant Results File: DROSOIL.RES

Quant Method : E:\1\METHODS\DROSOIL.M (Chemstation Integrator)
Title : GC TPH DRO METHOD - Total Area Quantitation
Last Update : Mon Apr 12 09:21:56 1999
Response via : Multiple Level Calibration
DataAcq Meth : DROSOIL.M

Volume Inj. : 1 µl injection
Signal Phase : Restek RTx-5
Signal Info : 30 M x 0.53mm x 0.25µm



ANalab, Inc. - Randolph Facility
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73-584-0330, FAX: 973-584-0515
MARCH 25, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 306390
Client: GCI
Sample source: 960285
Sample ID: DW-1
Sample date: 03/11/99
Sampled by: Customer
At lab date: 03/15/99
Matrix: SOIL
Percent Moisture: 31.1 %

ICP/FURNACE Initial weight: 1.00 g ICP/FURNACE Final volume: 100 ml
Mercury Initial weight: 0.50 g Mercury Final volume: 100 ml
Results in mg/Kg dry weight basis.

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Dilution Factor	Analysis Date
Arsenic	3.34	U	0.581	1	03/23/99
Barium	55.4	U	0.726	1	03/23/99
Cadmium	0.871	U	0.726	1	03/23/99
Chromium	17.6	U	0.726	1	03/23/99
Lead	37.7	U	0.581	1	03/23/99
Mercury	0.058	U	0.058	1	03/22/99
Selenium	U	U	0.581	1	03/23/99
Silver	U	U	0.726	1	03/23/99

U = Not Detected

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Thomas Mancuso, Lab Mgr.
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LYN

QUANT REPORT

Operator ID: AT1446
Output File: ^A3689::X1
Data File: >A3689::C1
Name: INST 59701 SAMPLE
Misc: 306391 ,S,5,5 ,0.53mm x75m db-624

Quant Rev: 7 Quant Time: 990317 20:32
 Injected at: 990317 20:01
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: ID86AS::RS
Title: Method 8260B IDFILE
Last Calibration: 990312 14:07

Last Qual Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *Pentafluorobenzene	7.32	168.0	153584	50.00	ug/L	90
26) Dibromofluoromethane	7.42	113.0	105107	55.65	ug/L	100
28) 1,2-Dichloroethane-d4	8.44	65.0	52171	52.00	ug/L	86
32) *1,4-Difluorobenzene	9.27	114.0	140888	50.00	ug/L	99
52) *Chlorobenzene-d5	14.81	117.0	125173	50.00	ug/L	93
54) Toluene-d8	12.08	98.0	135259	53.76	ug/L	91
67) Bromofluorobenzene	17.05	95.0	115402	45.42	ug/L	93
84) *1,4-Dichlorobenzene-d4	19.19	152.0	76954M	50.00	ug/L	

* Compound is ISTD

AT
3/18/99

AT
3/18/99

Quantitation Report

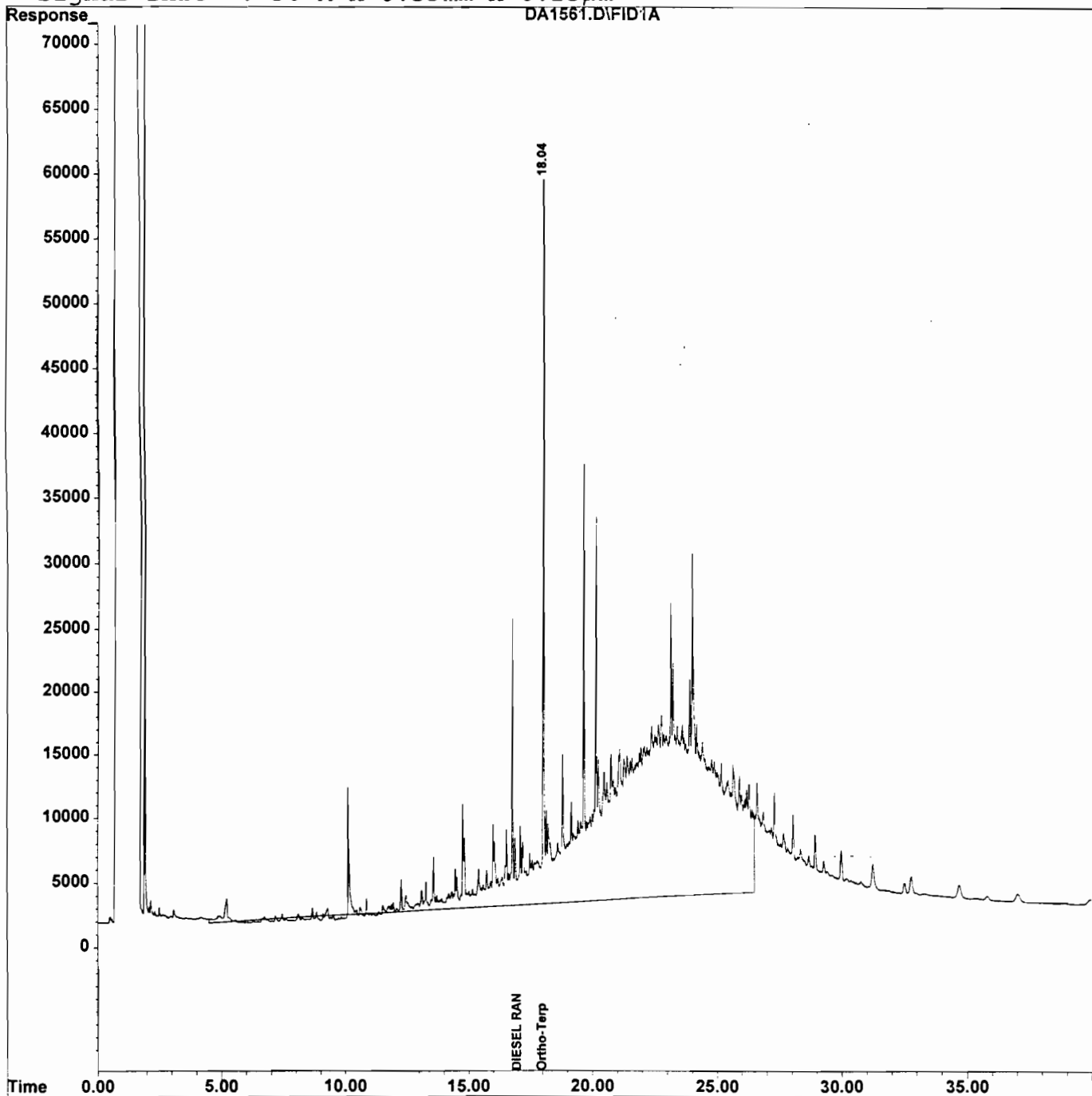
Data File : E:\1\DATA\DA1561.D
Acq On : 12 Apr 99 11:42
Sample : 306390
Misc : QDR8195
IntFile : EVENTS1.E

Vial: 24
Operator:
Inst : GC 5890_4
Multiplr: 1.00

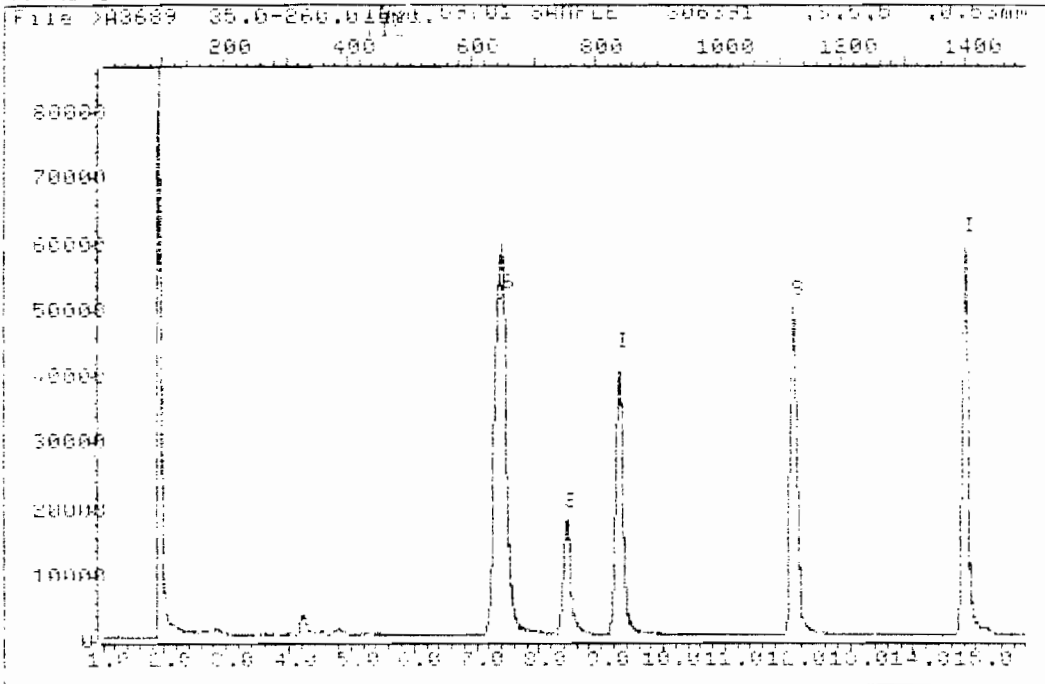
Quant Time: Apr 12 12:32 1999 Quant Results File: DROSOIL.RES

Quant Method : E:\1\METHODS\DROSOIL.M (Chemstation Integrator)
Title : GC TPH DRO METHOD - Total Area Quantitation
Last Update : Mon Apr 12 09:21:56 1999
Response via : Multiple Level Calibration
DataAcq Meth : DROSOIL.M

Volume Inj. : 1 µl injection
Signal Phase : Restek RTx-5
Signal Info : 30 M x 0.53mm x 0.25µm



TOTAL ION CHROMATOGRAM



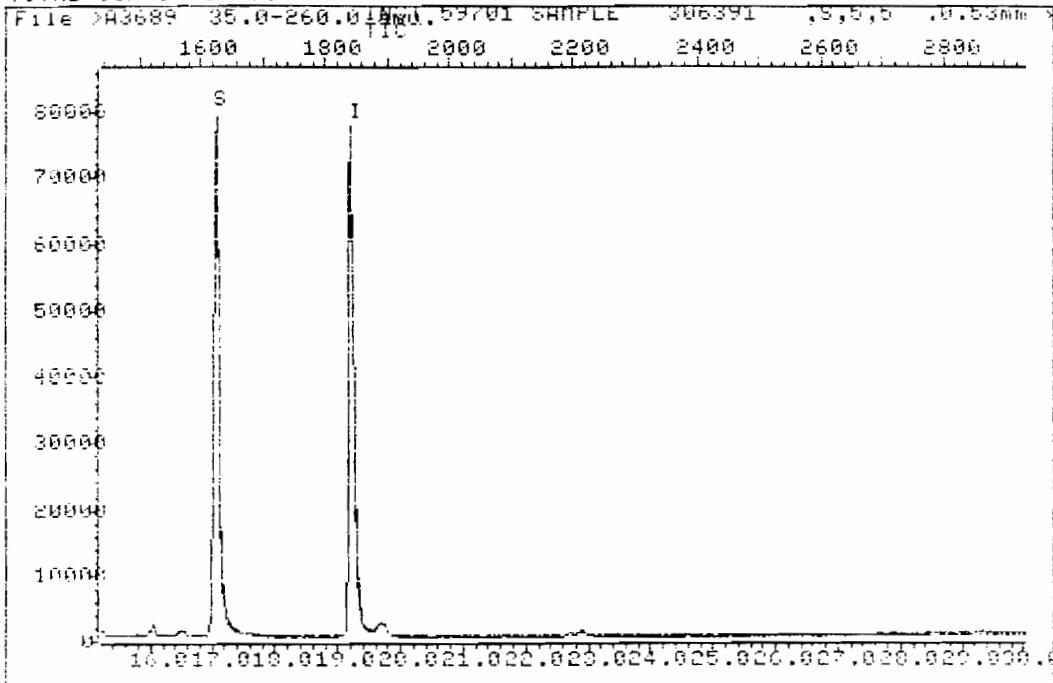
Data File: >43489:1.C1 Quant Output File: 43489:1
 Name: INST 59701 SAMPLE Instrument ID: 1057
 Misc: 304391 .S,5,5 ,0.53mm x75m dh-624

Id File: I08648:1.PS
 Title: Method 8260B IDF.DLE
 Last Calibration: 990310 14:07 Last Cal: Time: none

Operator ID: AT1446
 Quant Time : 990317 20:32
 Injected at: 990317 20:01

Page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >A3689::01 Quant Output File: >A3689::01
Name: INST 59701 SAMPLE Instrument ID: INST "A"
Misc: 306391 ,S,5,5 ,0.53mm x75m db-624

Id File: ID86AS::RS
Title: Method 82608 IDFILE
Last Calibration: 990312 14:07 Last Qual Time: <none>

Operator ID: AT1446
Quant Time : 990317 20:32
Injected at: 990317 20:01

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 MARCH 31, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

TARGET COMPOUND LIST - BASE/NEUTRAL FRACTION ANALYSIS BY GC/MS

Lab Number: 306391 Data File: >F4295
 Client: GCI
 Sample source: 960285
 Sample ID: DW-2
 Sample date: 03/11/99 Extracted Date: 03/19/99
 Sampled by: Customer Analysis Date: 03/30/99 Column: 30m SPB-5
 At lab date: 03/15/99 Dilution Factor: 1
 Percent Moisture: 18.56%
 Matrix: Soil Init Sample Wght= 30.09g Final volume= 1ml
 Initial sample weight DWB= 24.50529g

Conc. in Sample = (Conc. on Quant Report/Initial Sample Weight DWB)*Final Volume*1000

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
bis(2-Chloroethyl) ether	U	U	200	41
1,3-Dichlorobenzene	U	U	200	98
1,4-Dichlorobenzene	U	U	200	94
1,2-Dichlorobenzene	U	U	200	98
bis(2-Chloroisopropyl) ether	U	U	200	49
N-Nitroso-di-n-propylamine	U	U	200	41
Hexachloroethane	U	U	200	120
Nitrobenzene	U	U	200	41
Isophorone	U	U	200	41
bis(2-Chloroethoxy)methane	U	U	200	41
1,2,4-Trichlorobenzene	U	U	200	94
Naphthalene	44J	U	200	82
4-Chloroaniline	U	U	200	41
Hexachlorobutadiene	U	U	200	41
2-Methylnaphthalene	38J	U	200	86
Hexachlorocyclopentadiene	U	U	200	61
2-Chloronaphthalene	U	U	200	82
2-Nitroaniline	U	U	200	41
Dimethyl phthalate	U	U	200	190
Acenaphthylene	U	U	200	61
2,6-Dinitrotoluene	U	U	200	41
3-Nitroaniline	U	U	200	41
Acenaphthene	170J	U	200	78
Dibenzofuran	100J	U	200	61
2,4-Dinitrotoluene	U	U	200	41
Diethyl phthalate	U	U	200	94
4-Chlorophenyl phenyl ether	U	U	200	82
Fluorene	210	U	200	69
4-Nitroaniline	U	U	200	41
N-Nitrosodiphenylamine	U	U	200	41
4-Bromophenyl phenyl ether	U	U	200	78
Hexachlorobenzene	U	U	200	78
Phenanthrene	1700	U	200	37
Anthracene	350	U	200	33

(continued on next page)

(continued from previous page)

Lab Number: 306391
Client: GCI

Data File: >F4295

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
Di-n-butylphthalate	62J	U	200	100
Fluoranthene	1500	U	200	24
Pyrene	2800	U	200	20
Butyl benzylphthalate	370	U	200	49
3,3'-Dichlorobenzidine	U	U	200	41
Benzo(a)anthracene	840	U	200	20
Chrysene	1200	U	200	20
bis(2-Ethylhexyl)phthalate	2100	U	200	120
Di-n-octylphthalate	140J	U	200	41
Benzo(b)fluoranthene	790	U	200	29
Benzo(k)fluoranthene	870	U	200	29
Benzo(a)pyrene	670	U	200	20
Indeno(1,2,3-cd)pyrene	420	U	200	45
Dibenz(a,h)anthracene	U	U	200	20
Benzo(g,h,i)perylene	460	U	200	20
Carbazole	180J	U	200	41

ug/kg = micrograms/kilogram or ppb

Results are in ug/kg (ppb); they are reported on a dry weight basis.

ND: Not Determined.

IND: Indeterminable.

U: Indicates a compound was analyzed for but not detected at the PQL.

J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.

B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

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Thomas Mancuso, Lab Mgr.
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Quantitation Report

Data File : F:\RTE\BNA\F42_D\F4295.D

Acq Time : 30 MAR 99 6:31 PM

Sample :

Misc : 306391 ,QC8167 M SPB-5 CAP COLUMN

Quant Time: Mar 31 11:30 1999

Operator: AM9951

Inst :

Multiplr: 1.00

Method : C:\METHODS\CF4189.M

Title : BNA STANDARDS FOR 5 POINT CALIBRATION

Last Update : Tue Mar 23 13:25:06 1999

Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-Dichlorobenzene	7.55	152	146542	40.00	ng/uL	-0.05
21) d8-Naphthalene	10.10	136	617843	40.00	ng/uL	-0.05
33) d10-Acenaphthene	13.83	164	273459	40.00	ng/uL	-0.07
57) d10-Phenanthrene	16.97	188	440346	40.00	ng/uL	-0.07
66) d12-Chrysene	22.69	240	129922	40.00	ng/uL	-0.07
75) d12-Perylene	25.92	264	67363	40.00	ng/uL	-0.08

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
4) 2-Fluorophenol	5.53	112	418719	116.18	ng/uL	58.09%
6) Phenol-d6	7.27	99	1175042	263.21	ng/uL	131.60%
19) Nitobenzene-d5	8.73	82	345623	70.53	ng/uL	70.53%
37) 2-Fluorobiphenyl	12.45	172	613066	60.68	ng/uL	60.68%
56) 2,4,6-Tribromophenol	15.55	330	107606	51.09	ng/uL	25.54%
69) Terphenyl-d14	20.44	244	151652	46.87	ng/uL	46.87%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Phenol (5G)	7.27	94	14639	3.19	ng/uL#	72
17) n-Nitrosodipropyl Amine (16G)	8.73	70	51968	16.85	ng/uL#	48
28) Naphthalene (28)	10.13	128	16740	1.09	ng/uLm	96
32) 2-Methylnaphthalene (32)	11.57	142	8697	0.94	ng/uLm	51
41) Dimethyl Phthalate (40G)	13.42	163	9359	0.72	ng/uL#	31
42) 2,6-Dinitrotoluene (42G)	13.83	165	35396	9.36	ng/uL#	72
43) Acenaphthene (44G)	13.89	153	42684	4.09	ng/uL#	84
46) Dibenzofuran (47G)	14.22	168	35712	2.46	ng/uL#	84
48) 2,4-Dinitrotoluene (48G)	14.56	165	3445	0.63	ng/uL#	71
49) Fluorene (51G)	14.96	166	52586	5.08	ng/uL#	52
54) n-Nitrosodiphenyl Amine (56)	15.56	169	5461	0.72	ng/uL#	25
61) Phenanthrene (61G)	17.03	178	446988	41.31	ng/uL#	90
62) Anthracene (62G)	17.10	178	95595	8.62	ng/uLm	90
63) Carbazole (21S)	17.50	167	44769	4.47	ng/uL#	89
64) Di-n-butyl Phthalate (63G)	18.40	149	17003	1.52	ng/uL#	99
65) Fluoranthene (64G)	19.59	202	464881	37.82	ng/uL#	94
68) Pyrene (67G)	20.05	202	343958	67.99	ng/uL	98
70) Butylbenzyl Phthalate (69G)	21.60	149	22914	9.13	ng/uL#	67
71) Benzo-(a)-Anthracene (71G)	22.65	228	85244	20.52	ng/uLm	90
72) 3,3'-Dichlorobenzidine	22.79	252	674	0.73	ng/uL#	52
73) Chrysene (72G)	22.74	228	119628	28.19	ng/uL#	89
74) Bis (2-Ethylhexyl) Phthala	22.89	149	168525	51.38	ng/uL	99
76) Di-n-Octyl Phthalate (75G)	24.18	149	14231	3.36	ng/uL	100
77) Benzo-(b)-Fluoranthene (76G)	24.99	252	49237	19.48	ng/uL#	95
78) Benzo-(k)-Fluoranthene (77G)	25.02	252	56482	21.29	ng/uLm	96
79) Benzo-(a)-Pyrene (78G)	25.76	252	36028	16.41	ng/uL#	95
80) Indeno-(1,2,3-cd)-Pyrene (7	29.21	276	14527	10.25	ng/uL#	90
81) Dibenzo-(a,h)-Anthracene (8	29.28	278	5884	5.06	ng/uLm	93

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

Quantitation Report

Data File : F:\RTE\BNA\F42_D\F4295.D

Acq Time : 30 MAR 99 6:31 PM

Operator: AM9951

Sample :

Inst :

Misc : 306391 ,QC8167 M SPB-5 CAP COLUMN

Multiplr: 1.00

Quant Time: Mar 31 11:30 1999

Method : C:\METHODS\CF4189.M

Title : BNA STANDARDS FOR 5 POINT CALIBRATION

Last Update : Tue Mar 23 13:25:06 1999

Response via : Multiple Level Calibration

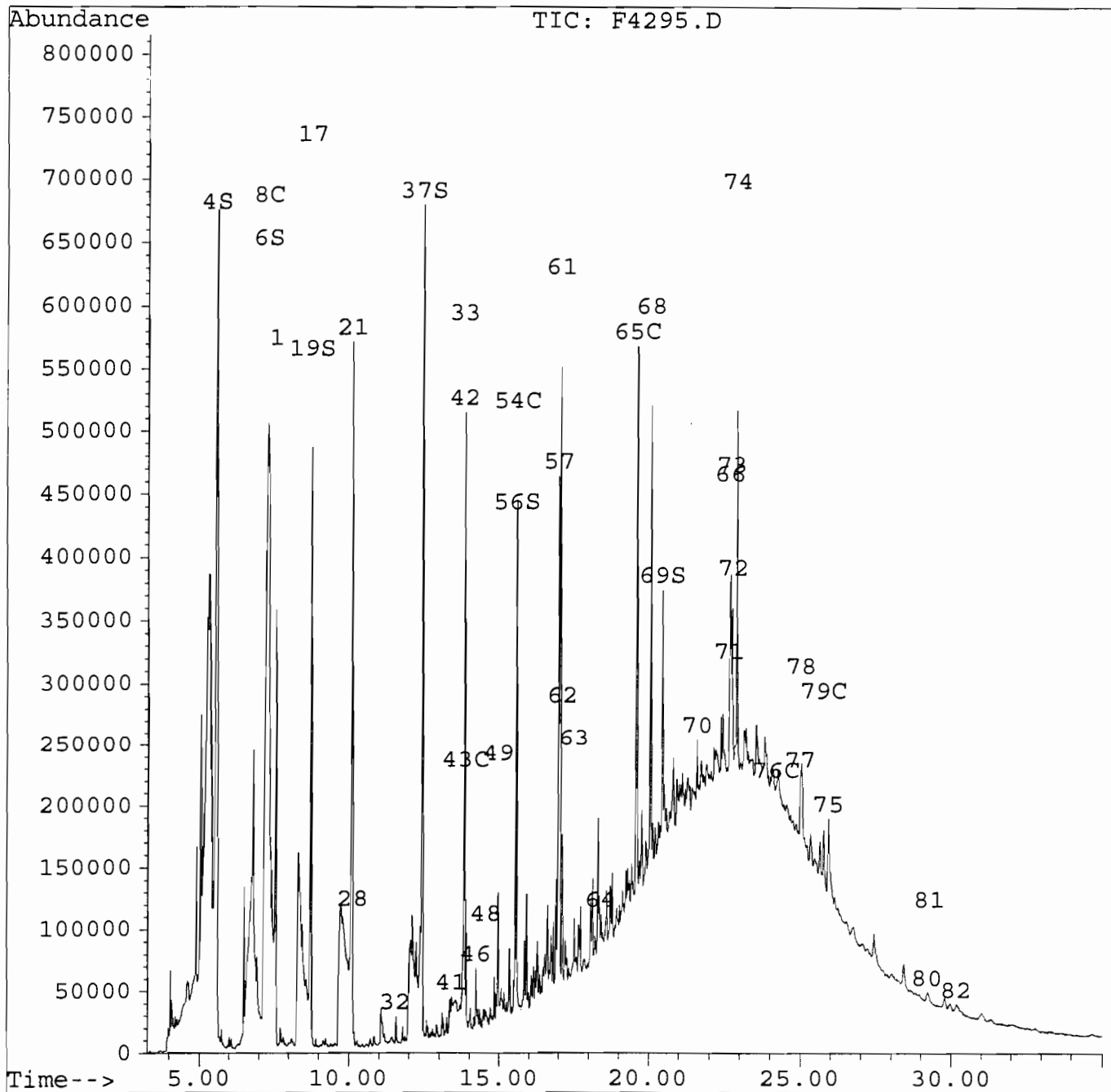
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82) Benzo-(g,h,i)-Perylene(81	30.19	276	12207	11.21	ng/uL#	91

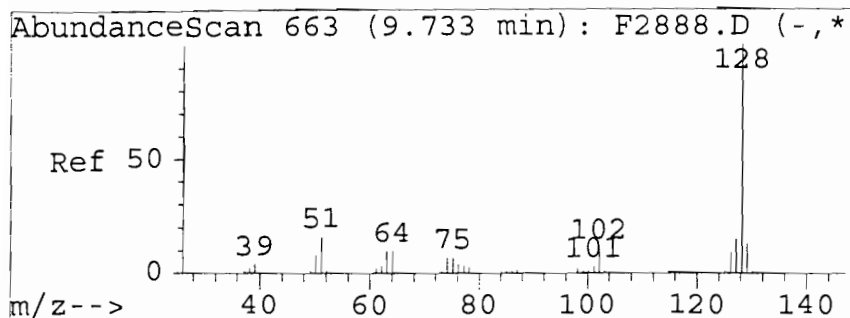
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	5.045	rBV	0.094	356552	4.962	5.055
2	5.243	rBV	0.177	1337257	5.087	5.264
3	5.295	rVV	0.042	626295	5.264	5.305
4	5.326	rVV	0.042	495315	5.305	5.347
5	5.368	rVV	0.031	286836	5.347	5.378
6	5.566	rVB	0.219	3308701	5.451	5.670
7	6.489	rBV	0.062	169166	6.458	6.520
8	6.780	rVV	0.374	1800193	6.520	6.894
9	7.269	rBV	0.302	4780070	7.092	7.394
10	7.415	rVV	0.094	508139	7.394	7.487
11	7.550	rVB	0.146	898020	7.487	7.633
12	8.308	rBV	0.198	1180135	8.214	8.412
13	8.433	rVB	0.125	215246	8.412	8.537
14	8.734	rVB	0.104	1167888	8.662	8.766
15	9.721	rBV	0.156	775447	9.606	9.763
16	10.096	rVB	0.125	1244010	10.002	10.127
17	12.050	rBV	0.157	480576	11.925	12.082
18	12.113	rVV	0.125	491177	12.082	12.207
19	12.238	rVV	0.115	337468	12.207	12.322
20	12.374	rVV	0.073	284045	12.322	12.395
21	12.448	rVB	0.084	1619496	12.395	12.479
22	13.825	rVV	0.073	1084880	13.783	13.856
23	13.888	rVB	0.115	184967	13.856	13.971
24	14.964	rVV	0.084	176390	14.923	15.006
25	15.562	rVB	0.095	932083	15.499	15.594
26	15.908	rVV	0.073	180656	15.866	15.939
27	16.894	rBV	0.095	180681	16.831	16.926
28	16.968	rVV	0.074	1139581	16.926	16.999
29	17.031	rVB	0.063	941684	16.999	17.062
30	17.104	rVV	0.084	227118	17.073	17.157
31	18.302	rBV	0.084	255208	18.250	18.334
32	19.588	rBV	0.127	1096542	19.524	19.651
33	20.052	rVV	0.095	850758	19.999	20.094
34	20.443	rBV	0.074	395950	20.401	20.475
35	22.688	rBV	0.106	571250	22.603	22.709
36	22.741	rVB	0.064	259978	22.709	22.772
37	22.889	rVB	0.127	615194	22.857	22.984
38	25.019	rVB	0.169	320818	24.945	25.114
39	25.759	rVB	0.137	172333	25.717	25.854
40	25.918	rVB	0.222	360568	25.865	26.087

Quantitation Report

Data File : F:\RTE\BNA\F42_D\F4295.D
Acq Time : Data Taken: 3/30/99 @ 18:31 Operator: AM9951
Sample : Inst :
Misc : 306391 ,QC8167 M SPB-5 CAP COLUMN Multiplr: 1.00
Quant Time: Mar 31 11:30 1999

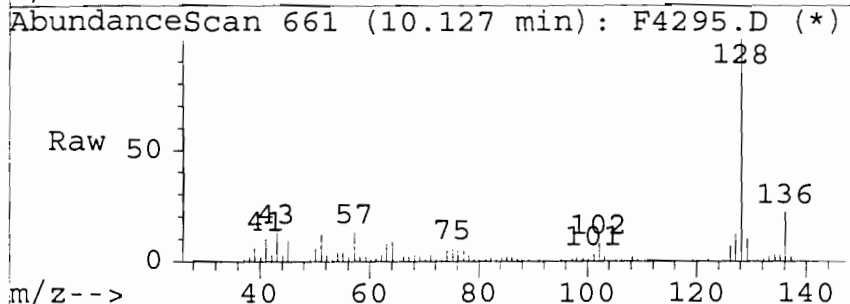
Method : C:\METHODS\CF4189.M
Title : BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Mar 23 13:25:06 1999
Response via : Multiple Level Calibration



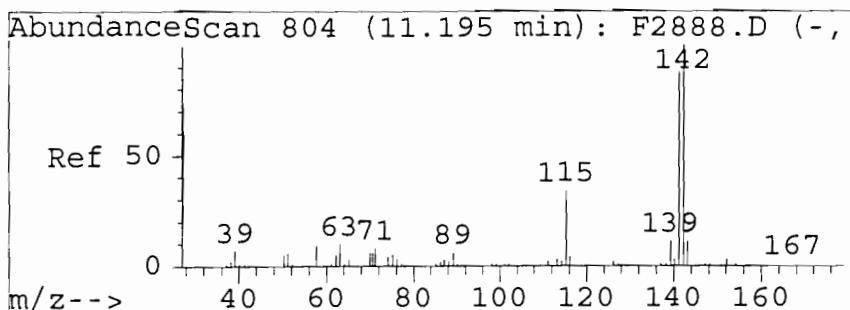
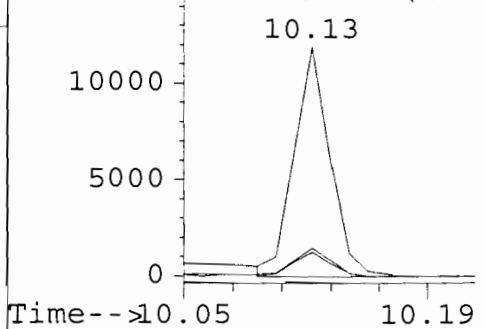
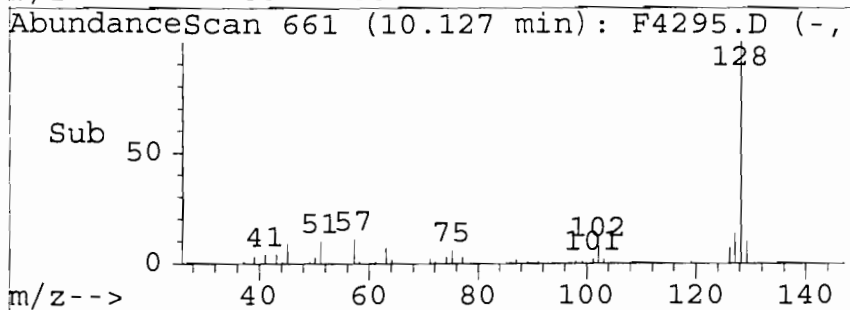


#28
 Naphthalene(28)
 Concen: 1.09 ng/uL m
 RT: 10.13 min Scan# 661
 Delta R.T. -0.06 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

Tgt Ion	Resp	Lower	Upper
128	16740		
128	100	50.0	150.0
127	0.0	0.0	63.8
129	10.8	0.0	60.2

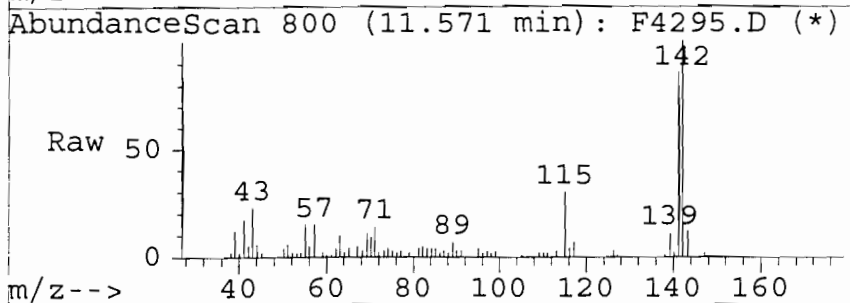


Abundance	Ion	Time
128.00	128	10.13
128.00	127	10.13
127.00	127	10.13
129.00	129	10.13

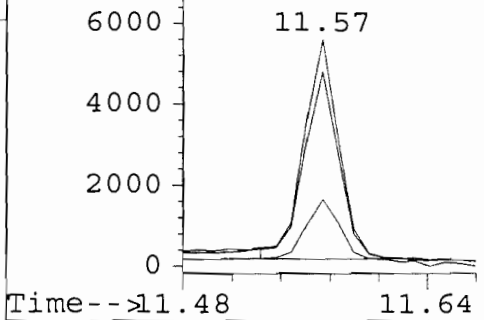
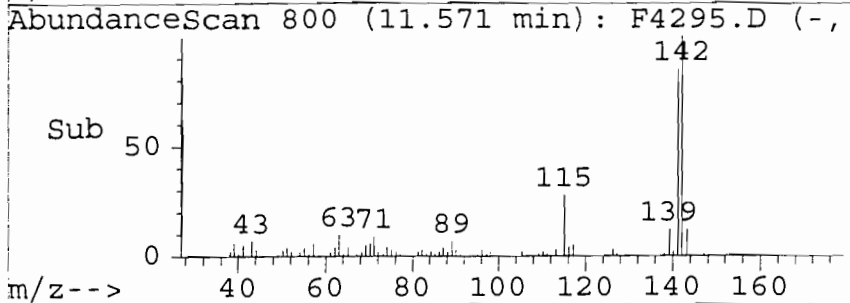


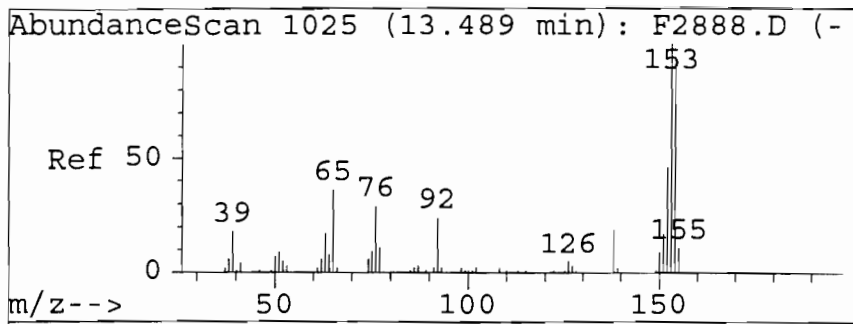
#32
 2-Methylnaphthalene(32)
 Concen: 0.94 ng/uL m
 RT: 11.57 min Scan# 800
 Delta R.T. -0.06 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

Tgt Ion	Resp	Lower	Upper
142	8697		
142	100	50.0	150.0
141	0.0	41.5	141.5#
115	0.0	0.0	89.4



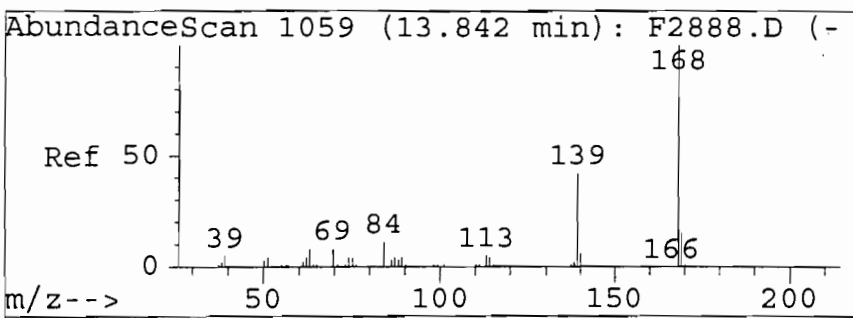
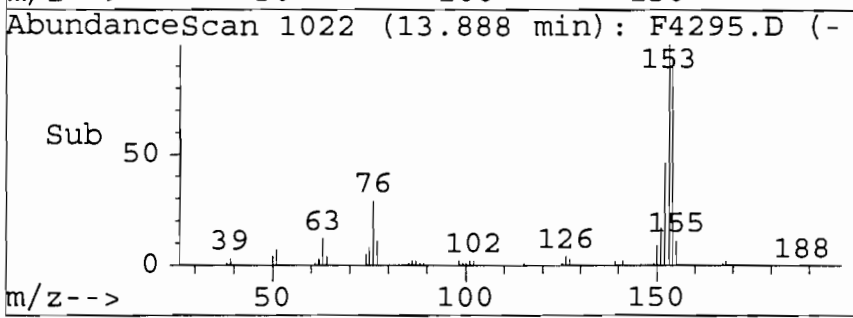
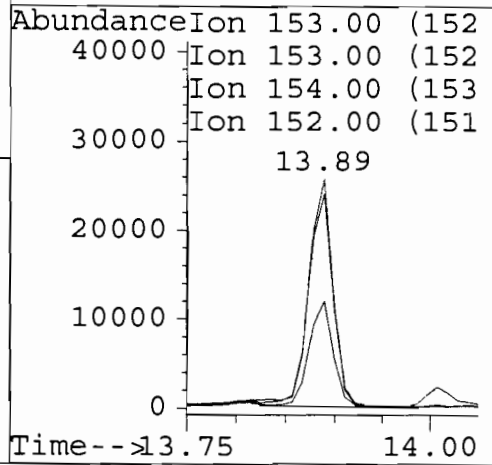
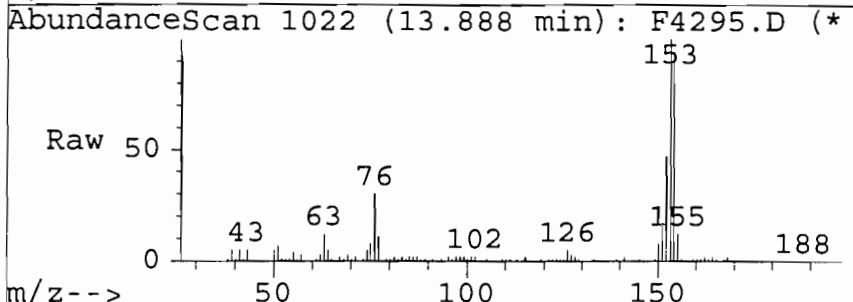
Abundance	Ion	Time
142.00	142	11.57
142.00	141	11.57
141.00	141	11.57
115.00	115	11.57





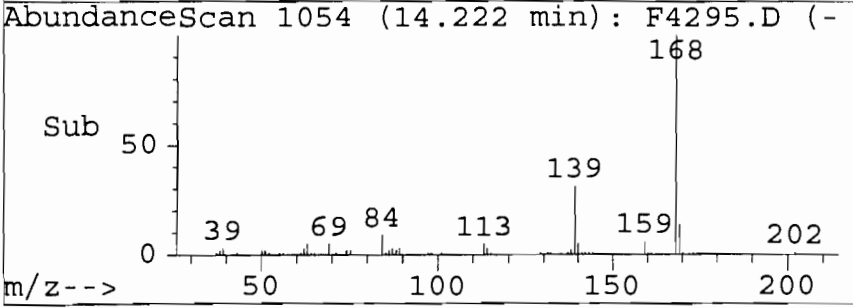
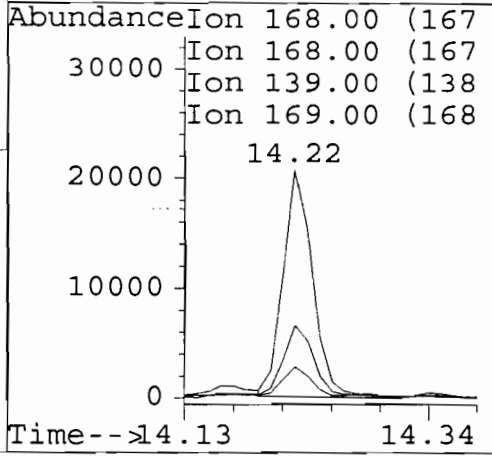
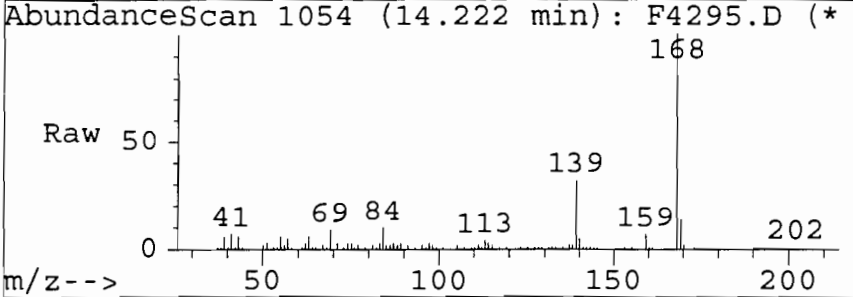
#43
 Acenaphthene (44G)
 Concen: 4.09 ng/uL
 RT: 13.89 min Scan# 1022
 Delta R.T. -0.07 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

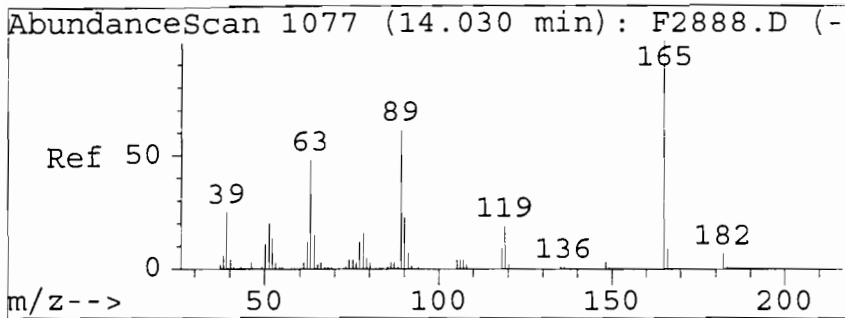
Tgt Ion	Resp	Lower	Upper
153	42684		
153	100		
153	100.0	50.0	150.0
154	92.0	38.7	138.7
152	0.0	0.0	98.6



#46
 Dibenzofuran (47G)
 Concen: 2.46 ng/uL
 RT: 14.22 min Scan# 1054
 Delta R.T. -0.07 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

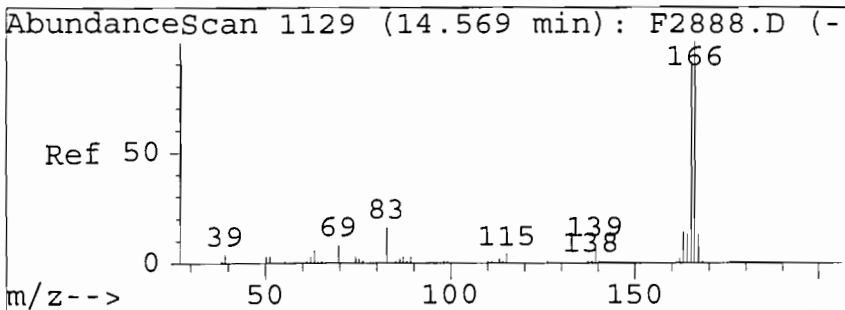
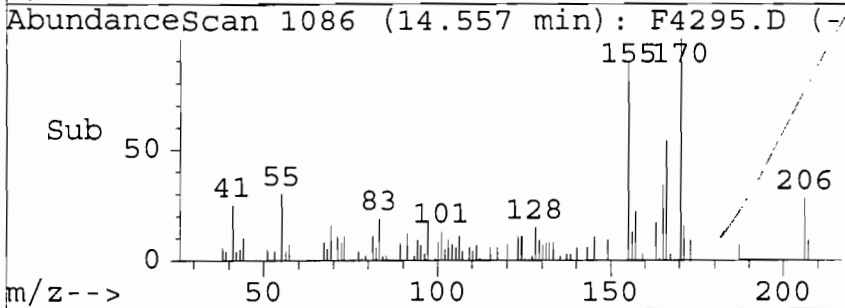
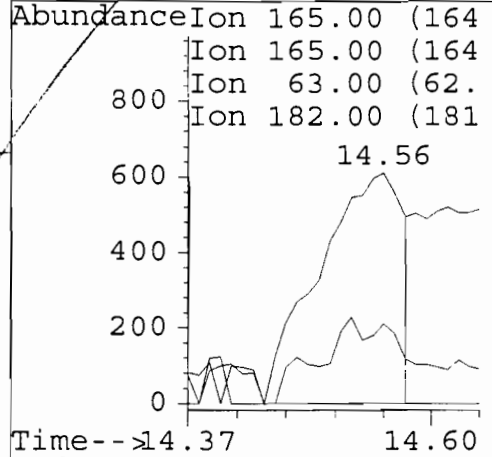
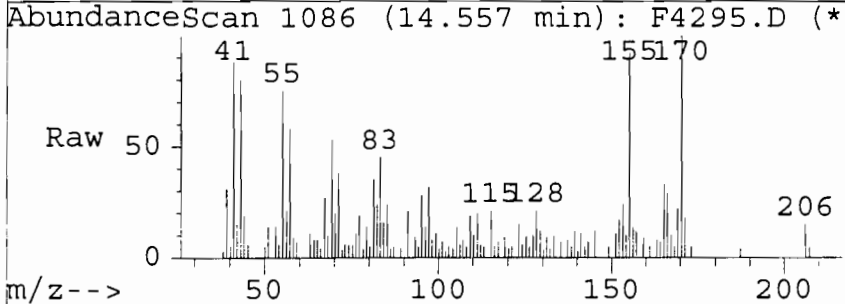
Tgt Ion	Resp	Lower	Upper
168	35712		
168	100		
168	100.0	50.0	150.0
139	0.0	0.0	87.8
169	14.2	0.0	62.8





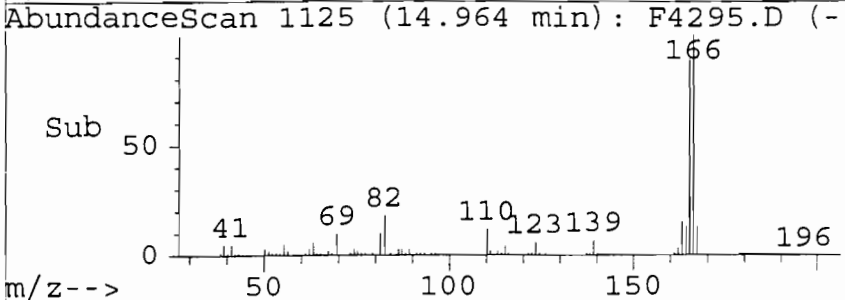
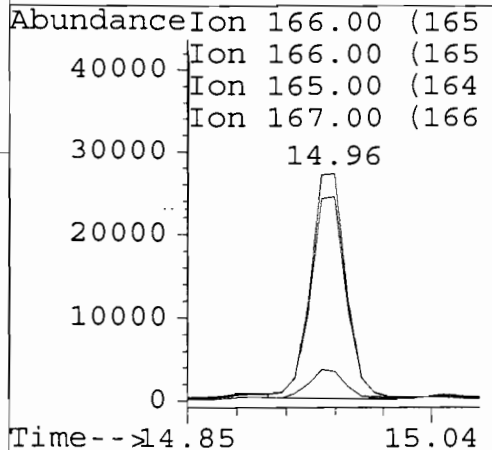
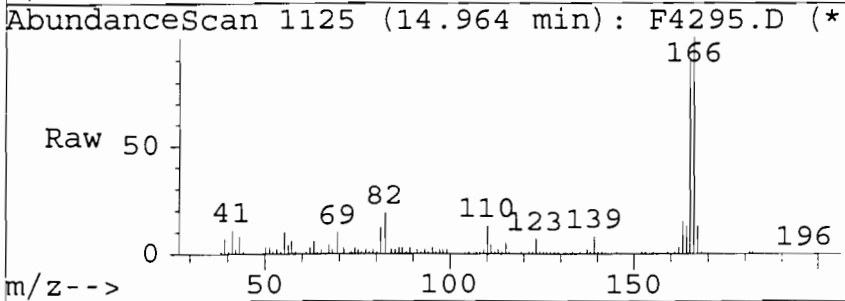
#48
 2,4-Dinitrotoluene(48G)
 Concen: 0.63 ng/uL
 RT: 14.56 min Scan# 1086
 Delta R.T. 0.09 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

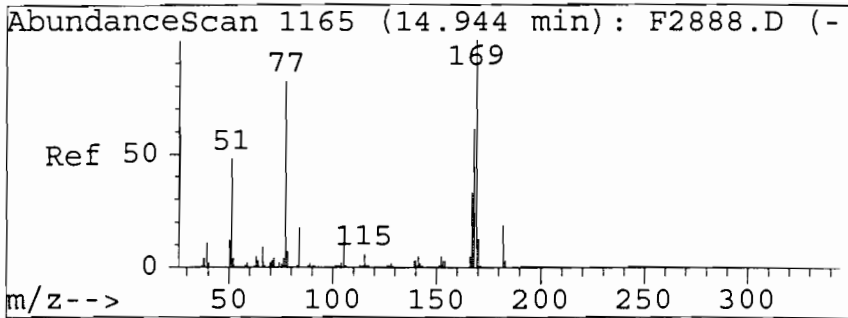
Tgt Ion	Ratio	Lower	Upper
165	100		
165	100.0	50.0	150.0
63	0.0	9.1	109.1#
182	0.0	0.0	54.6



#49
 Fluorene (51G)
 Concen: 5.08 ng/uL
 RT: 14.96 min Scan# 1125
 Delta R.T. -0.07 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

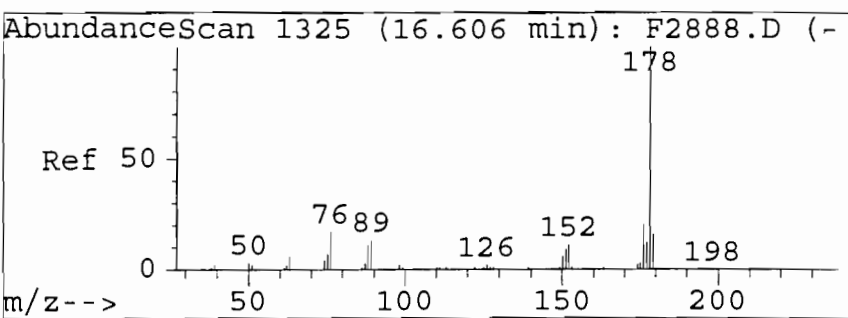
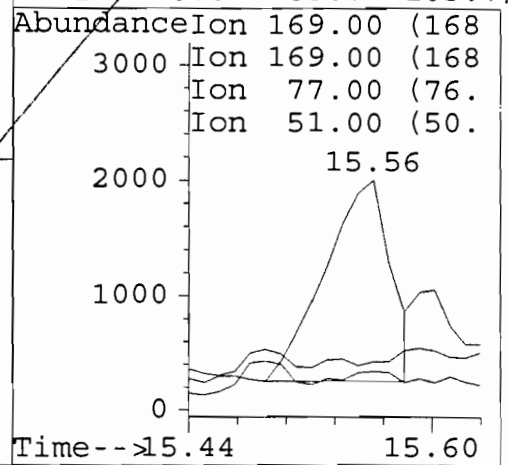
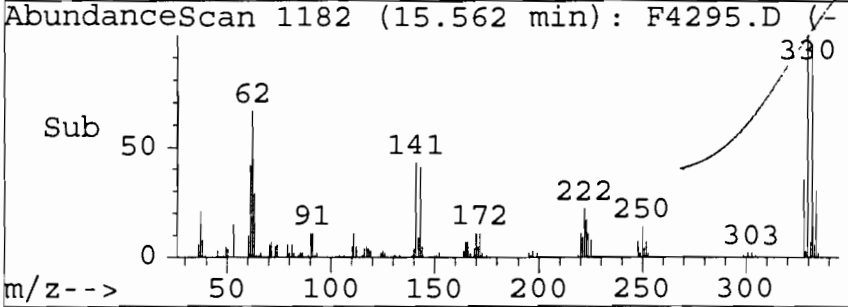
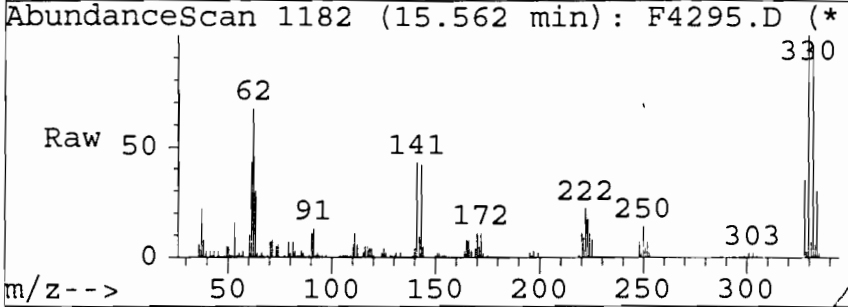
Tgt Ion	Ratio	Lower	Upper
166	100		
166	100.0	50.0	150.0
165	0.0	47.3	147.3#
167	0.0	0.0	62.8





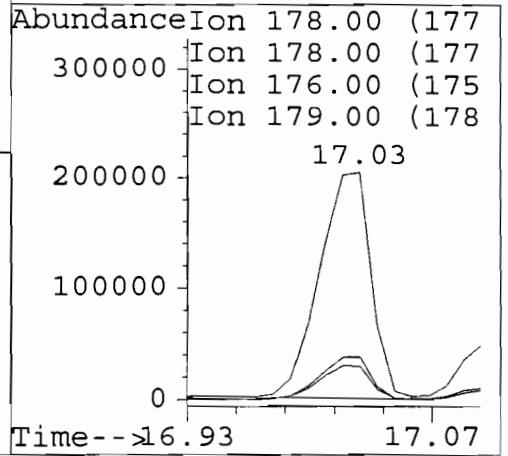
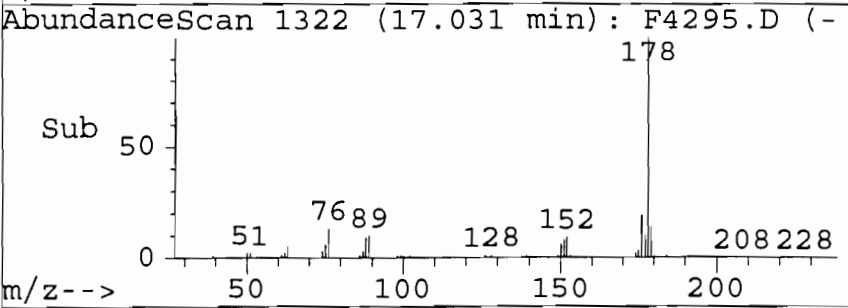
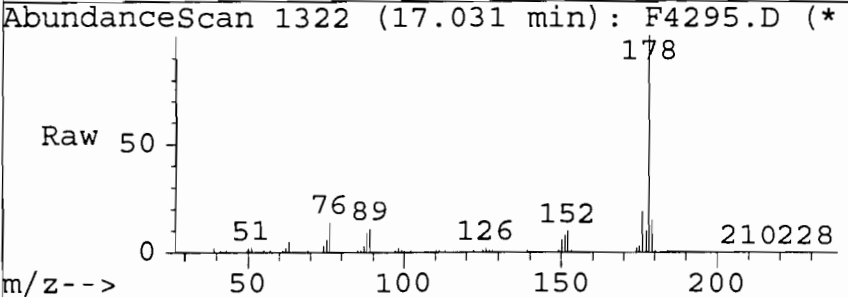
#54
 n-Nitrosodiphenyl Amine(56G)
 Concen: 0.72 ng/uL
 RT: 15.56 min Scan# 1182
 Delta R.T. 0.20 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

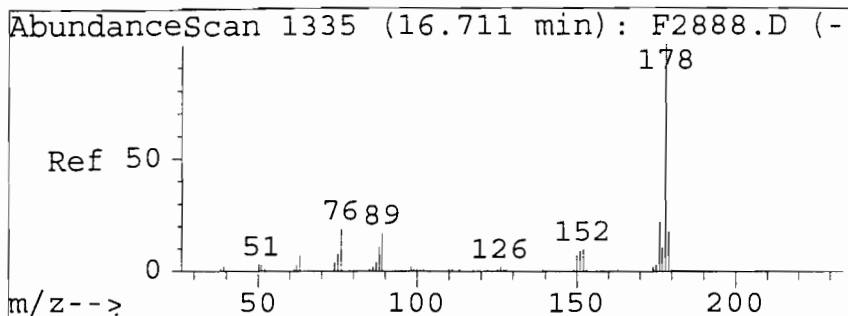
Tgt Ion	Resp	Lower	Upper
169	5461		
169	100	80.0	120.0
77	0.0	122.5	162.5#
51	0.0	65.7	105.7#



#61
 Phenanthrene(61G)
 Concen: 41.31 ng/uL
 RT: 17.03 min Scan# 1322
 Delta R.T. -0.14 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

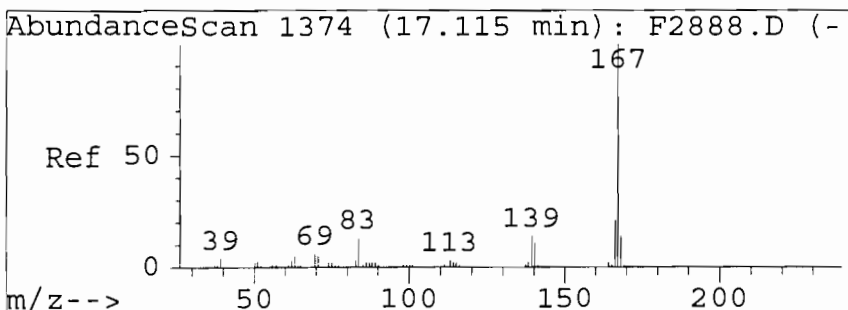
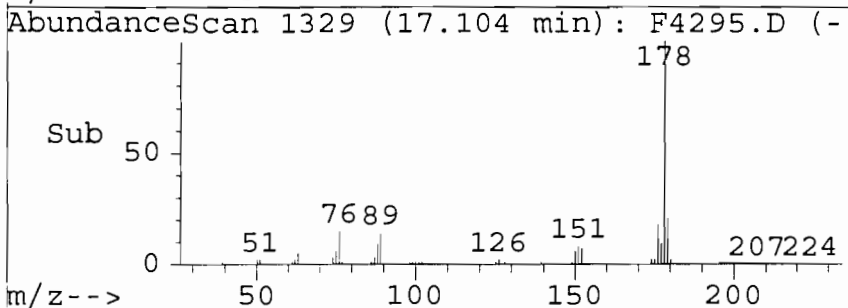
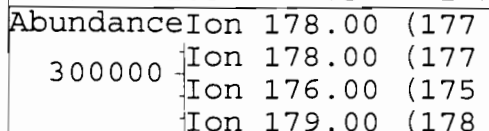
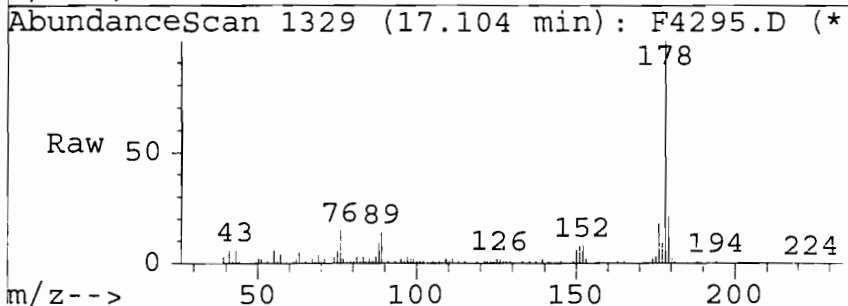
Tgt Ion	Resp	Lower	Upper
178	446988		
178	100	50.0	150.0
176	0.0	0.0	69.5
179	0.0	0.0	64.7





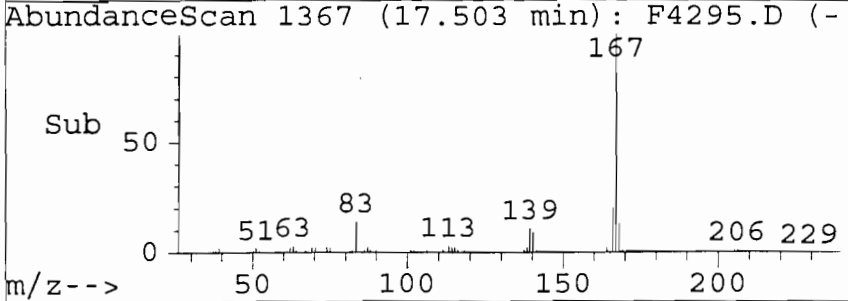
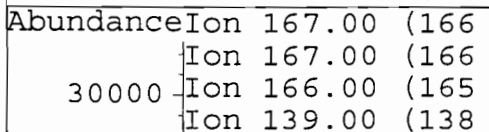
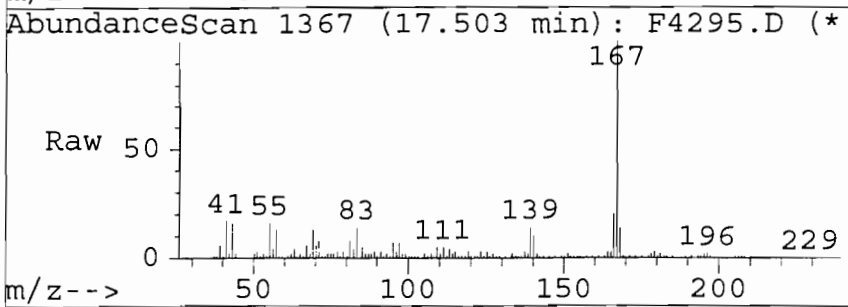
#62
 Anthracene(62G)
 Concen: 8.62 ng/uL m
 RT: 17.10 min Scan# 1329
 Delta R.T. -0.07 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

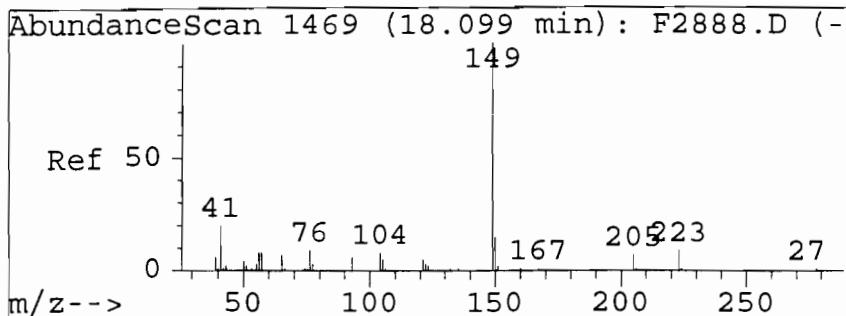
Tgt Ion	Resp	Lower	Upper
178	100		
178	100.0	50.0	150.0
176	17.9	9.6	28.7
179	21.3	7.3	21.9



#63
 Carbazole(21S)
 Concen: 4.47 ng/uL
 RT: 17.50 min Scan# 1367
 Delta R.T. -0.07 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

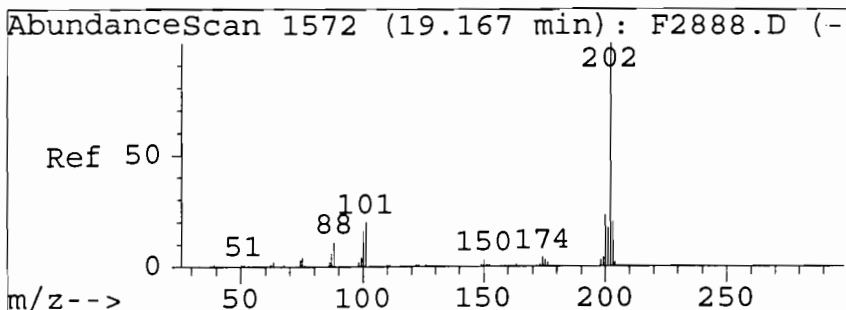
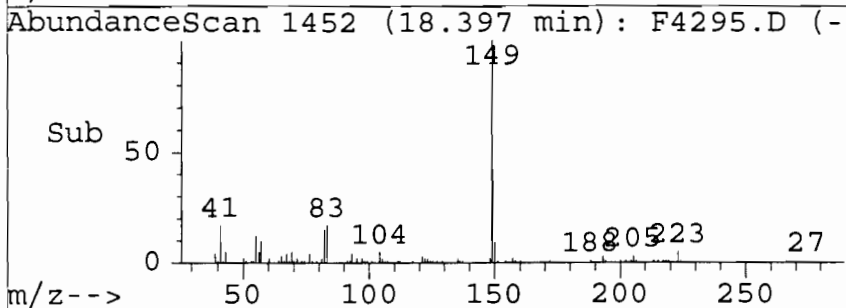
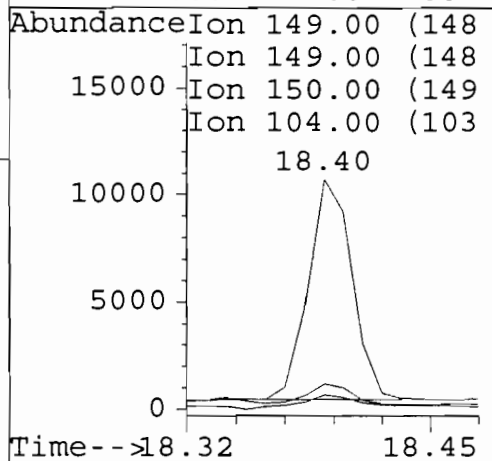
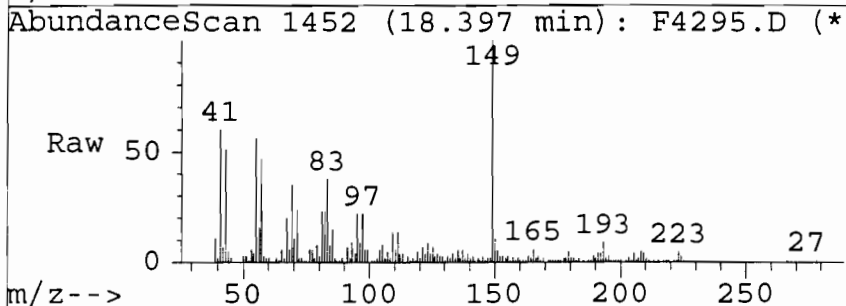
Tgt Ion	Resp	Lower	Upper
167	100		
167	100.0	50.0	150.0
166	0.0	0.0	71.8
139	0.0	0.0	64.4





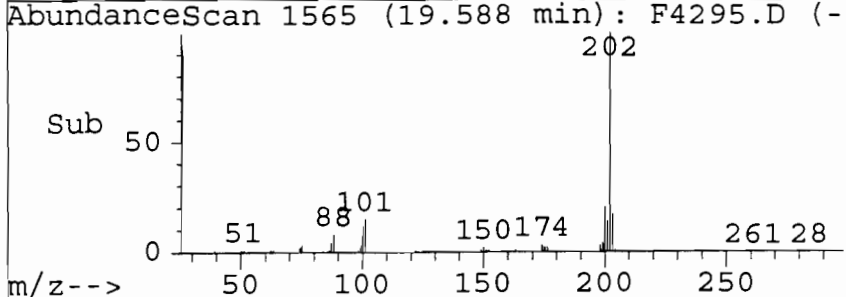
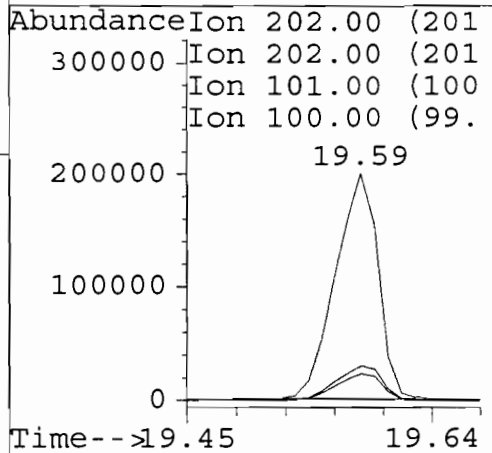
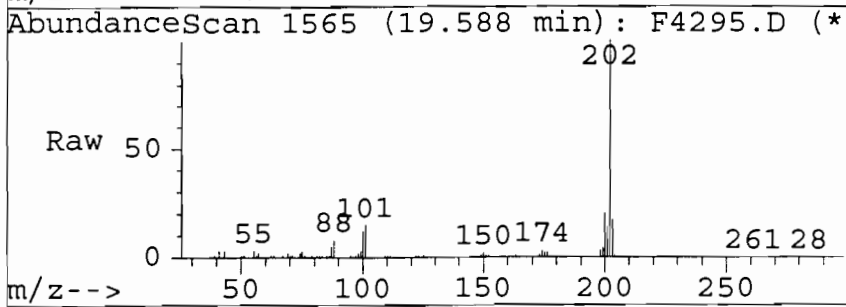
#64
 Di-n-butyl Phthalate(63G)
 Concen: 1.52 ng/uL
 RT: 18.40 min Scan# 1452
 Delta R.T. -0.07 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

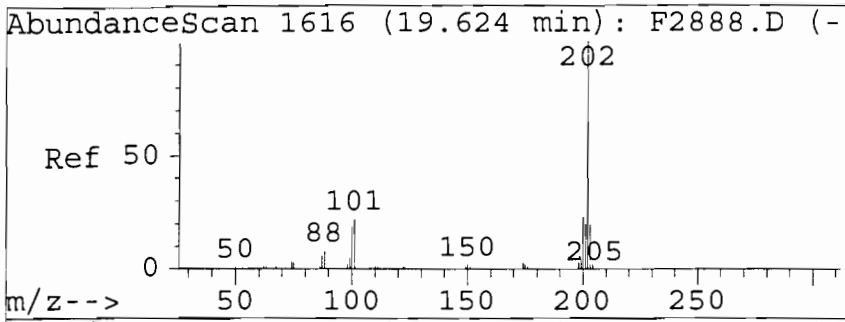
Tgt Ion	Resp	Lower	Upper
149	17003		
149	100		
149	100.0	50.0	150.0
150	9.6	0.0	59.3
104	0.0	0.0	55.1



#65
 Fluoranthene(64G)
 Concen: 37.82 ng/uL
 RT: 19.59 min Scan# 1565
 Delta R.T. -0.05 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

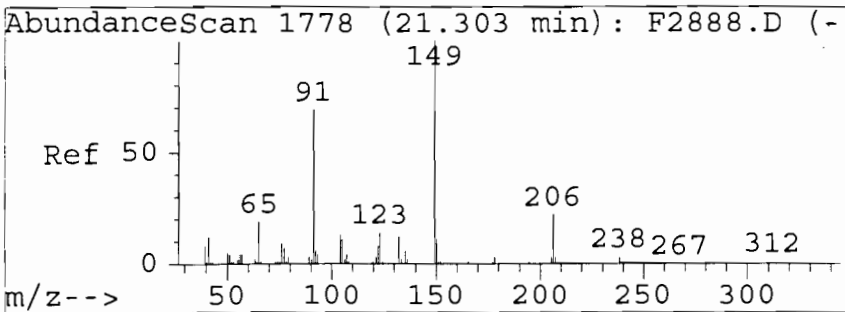
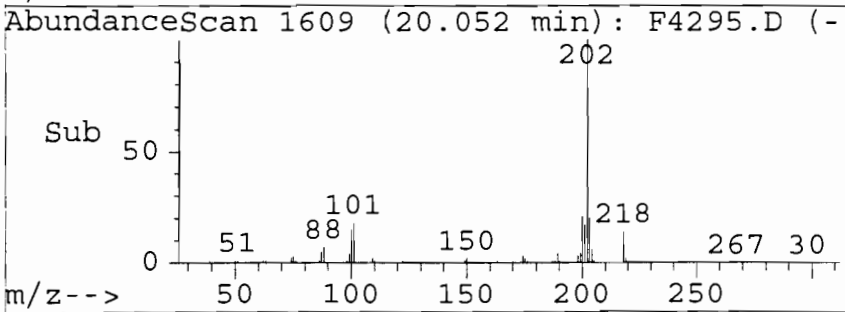
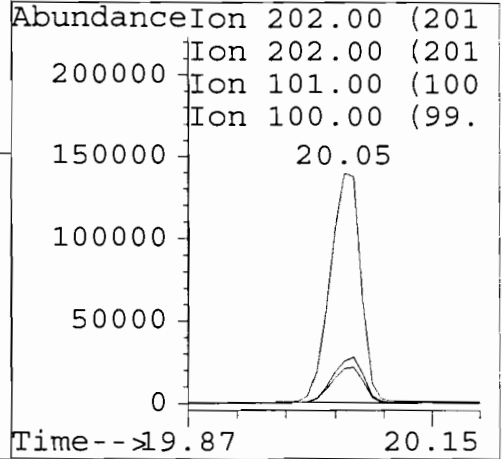
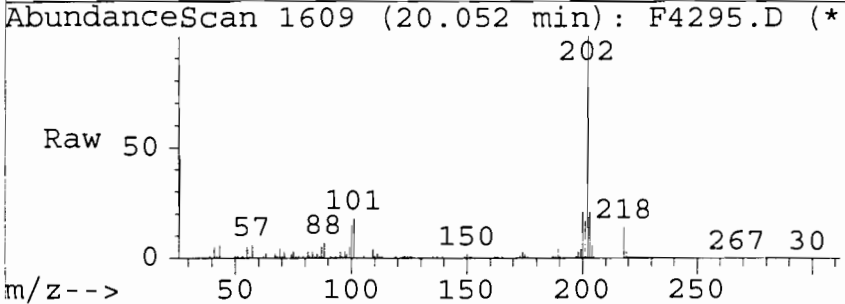
Tgt Ion	Resp	Lower	Upper
202	464881		
202	100		
202	100.0	50.0	150.0
101	0.0	0.0	63.1
100	0.0	0.0	60.9





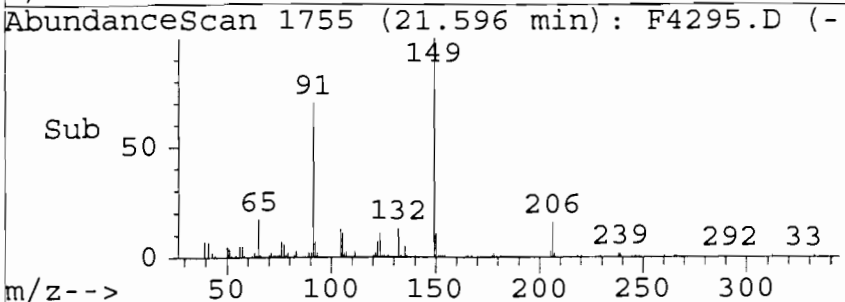
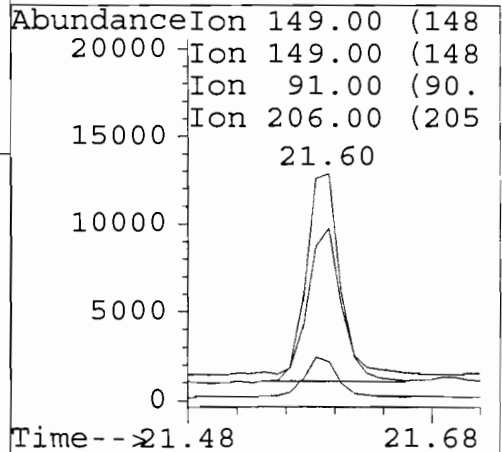
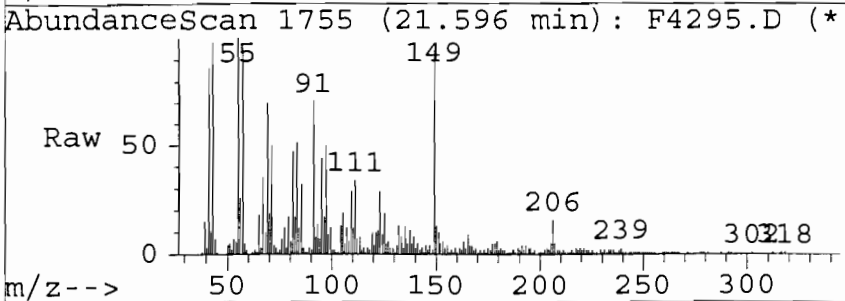
#68
 Pyrene (67G)
 Concen: 67.99 ng/uL
 RT: 20.05 min Scan# 1609
 Delta R.T. -0.06 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

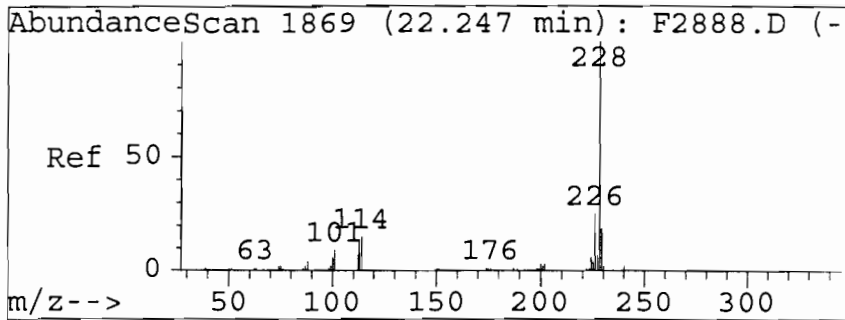
Tgt Ion	Resp	Lower	Upper
202	343958		
202	100	50.0	150.0
101	20.3	0.0	65.0
100	16.4	0.0	63.5



#70
 Butylbenzyl Phthalate (69G)
 Concen: 9.13 ng/uL
 RT: 21.60 min Scan# 1755
 Delta R.T. -0.05 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

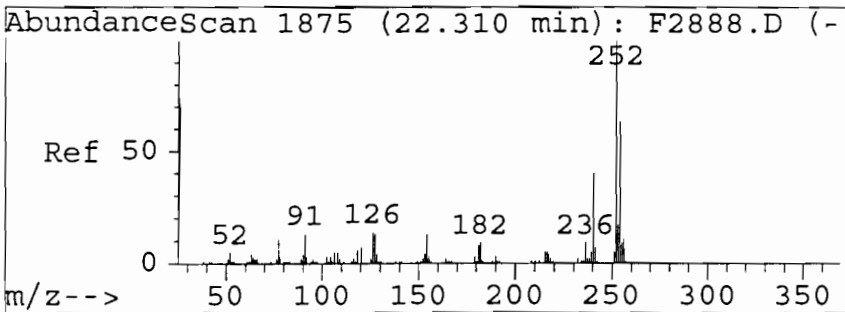
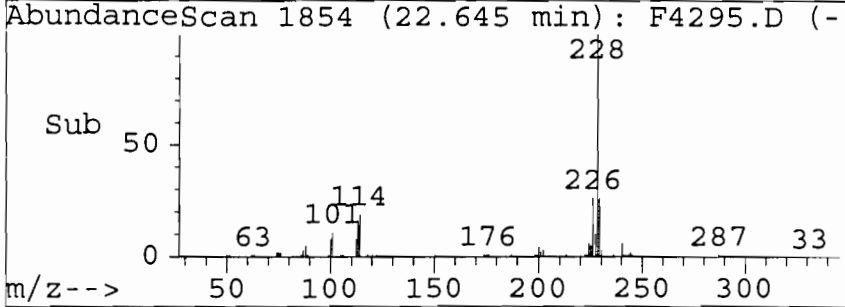
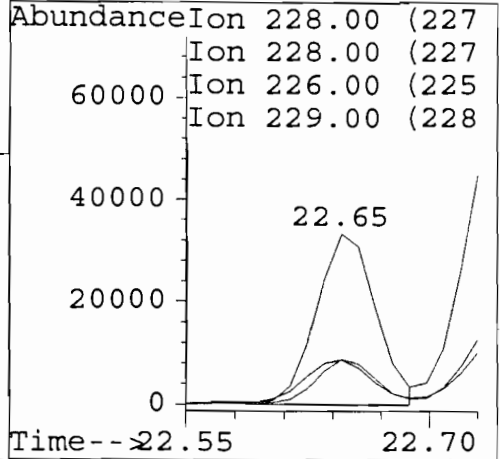
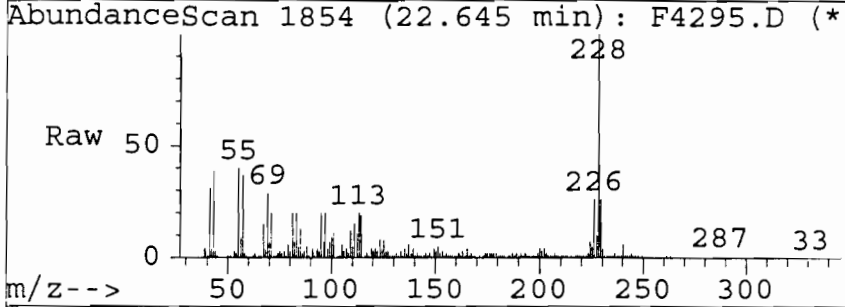
Tgt Ion	Resp	Lower	Upper
149	22914		
149	100	50.0	150.0
91	0.0	15.5	115.5#
206	0.0	0.0	67.1





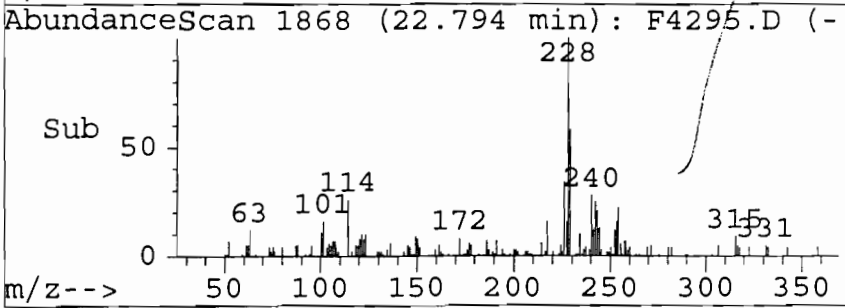
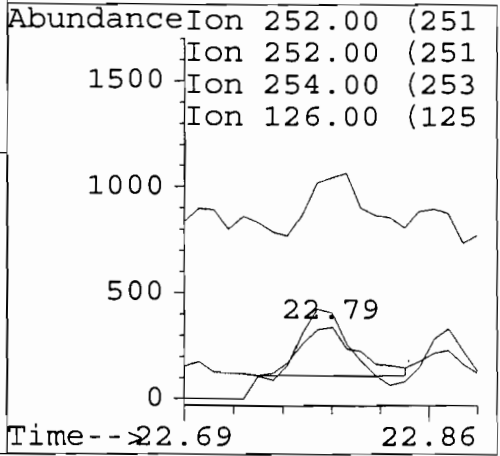
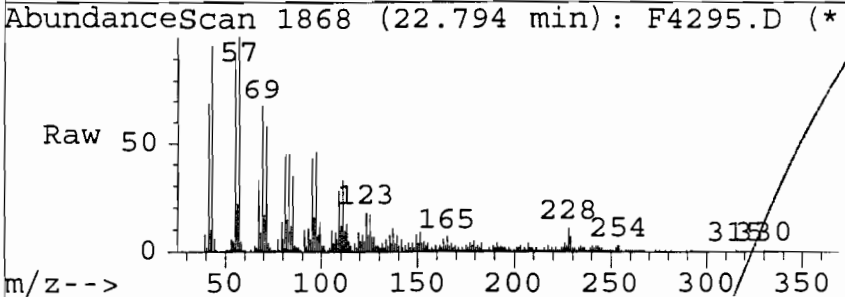
#71
 Benzo-(a)-Anthracene(71G)
 Concen: 20.52 ng/uL m
 RT: 22.65 min Scan# 1854
 Delta R.T. -0.17 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

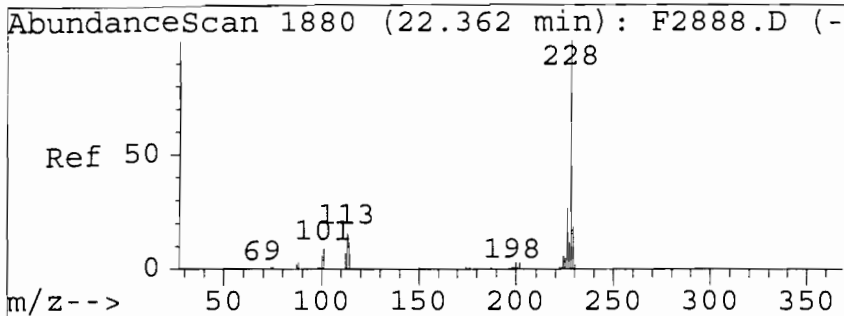
Tgt Ion	Resp	Lower	Upper
228	85244		
228	100	50.0	150.0
226	26.3	0.0	77.1
229	26.2	0.0	68.9



#72
 3,3'-Dichlorobenzidine
 Concen: 0.73 ng/uL
 RT: 22.79 min Scan# 1868
 Delta R.T. 0.07 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

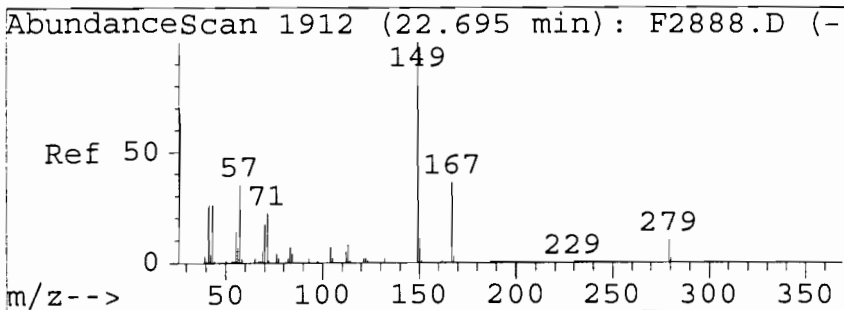
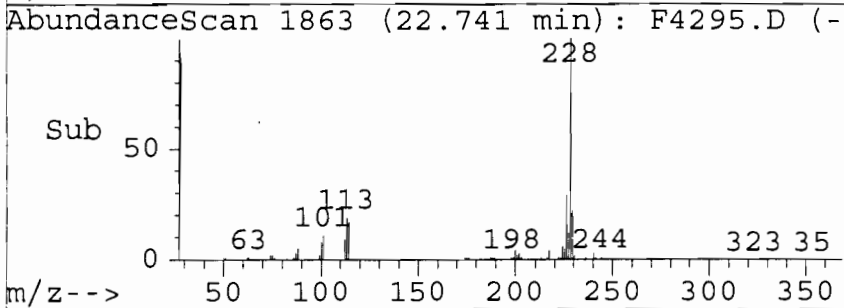
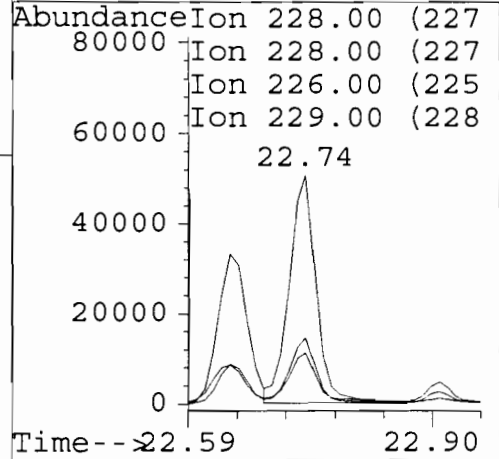
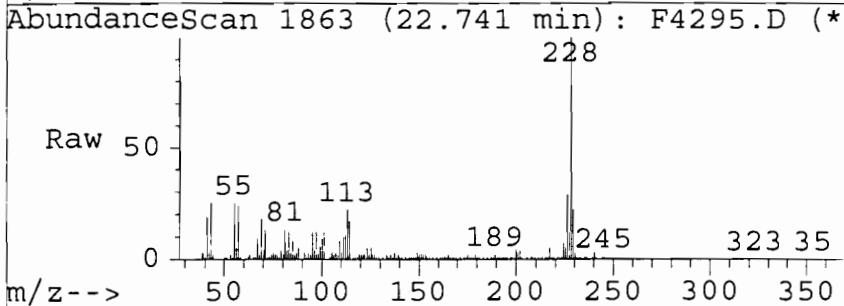
Tgt Ion	Resp	Lower	Upper
252	674		
252	100	50.0	150.0
254	0.0	12.4	112.4#
126	121.2	0.0	61.7#





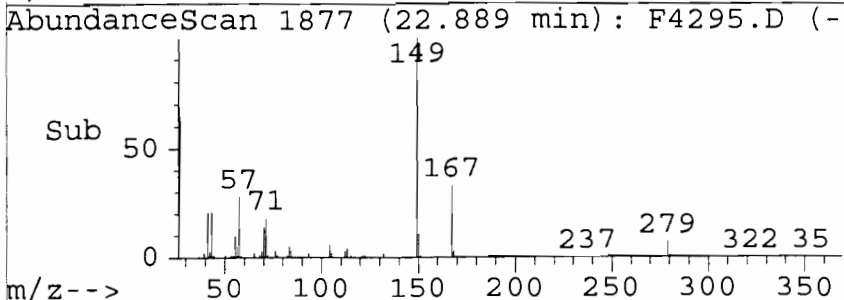
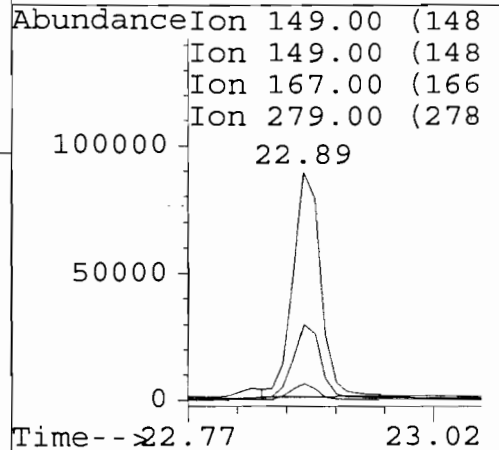
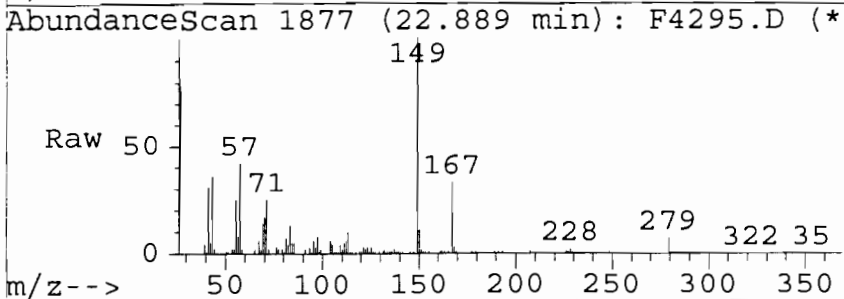
#73
 Chrysene (72G)
 Concen: 28.19 ng/uL
 RT: 22.74 min Scan# 1863
 Delta R.T. -0.07 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

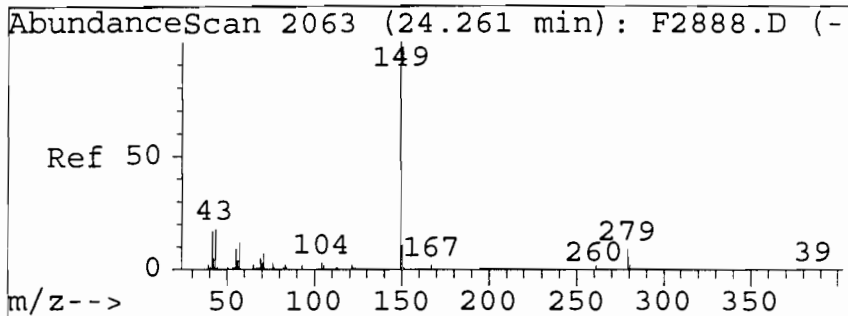
Tgt Ion	Resp	Lower	Upper
228	119628		
228	100	50.0	150.0
226	0.0	0.0	79.7
229	18.7	0.0	69.2



#74
 Bis (2-Ethylhexyl) Phthalate (74)
 Concen: 51.38 ng/uL
 RT: 22.89 min Scan# 1877
 Delta R.T. -0.05 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

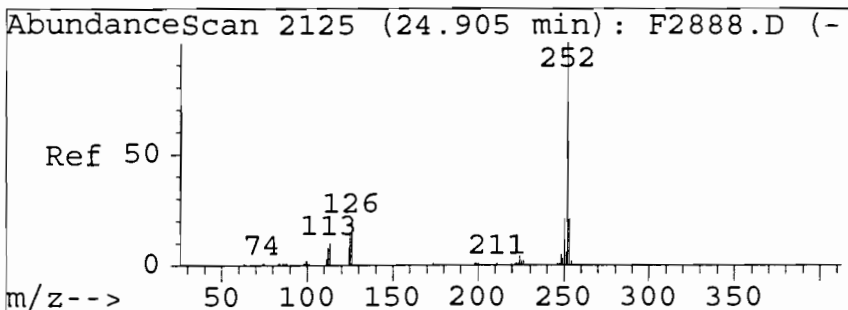
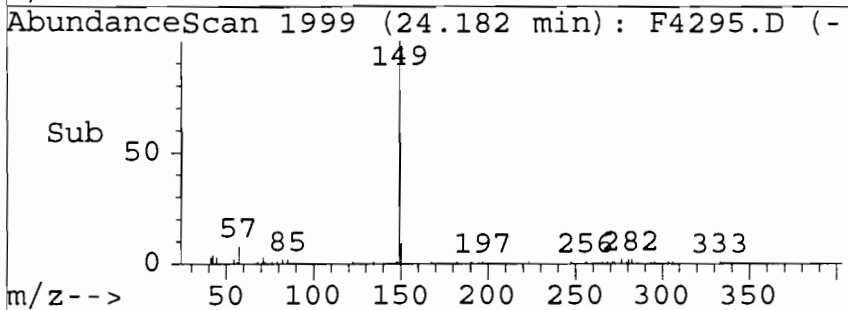
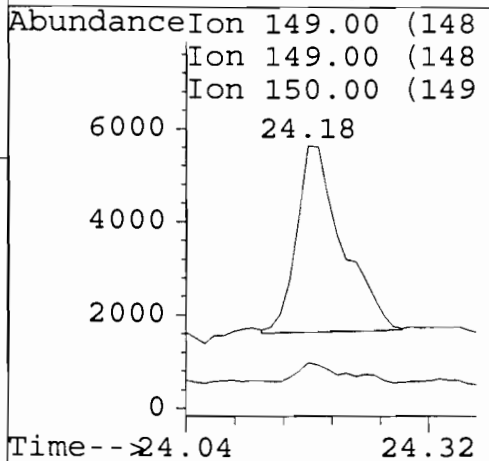
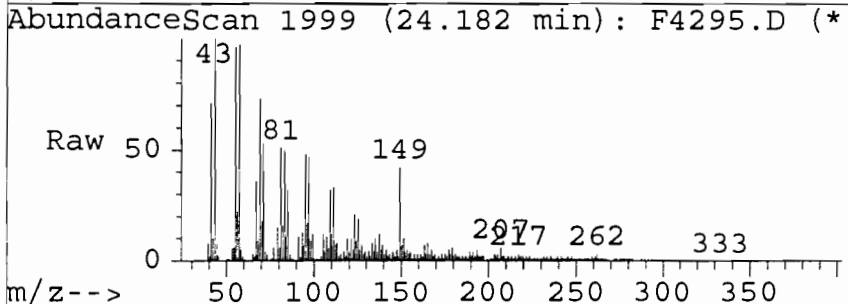
Tgt Ion	Resp	Lower	Upper
149	168525		
149	100	50.0	150.0
167	32.1	0.0	80.6
279	6.8	0.0	56.6





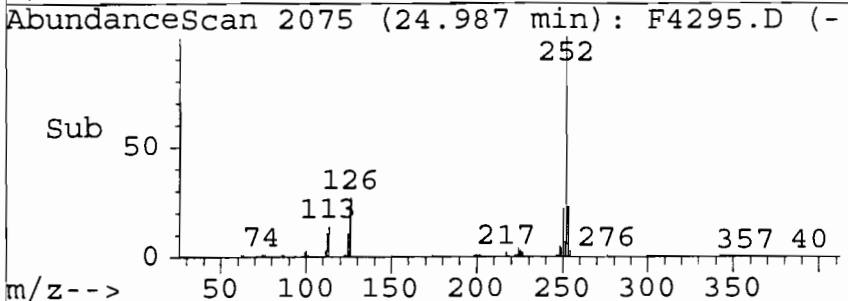
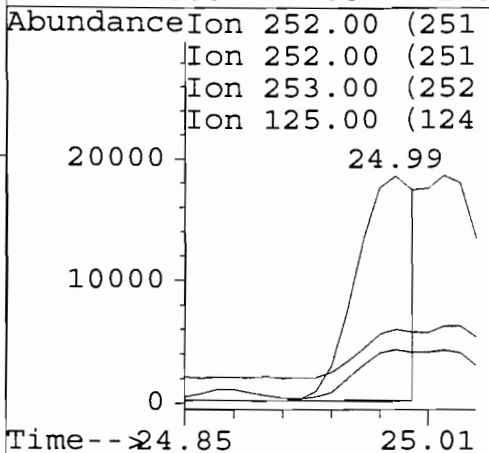
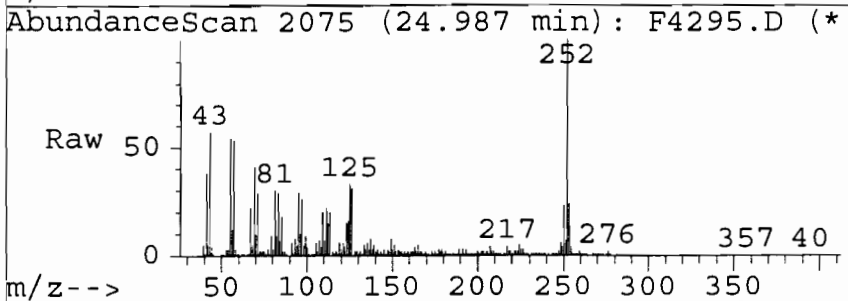
#76
 Di-n-Octyl Phthalate(75G)
 Concen: 3.36 ng/uL
 RT: 24.18 min Scan# 1999
 Delta R.T. -0.05 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

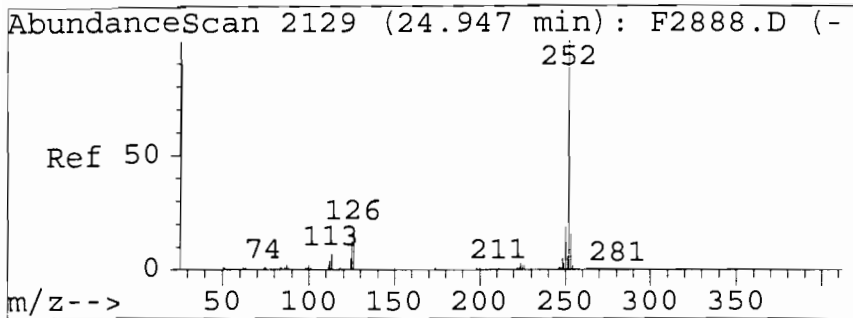
Tgt Ion	Resp	Lower	Upper
149	14231		
149	100	50.0	150.0
150	9.4	0.0	61.1
0	0.0	0.0	0.0



#77
 Benzo-(b)-Fluoranthene(76G)
 Concen: 19.48 ng/uL
 RT: 24.99 min Scan# 2075
 Delta R.T. -0.11 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

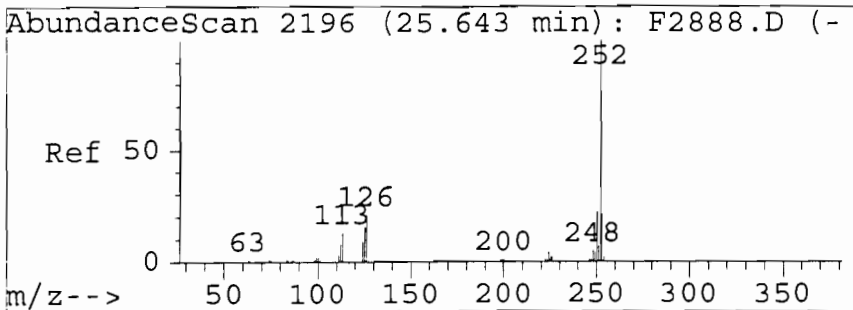
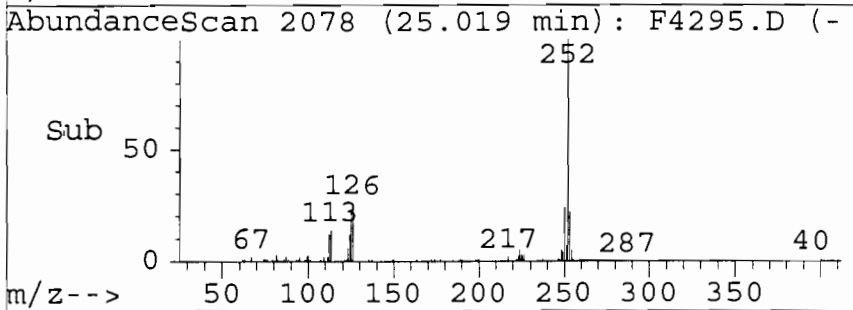
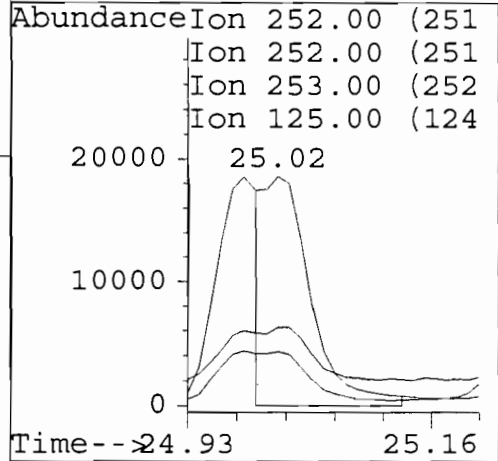
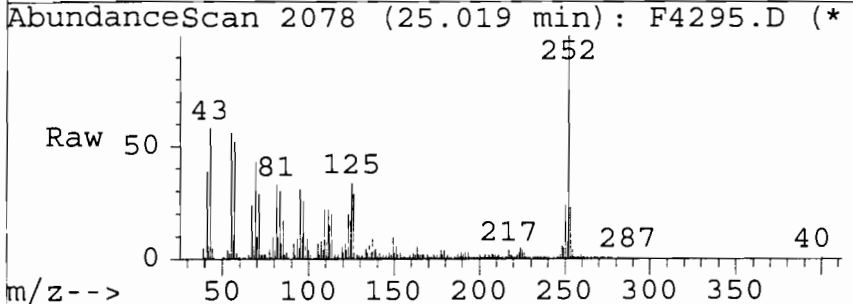
Tgt Ion	Resp	Lower	Upper
252	49237		
252	100	50.0	150.0
253	26.6	0.0	70.8
125	0.0	0.0	62.9





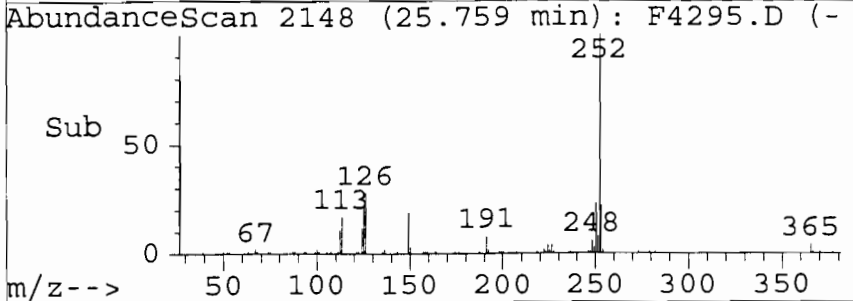
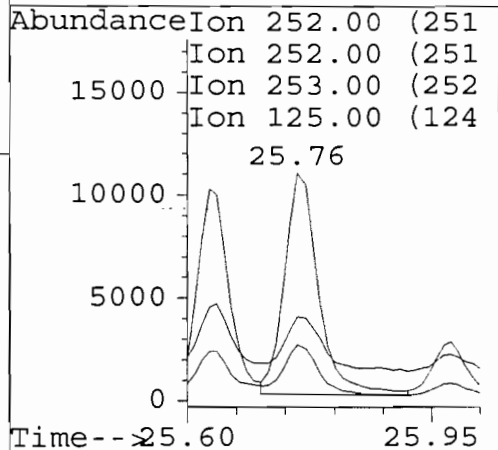
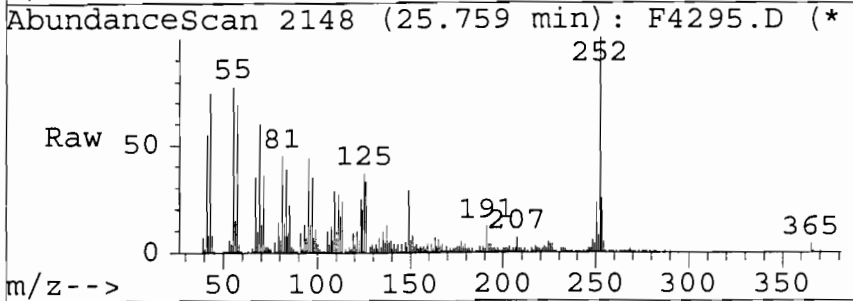
#78
 Benzo-(k)-Fluoranthene(77G)
 Concen: 21.29 ng/uL m
 RT: 25.02 min Scan# 2078
 Delta R.T. -0.07 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

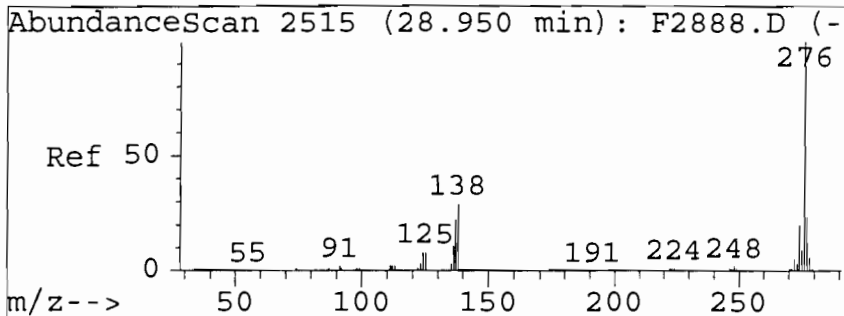
Tgt Ion	Ratio	Lower	Upper
252	100		
252	100.0	50.0	150.0
253	23.3	0.0	71.0
125	33.7	0.0	60.3



#79
 Benzo-(a)-Pyrene(78G)
 Concen: 16.41 ng/uL
 RT: 25.76 min Scan# 2148
 Delta R.T. -0.06 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

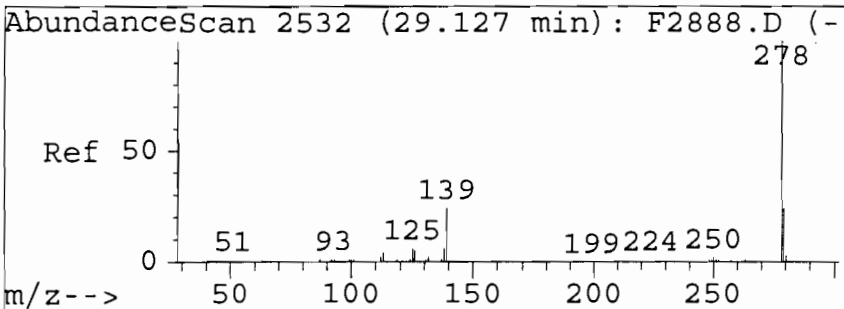
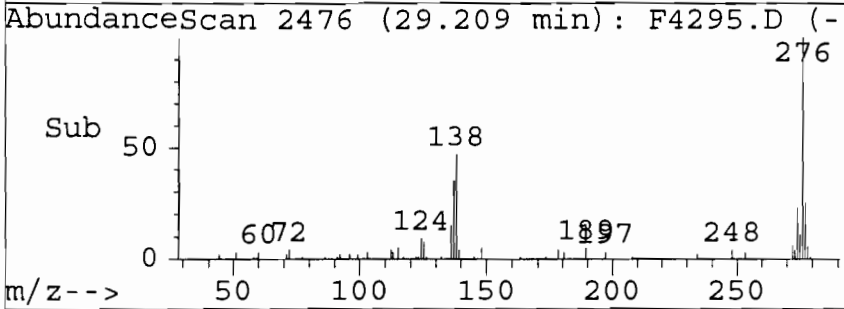
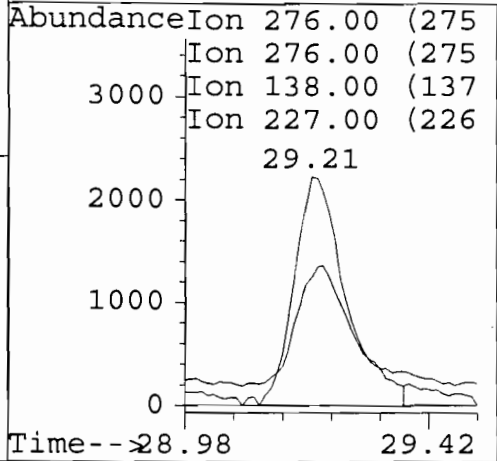
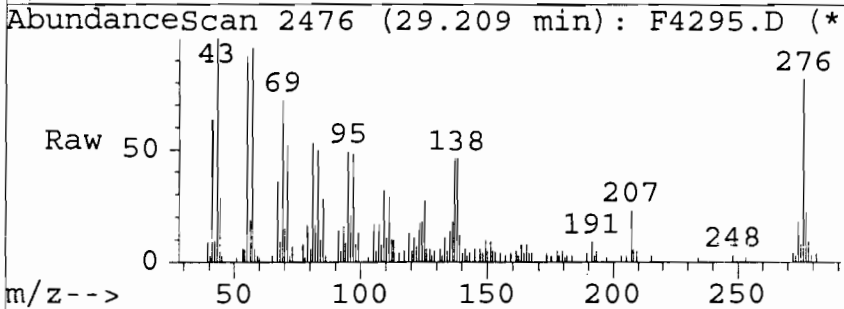
Tgt Ion	Ratio	Lower	Upper
252	100		
252	100.0	50.0	150.0
253	24.2	0.0	70.9
125	0.0	0.0	64.5





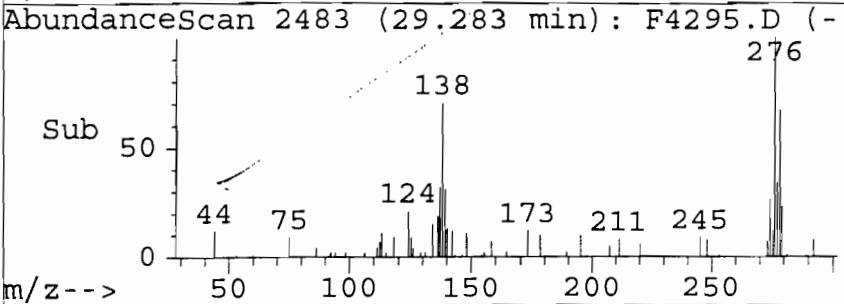
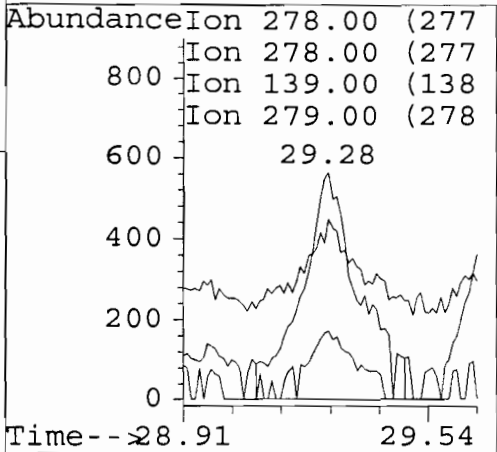
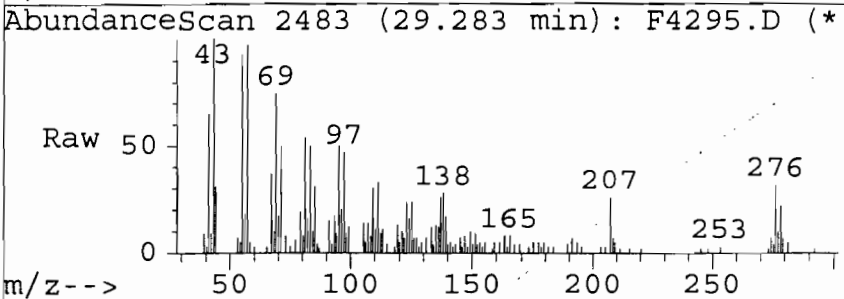
#80
 Indeno-(1,2,3-cd)-Pyrene (79G)
 Concen: 10.25 ng/uL
 RT: 29.21 min Scan# 2476
 Delta R.T. -0.08 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

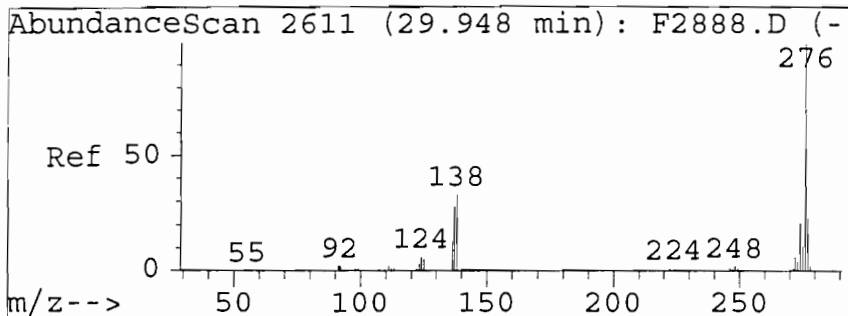
Tgt Ion	Resp	Lower	Upper
276	14527		
276	100		
276	100.0	50.0	150.0
138	0.0	0.0	74.7
227	0.0	0.0	50.0



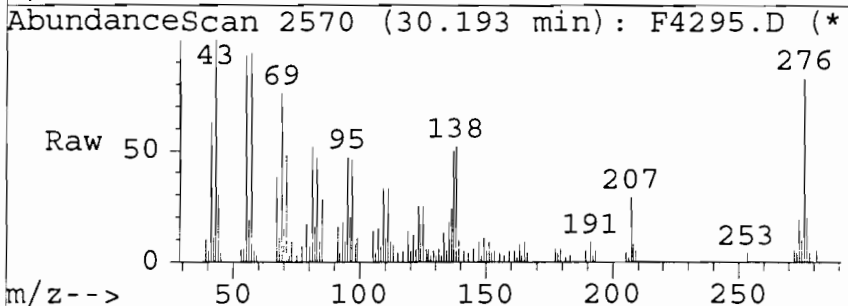
#81
 Dibenzo-(a,h)-Anthracene (80G)
 Concen: 5.06 ng/uL m
 RT: 29.28 min Scan# 2483
 Delta R.T. -0.09 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31

Tgt Ion	Resp	Lower	Upper
278	5884		
278	100		
278	100.0	50.0	150.0
139	79.6	0.0	71.0#
279	30.4	0.0	73.1

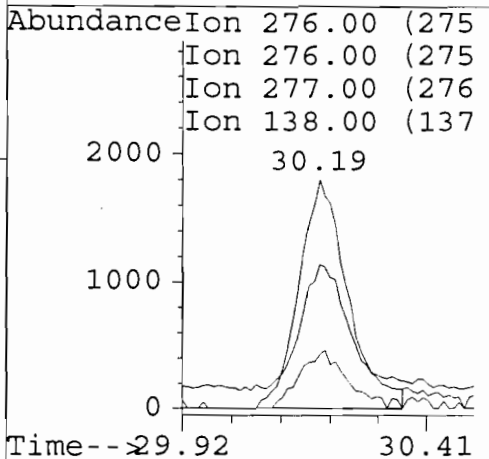
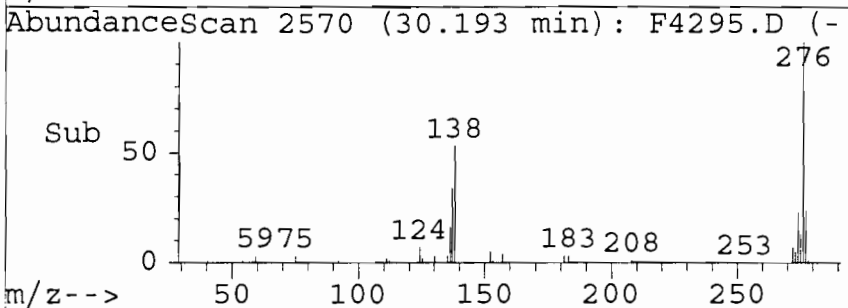




#82
 Benzo-(g,h,i)- Perylene(81G)
 Concen: 11.21 ng/uL
 RT: 30.19 min Scan# 2570
 Delta R.T. -0.08 min
 Lab File: F4295.D
 Acq: 3/30/99 @ 18:31



Tgt Ion	Resp	Lower	Upper
276	12207		
276	100		
276	100.0	50.0	150.0
277	23.6	0.0	73.7
138	0.0	0.0	77.0



ANALab, Inc. - Randolph Facility
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
APRIL 12, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

DIESEL RANGE ORGANIC PETROLEUM HYDROCARBONS BY GC

Client: GCI
Sample Source: 960285
Sample Date: 03/11/99
Sample ID: DW-2
Sampled by: Customer

At Lab Date: 03/15/99

Lab Number: 306391
Sample wt/vol: 25
Sample Matrix: Soil
Percent Moisture: 18.56%
Analysis Date: 04/09/99

Final volume: 1
Column used: RTX-5
Dilution Factor 5

Extraction Date: 04/08/99

Parameter	Result mg/kg	Method Blank mg/kg	Minimum Detection Limit mg/kg	Practical Quantitation Limit mg/kg
DRO Petroleum Hydrocarbons	220	U	24	24

U = Not detected
Results reported as mg/kg (ppm) are reported on a dry weight basis.

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Thomas Mancuso, Lab Mgr.
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LOU

Data File : E:\1\DATA\DA1552.D
 Acq On : 9 Apr 99 6:59
 Sample : 306391 1:5
 Misc : QDR8195
 IntFile : EVENTS1.E

Vial: 15
 Operator:
 Inst : GC 5890_4
 Multiplr: 1.00

Quant Time: Apr 12 11:15 1999 Quant Results File: DROSOIL.RES

Quant Method : E:\1\METHODS\DROSOIL.M (Chemstation Integrator)
 Title : GC TPH DRO METHOD - Total Area Quantitation
 Last Update : Mon Apr 12 09:21:56 1999
 Response via : Initial Calibration
 DataAcq Meth : DROSOIL.M

Volume Inj. : 1 µl injection
 Signal Phase : Restek RTx-5
 Signal Info : 30 M x 0.53mm x 0.25µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Ortho-Terphenyl	18.03	415841	5.916 µg/ml
Spiked Amount 20.000		Recovery =	29.58%
Target Compounds			
2) HM DIESEL RANGE	17.00	62066368	893.099 µg/ml

702 4/12/99

Quantitation Report

Data File : E:\1\DATA\DA1552.D

Vial: 15

Acq On : 9 Apr 99 6:59

Operator:

Sample : 306391 1:5

Inst : GC 5890_4

Misc : QDR8195

Multiplr: 1.00

IntFile : EVENTS1.E

Quant Time: Apr 12 11:15 1999 Quant Results File: DROSOIL.RES

Quant Method : E:\1\METHODS\DROSOIL.M (Chemstation Integrator)

Title : GC TPH DRO METHOD - Total Area Quantitation

Last Update : Mon Apr 12 09:21:56 1999

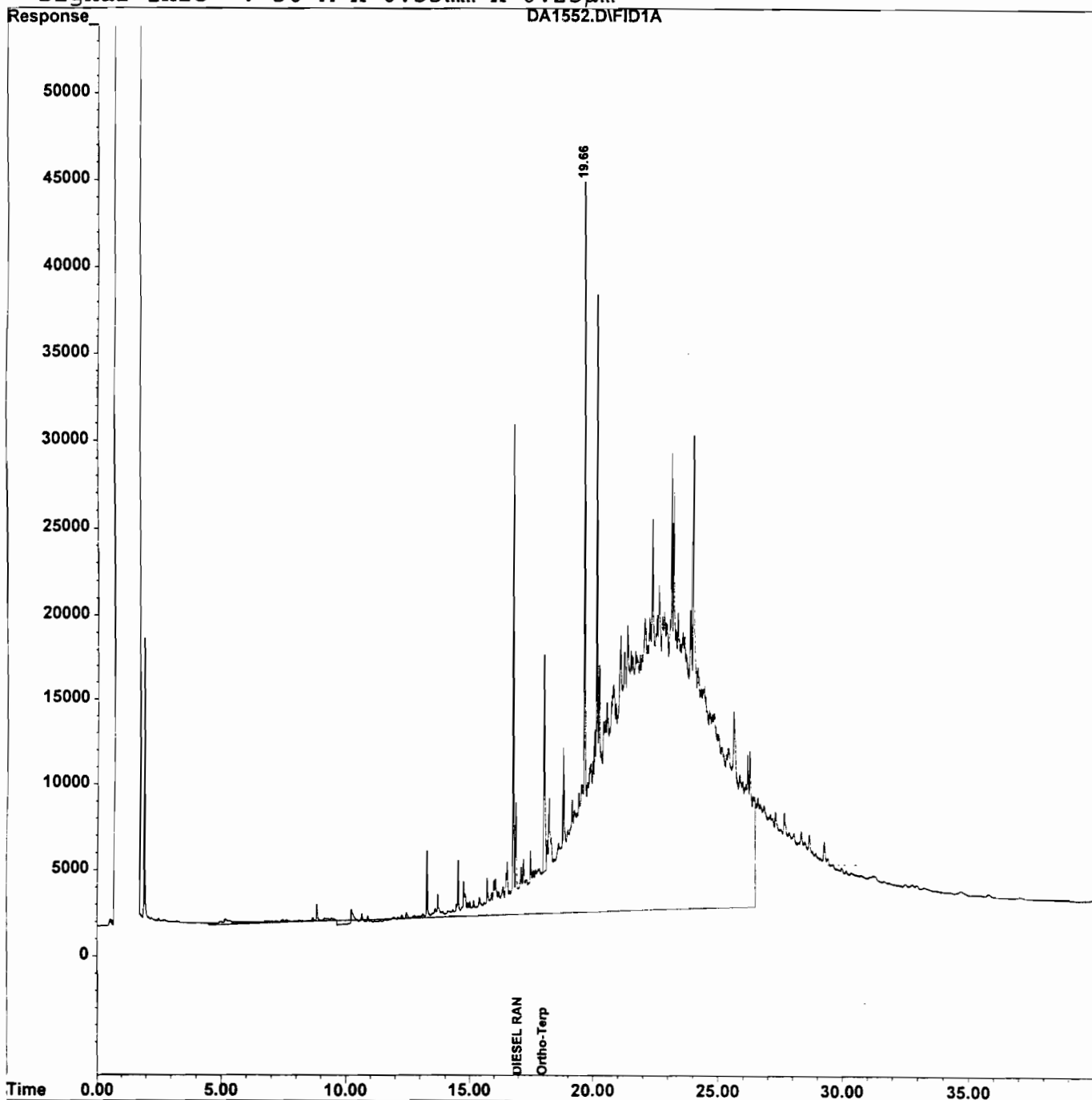
Response via : Multiple Level Calibration

DataAcq Meth : DROSOIL.M

Volume Inj. : 1 µl injection

Signal Phase : Restek RTx-5

Signal Info : 30 M x 0.53mm x 0.25µm



ANalab, Inc. - Randolph Facility
 152 Route 10
 Randolph, NJ 07869
 73-584-0330, FAX: 973-584-0515
 APRIL 6, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 306391
 Client: GCI
 Sample source: 960285
 Sample ID: DW-2
 Sample date: 03/11/99
 Sampled by: Customer
 At lab date: 03/15/99
 Matrix: SOIL
 Percent Moisture: 18.56 %

ICP/FURNACE Initial weight: 1.00 g ICP/FURNACE Final volume: 100 ml
 Mercury Initial weight: 0.51 g Mercury Final volume: 100 ml
 Results in mg/Kg dry weight basis.

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Dilution Factor	Analysis Date
Arsenic	1.72	U	0.491	1	03/23/99
Barium	26.0	U	0.614	1	03/23/99
Cadmium	0.614	U	0.614	1	03/23/99
Chromium	11.2	U	0.614	1	03/23/99
Lead	22.8	U	0.491	1	03/23/99
Mercury	0.096	U	0.048	1	03/22/99
Selenium	0.737	U	0.491	1	03/23/99
Silver	U	U	0.614	1	03/23/99

U = Not Detected

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 Thomas Mancuso, Lab Mgr.
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 ROB

QUANT REPORT

Page 1

Operator ID: AT1446
 Output File: ^A3690::X1
 Data File: >A3690::D1
 Name: INST 59201 SAMPLE
 Misc: 306392 ,S,5,5 ,0.53mm x75m db-624

Quant Rev: 7 Quant Time: 990317 21:06
 Injected at: 990317 20:37
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990312 14:07

Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units	Q
1) *Pentafluorobenzene	7.29	168.0	144975	58.00	ug/L	87
26) Dibromofluoromethane	7.39	113.0	103364	58.14	ug/L	100
28) 1,2-Dichloroethane-d4	8.42	65.0	50400	53.30	ug/L	87
32) *1,4-Difluorobenzene	9.27	114.0	132088	50.00	ug/L	97
52) *Chlorobenzene-d5	14.82	117.0	117031	50.00	ug/L	92
54) Toluene-d8	12.08	98.0	125953	53.54	ug/L	98
67) Bromofluorobenzene	17.05	95.0	102626	43.20	ug/L	91
84) *1,4-Dichlorobenzene-d4	19.19	152.0	64999	50.00	ug/L	93
92) Naphthalene <i>AT</i>	23.42	128.0	117868	53.70	ug/L	100

* Compound is ISTD

AT
 3/18/99

143690 INT 54001 SAMPLE 006332 3,5,5 0.53mm 0.75m d5-624
 35.01 260.0 TIC

Slope: -1000 Area Reject: 5.00 % Max Peaks: 10 Bunch: 1 Valley: 100 %
 Slope: -10100 Results File VDIR78 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	1.28	85	91	110	130700	373862	358543	50.00	10.060
2	2.36	616	645	669	56288	745114	715974	100.00	21.700
3	3.42	537	752	770	16969	158585	154214	19.75	4.084
4	9.26	819	837	857	38505	330851	314084	43.87	8.510
5	12.09	1104	1122	1146	48357	360865	335799	46.08	10.196
6	14.82	1333	1398	1425	55930	378350	355066	49.59	10.702
7	17.05	1510	1624	1649	69515	444662	422749	59.05	12.617
8	19.20	1820	1841	1867	64223	400752	374684	62.37	11.055
9	23.42	2255	2267	2291	39935	256771	241069	33.07	6.200
10	25.47	2452	2474	2487	7756	59126	46509	6.51	1.411

Sum of corrected areas: 3299371.

ANALab, Inc. - Randolph Facility
 1152 Route 10
 Randolph, NJ 07869
 973-584-0330, FAX: 973-584-0515
 MARCH 31, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

TARGET COMPOUND LIST - BASE/NEUTRAL FRACTION ANALYSIS BY GC/MS

Lab Number: 306392 Data File: >F4293
 Client: GCI
 Sample source: 960285
 Sample ID: DW-3
 Sample date: 03/11/99 Extracted Date: 03/19/99
 Sampled by: Customer Analysis Date: 03/30/99 Column: 30m SPB-5
 At lab date: 03/15/99 Dilution Factor: 10
 Matrix: Soil Init Sample Wght= 30.07g Percent Moisture: 37.6%
 Final volume= 10ml
 Initial sample weight DWB= 18.76368g

Conc. in Sample = (Conc. on Quant Report/Initial Sample Weight DWB)*Final Volume*1000

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
bis(2-Chloroethyl) ether	U	U	2700	530
1,3-Dichlorobenzene	U	U	2700	1300
1,4-Dichlorobenzene	U	U	2700	1200
1,2-Dichlorobenzene	U	U	2700	1300
bis(2-Chloroisopropyl) ether	U	U	2700	640
N-Nitroso-di-n-propylamine	U	U	2700	530
Hexachloroethane	U	U	2700	1500
Nitrobenzene	U	U	2700	530
Isophorone	U	U	2700	530
bis(2-Chloroethoxy)methane	U	U	2700	530
1,2,4-Trichlorobenzene	U	U	2700	1200
Naphthalene	2200J	U	2700	1100
4-Chloroaniline	U	U	2700	530
Hexachlorobutadiene	U	U	2700	530
2-Methylnaphthalene	940J	U	2700	1100
Hexachlorocyclopentadiene	U	U	2700	800
2-Chloronaphthalene	U	U	2700	1100
2-Nitroaniline	U	U	2700	530
Dimethyl phthalate	U	U	2700	2500
Acenaphthylene	U	U	2700	800
2,6-Dinitrotoluene	U	U	2700	530
3-Nitroaniline	U	U	2700	530
Acenaphthene	2200J	U	2700	1000
Dibenzofuran	1800J	U	2700	800
2,4-Dinitrotoluene	U	U	2700	530
Diethyl phthalate	U	U	2700	1200
4-Chlorophenyl phenyl ether	U	U	2700	1100
Fluorene	2700	U	2700	910
4-Nitroaniline	U	U	2700	530
N-Nitrosodiphenylamine	U	U	2700	530
4-Bromophenyl phenyl ether	U	U	2700	1000
Hexachlorobenzene	U	U	2700	1000
Phenanthrene	8600	U	2700	480
Anthracene	2300J	U	2700	430

(continued on next page)

(continued from previous page)

Lab Number: 306392
Client: GCI

Data File: >F4293

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
Di-n-butylphthalate	U	U	2700	1300
Fluoranthene	4500	U	2700	320
Pyrene	6400	U	2700	270
Butyl benzylphthalate	U	U	2700	640
3,3'-Dichlorobenzidine	U	U	2700	530
Benzo(a)anthracene	1300J	U	2700	270
Chrysene	1500J	U	2700	270
bis(2-Ethylhexyl)phthalate	990J	U	2700	1600
Di-n-octylphthalate	U	U	2700	530
Benzo(b)fluoranthene	830J	U	2700	370
Benzo(k)fluoranthene	870J	U	2700	370
Benzo(a)pyrene	900J	U	2700	270
Indeno(1,2,3-cd)pyrene	400J	U	2700	590
Dibenz(a,h)anthracene	U	U	2700	270
Benzo(g,h,i)perylene	410J	U	2700	270
Carbazole	380J	U	2700	530

ug/kg = micrograms/kilogram or ppb

Results are in ug/kg (ppb); they are reported on a dry weight basis.

ND: Not Determined.
IND: Indeterminable.

U: Indicates a compound was analyzed for but not detected at the PQL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

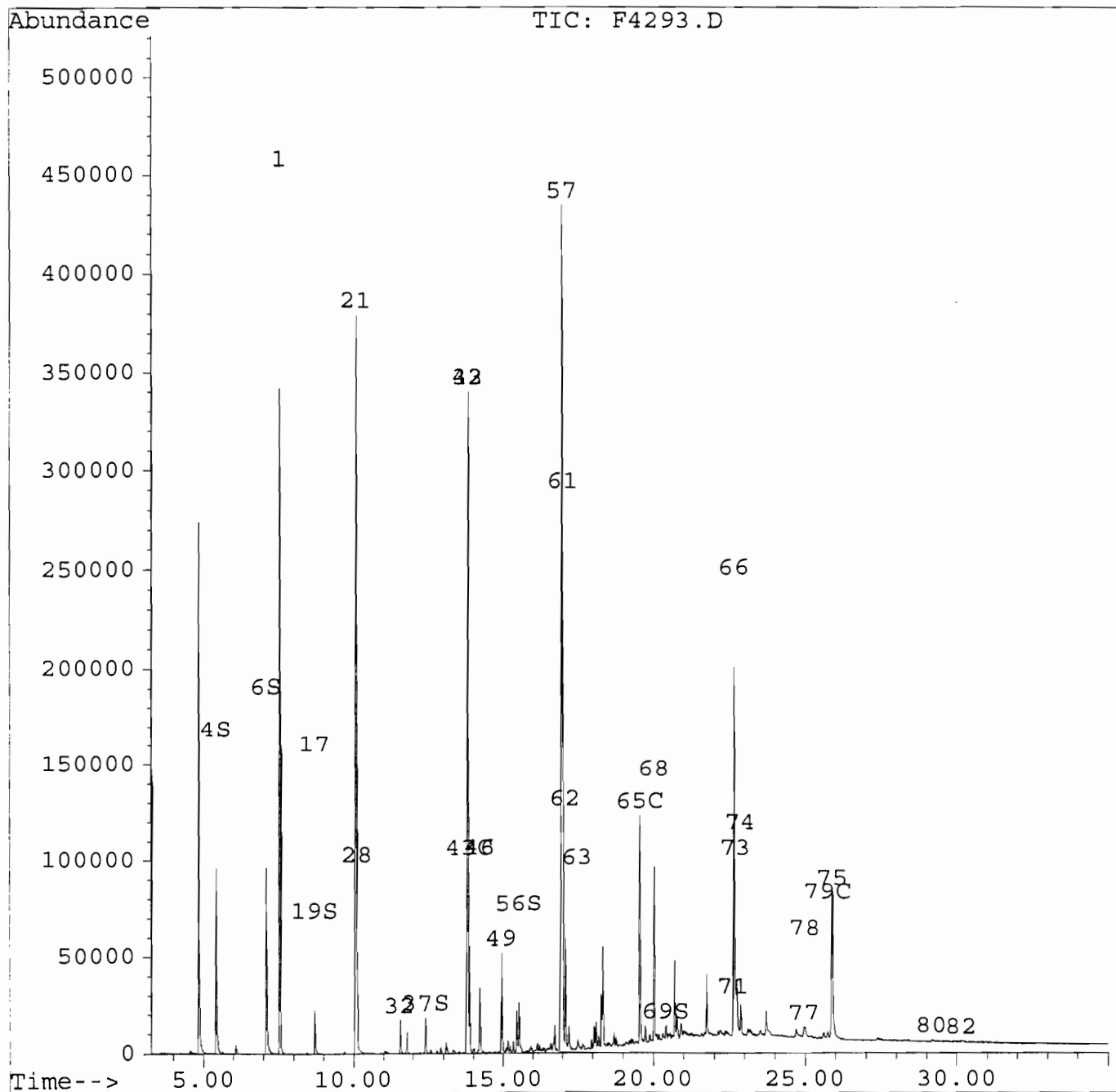
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Thomas Mancuso, Lab Mgr.
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LOU

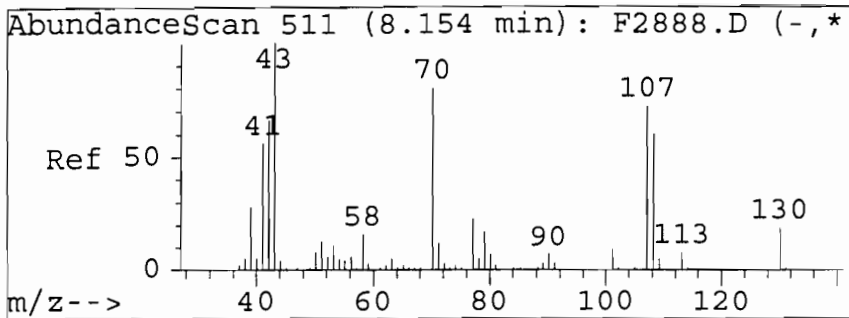
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	4.845	rVV	0.228	477206	4.804	5.032
2	5.425	rBV	0.187	169039	5.394	5.580
3	7.091	rBV	0.207	207807	7.050	7.257
4	7.537	rVV	0.145	718814	7.495	7.641
5	8.707	rBV	0.217	53793	8.645	8.862
6	10.084	rBV	0.218	1043001	10.011	10.229
7	11.574	rVB	0.176	34935	11.502	11.678
8	11.792	rVV	0.135	21835	11.730	11.864
9	12.423	rVV	0.207	37177	12.330	12.537
10	13.821	rBV	0.125	763470	13.728	13.852
11	13.883	rVB	0.104	103201	13.852	13.956
12	14.225	rVV	0.135	65153	14.184	14.318
13	14.960	rBV	0.145	104265	14.877	15.022
14	15.157	rVB	0.083	12720	15.116	15.199
15	15.457	rBV	0.114	49494	15.395	15.509
16	15.530	rVB	0.073	43891	15.509	15.582
17	16.732	rVV	0.073	23897	16.701	16.773
18	16.960	rBV	0.136	1156945	16.856	16.992
19	17.002	rVV	0.063	336936	16.992	17.054
20	17.096	rVB	0.093	106254	17.054	17.148
21	17.199	rVB	0.135	35758	17.158	17.293
22	18.050	rBV	0.073	22414	18.008	18.081
23	18.101	rVV	0.073	24871	18.081	18.153
24	18.195	rVB	0.083	12006	18.153	18.236
25	18.288	rVV	0.062	53635	18.247	18.309
26	18.340	rVV	0.062	86367	18.309	18.371
27	18.703	rVB	0.062	12268	18.672	18.735
28	18.766	rVB	0.093	11723	18.735	18.828
29	19.554	rBV	0.135	300563	19.513	19.648
30	19.741	rVB	0.073	16862	19.710	19.783
31	20.032	rBV	0.115	199630	19.980	20.095
32	20.427	rVB	0.062	12623	20.396	20.458
33	20.708	rBV	0.073	64865	20.676	20.749
34	20.781	rVB	0.104	27323	20.760	20.864
35	20.916	rBV	0.094	20949	20.885	20.978
36	21.757	rBV	0.104	58766	21.716	21.820
37	22.662	rBV	0.136	492242	22.589	22.725
38	22.871	rVB	0.125	36675	22.840	22.965
39	23.703	rBV	0.104	35613	23.672	23.776
40	25.885	rVB	0.208	251728	25.812	26.021

Quantitation Report

Data File : F:\RTE\BNA\F42_D\F4293.D
Acq Time : Data Taken: 3/30/99 @ 17:00 Operator: AM9951
Sample : Inst :
Misc : 306392 5X, QC8167 M SPB-5 CAP COLUMN Multiplr: 1.00
Quant Time: Mar 31 10:58 1999

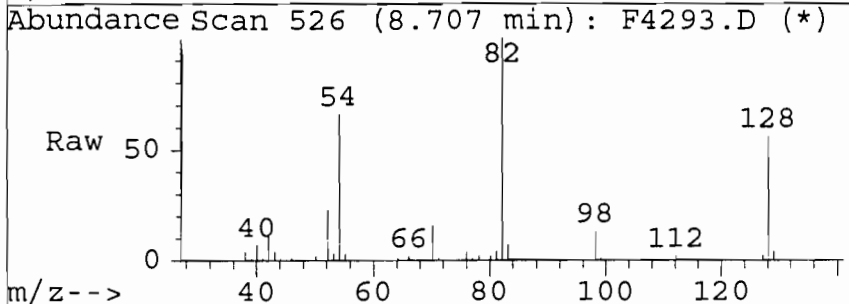
Method : C:\METHODS\CF4189.M
Title : BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Mar 23 13:25:06 1999
Response via : Multiple Level Calibration



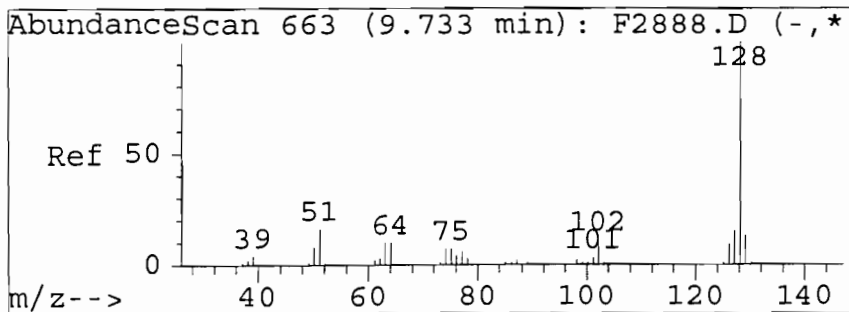
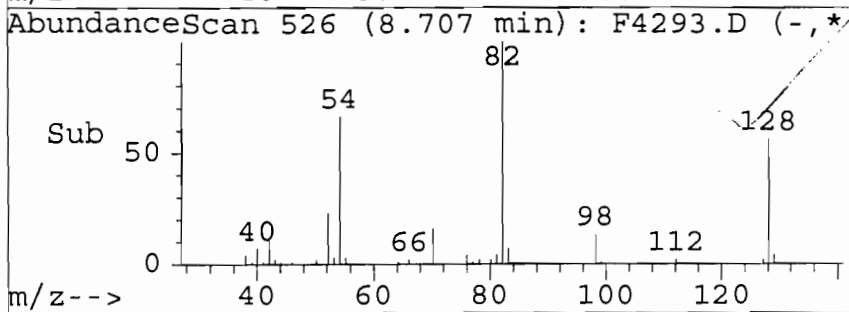
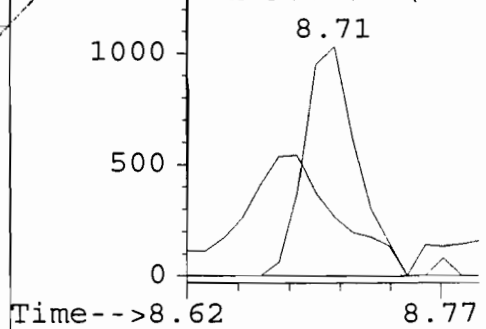


#17
 n-Nitosodipropyl Amine(16G)
 Concen: 0.84 ng/uL
 RT: 8.71 min Scan# 526
 Delta R.T. 0.15 min
 Lab File: F4293.D
 Acq: 3/30/99 @ 17:00

Tgt Ion	Resp	Lower	Upper
70	2167		
70	100	80.0	120.0
43	0.0	87.5	127.5#
101	0.0	0.0	30.4

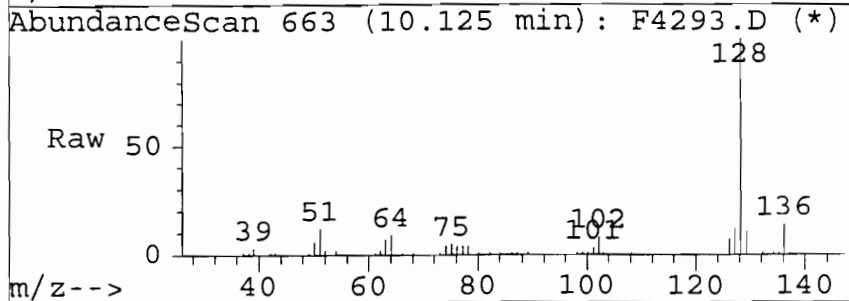


Abundance	Ion	Ion	Ion
70.00	70.00	43.00	101.00
(69.	(69.	(42.	(100

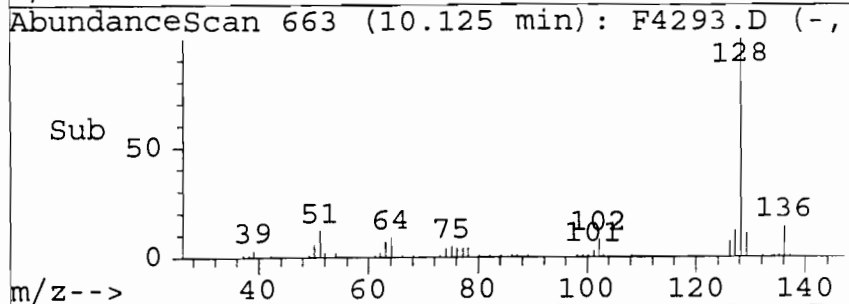
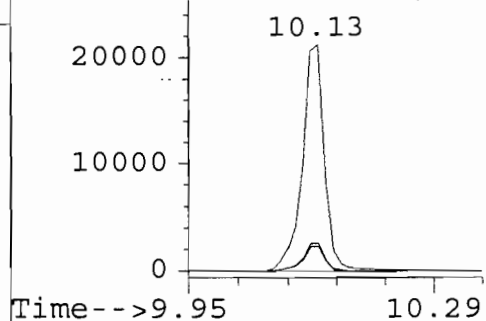


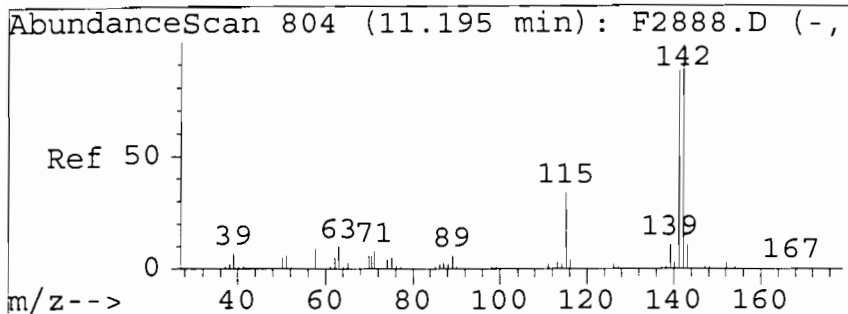
#28
 Naphthalene(28)
 Concen: 4.07 ng/uL
 RT: 10.13 min Scan# 663
 Delta R.T. -0.07 min
 Lab File: F4293.D
 Acq: 3/30/99 @ 17:00

Tgt Ion	Resp	Lower	Upper
128	44475		
128	100	50.0	150.0
127	0.0	0.0	63.8
129	0.0	0.0	60.2



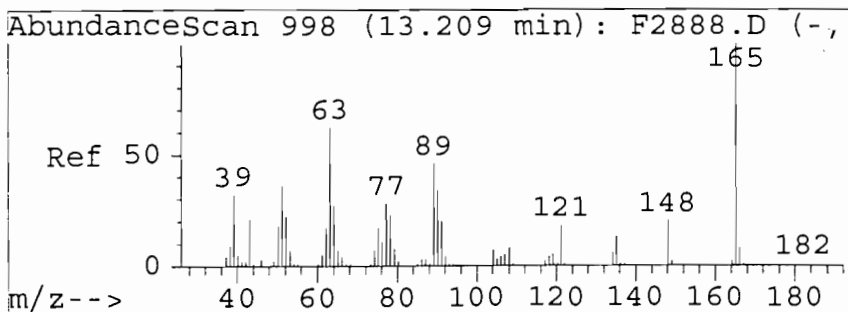
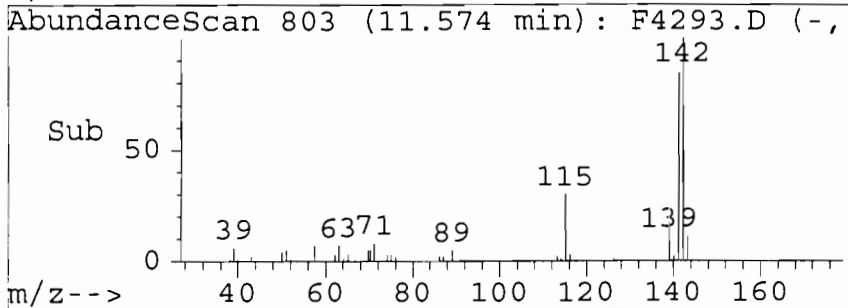
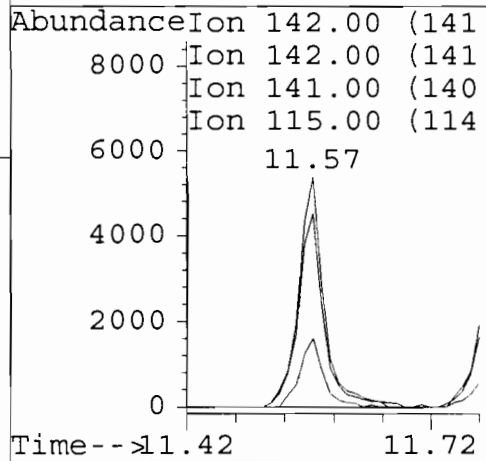
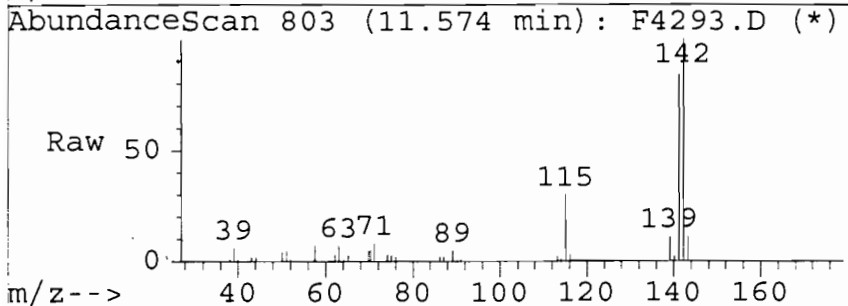
Abundance	Ion	Ion	Ion
128.00	128.00	127.00	129.00
(127	(127	(126	(128





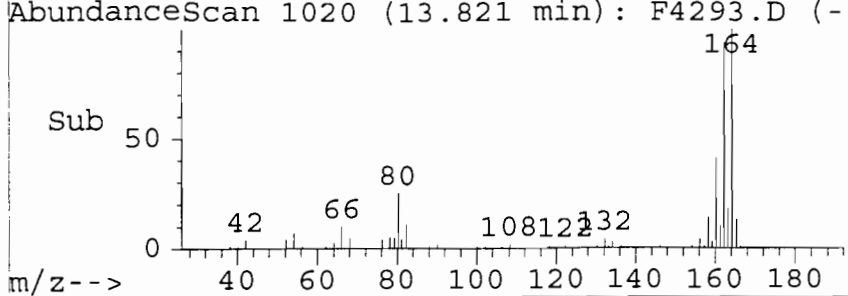
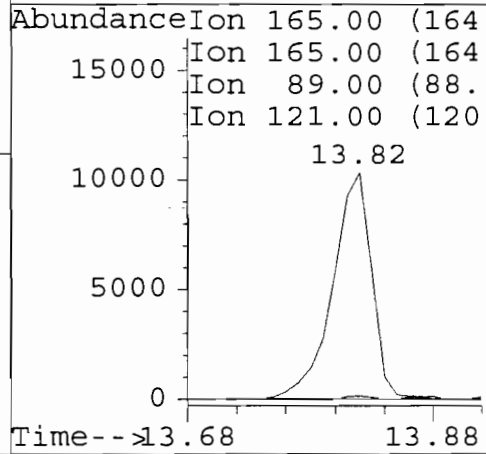
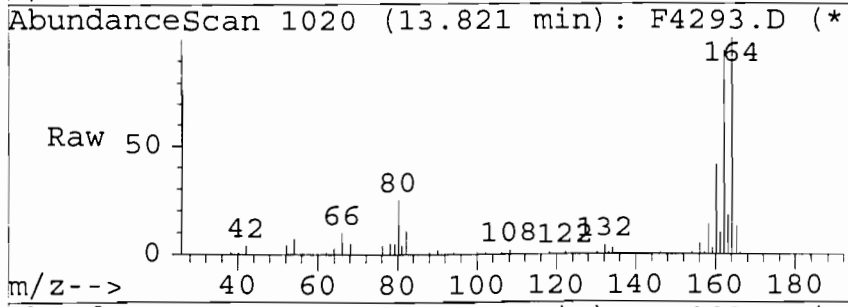
#32
 2-Methylnaphthalene(32)
 Concen: 1.77 ng/uL
 RT: 11.57 min Scan# 803
 Delta R.T. -0.06 min
 Lab File: F4293.D
 Acq: 3/30/99 @ 17:00

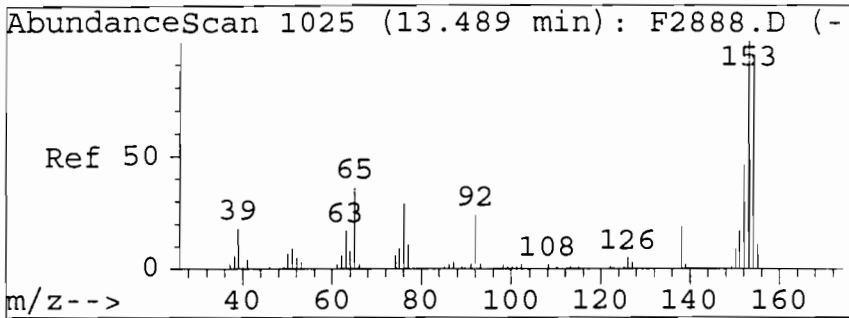
Tgt Ion	Ratio	Lower	Upper
142	100		
142	100.0	50.0	150.0
141	0.0	41.5	141.5#
115	0.0	0.0	89.4



#42
 2,6-Dinitrotoluene(42G)
 Concen: 9.44 ng/uL
 RT: 13.82 min Scan# 1020
 Delta R.T. 0.19 min
 Lab File: F4293.D
 Acq: 3/30/99 @ 17:00

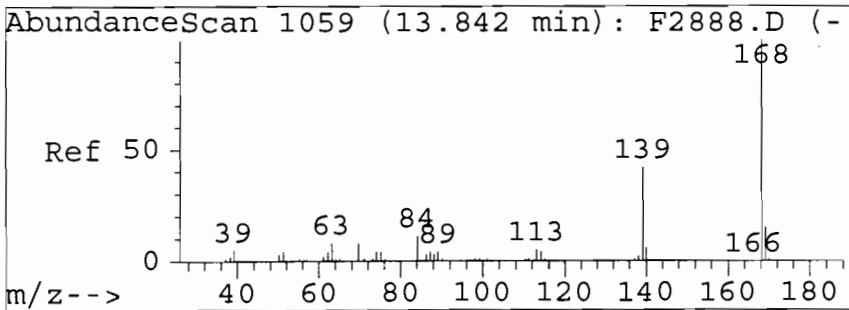
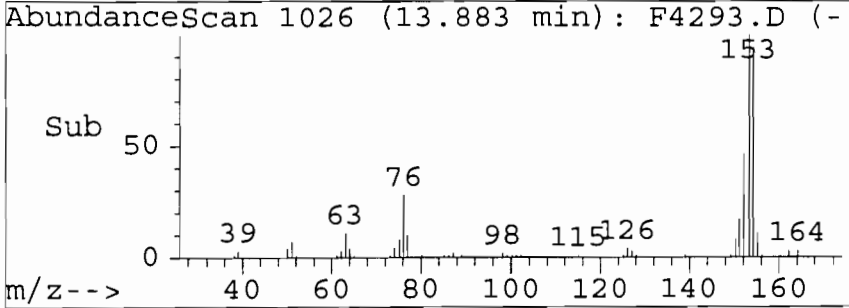
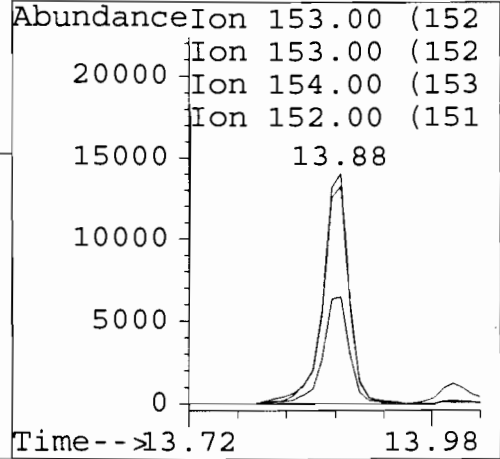
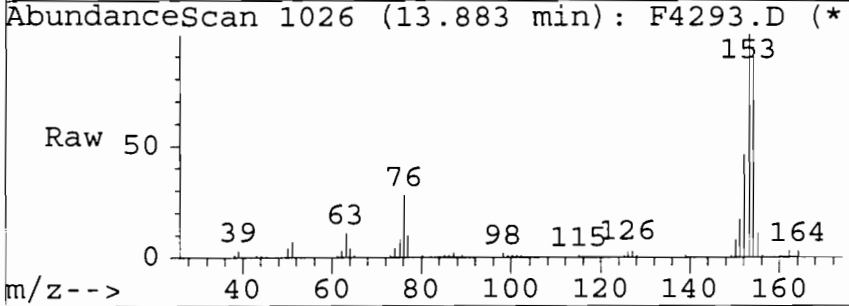
Tgt Ion	Ratio	Lower	Upper
165	100		
165	100.0	80.0	120.0
89	0.0	33.6	73.6#
121	0.0	0.0	38.6





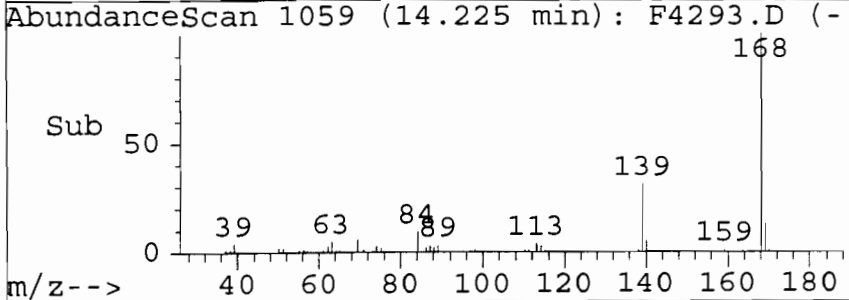
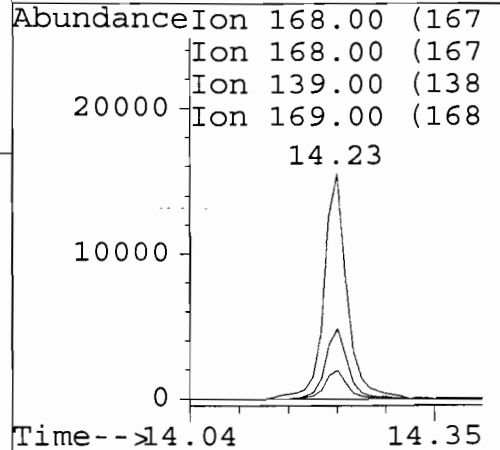
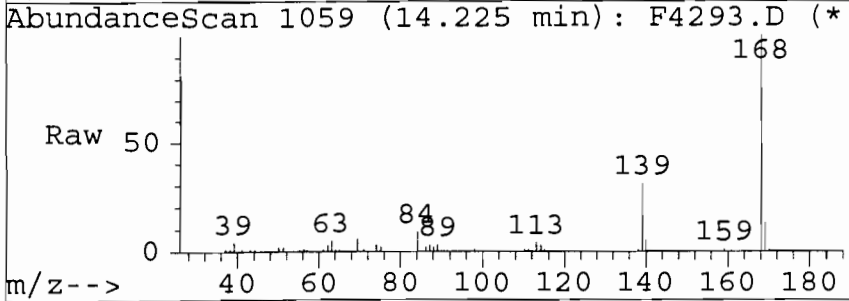
#43
 Acenaphthene (44G)
 Concen: 4.08 ng/uL
 RT: 13.88 min Scan# 1026
 Delta R.T. -0.07 min
 Lab File: F4293.D
 Acq: 3/30/99 @ 17:00

Tgt Ion	Ratio	Lower	Upper
153	100		
153	100.0	50.0	150.0
154	96.2	38.7	138.7
152	0.0	0.0	98.6

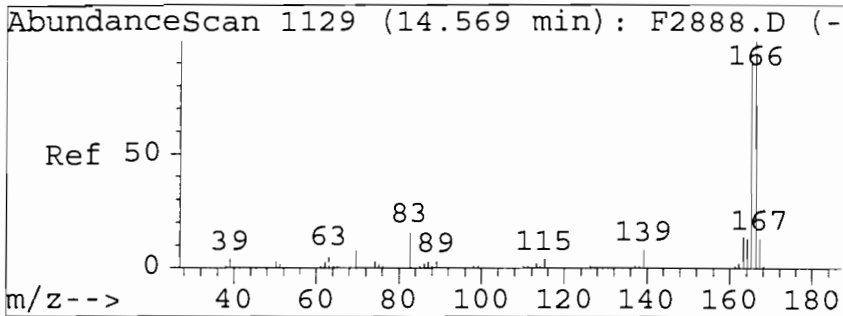


#46
 Dibenzofuran (47G)
 Concen: 3.36 ng/uL
 RT: 14.23 min Scan# 1059
 Delta R.T. -0.07 min
 Lab File: F4293.D
 Acq: 3/30/99 @ 17:00

Tgt Ion	Ratio	Lower	Upper
168	100		
168	100.0	50.0	150.0
139	0.0	0.0	87.8
169	13.0	0.0	62.8

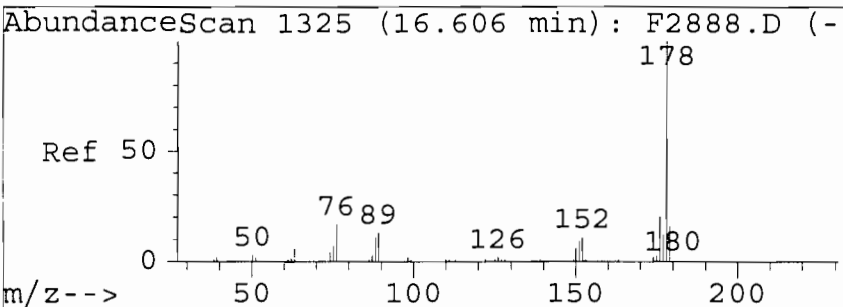
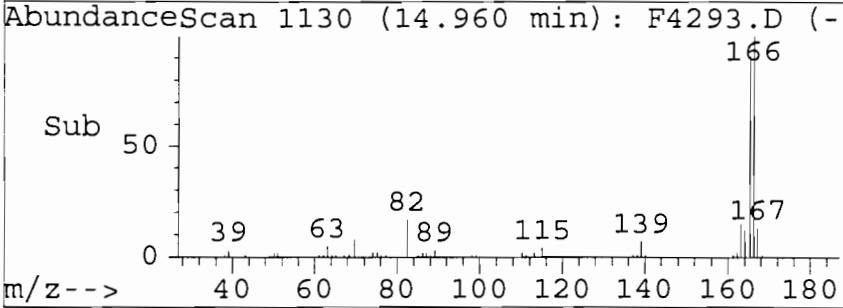
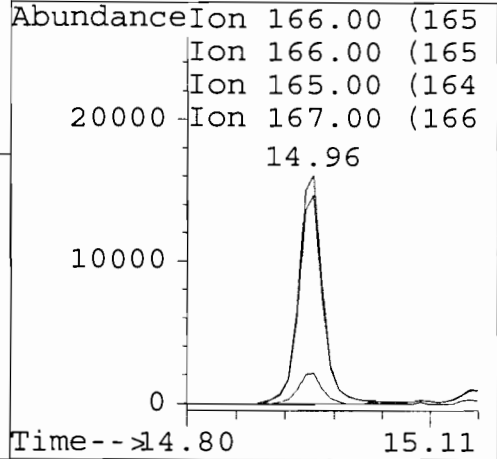
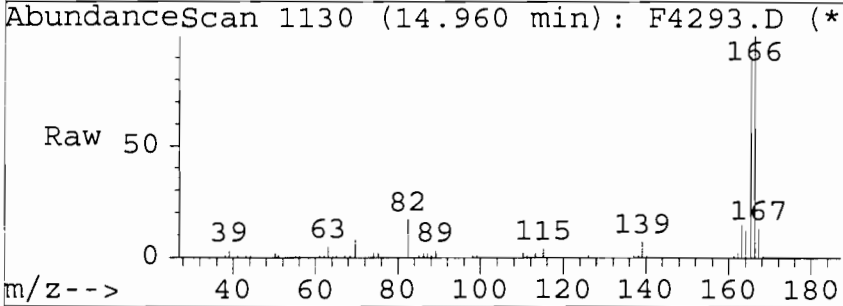


101



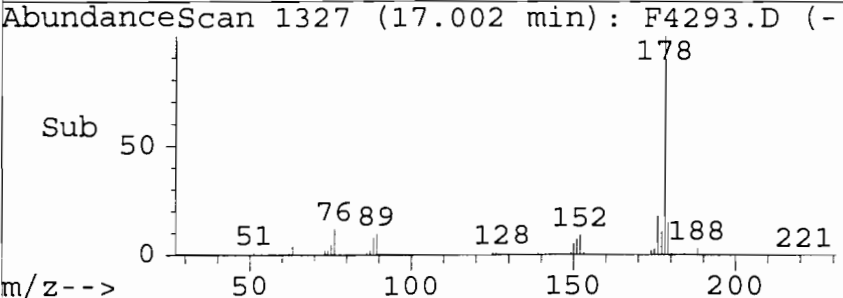
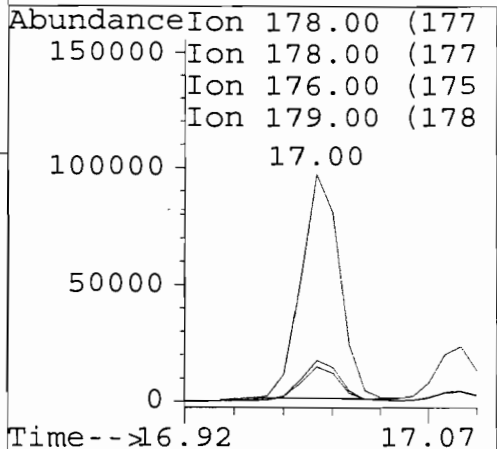
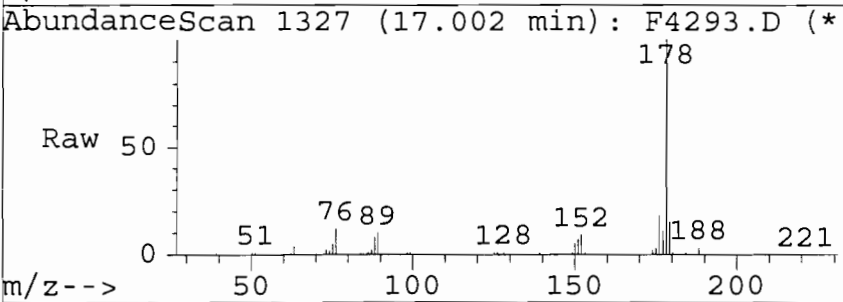
#49
 Fluorene(51G)
 Concen: 4.98 ng/uL
 RT: 14.96 min Scan# 1130
 Delta R.T. -0.07 min
 Lab File: F4293.D
 Acq: 3/30/99 @ 17:00

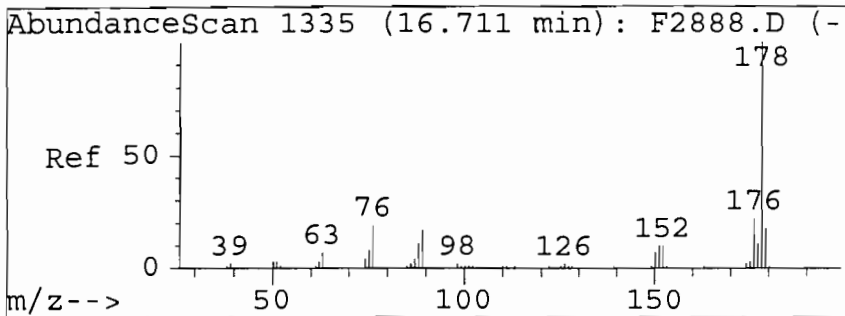
Tgt Ion	Ratio	Lower	Upper
166	100		
166	100.0	50.0	150.0
165	0.0	47.3	147.3#
167	13.2	0.0	62.8



#61
 Phenanthrene(61G)
 Concen: 16.05 ng/uL
 RT: 17.00 min Scan# 1327
 Delta R.T. -0.17 min
 Lab File: F4293.D
 Acq: 3/30/99 @ 17:00

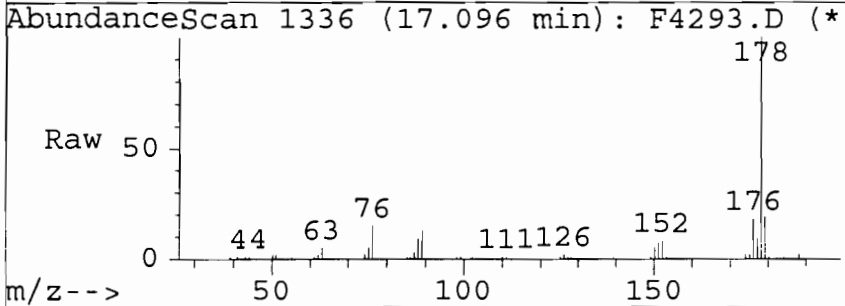
Tgt Ion	Ratio	Lower	Upper
178	100		
178	100.0	50.0	150.0
176	0.0	0.0	69.5
179	16.0	0.0	64.7





#62
 Anthracene(62G)
 Concen: 4.37 ng/uL m
 RT: 17.10 min Scan# 1336
 Delta R.T. -0.08 min
 Lab File: F4293.D
 Acq: 3/30/99 @ 17:00

Tgt Ion	Resp	Lower	Upper
178	46405		
178	100		
178	100.0	50.0	150.0
176	17.7	9.6	28.7
179	18.8	7.3	21.9

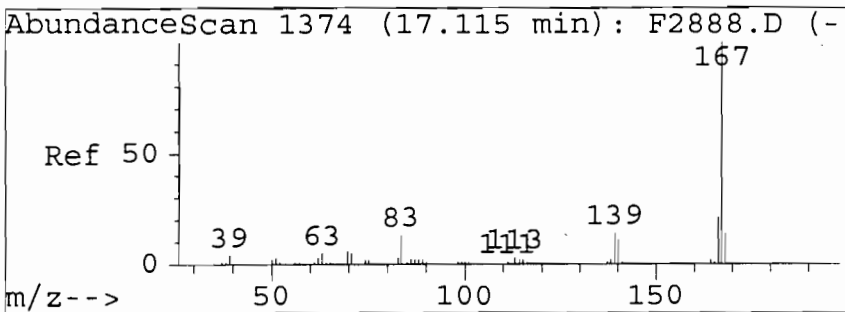
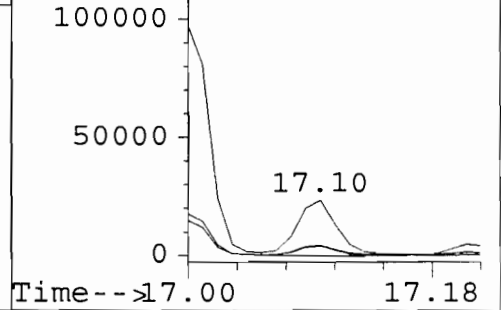
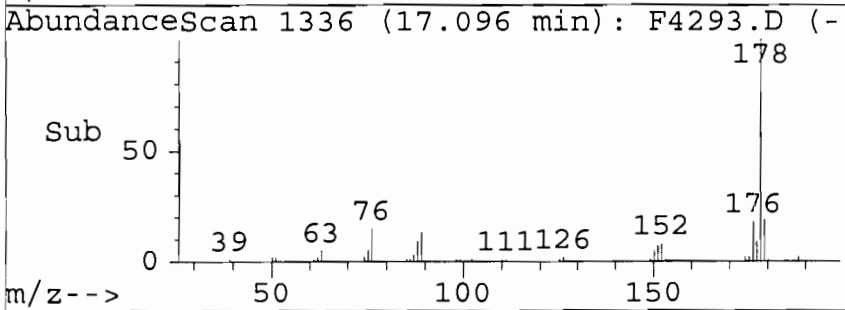


AbundanceIon 178.00 (177

150000 Ion 178.00 (177

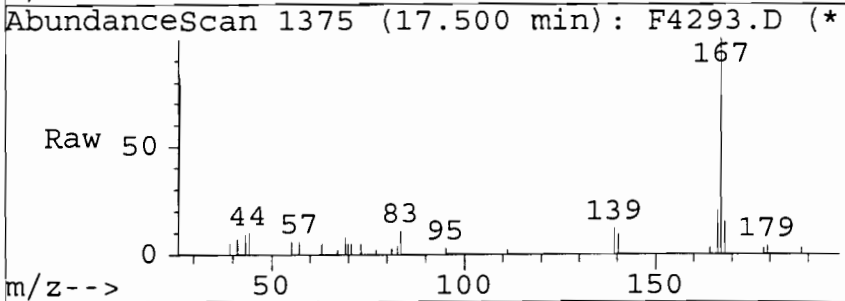
Ion 176.00 (175

Ion 179.00 (178



#63
 Carbazole(21S)
 Concen: 0.71 ng/uL
 RT: 17.50 min Scan# 1375
 Delta R.T. -0.08 min
 Lab File: F4293.D
 Acq: 3/30/99 @ 17:00

Tgt Ion	Resp	Lower	Upper
167	6851		
167	100		
167	100.0	50.0	150.0
166	0.0	0.0	71.8
139	9.4	0.0	64.4

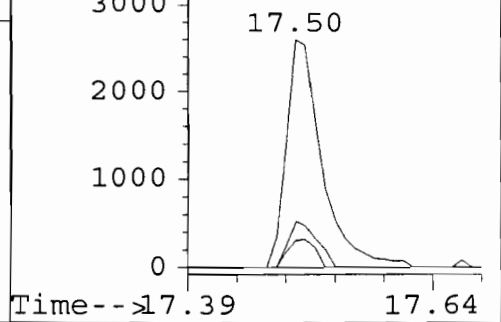
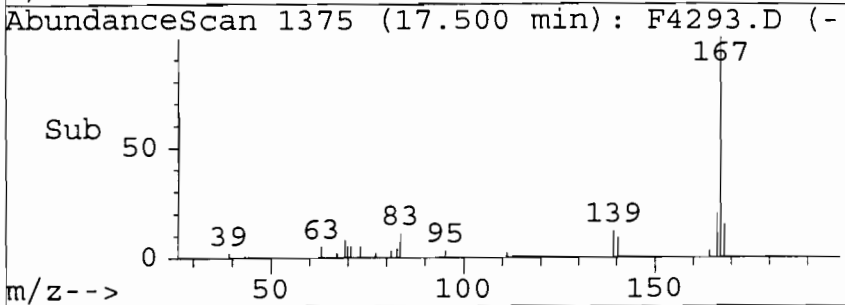


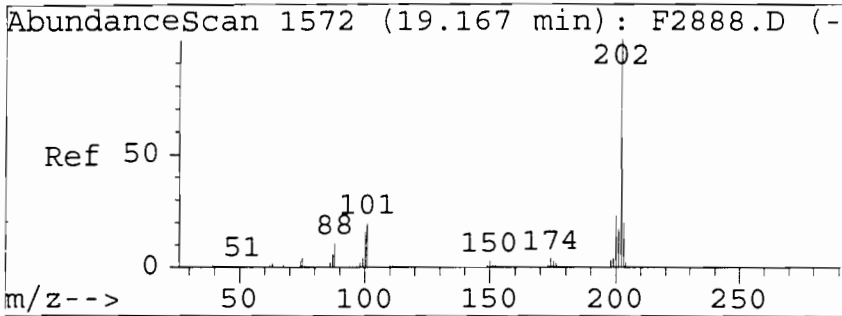
AbundanceIon 167.00 (166

4000 Ion 167.00 (166

Ion 166.00 (165

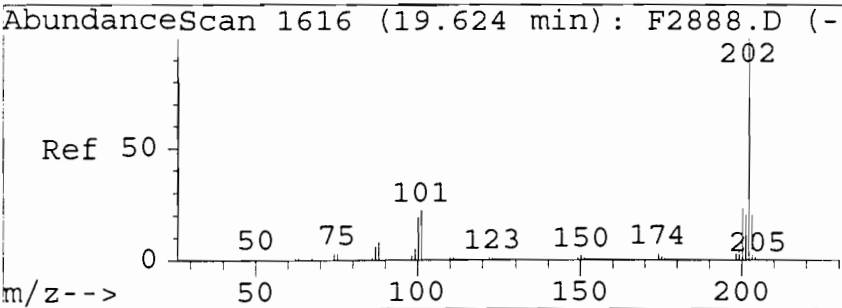
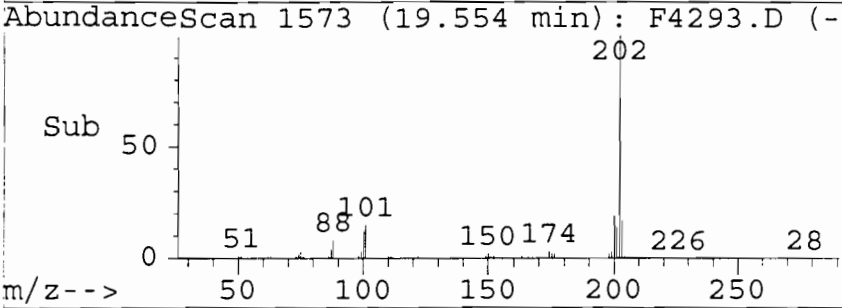
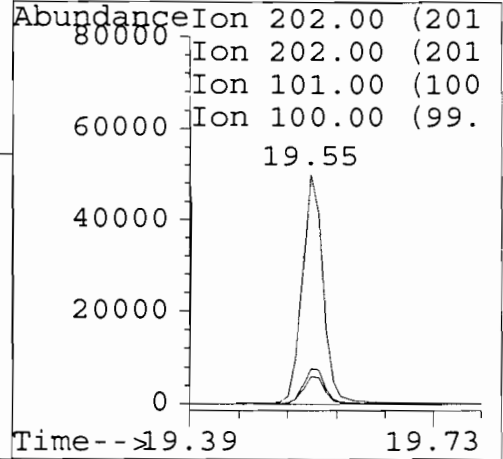
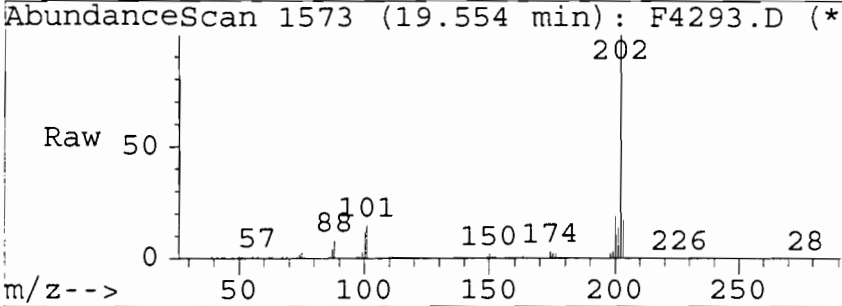
Ion 139.00 (138





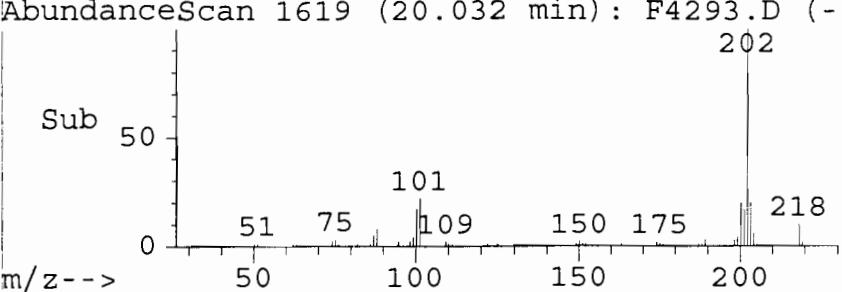
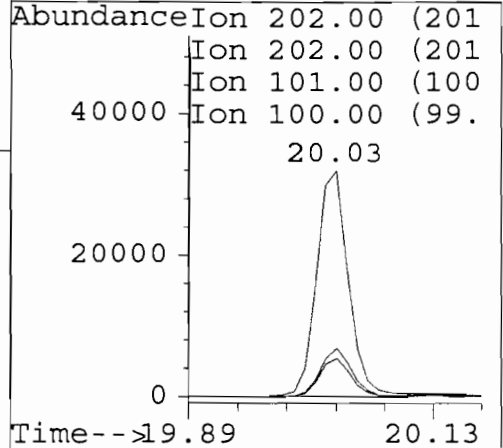
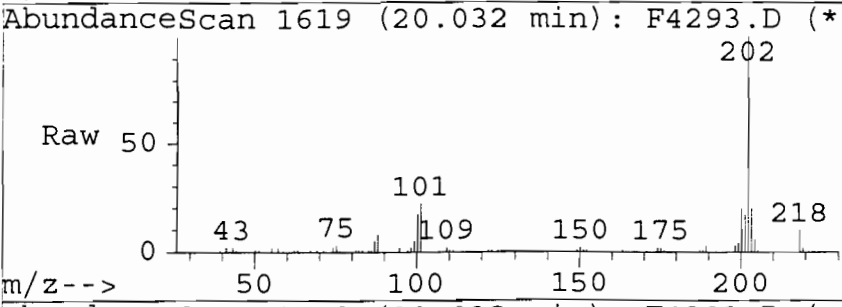
#65
 Fluoranthene (64G)
 Concen: 8.47 ng/uL
 RT: 19.55 min Scan# 1573
 Delta R.T. -0.08 min
 Lab File: F4293.D
 Acq: 3/30/99 @ 17:00

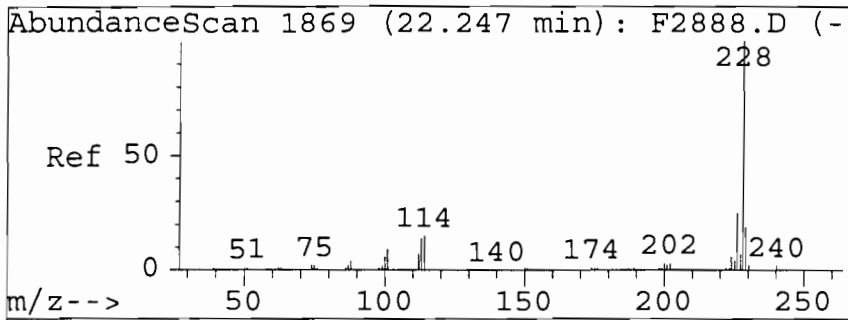
Tgt Ion	Ratio	Lower	Upper
202	100		
202	100.0	50.0	150.0
101	0.0	0.0	63.1
100	0.0	0.0	60.9



#68
 Pyrene (67G)
 Concen: 12.07 ng/uL
 RT: 20.03 min Scan# 1619
 Delta R.T. -0.08 min
 Lab File: F4293.D
 Acq: 3/30/99 @ 17:00

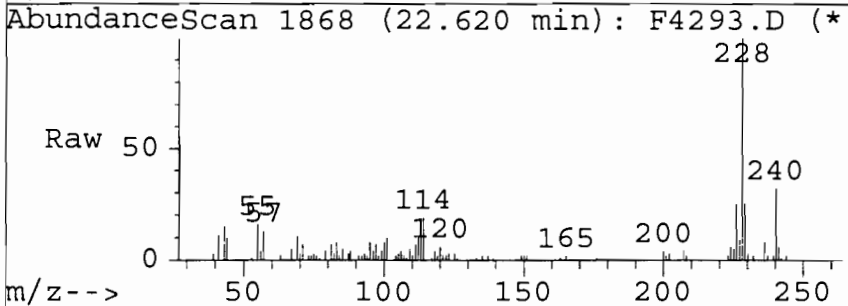
Tgt Ion	Ratio	Lower	Upper
202	100		
202	100.0	50.0	150.0
101	0.0	0.0	65.0
100	0.0	0.0	63.5



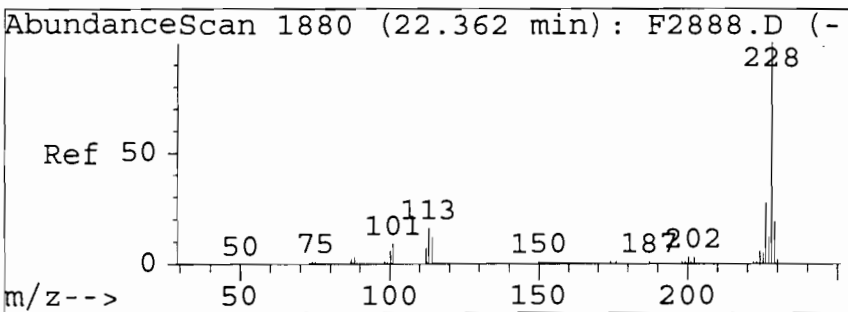
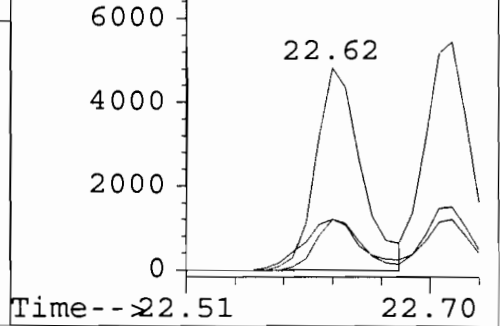
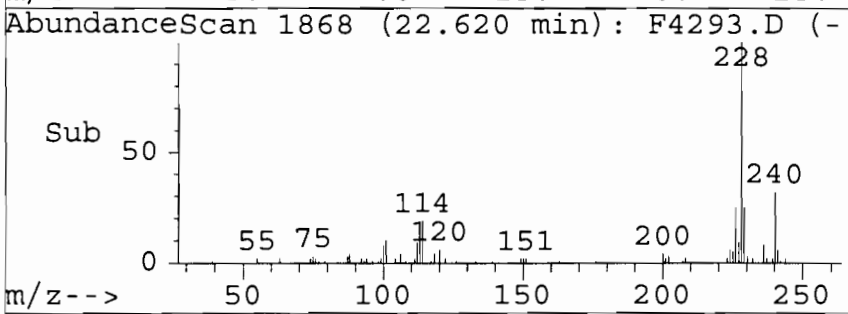


#71
 Benzo-(a)-Anthracene (71G)
 Concen: 2.52 ng/uL m
 RT: 22.62 min Scan# 1868
 Delta R.T. -0.19 min
 Lab File: F4293.D
 Acq: 3/30/99 @ 17:00

Tgt Ion	Resp	Lower	Upper
228	11948		
228	100	50.0	150.0
226	24.9	0.0	77.1
229	25.2	0.0	68.9

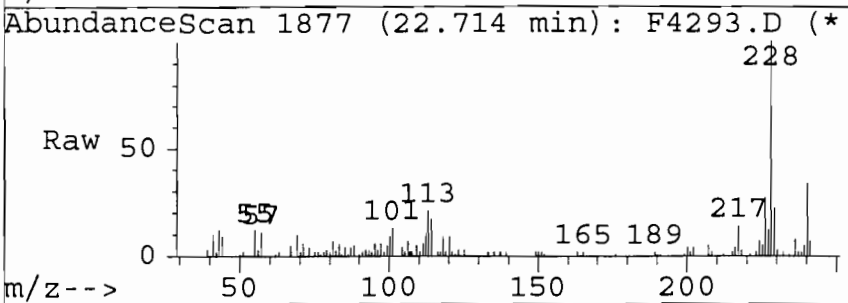


Abundance	Ion	Time
8000	228.00	22.62
6000	228.00	22.62
4000	226.00	22.62
2000	229.00	22.62

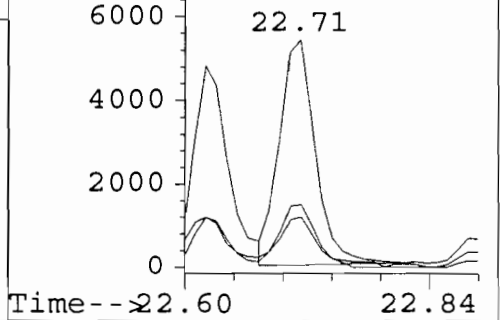
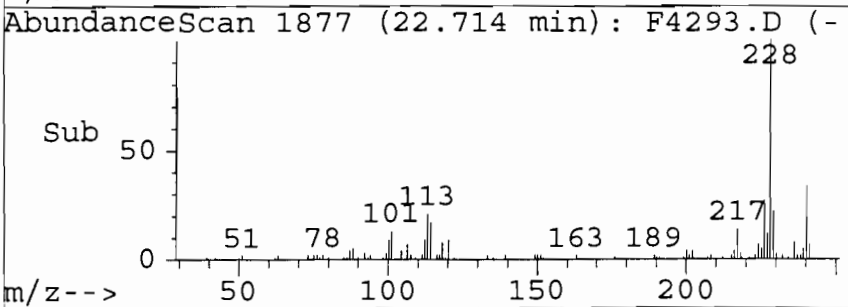


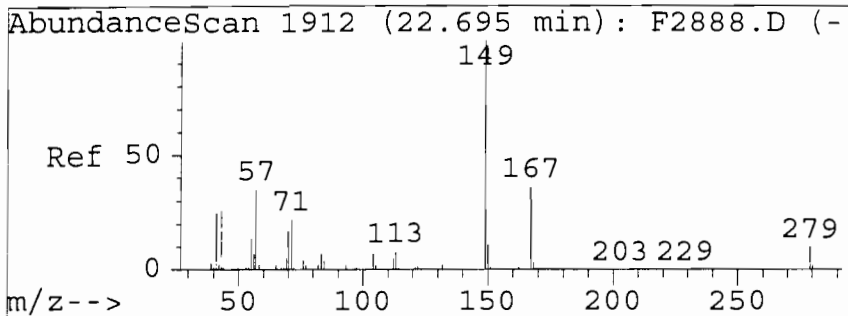
#73
 Chrysene (72G)
 Concen: 2.75 ng/uL
 RT: 22.71 min Scan# 1877
 Delta R.T. -0.10 min
 Lab File: F4293.D
 Acq: 3/30/99 @ 17:00

Tgt Ion	Resp	Lower	Upper
228	13291		
228	100	50.0	150.0
226	0.0	0.0	79.7
229	20.4	0.0	69.2

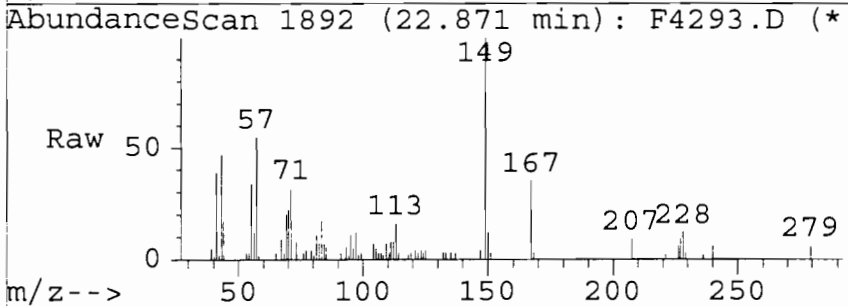


Abundance	Ion	Time
8000	228.00	22.71
6000	228.00	22.71
4000	226.00	22.71
2000	229.00	22.71

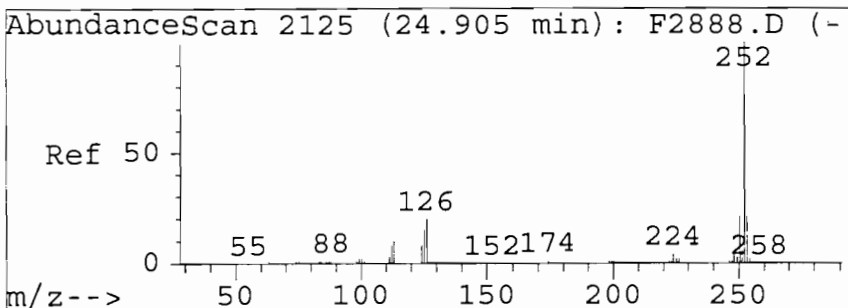
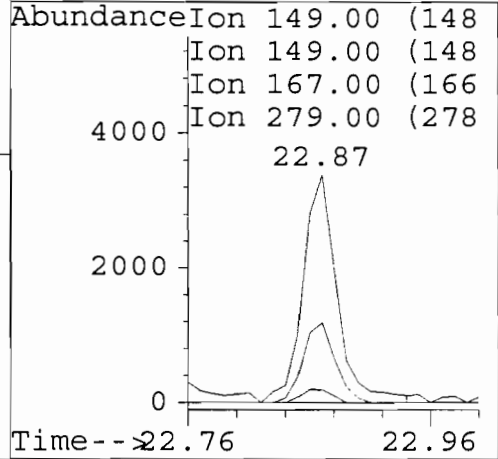
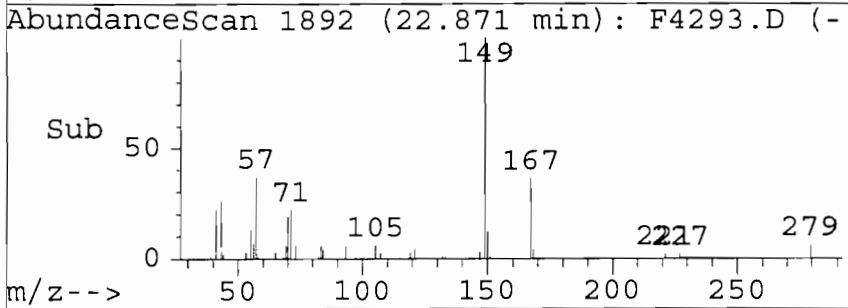




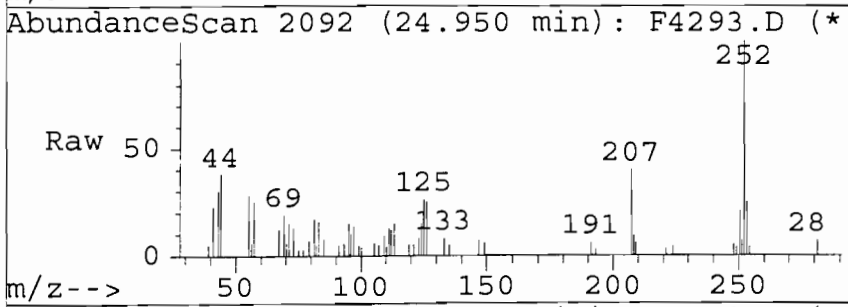
#74
 Bis (2-Ethylhexyl) Phthalate (
 Concen: 1.85 ng/uL
 RT: 22.87 min Scan# 1892
 Delta R.T. -0.07 min
 Lab File: F4293.D
 Acq: 3/30/99 @ 17:00



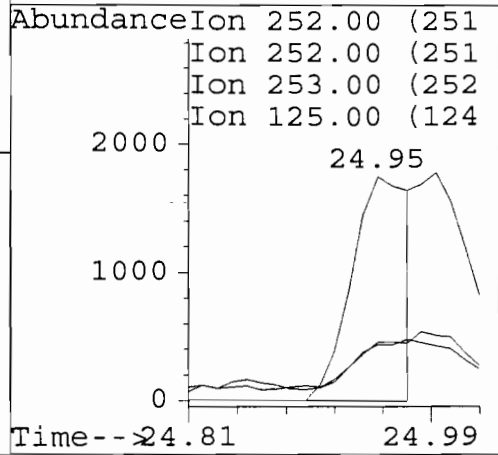
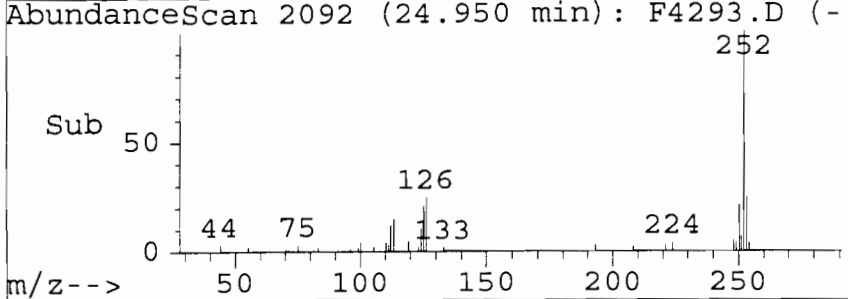
Tgt Ion	Resp	Lower	Upper
149	6897		
149	100		
149	100.0	50.0	150.0
167	32.7	0.0	80.6
279	0.0	0.0	56.6

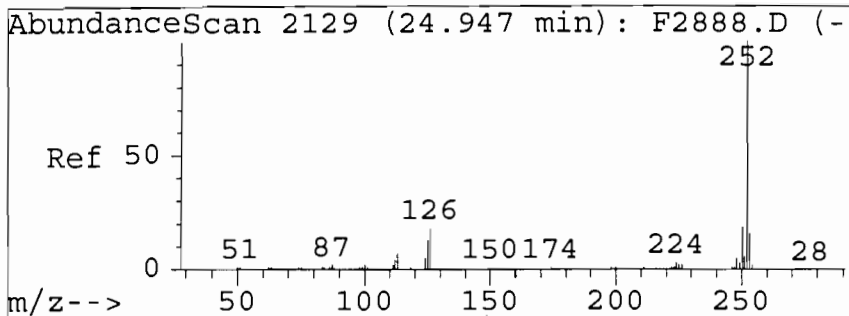


#77
 Benzo-(b)-Fluoranthene (76G)
 Concen: 1.55 ng/uL m
 RT: 24.95 min Scan# 2092
 Delta R.T. -0.14 min
 Lab File: F4293.D
 Acq: 3/30/99 @ 17:00



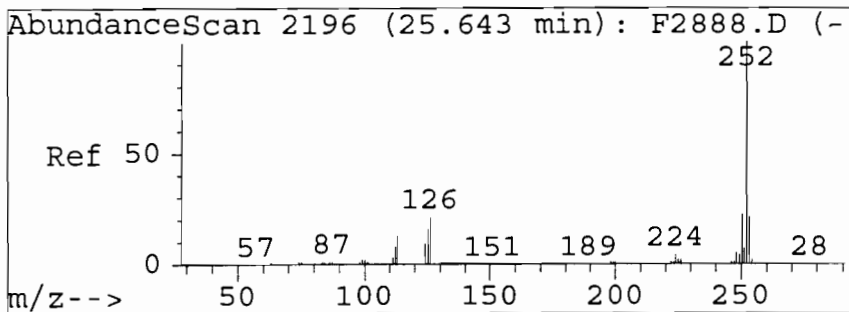
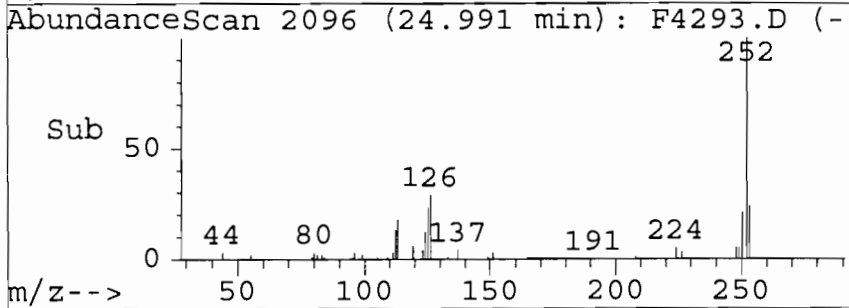
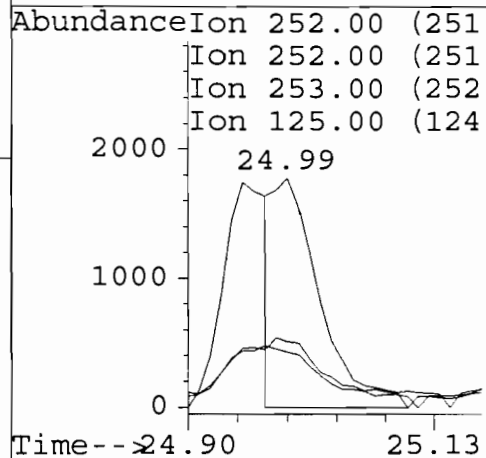
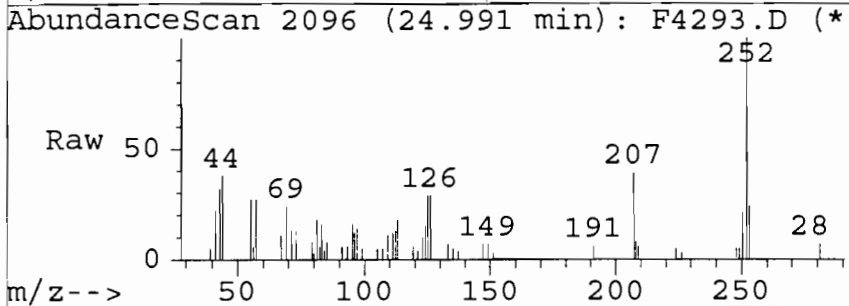
Tgt Ion	Resp	Lower	Upper
252	4914		
252	100		
252	100.0	50.0	150.0
253	25.0	0.0	70.8
125	26.3	0.0	62.9





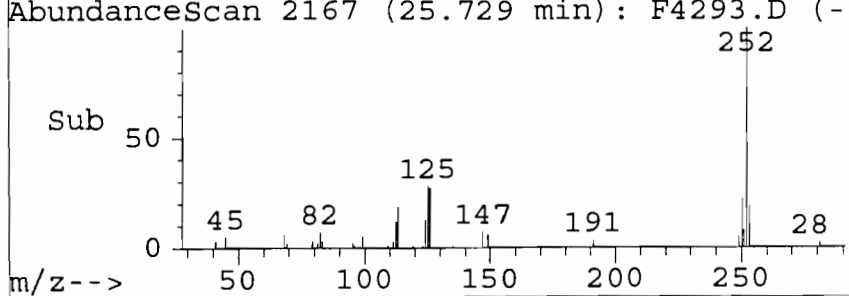
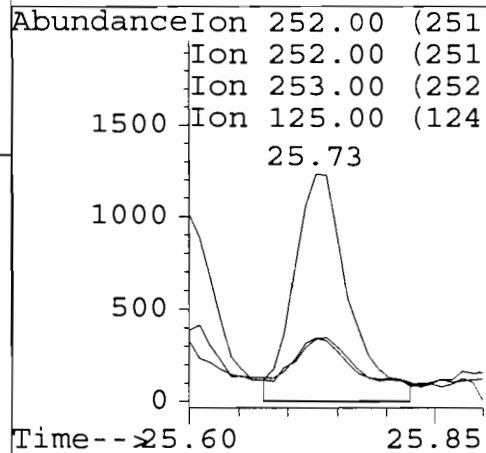
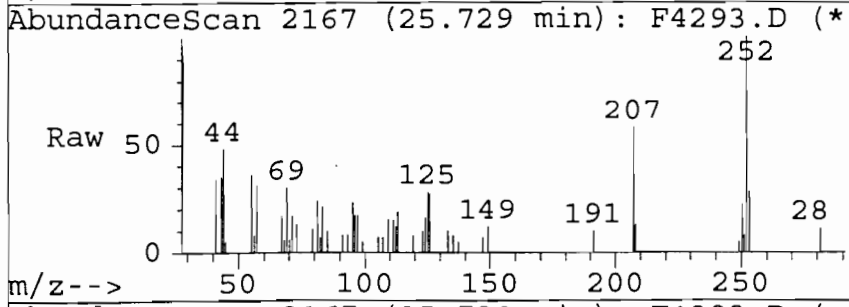
#78
 Benzo-(k)-Fluoranthene(77G)
 Concen: 1.63 ng/uL
 RT: 24.99 min Scan# 2096
 Delta R.T. -0.10 min
 Lab File: F4293.D
 Acq: 3/30/99 @ 17:00

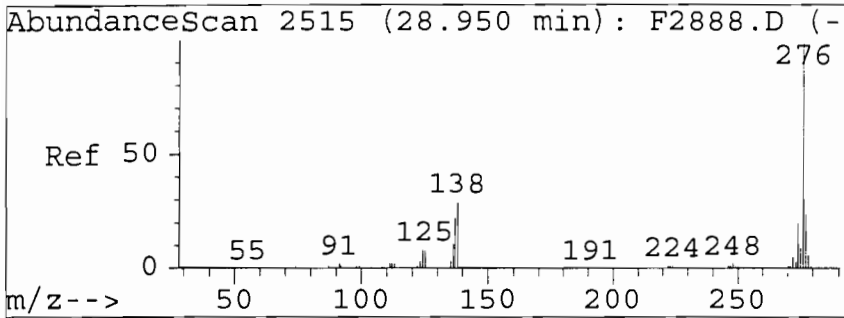
Tgt Ion	Ratio	Lower	Upper
252	100		
252	100.0	50.0	150.0
253	0.0	0.0	71.0
125	0.0	0.0	60.3



#79
 Benzo-(a)-Pyrene(78G)
 Concen: 1.68 ng/uL
 RT: 25.73 min Scan# 2167
 Delta R.T. -0.09 min
 Lab File: F4293.D
 Acq: 3/30/99 @ 17:00

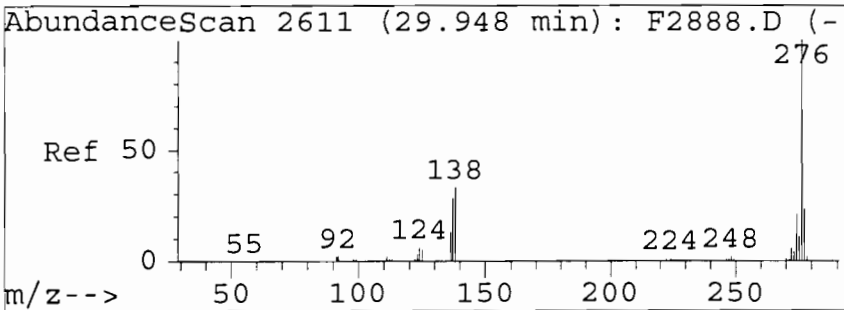
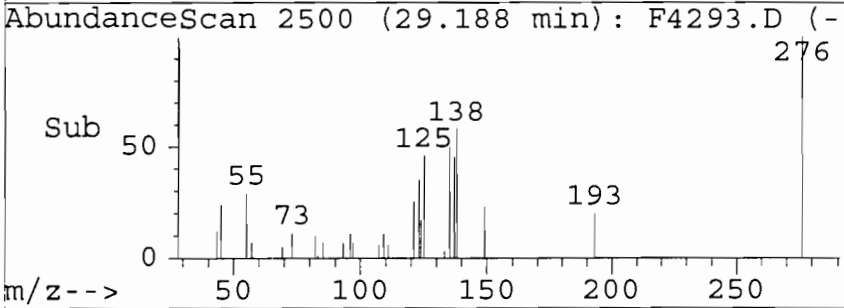
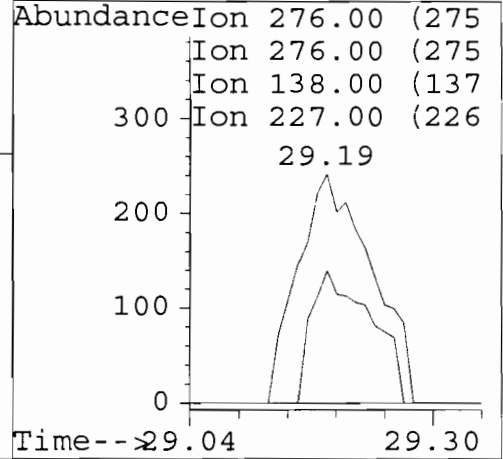
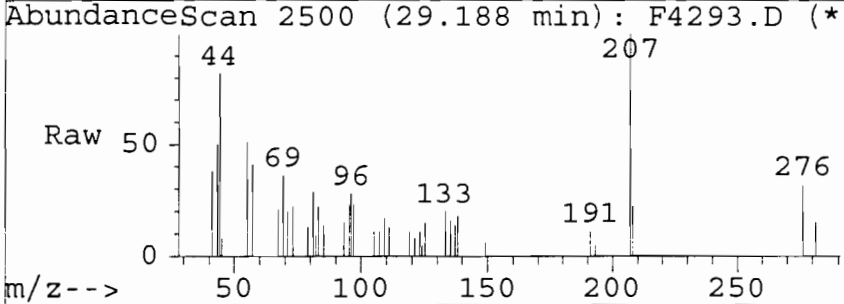
Tgt Ion	Ratio	Lower	Upper
252	100		
252	100.0	50.0	150.0
253	15.3	0.0	70.9
125	16.9	0.0	64.5





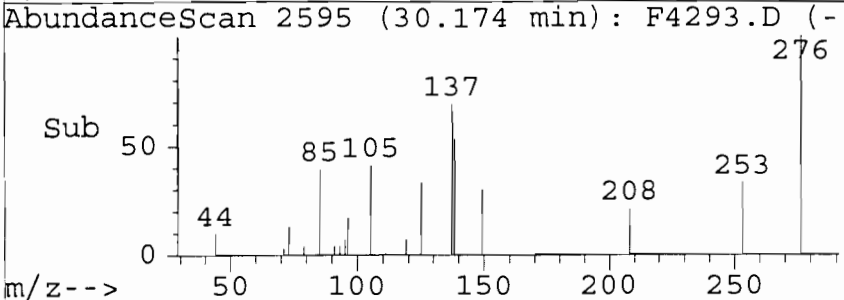
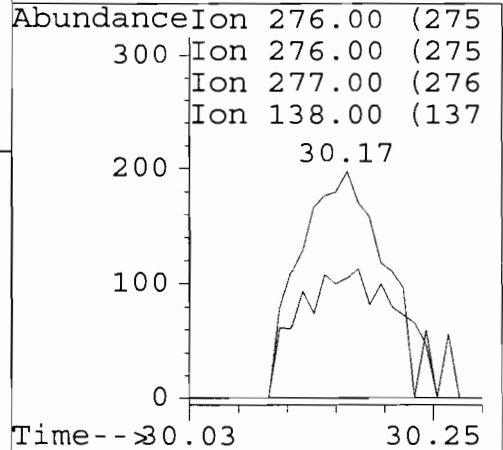
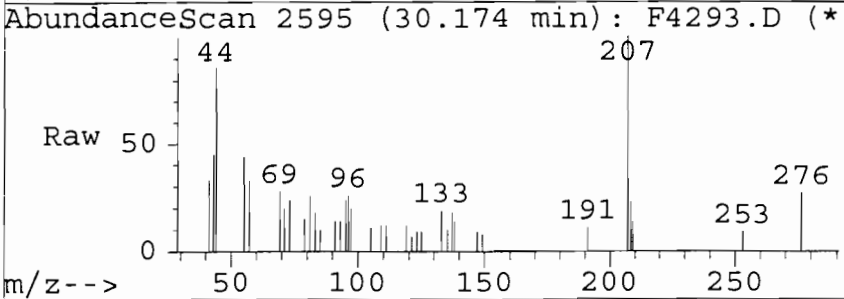
#80
 Indeno-(1,2,3-cd)-Pyrene(79G)
 Concen: 0.75 ng/uL
 RT: 29.19 min Scan# 2500
 Delta R.T. -0.10 min
 Lab File: F4293.D
 Acq: 3/30/99 @ 17:00

Tgt Ion	Resp	Lower	Upper
276	1332		
276	100		
276	100.0	50.0	150.0
138	0.0	0.0	74.7
227	0.0	0.0	50.0



#82
 Benzo-(g,h,i)-Perylene(81G)
 Concen: 0.77 ng/uL
 RT: 30.17 min Scan# 2595
 Delta R.T. -0.10 min
 Lab File: F4293.D
 Acq: 3/30/99 @ 17:00

Tgt Ion	Resp	Lower	Upper
276	1055		
276	100		
276	100.0	50.0	150.0
277	0.0	0.0	73.7
138	5.6	0.0	77.0



ANALab, Inc. - Randolph Facility
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Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
APRIL 12, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

DIESEL RANGE ORGANIC PETROLEUM HYDROCARBONS BY GC

Client: GCI
Sample Source: 960285
Sample Date: 03/11/99 At Lab Date: 03/15/99
Sample ID: DW-3
Sampled by: Customer

Lab Number: 306392
Sample wt/vol: 25 Final volume: 1
Sample Matrix: Soil Column used: RTX-5
Percent Moisture: 37.6% Dilution Factor 5
Analysis Date: 04/09/99
Extraction Date: 04/08/99

Parameter	Result mg/kg	Method Blank mg/kg	Minimum Detection Limit mg/kg	Practical Quantitation Limit mg/kg
DRO Petroleum Hydrocarbons	480	U	32	32

U = Not detected
Results reported as mg/kg (ppm) are reported on a dry weight basis.

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Thomas Mancuso, Lab Mgr.
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Data File : E:\1\DATA\DA1553.D
 Acq On : 9 Apr 99 7:49
 Sample : 306392 1:5
 Misc : QDR8195
 IntFile : EVENTS1.E

Vial: 16
 Operator:
 Inst : GC 5890_4
 Multiplr: 1.00

Quant Time: Apr 12 11:23 1999 Quant Results File: DROSOIL.RES

Quant Method : E:\1\METHODS\DROSOIL.M (Chemstation Integrator)
 Title : GC TPH DRO METHOD - Total Area Quantitation
 Last Update : Mon Apr 12 09:21:56 1999
 Response via : Initial Calibration
 DataAcq Meth : DROSOIL.M

Volume Inj. : 1 µl injection
 Signal Phase : Restek RTx-5
 Signal Info : 30 M x 0.53mm x 0.25µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Ortho-Terphenyl	18.02	319375	4.544 µg/mlm
Spiked Amount 20.000		Recovery =	22.72%
Target Compounds			
2) HM DIESEL RANGE	17.00	105361407	1516.090 µg/ml

705 4/12/99

Quantitation Report

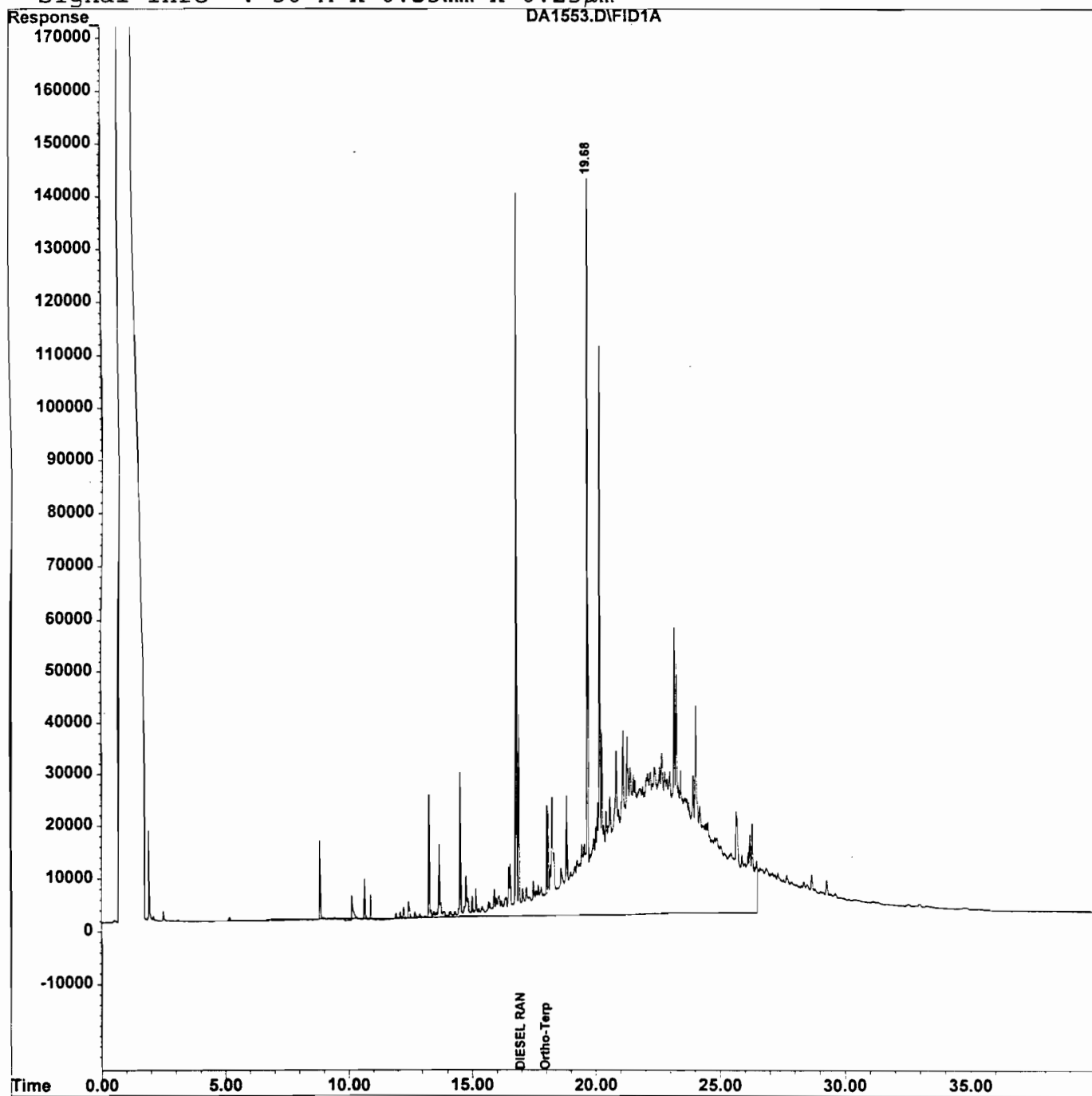
Data File : E:\1\DATA\DA1553.D
Acq On : 9 Apr 99 7:49
Sample : 306392 1:5
Misc : QDR8195
IntFile : EVENTS1.E
Quant Time: Apr 12 11:23 1999

Vial: 16
Operator:
Inst : GC 5890_4
Multiplr: 1.00

Quant Results File: DROSOIL.RES

Quant Method : E:\1\METHODS\DROSOIL.M (Chemstation Integrator)
Title : GC TPH DRO METHOD - Total Area Quantitation
Last Update : Mon Apr 12 09:21:56 1999
Response via : Multiple Level Calibration
DataAcq Meth : DROSOIL.M

Volume Inj. : 1 µl injection
Signal Phase : Restek RTX-5
Signal Info : 30 M x 0.53mm x 0.25µm



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APRIL 6, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 306392
Client: GCI
Sample source: 960285
Sample ID: DW-3
Sample date: 03/11/99
Sampled by: Customer
At lab date: 03/15/99
Matrix: SOIL
Percent Moisture: 37.6 %

ICP/FURNACE Initial weight: 1.00 g ICP/FURNACE Final volume: 100 ml
Mercury Initial weight: 0.52 g Mercury Final volume: 100 ml
Results in mg/Kg dry weight basis.

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Dilution Factor	Analysis Date
Arsenic	8.49	U	0.641	1	03/23/99
Barium	147	U	0.801	1	03/23/99
Cadmium	4.17	U	0.801	1	03/23/99
Chromium	68.3	U	0.801	1	03/23/99
Lead	396	U	0.641	1	03/23/99
Mercury	0.431	U	0.062	1	03/22/99
Selenium	3.52	U	0.641	1	03/23/99
Silver	0.801	U	0.801	1	03/23/99

U = Not Detected

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ROB

ANALab, Inc. - Randolph Facility
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 973-584-0330, FAX: 973-584-0515
 MARCH 29, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

TARGET COMPOUND LIST - VOLATILE ANALYSIS BY GC/MS

Lab Number: 306393 Data File: >A3691
 Client: GCI
 Sample source: 960285
 Sample ID: DW-4
 Sample date: 03/11/99
 Sampled by: Customer Analysis Date: 03/17/99 Column: DB-624
 At lab date: 03/15/99 Dilution Factor: 1
 Matrix: Soil Init Sample Wght= 5g Final volume= 5ml

Percent Moisture: 27%
 Initial sample weight DWB= 3.65g

Conc. in Sample = (Conc. on Quant Report/Initial Sample Weight DWB)*Final Volume

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
Chloromethane	U	U	6.8	6.3
Bromomethane	U	U	6.8	5.2
Vinyl chloride	U	U	6.8	2.3
Chloroethane	U	U	6.8	2.5
Methylene chloride	U	U	6.8	3.7
Acetone	U	U	27	6.2
Carbon disulfide	U	U	6.8	2.3
1,1-Dichloroethene	U	U	6.8	2.3
1,1-Dichloroethane	U	U	6.8	1.9
trans-1,2-Dichloroethene	U	U	6.8	2.3
cis-1,2-Dichloroethene	U	U	6.8	2.3
Chloroform	U	U	6.8	2.2
1,2-Dichloroethane	U	U	6.8	2.6
2-Butanone	U	U	27	3.3
1,1,1-Trichloroethane	U	U	6.8	0.68
Carbon tetrachloride	U	U	6.8	0.82
Bromodichloromethane	U	U	6.8	0.82
1,2-Dichloropropane	U	U	6.8	0.82
cis-1,3-Dichloropropene	U	U	6.8	0.68
Trichloroethene	U	U	6.8	0.82
Dibromochloromethane	U	U	6.8	0.82
1,1,2-Trichloroethane	U	U	6.8	0.68
Benzene	U	U	6.8	0.68
trans-1,3-Dichloropropene	U	U	6.8	0.82
Bromoform	U	U	6.8	1.1
4-Methyl-2-pentanone	U	U	27	1.5
2-Hexanone	U	U	27	1.6
Tetrachloroethene	U	U	6.8	0.96
1,1,2,2-Tetrachloroethane	U	U	6.8	0.68
Toluene	U	U	6.8	1.1
Chlorobenzene	U	U	6.8	0.82
Ethylbenzene	U	U	6.8	0.96
Styrene	U	U	6.8	1.4
p&m-Xylene	U	U	6.8	1.2
o-Xylene	U	U	6.8	1.2
total Xylenes	U	U	6.8	1.2

ug/kg = micrograms/kilogram or ppb

Results are in ug/kg (ppb); they are reported on a dry weight basis.

ND: Not Determined.

IND: Indeterminable.

U: Indicates a compound was analyzed for but not detected at the PQL.

J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.

B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

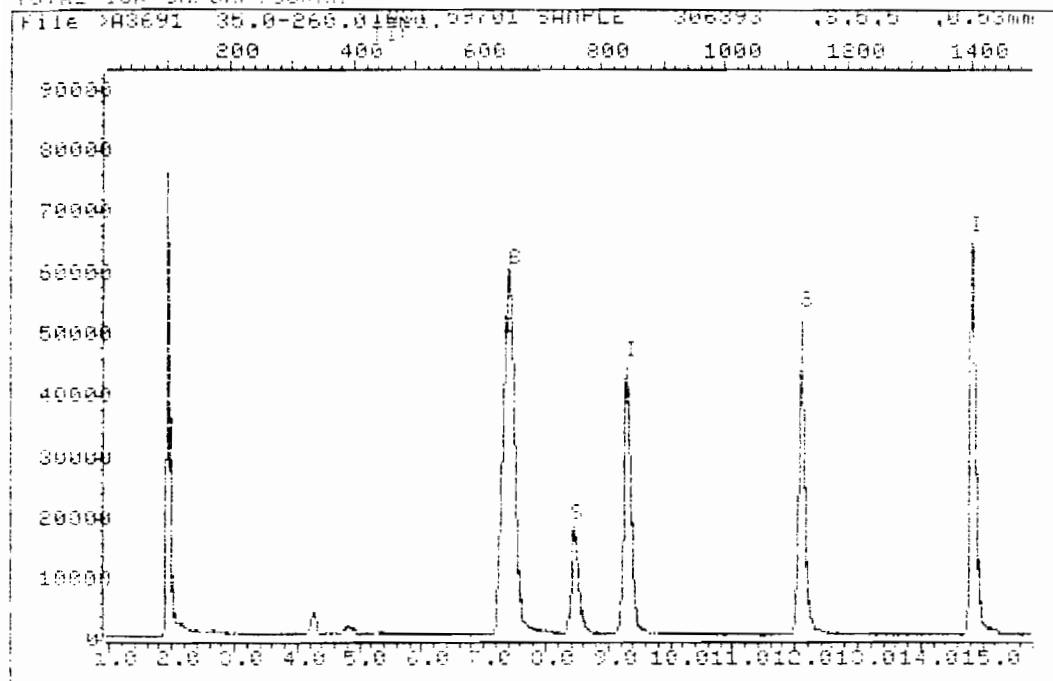
>A3691 INST 59701 SAMPLE 306393 ,S,S,S ,0.53mm x75m dB-624
 55.01 260.0 TIC

Upslope: .1000 Area Reject: 5.00 % Max Peaks: 8 Bunch: 1 Valley >100 %
 Dnslope: -.0100 Results File VDIR78 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	1.93	93	99	112	75739	237842	229673	28.95	7.027
2	7.40	623	652	682	62596	829191	793278	100.00	24.271
3	8.45	743	758	784	17603	173241	144238	10.18	4.413
4	9.27	820	841	864	43662	382178	353746	44.59	10.823
5	12.08	1110	1125	1142	51688	384356	362877	45.74	11.103
6	14.82	1388	1401	1419	63942	419272	402003	50.66	12.300
7	17.05	1614	1627	1654	84301	529220	506963	63.89	15.508
8	19.20	1831	1844	1870	80479	502258	475722	59.97	14.555

Sum of corrected areas: 3268400.

TOTAL ION CHROMATOGRAM



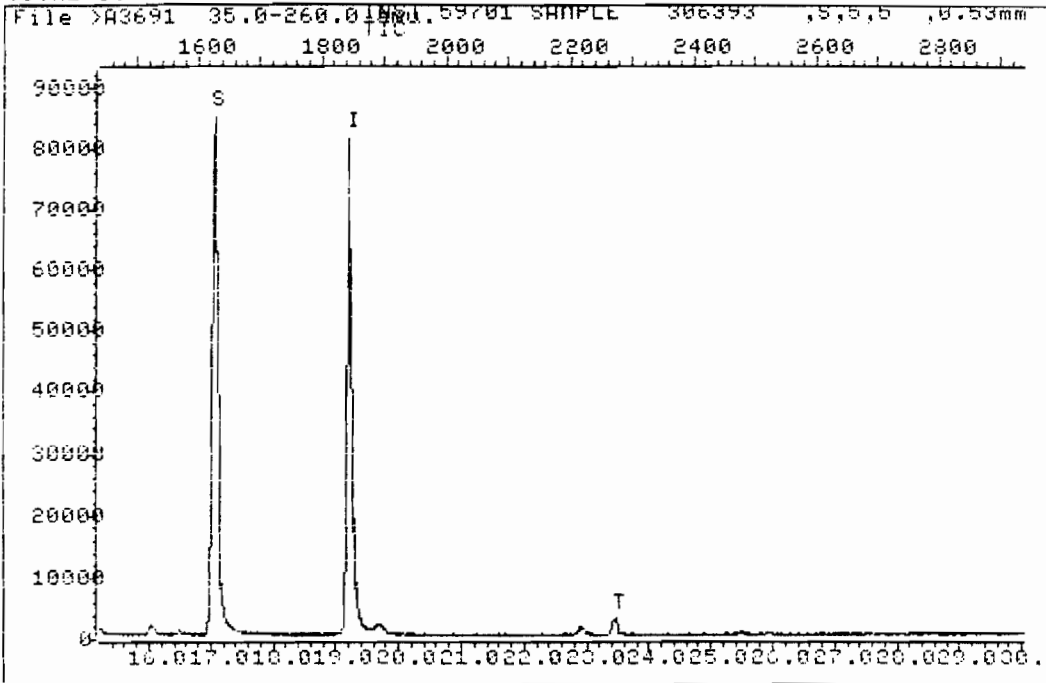
Data File: >A3691::D1 Quant Output File: >A3691::D1
 Name: INST 59701 SAMPLE Instrument ID: INST "A"
 Misc: 306393 ,S,S,S ,0.53mm x75m db-624

Id File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990312 14:07 Last Doa: Time: none

Operator ID: AT1446
 Quant Time : 990317 21:45
 Injected at: 990317 21:14

Page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >A3691::C1 Quant Output File: ^A3691::X1
Name: INST 59701 SAMPLE Instrument ID: INST "A"
Misc: 306393 ,S,S,S ,0.53mm x75m db-624

Id File: ID86AS::RS
Title: Method 8260B IDFILE
Last Calibration: 990312 14:07 Last Qual Time: <none>

Operator ID: AT1446
Quant Time : 990317 21:45
Injected at: 990317 21:14

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 Randolph, NJ 07869
 973-584-0330, FAX: 973-584-0515
 MARCH 29, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

TARGET COMPOUND LIST - BASE/NEUTRAL FRACTION ANALYSIS BY GC/MS

Lab Number: 306393 Data File: >F4277
 Client: GCI
 Sample source: 960285
 Sample ID: DW-4
 Sample date: 03/11/99 Extracted Date: 03/19/99
 Sampled by: Customer Analysis Date: 03/29/99 Column: 30m SPB-5
 At lab date: 03/15/99 Dilution Factor: 1
 Percent Moisture: 27%
 Matrix: Soil Init Sample Wght= 30.15g Final volume= 1ml
 Initial sample weight DWB= 22.0095g

Conc. in Sample = (Conc. on Quant Report/Initial Sample Weight DWB)*Final Volume*1000

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
bis(2-Chloroethyl) ether	U	U	230	45
1,3-Dichlorobenzene	U	U	230	110
1,4-Dichlorobenzene	U	U	230	100
1,2-Dichlorobenzene	U	U	230	110
bis(2-Chloroisopropyl) ether	U	U	230	55
N-Nitroso-di-n-propylamine	U	U	230	45
Hexachloroethane	U	U	230	130
Nitrobenzene	U	U	230	45
Isophorone	U	U	230	45
bis(2-Chloroethoxy)methane	U	U	230	45
1,2,4-Trichlorobenzene	U	U	230	100
Naphthalene	U	U	230	91
4-Chloroaniline	U	U	230	45
Hexachlorobutadiene	U	U	230	45
2-Methylnaphthalene	U	U	230	95
Hexachlorocyclopentadiene	U	U	230	68
2-Chloronaphthalene	U	U	230	91
2-Nitroaniline	U	U	230	45
Dimethyl phthalate	U	U	230	210
Acenaphthylene	U	U	230	68
2,6-Dinitrotoluene	U	U	230	45
3-Nitroaniline	U	U	230	45
Acenaphthene	U	U	230	86
Dibenzofuran	U	U	230	68
2,4-Dinitrotoluene	U	U	230	45
Diethyl phthalate	U	U	230	100
4-Chlorophenyl phenyl ether	U	U	230	91
Fluorene	31J	U	230	77
4-Nitroaniline	U	U	230	45
N-Nitrosodiphenylamine	U	U	230	45
4-Bromophenyl phenyl ether	U	U	230	86
Hexachlorobenzene	U	U	230	86
Phenanthrene	230	U	230	41
Anthracene	46J	U	230	36

(continued on next page)

(continued from previous page)

Lab Number: 306393
Client: GCI

Data File: >F4277

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
Di-n-butylphthalate	U	U	230	110
Fluoranthene	390	U	230	27
Pyrene	320	U	230	23
Butyl benzylphthalate	U	U	230	55
3,3'-Dichlorobenzidine	U	U	230	45
Benzo (a) anthracene	110J	U	230	23
Chrysene	170J	U	230	23
bis(2-Ethylhexyl)phthalate	510	U	230	140
Di-n-octylphthalate	U	U	230	45
Benzo (b) fluoranthene	130J	U	230	32
Benzo (k) fluoranthene	130J	U	230	32
Benzo (a) pyrene	95J	U	230	23
Indeno (1, 2, 3-cd) pyrene	53J	U	230	50
Dibenz (a, h) anthracene	U	U	230	23
Benzo (g, h, i) perylene	59J	U	230	23
Carbazole	34J	U	230	45

ug/kg = micrograms/kilogram or ppb
Results are in ug/kg (ppb); they are reported on a dry weight basis.

ND: Not Determined.
IND: Indeterminable.

U: Indicates a compound was analyzed for but not detected at the PQL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

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Thomas Mancuso, Lab Mgr.
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Quantitation Report

Data File : F:\RTE\BNA\F42_D\F4277.D

Acq Time : 29 MAR 99 1:56 PM

Sample :

Misc : 306393, QC8167 M SPB-5 CAP COLUMN

Quant Time: Mar 24 3:05 1999

Operator: AM9951

Inst :

Multiplr: 1.00

Method : C:\METHODS\CF4189.M

Title : BNA STANDARDS FOR 5 POINT CALIBRATION

Last Update : Tue Mar 23 13:25:06 1999

Response via : Multiple Level Calibration

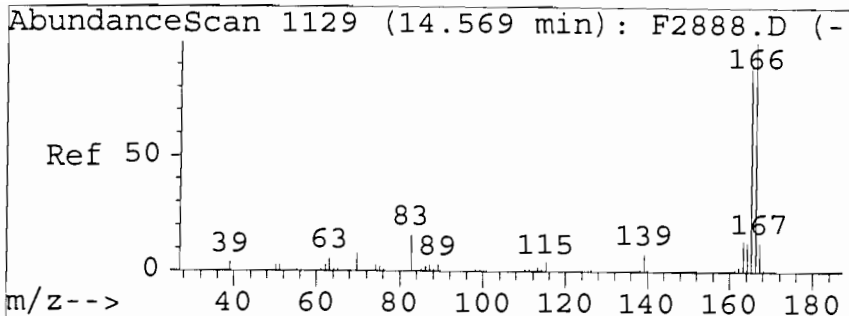
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-Dichlorobenzene	7.51	152	32120	40.00	ng/uL	-0.09
21) d8-Naphthalene	10.05	136	140500	40.00	ng/uL	-0.10
33) d10-Acenaphthene	13.78	164	72606	40.00	ng/uL	-0.11
57) d10-Phenanthrene	16.92	188	269989	40.00	ng/uL	-0.12
66) d12-Chrysene	22.63	240	196854	40.00	ng/uL	-0.13
75) d12-Perylene	25.83	264	91916	40.00	ng/uL	-0.16

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
4) 2-Fluorophenol	5.41	112	173645	219.81	ng/uL	109.91%
6) Phenol-d6	7.09	99	71018	72.58	ng/uL	36.29%
19) Nitobenzene-d5	8.67	82	86137	80.20	ng/uL	80.20%
37) 2-Fluorobiphenyl	12.40	172	184387	68.73	ng/uL	68.73%
56) 2,4,6-Tribromophenol	15.50	330	94721	169.38	ng/uL	84.69%
69) Terphenyl-d14	20.41	244	293211	59.80	ng/uL	59.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
17) n-Nitrosodipropyl Amine (16G)	8.67	70	12908	19.09	ng/uL#	48
42) 2,6-Dinitrotoluene (42G)	13.78	165	9371	9.34	ng/uL#	72
49) Fluorene (51G)	14.92	166	1872	0.68	ng/uL#	54
54) n-Nitrosodiphenyl Amine (56)	15.52	169	3869	1.92	ng/uL#	25
61) Phenanthrene (61G)	16.96	178	34190	5.15	ng/uL#	93
62) Anthracene (62G)	17.06	178	6886	1.01	ng/uLm	94
63) Carbazole (21S)	17.47	167	4568	0.74	ng/uL#	89
65) Fluoranthene (64G)	19.52	202	64887	8.61	ng/uL#	94
68) Pyrene (67G)	19.99	202	53167	6.94	ng/uL#	92
71) Benzo-(a)-Anthracene (71G)	22.58	228	15610	2.48	ng/uLm	89
73) Chrysene (72G)	22.67	228	23506	3.66	ng/uL#	88
74) Bis (2-Ethylhexyl) Phthala	22.84	149	56171	11.30	ng/uL#	98
77) Benzo-(b)-Fluoranthene (76G)	24.90	252	10241	2.97	ng/uLm	90
78) Benzo-(k)-Fluoranthene (77G)	24.95	252	10276	2.84	ng/uL#	91
79) Benzo-(a)-Pyrene (78G)	25.68	252	6286	2.10	ng/uL#	95
80) Indeno-(1,2,3-cd)-Pyrene (7	29.09	276	2272	1.17	ng/uL#	95
82) Benzo-(g,h,i)-Perylene (81	30.06	276	1916	1.29	ng/uL	87

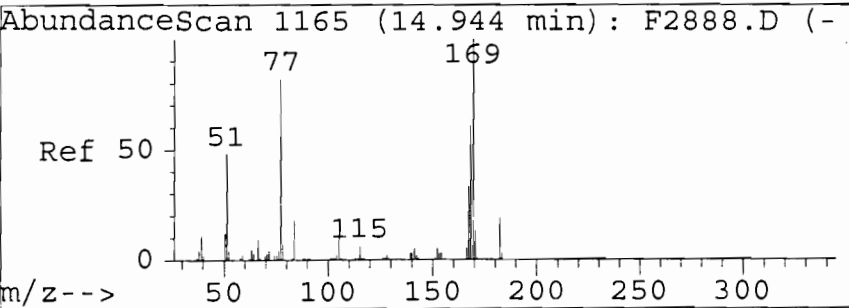
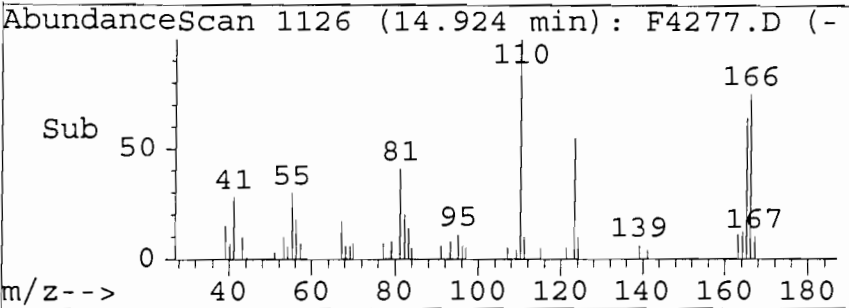
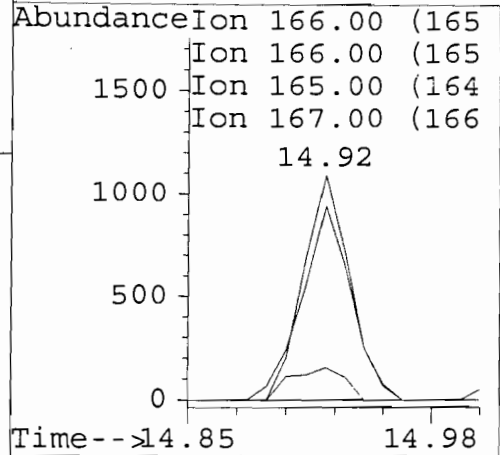
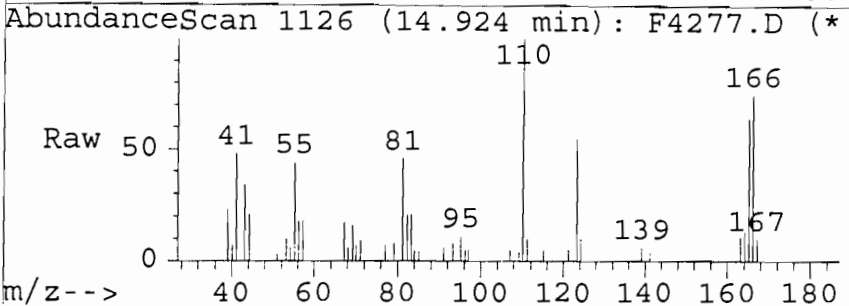
(#) = qualifier out of range (m) = manual integration

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	4.897	rVB	0.104	41535	4.877	4.980
2	5.188	rVB	0.083	158666	5.167	5.250
3	5.395	rVB	0.301	580242	5.260	5.561
4	6.255	rBV	0.083	41282	6.234	6.317
5	7.043	rBV	0.602	704511	6.451	7.053
6	7.519	rVB	0.135	185749	7.478	7.613
7	8.668	rBV	0.176	287580	8.575	8.751
8	10.045	rBV	0.093	296016	10.014	10.107
9	11.029	rBV	0.052	12334	11.008	11.060
10	12.333	rBV	0.052	16301	12.302	12.354
11	12.396	rBV	0.073	517493	12.354	12.427
12	13.783	rVB	0.083	296240	13.742	13.825
13	14.001	rVB	0.062	20384	13.970	14.032
14	14.810	rVB	0.062	13845	14.778	14.841
15	14.924	rVB	0.093	17286	14.893	14.986
16	15.297	rVB	0.093	12071	15.276	15.369
17	15.505	rBV	0.250	827679	15.369	15.619
18	15.816	rVV	0.073	16986	15.764	15.837
19	15.868	rVV	0.062	23824	15.837	15.899
20	16.573	rVB	0.062	22458	16.542	16.605
21	16.864	rBV	0.052	13404	16.822	16.874
22	16.916	rVV	0.073	667608	16.874	16.947
23	16.958	rVB	0.062	76718	16.947	17.010
24	17.062	rVB	0.083	13952	17.031	17.114
25	17.674	rVB	0.073	13023	17.653	17.726
26	18.079	rVV	0.094	16980	18.037	18.131
27	18.255	rBV	0.083	44055	18.214	18.297
28	18.723	rVB	0.114	18458	18.692	18.806
29	19.377	rVB	0.125	14871	19.357	19.481
30	19.523	rBV	0.115	161347	19.481	19.596
31	19.700	rBV	0.104	13784	19.669	19.773
32	19.992	rVB	0.104	140571	19.950	20.054
33	20.409	rBV	0.157	880023	20.346	20.503
34	22.319	rBV	0.063	40774	22.288	22.350
35	22.633	rBV	0.189	689969	22.549	22.738
36	22.843	rVB	0.157	212962	22.801	22.958
37	23.063	rBV	0.073	31162	23.031	23.104
38	23.136	rVB	0.063	27876	23.115	23.178
39	24.903	rBV	0.042	15866	24.872	24.914
40	25.833	rVB	0.251	295423	25.770	26.021



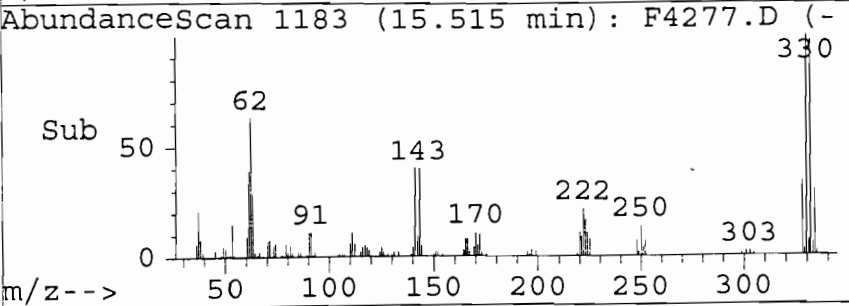
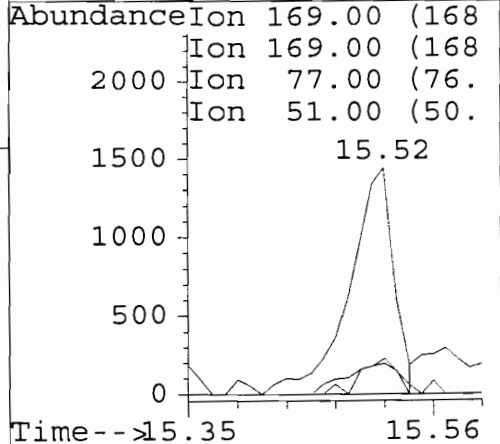
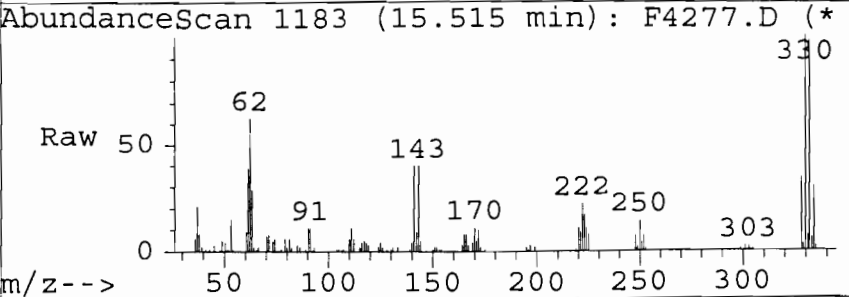
#49
 Fluorene(51G)
 Concen: 0.68 ng/uL
 RT: 14.92 min Scan# 1126
 Delta R.T. -0.11 min
 Lab File: F4277.D
 Acq: 3/29/99 @ 13:56

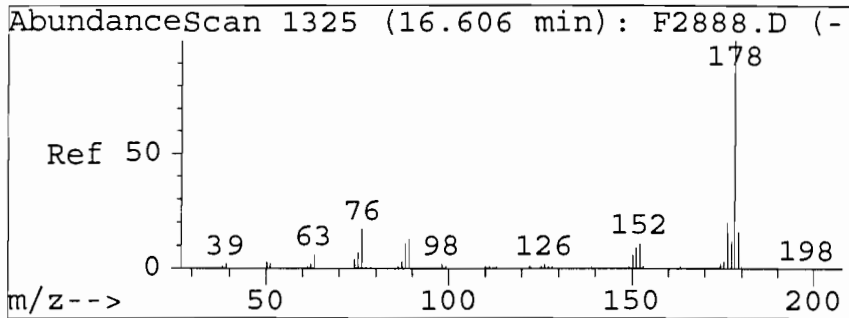
Tgt Ion	Resp	Lower	Upper
166	1872		
166	100		
166	100.0	50.0	150.0
165	0.0	47.3	147.3#
167	16.6	0.0	62.8



#54
 n-Nitrosodiphenyl Amine(56G)
 Concen: 1.92 ng/uL
 RT: 15.52 min Scan# 1183
 Delta R.T. 0.15 min
 Lab File: F4277.D
 Acq: 3/29/99 @ 13:56

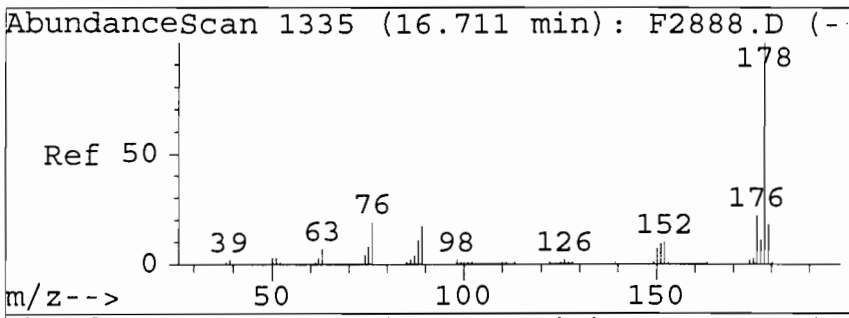
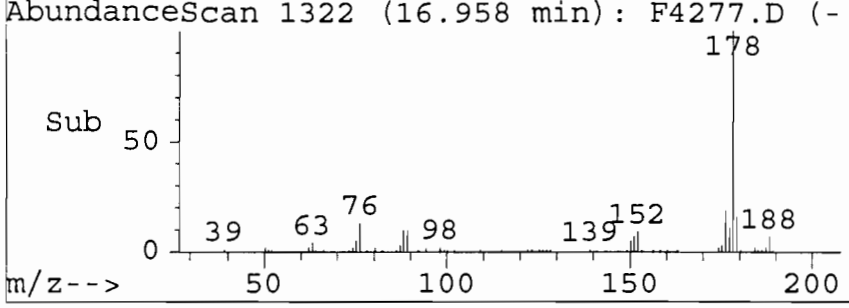
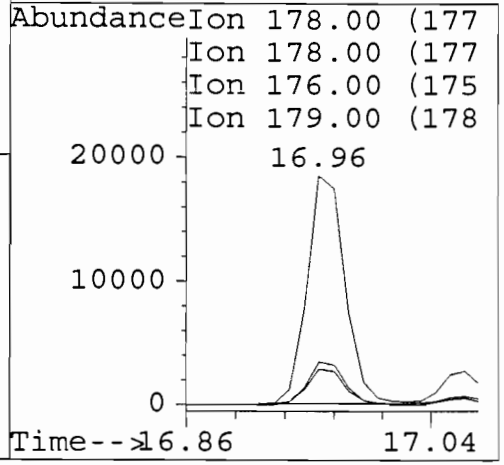
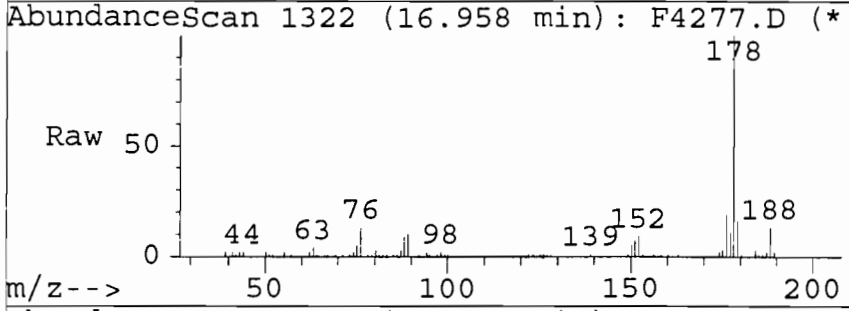
Tgt Ion	Resp	Lower	Upper
169	3869		
169	100		
169	100.0	80.0	120.0
77	0.0	122.5	162.5#
51	0.0	65.7	105.7#





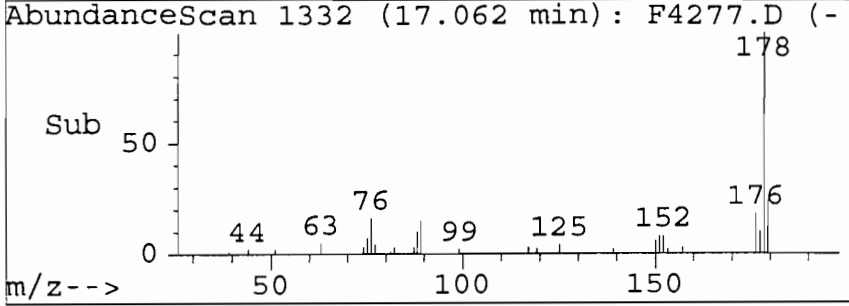
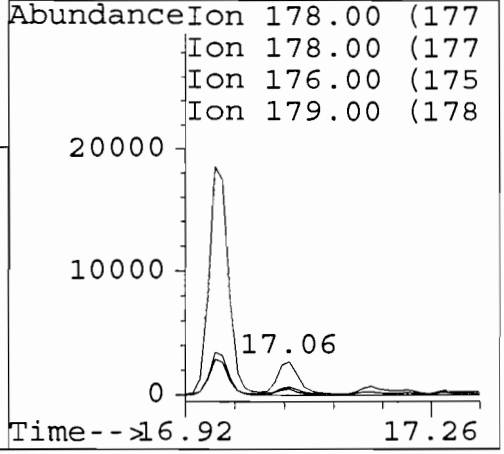
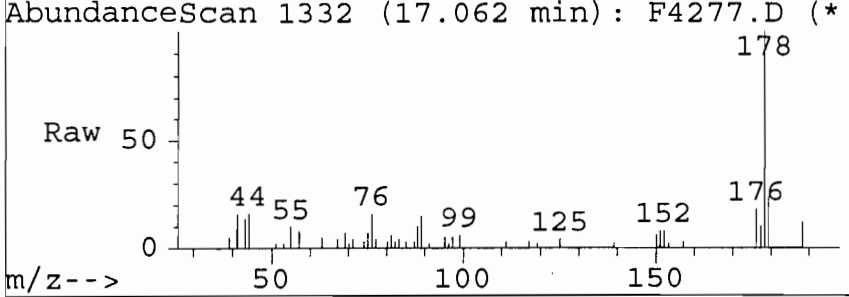
#61
 Phenanthrene (61G)
 Concen: 5.15 ng/uL
 RT: 16.96 min Scan# 1322
 Delta R.T. -0.21 min
 Lab File: F4277.D
 Acq: 3/29/99 @ 13:56

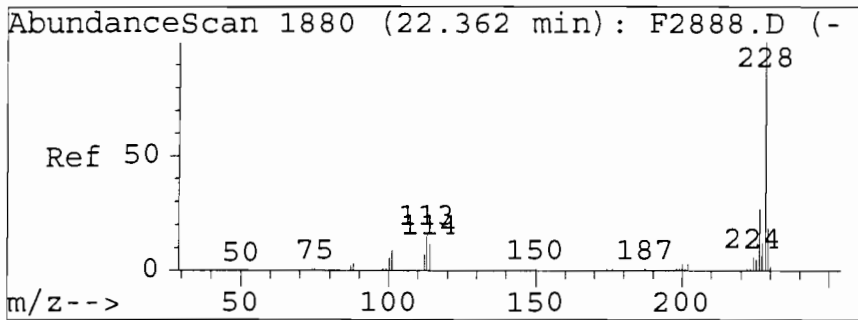
Tgt Ion	Resp	Lower	Upper
178	34190		
178	100		
178	100.0	50.0	150.0
176	0.0	0.0	69.5
179	16.3	0.0	64.7



#62
 Anthracene (62G)
 Concen: 1.01 ng/uL m
 RT: 17.06 min Scan# 1332
 Delta R.T. -0.11 min
 Lab File: F4277.D
 Acq: 3/29/99 @ 13:56

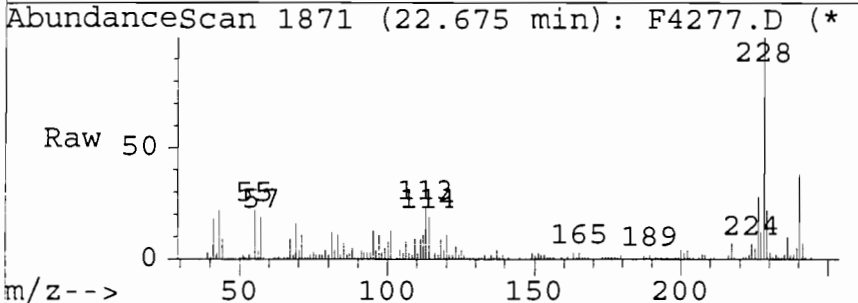
Tgt Ion	Resp	Lower	Upper
178	6886		
178	100		
178	100.0	50.0	150.0
176	17.8	9.6	28.7
179	23.8	7.3	21.9#



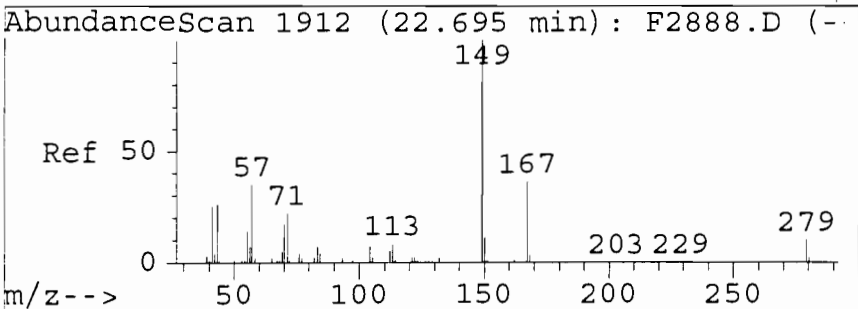
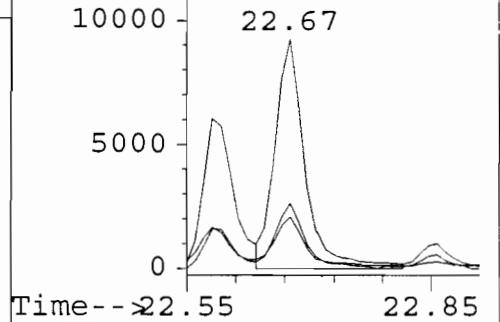
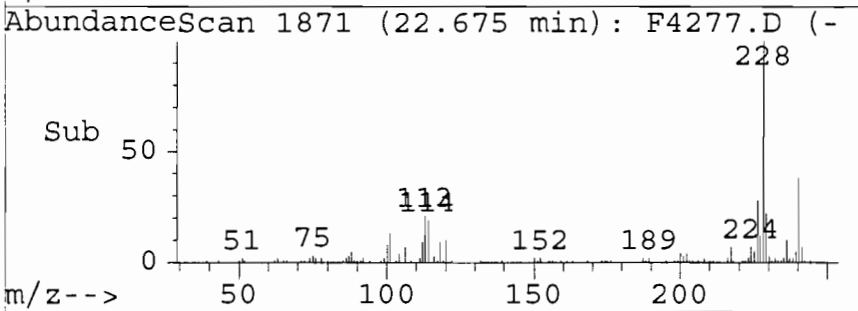


#73
 Chrysene (72G)
 Concen: 3.66 ng/uL
 RT: 22.67 min Scan# 1871
 Delta R.T. -0.14 min
 Lab File: F4277.D
 Acq: 3/29/99 @ 13:56

Tgt Ion	Ratio	Lower	Upper	Resp
228	100			23506
228	100.0	50.0	150.0	
226	0.0	0.0	79.7	
229	22.2	0.0	69.2	

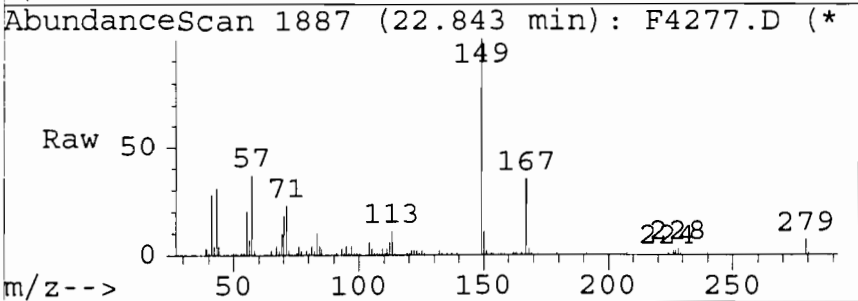


AbundanceIon 228.00 (227
 Ion 228.00 (227
 Ion 226.00 (225
 Ion 229.00 (228

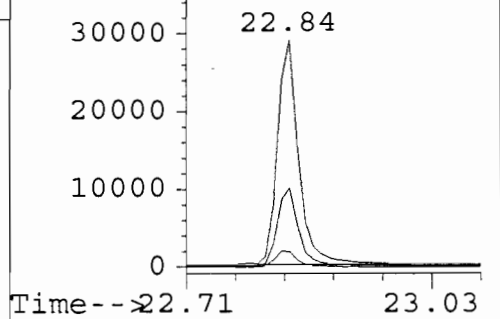
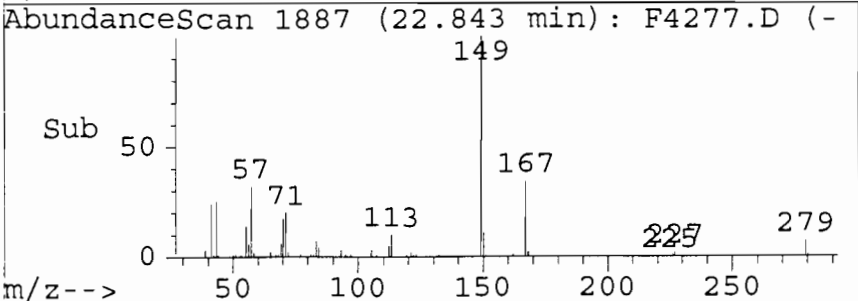


#74
 Bis (2-Ethylhexyl) Phthalate (
 Concen: 11.30 ng/uL
 RT: 22.84 min Scan# 1887
 Delta R.T. -0.09 min
 Lab File: F4277.D
 Acq: 3/29/99 @ 13:56

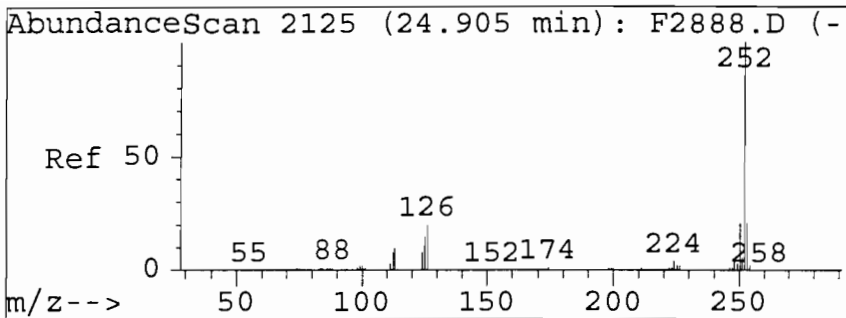
Tgt Ion	Ratio	Lower	Upper	Resp
149	100			56171
149	100.0	50.0	150.0	
167	34.4	0.0	80.6	
279	0.0	0.0	56.6	



AbundanceIon 149.00 (148
 Ion 149.00 (148
 Ion 167.00 (166
 Ion 279.00 (278

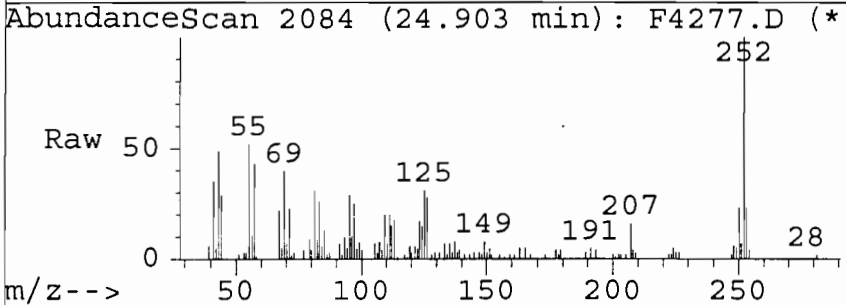


127

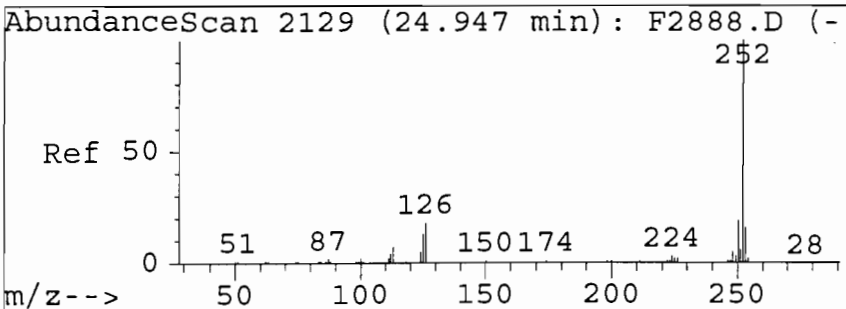
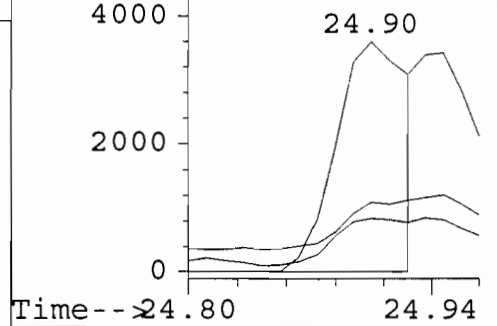
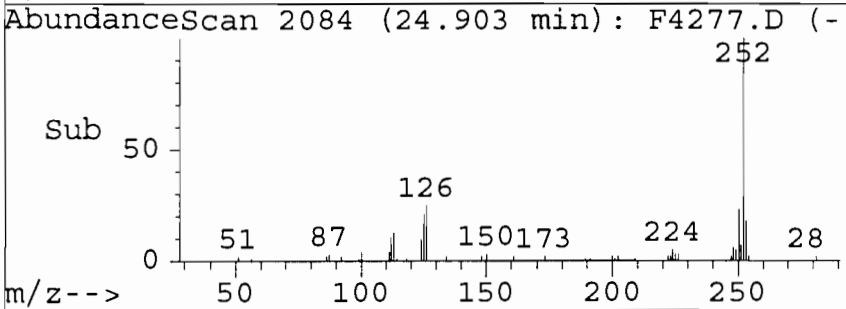


#77
 Benzo-(b)-Fluoranthene (76G)
 Concen: 2.97 ng/uL m
 RT: 24.90 min Scan# 2084
 Delta R.T. -0.19 min
 Lab File: F4277.D
 Acq: 3/29/99 @ 13:56

Tgt Ion	Resp	Lower	Upper
252	10241		
252	100		
252	100.0	50.0	150.0
253	23.1	0.0	70.8
125	30.5	0.0	62.9

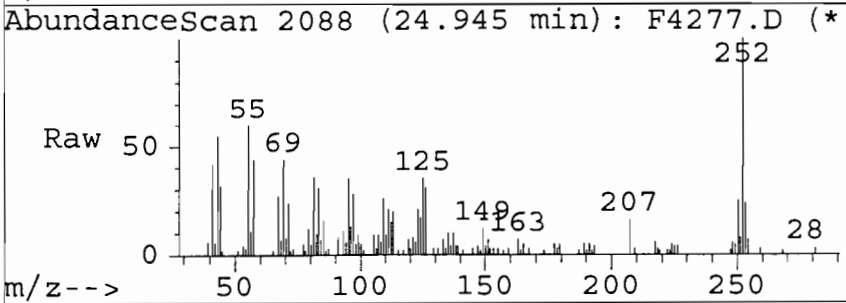


AbundanceIon 252.00 (251
 Ion 252.00 (251
 Ion 253.00 (252
 Ion 125.00 (124

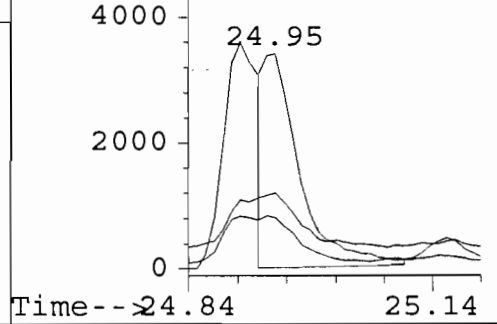
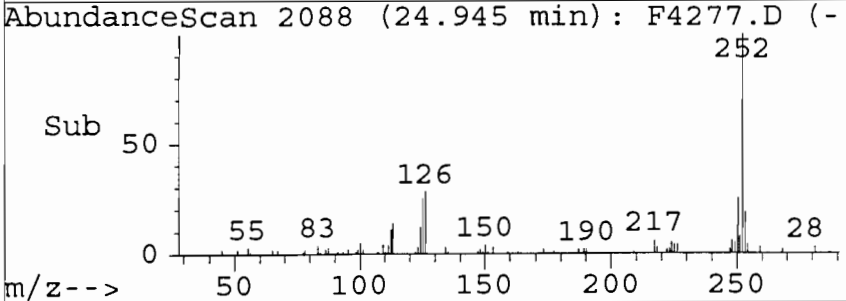


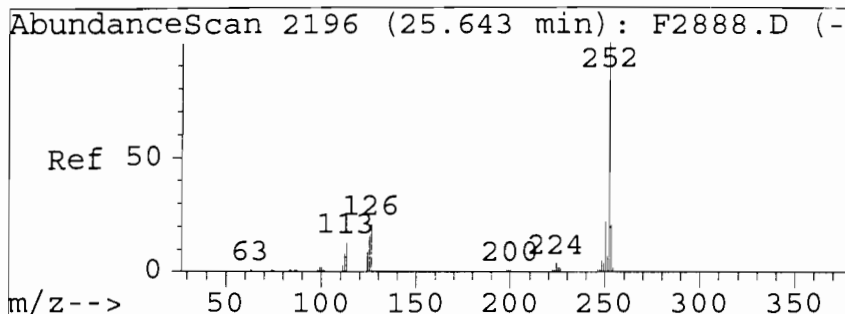
#78
 Benzo-(k)-Fluoranthene (77G)
 Concen: 2.84 ng/uL
 RT: 24.95 min Scan# 2088
 Delta R.T. -0.15 min
 Lab File: F4277.D
 Acq: 3/29/99 @ 13:56

Tgt Ion	Resp	Lower	Upper
252	10276		
252	100		
252	100.0	50.0	150.0
253	0.0	0.0	71.0
125	0.0	0.0	60.3



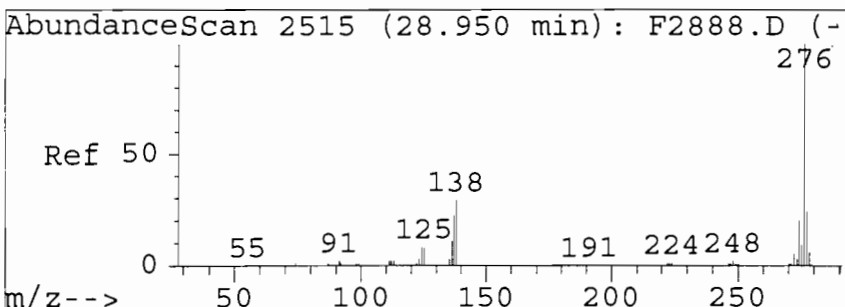
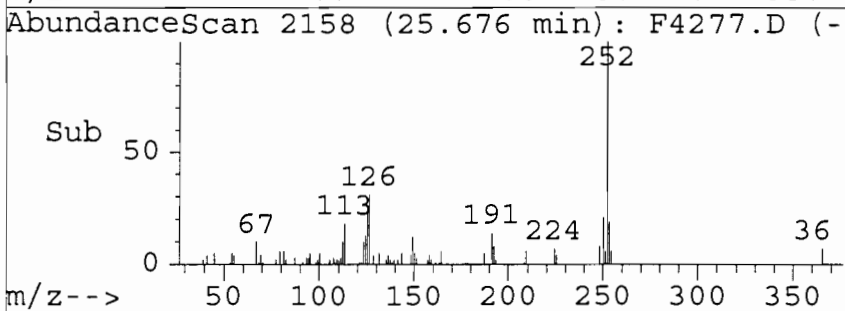
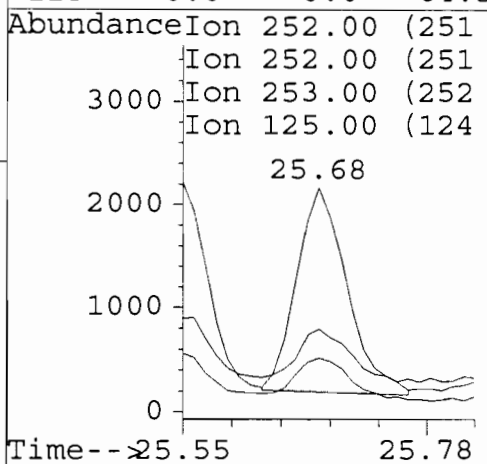
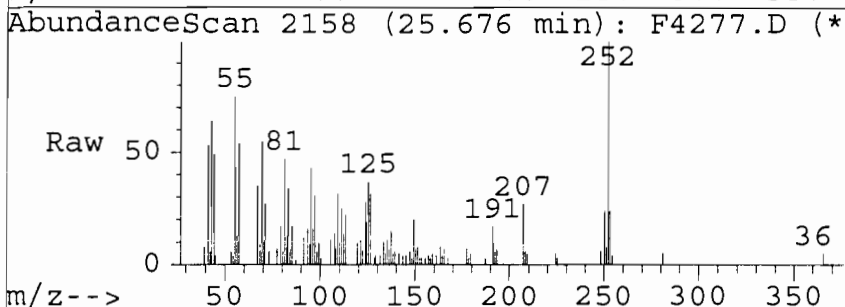
AbundanceIon 252.00 (251
 Ion 252.00 (251
 Ion 253.00 (252
 Ion 125.00 (124





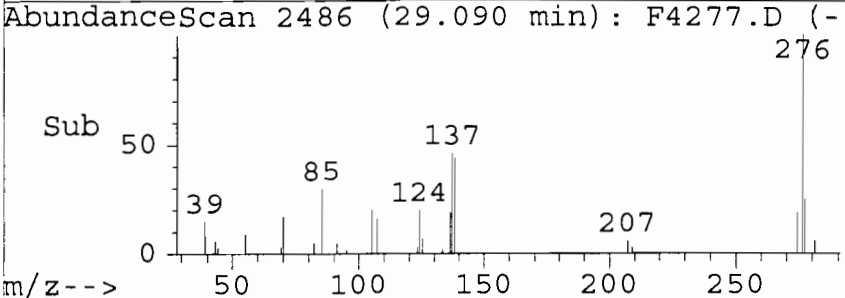
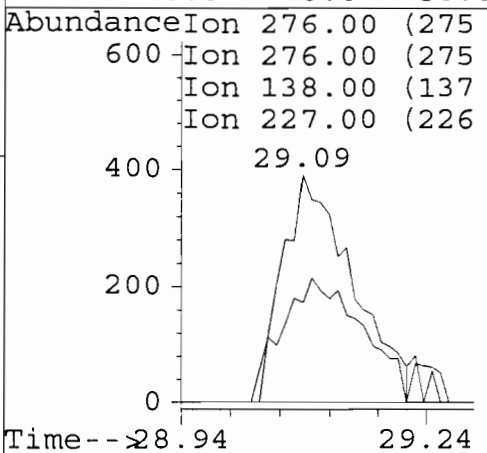
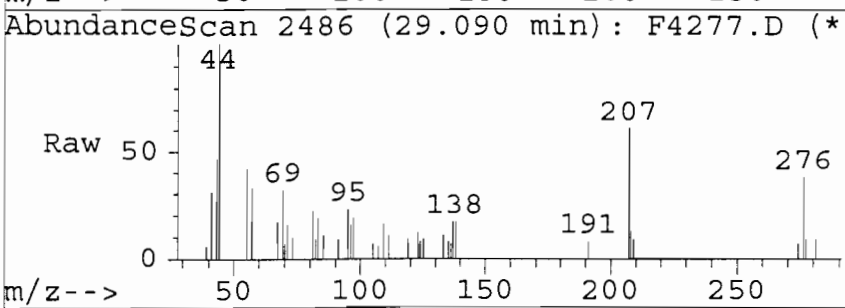
#79
 Benzo-(a)-Pyrene (78G)
 Concen: 2.10 ng/uL
 RT: 25.68 min Scan# 2158
 Delta R.T. -0.15 min
 Lab File: F4277.D
 Acq: 3/29/99 @ 13:56

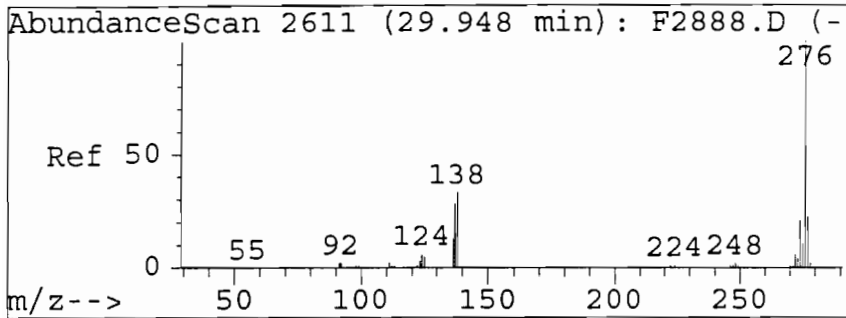
Tgt Ion	Resp	Lower	Upper
252	6286		
252	100		
252	100.0	50.0	150.0
253	23.9	0.0	70.9
125	0.0	0.0	64.5



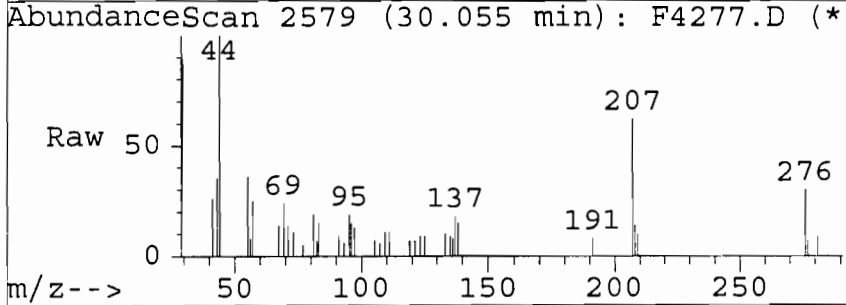
#80
 Indeno-(1,2,3-cd)-Pyrene (79G)
 Concen: 1.17 ng/uL
 RT: 29.09 min Scan# 2486
 Delta R.T. -0.20 min
 Lab File: F4277.D
 Acq: 3/29/99 @ 13:56

Tgt Ion	Resp	Lower	Upper
276	2272		
276	100		
276	100.0	50.0	150.0
138	36.9	0.0	74.7
227	0.0	0.0	50.0

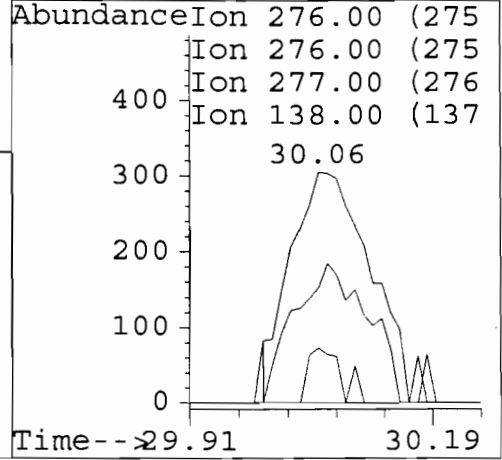
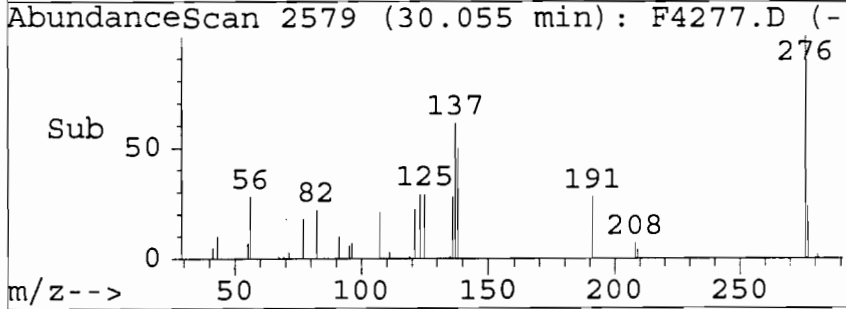




#82
 Benzo-(g,h,i)- Perylene(81G)
 Concen: 1.29 ng/uL
 RT: 30.06 min Scan# 2579
 Delta R.T. -0.22 min
 Lab File: F4277.D
 Acq: 3/29/99 @ 13:56



Tgt Ion	Resp	Lower	Upper
276	100		
276	100.0	50.0	150.0
277	8.5	0.0	73.7
138	50.1	0.0	77.0



ANALab, Inc. - Randolph Facility
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
APRIL 12, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

DIESEL RANGE ORGANIC PETROLEUM HYDROCARBONS BY GC

Client: GCI
Sample Source: 960285
Sample Date: 03/11/99
Sample ID: DW-4
Sampled by: Customer

At Lab Date: 03/15/99

Lab Number: 306393
Sample wt/vol: 25
Sample Matrix: Soil
Percent Moisture: 27%
Analysis Date: 04/12/99

Final volume: 1
Column used: RTX-5
Dilution Factor 1

Extraction Date: 04/08/99

Parameter	Result mg/kg	Method Blank mg/kg	Minimum Detection Limit mg/kg	Practical Quantitation Limit mg/kg
DRO Petroleum Hydrocarbons	40	U	5.5	5.5

U = Not detected
Results reported as mg/kg (ppm) are reported on a dry weight basis.

ANALab, Inc. - Randolph Facility
Thomas Mancuso, Lab Mgr.
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LOU

Data File : E:\1\DATA\DA1562.D
 Acq On : 12 Apr 99 12:32
 Sample : 306393
 Misc : QDR8195
 IntFile : EVENTS1.E
 Quant Time: Apr 12 13:53 1999

Vial: 25
 Operator:
 Inst : GC 5890_4
 Multiplr: 1.00

Quant Results File: DROSOIL.RES

Quant Method : E:\1\METHODS\DROSOIL.M (Chemstation Integrator)
 Title : GC TPH DRO METHOD - Total Area Quantitation
 Last Update : Mon Apr 12 09:21:56 1999
 Response via : Initial Calibration
 DataAcq Meth : DROSOIL.M

Volume Inj. : 1 µl injection
 Signal Phase : Restek RTx-5
 Signal Info : 30 M x 0.53mm x 0.25µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Ortho-Terphenyl	18.04	1541993	21.939 µg/ml
Spiked Amount 20.000		Recovery =	109.70%
Target Compounds			
2) HM DIESEL RANGE	17.00	51408249	739.735 µg/ml

Quantitation Report

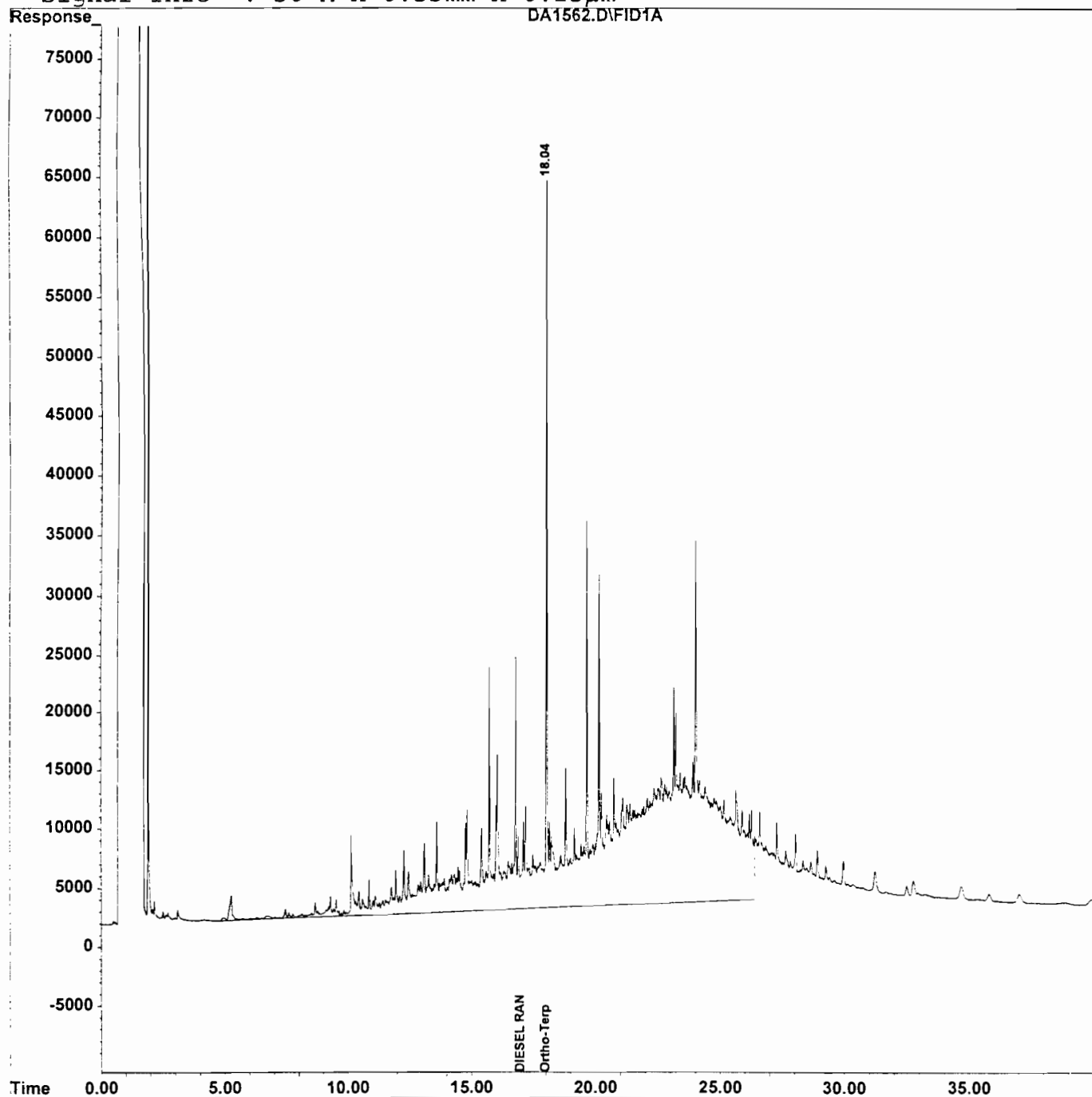
Data File : E:\1\DATA\DA1562.D
Acq On : 12 Apr 99 12:32
Sample : 306393
Misc : QDR8195
IntFile : EVENTS1.E

Vial: 25
Operator:
Inst : GC 5890_4
Multiplr: 1.00

Quant Time: Apr 12 13:53 1999 Quant Results File: DROSOIL.RES

Quant Method : E:\1\METHODS\DROSOIL.M (Chemstation Integrator)
Title : GC TPH DRO METHOD - Total Area Quantitation
Last Update : Mon Apr 12 09:21:56 1999
Response via : Multiple Level Calibration
DataAcq Meth : DROSOIL.M

Volume Inj. : 1 µl injection
Signal Phase : Restek RTX-5
Signal Info : 30 M x 0.53mm x 0.25µm



ANALab, Inc. - Randolph Facility
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
MARCH 25, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 306393
Client: GCI
Sample source: 960285
Sample ID: DW-4
Sample date: 03/11/99
Sampled by: Customer
At lab date: 03/15/99
Matrix: SOIL
Percent Moisture: 27 %

ICP/FURNACE Initial weight: 1.00 g
Mercury Initial weight: 0.50 g
Results in mg/Kg dry weight basis.

ICP/FURNACE Final volume: 100 ml
Mercury Final volume: 100 ml

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Dilution Factor	Analysis Date
Arsenic	2.60	U	0.548	1	03/23/99
Barium	18.2	U	0.685	1	03/23/99
Cadmium	U	U	0.685	1	03/23/99
Chromium	3.29	U	0.685	1	03/23/99
Lead	11.4	U	0.548	1	03/23/99
Mercury	U	U	0.055	1	03/22/99
Selenium	U	U	0.548	1	03/23/99
Silver	U	U	0.685	1	03/23/99

U = Not Detected

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Thomas Mancuso, Lab Mgr.
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LYN

ANALab, Inc. - Randolph Facility
 1152 Route 10
 Randolph, NJ 07869
 973-584-0330, FAX: 973-584-0515
 MARCH 29, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

TARGET COMPOUND LIST - VOLATILE ANALYSIS BY GC/MS

Lab Number: 306394 Data File: >A3692
 Client: GCI
 Sample source: 960285
 Sample ID: DW-5
 Sample date: 03/11/99
 Sampled by: Customer Analysis Date: 03/17/99 Column: DB-624
 At lab date: 03/15/99 Dilution Factor: 1
 Matrix: Soil Init Sample Wght= 5g Final volume= 5ml

Percent Moisture: 24.35%
 Initial sample weight DWB= 3.7825g

Conc. in Sample = (Conc. on Quant Report/Initial Sample Weight DWB)*Final Volume

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
Chloromethane	U	U	6.6	6.1
Bromomethane	U	U	6.6	5
Vinyl chloride	U	U	6.6	2.2
Chloroethane	U	U	6.6	2.4
Methylene chloride	U	U	6.6	3.6
Acetone	U	U	26	5.9
Carbon disulfide	U	U	6.6	2.2
1,1-Dichloroethene	U	U	6.6	2.2
1,1-Dichloroethane	U	U	6.6	1.9
trans-1,2-Dichloroethene	U	U	6.6	2.2
cis-1,2-Dichloroethene	U	U	6.6	2.2
Chloroform	U	U	6.6	2.1
1,2-Dichloroethane	U	U	6.6	2.5
2-Butanone	U	U	26	3.2
1,1,1-Trichloroethane	U	U	6.6	0.66
Carbon tetrachloride	U	U	6.6	0.79
Bromodichloromethane	U	U	6.6	0.79
1,2-Dichloropropane	U	U	6.6	0.79
cis-1,3-Dichloropropene	U	U	6.6	0.66
Trichloroethene	U	U	6.6	0.79
Dibromochloromethane	U	U	6.6	0.79
1,1,2-Trichloroethane	U	U	6.6	0.66
Benzene	U	U	6.6	0.66
trans-1,3-Dichloropropene	U	U	6.6	0.79
Bromoform	U	U	6.6	1.1
4-Methyl-2-pentanone	U	U	26	1.5
2-Hexanone	U	U	26	1.6
Tetrachloroethene	U	U	6.6	0.93
1,1,2,2-Tetrachloroethane	U	U	6.6	0.66
Toluene	U	U	6.6	1.1
Chlorobenzene	U	U	6.6	0.79
Ethylbenzene	U	U	6.6	0.93
Styrene	U	U	6.6	1.3
p&m-Xylene	U	U	6.6	1.2
o-Xylene	U	U	6.6	1.2
total Xylenes	U	U	6.6	1.2

ug/kg = micrograms/kilogram or ppb

Results are in ug/kg (ppb); they are reported on a dry weight basis.

ND: Not Determined.

IND: Indeterminable.

U: Indicates a compound was analyzed for but not detected at the PQL.

J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.

B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

QUANT REPORT

Page 1

Operator ID: AT1446 Quant Rev: 2 Quant Time: 990317 22:21
 Output File: A3692::X1 Injected at: 990317 21:50
 Data File: A3692::C1 Dilution Factor: 1.00000
 Name: INST 59701 SAMPLE Instrument ID: INST "A"
 Misc: 306794 ,S,S,S ,0.53mm x75m db-624

ID File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990312 14:07 Last Qual Time: <none>

Compound	P.T.	Q ion	Area	Conc	Units	q
1) *Pentafluorobenzene	7.30	168.0	167668	50.00	ug/L	88
26) Dibromofluoromethane	7.40	113.0	118790	57.61	ug/L	100
28) 1,2-Dichloroethane-d4	8.44	65.0	56033	51.16	ug/L	92
32) *1,4-Difluorobenzene	9.26	114.0	150538	50.00	ug/L	
52) *Chlorobenzene-d5	14.82	117.0	147659	50.00	ug/L	93
54) Toluene-d8	12.08	98.0	148917	50.17	ug/L	93
67) Bromofluorobenzene	17.05	95.0	132150	44.09	ug/L	90
84) *1,4-Dichlorobenzene-d4	19.20	152.0	102723	50.00	ug/L	92

* Compound is ISTD

AT
3/18/99

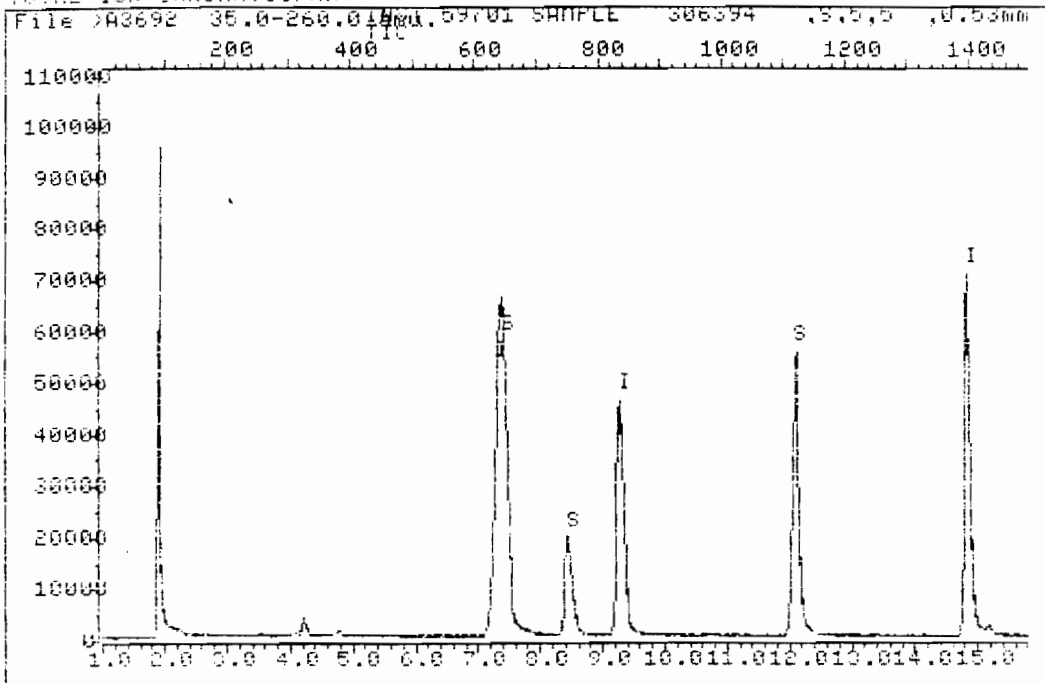
042590 1:07 59701 SAMPLE 306394 ,5,5,5 ,0.53mm x75m do-62+
 35.01 250.0 TIC

Upslope: .1000 Area Reject: 5.00 % Max Peaks: 8 Bunch: 1 Valley: 100 %
 Downlope: -.0100 Results File VDIR78 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	1.89	85	91	107	95089	290330	270025	34.15	7.701
2	7.36	619	644	672	65356	863753	614122	100.00	22.950
3	8.43	705	751	777	19078	190524	159013	19.50	4.405
4	9.26	819	835	857	45304	394068	395203	44.86	10.116
5	12.08	1125	1120	1143	54933	419728	396831	48.74	10.992
6	14.62	1311	1397	1437	70163	407594	451788	55.49	11.519
7	17.05	1639	1622	1645	92182	576193	553222	67.95	15.324
8	19.20	1824	1839	1869	100612	623192	592079	72.75	15.400

Sum of corrected areas: 3010278.

TOTAL ION CHROMATOGRAM

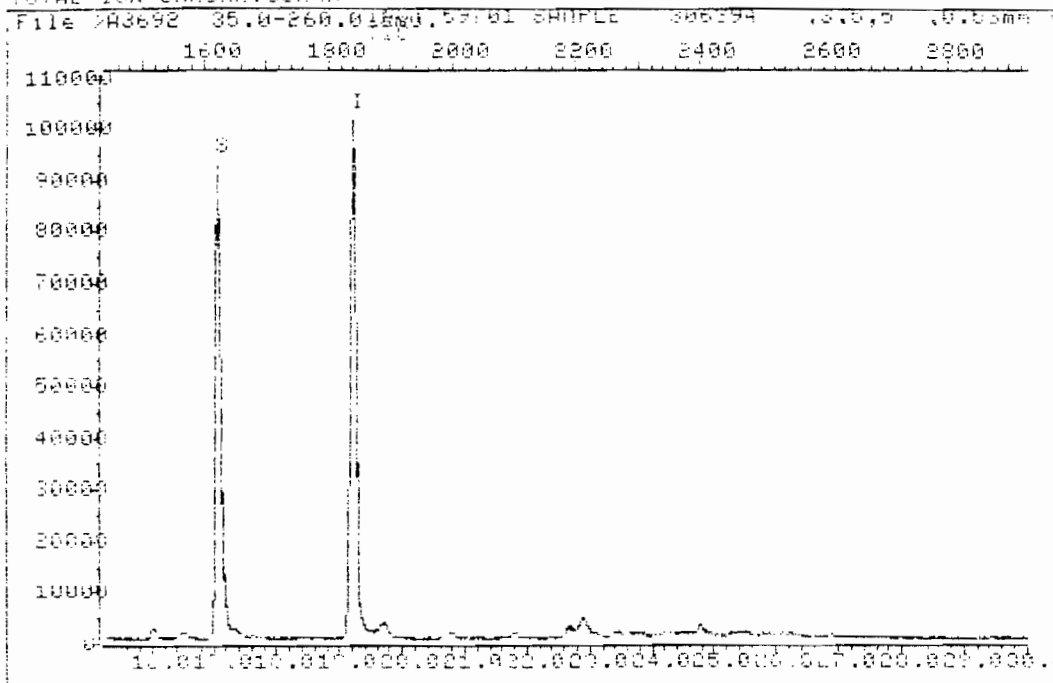


Data File: >A3692::01 Quant Output File: >A3692::03
 Name: INST 59701 SAMPLE Instrument ID: INST "A"
 Misc: 306394 .S,S,S .0.53mm x75m db-624

Id File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990312 14:07 Last Qual Time: <none>

Operator ID: AT1446
 Quant Time : 990317 22:21
 Injected at: 990317 21:50

TOTAL ION CHROMATOGRAM



Data File: NA3692::D1 Quant Output File: NA3692::Q1
 Name: INST 59701 SAMPLE Instrument ID: INST 26
 Misc: 306394 ,S,S,S ,0.53mm x75m db-624

Id File: ID6645::PS
 Title: Method 8260B.IDFILE
 Last Calibration: 990312 14:07 Last Qual Time: none

Operator ID: AT1446
 Quant Time : 990312 22:21
 Injected at: 990312 21:50

ANALab, Inc. - Randolph Facility
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 MARCH 31, 1999

Certified for: NJ, PA, DE, CT, NY (DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

TARGET COMPOUND LIST - BASE/NEUTRAL FRACTION ANALYSIS BY GC/MS

Lab Number: 306394 Data File: >F4292
 Client: GCI
 Sample source: 960285
 Sample ID: DW-5
 Sample date: 03/11/99 Extracted Date: 03/19/99
 Sampled by: Customer Analysis Date: 03/30/99 Column: 30m SPB-5
 At lab date: 03/15/99 Dilution Factor: 5
 Percent Moisture: 24.35%
 Matrix: Soil Init Sample Wght= 30.12g Final volume= 5ml
 Initial sample weight DWB= 22.78578g

Conc. in Sample = (Conc. on Quant Report/Initial Sample Weight DWB)*Final Volume*1000

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
bis(2-Chloroethyl) ether	U	U	1100	220
1,3-Dichlorobenzene	U	U	1100	530
1,4-Dichlorobenzene	U	U	1100	500
1,2-Dichlorobenzene	U	U	1100	530
bis(2-Chloroisopropyl) ether	U	U	1100	260
N-Nitroso-di-n-propylamine	U	U	1100	220
Hexachloroethane	U	U	1100	640
Nitrobenzene	U	U	1100	220
Isophorone	U	U	1100	220
bis(2-Chloroethoxy)methane	U	U	1100	220
1,2,4-Trichlorobenzene	U	U	1100	500
Naphthalene	130J	U	1100	440
4-Chloroaniline	U	U	1100	220
Hexachlorobutadiene	U	U	1100	220
2-Methylnaphthalene	130J	U	1100	460
Hexachlorocyclopentadiene	U	U	1100	330
2-Chloronaphthalene	U	U	1100	440
2-Nitroaniline	U	U	1100	220
Dimethyl phthalate	U	U	1100	1000
Acenaphthylene	U	U	1100	330
2,6-Dinitrotoluene	U	U	1100	220
3-Nitroaniline	U	U	1100	220
Acenaphthene	730J	U	1100	420
Dibenzofuran	550J	U	1100	330
2,4-Dinitrotoluene	U	U	1100	220
Diethyl phthalate	U	U	1100	500
4-Chlorophenyl phenyl ether	U	U	1100	440
Fluorene	1300	U	1100	370
4-Nitroaniline	U	U	1100	220
N-Nitrosodiphenylamine	U	U	1100	220
4-Bromophenyl phenyl ether	U	U	1100	420
Hexachlorobenzene	U	U	1100	420
Phenanthrene	7000	U	1100	200
Anthracene	1300	U	1100	180

(continued on next page)

(continued from previous page)

Lab Number: 306394
Client: GCI

Data File: >F4292

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
Di-n-butylphthalate	U	U	1100	550
Fluoranthene	6200	U	1100	130
Pyrene	6700	U	1100	110
Butyl benzylphthalate	U	U	1100	260
3,3'-Dichlorobenzidine	U	U	1100	220
Benzo(a)anthracene	1800	U	1100	110
Chrysene	2500	U	1100	110
bis(2-Ethylhexyl)phthalate	2200	U	1100	660
Di-n-octylphthalate	U	U	1100	220
Benzo(b)fluoranthene	1700	U	1100	150
Benzo(k)fluoranthene	1300	U	1100	150
Benzo(a)pyrene	1300	U	1100	110
Indeno(1,2,3-cd)pyrene	870J	U	1100	240
Dibenz(a,h)anthracene	U	U	1100	110
Benzo(g,h,i)perylene	950J	U	1100	110
Carbazole	600J	U	1100	220

ug/kg = micrograms/kilogram or ppb

Results are in ug/kg (ppb); they are reported on a dry weight basis.

ND: Not Determined.
IND: Indeterminable.

U: Indicates a compound was analyzed for but not detected at the PQL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

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LOU

Quantitation Report

Data File : F:\RTE\BNA\F42_D\F4292.D

Acq Time : 30 MAR 99 4:15 PM

Operator: AM9951

Sample :

Inst :

Misc : 306394 5X, QC8167 M SPB-5 CAP COLUMN

Multiplr: 1.00

Quant Time: Mar 31 10:24 1999

Method : C:\METHODS\CF4189.M

Title : BNA STANDARDS FOR 5 POINT CALIBRATION

Last Update : Tue Mar 23 13:25:06 1999

Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-Dichlorobenzene	7.54	152	120311	40.00	ng/uL	-0.06
21) d8-Naphthalene	10.08	136	450823	40.00	ng/uL	-0.07
33) d10-Acenaphthene	13.83	164	189211	40.00	ng/uL	-0.07
57) d10-Phenanthrene	16.97	188	399072	40.00	ng/uL	-0.07
66) d12-Chrysene	22.68	240	192515	40.00	ng/uL	-0.08
75) d12-Perylene	25.90	264	128644	40.00	ng/uL	-0.09

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
4) 2-Fluorophenol	5.43	112	96264	32.53	ng/uL	16.27%
6) Phenol-d6	7.09	99	149199	40.71	ng/uL	20.35%
19) Nitobenzene-d5	8.70	82	45214	11.24	ng/uL	11.24%
37) 2-Fluorobiphenyl	12.41	172	79342	11.35	ng/uL	11.35%
56) 2,4,6-Tribromophenol	15.53	330	21022	14.43	ng/uL	7.21%
69) Terphenyl-d14	20.43	244	34716	7.24	ng/uL	7.24%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Phenol (5G)	7.11	94	2627	0.70	ng/uL#	72
17) n-Nitosodipropyl Amine (16G)	8.70	70	6815	2.69	ng/uL#	48
28) Naphthalene (28)	10.13	128	6426	0.58	ng/uL#	96
32) 2-Methylnaphthalene (32)	11.57	142	3917	0.58	ng/uL#	51
42) 2,6-Dinitrotoluene (42G)	13.83	165	24919	9.53	ng/uL#	72
43) Acenaphthene (44G)	13.88	153	23984	3.32	ng/uL#	82
46) Dibenzofuran (47G)	14.22	168	25004	2.49	ng/uL	97
49) Fluorene (51G)	14.96	166	40948	5.72	ng/uL#	54
61) Phenanthrene (61G)	17.02	178	312217	31.84	ng/uL#	93
62) Anthracene (62G)	17.10	178	59871	5.96	ng/uLm ^m	94
63) Carbazole (21S)	17.50	167	24678	2.72	ng/uL#	89
65) Fluoranthene (64G)	19.57	202	312567	28.06	ng/uL#	94
68) Pyrene (67G)	20.04	202	227640	30.37	ng/uL#	92
70) Butylbenzyl Phthalate (69G)	21.59	149	2221	0.60	ng/uL#	67
71) Benzo-(a)-Anthracene (71G)	22.64	228	49738	8.08	ng/uLm ^m	90
72) 3,3'-Dichlorobenzidine	22.79	252	697	0.51	ng/uL#	69
73) Chrysene (72G)	22.72	228	70930	11.28	ng/uL#	89
74) Bis (2-Ethylhexyl) Phthala	22.88	149	47872	9.85	ng/uL	98
77) Benzo-(b)-Fluoranthene (76G)	24.97	252	36371	7.53	ng/uL#	96
78) Benzo-(k)-Fluoranthene (77G)	25.00	252	30513	6.02	ng/uLm ^m	97
79) Benzo-(a)-Pyrene (78G)	25.74	252	24340	5.81	ng/uL#	96
80) Indeno-(1,2,3-cd)-Pyrene (7	29.21	276	10704	3.95	ng/uL#	90
81) Dibenzo-(a,h)-Anthracene (8	29.26	278	3849	1.73	ng/uLm ^m	92
82) Benzo-(g,h,i)-Perylene (81	30.18	276	9032	4.34	ng/uL#	83

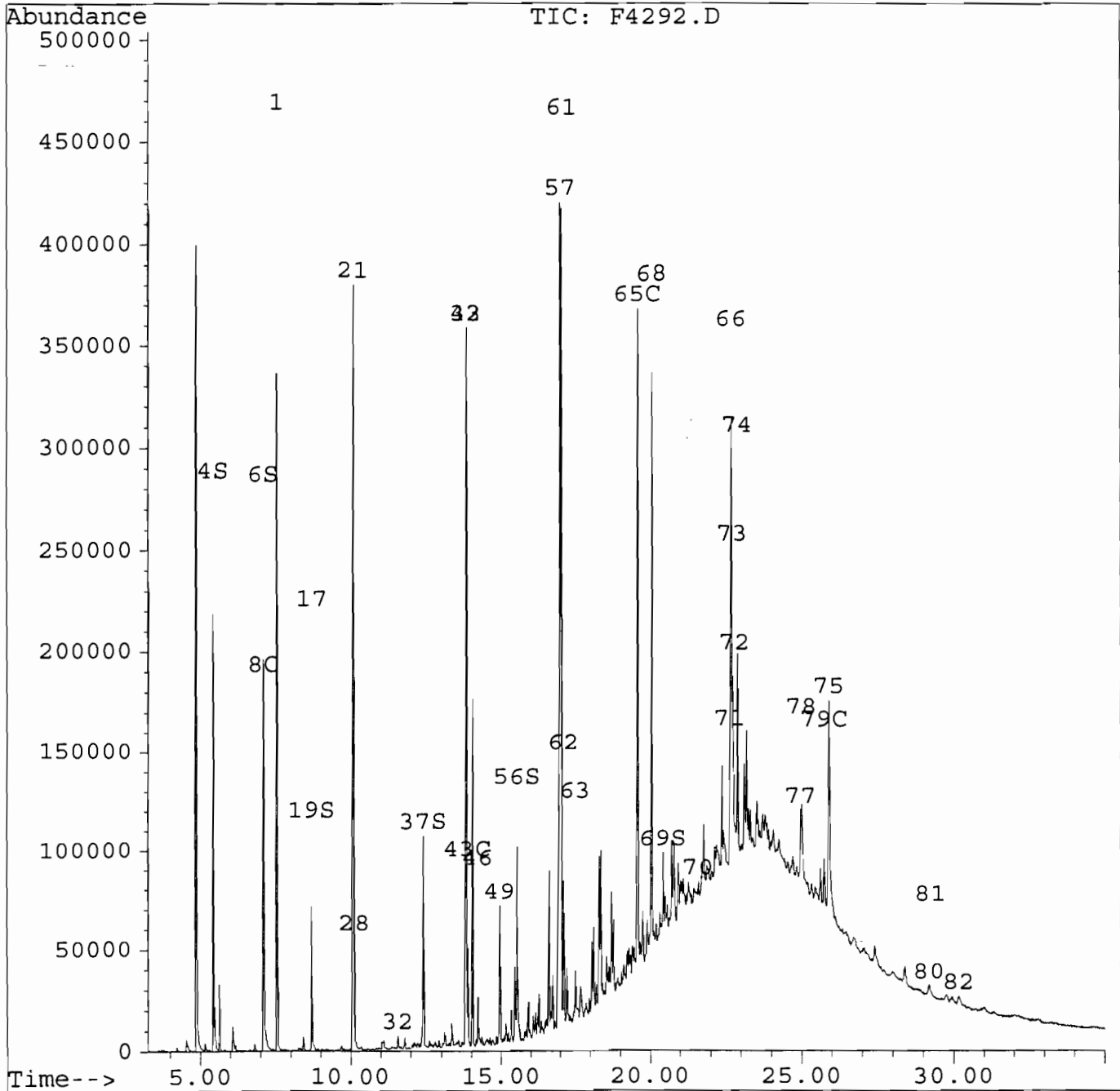
(#) = qualifier out of range (m) = manual integration

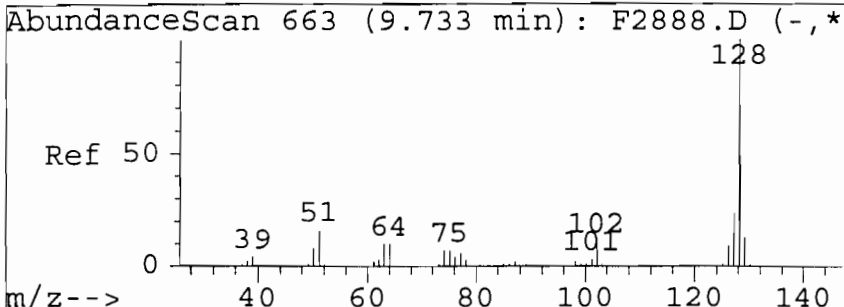
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	4.876	rVV	0.238	1003756	4.824	5.062
2	5.435	rBV	0.187	356177	5.403	5.590
3	7.091	rVV	0.321	489963	7.050	7.371
4	7.537	rBV	0.166	711219	7.495	7.661
5	8.696	rVB	0.187	152724	8.655	8.841
6	10.084	rBV	0.218	996383	10.011	10.229
7	12.414	rBV	0.166	233416	12.321	12.487
8	13.825	rBV	0.125	816876	13.731	13.856
9	13.877	rVB	0.104	95587	13.856	13.960
10	14.033	rBV	0.115	335786	13.960	14.075
11	14.957	rVV	0.156	145485	14.874	15.030
12	15.455	rBV	0.094	79742	15.403	15.497
13	15.539	rVV	0.073	195183	15.497	15.570
14	16.611	rVV	0.094	168144	16.548	16.642
15	16.736	rVB	0.073	50022	16.704	16.777
16	16.965	rVV	0.073	1028449	16.913	16.986
17	17.018	rVV	0.073	776236	16.986	17.059
18	17.101	rVB	0.094	141635	17.059	17.153
19	17.206	rBV	0.094	60093	17.164	17.258
20	18.051	rBV	0.063	59069	18.019	18.082
21	18.114	rVB	0.073	72704	18.082	18.155
22	18.291	rBV	0.073	158768	18.249	18.323
23	18.344	rVB	0.052	104986	18.323	18.375
24	18.699	rVV	0.073	103073	18.658	18.731
25	18.762	rVB	0.105	81528	18.731	18.836
26	19.569	rBV	0.126	760216	19.516	19.642
27	19.747	rVB	0.084	58076	19.716	19.800
28	20.041	rVB	0.095	584310	19.999	20.094
29	20.429	rVB	0.063	59719	20.398	20.461
30	20.713	rBV	0.063	58010	20.681	20.745
31	20.787	rVB	0.105	93078	20.766	20.871
32	20.923	rBV	0.084	71221	20.892	20.976
33	21.764	rVB	0.105	56997	21.732	21.838
34	22.364	rBV	0.063	86367	22.332	22.395
35	22.680	rBV	0.116	701679	22.595	22.711
36	22.880	rVB	0.084	183404	22.848	22.933
37	23.101	rBV	0.074	87072	23.070	23.143
38	23.186	rVB	0.063	94734	23.154	23.217
39	24.965	rBV	0.042	48740	24.934	24.976
40	25.901	rVB	0.232	448577	25.849	26.080

Quantitation Report

Data File : F:\RTE\BNA\F42_D\F4292.D
Acq Time : Data Taken: 3/30/99 @ 16:15 Operator: AM9951
Sample : Inst :
Misc : 306394 5X, QC8167 M SPB-5 CAP COLUMN Multiplr: 1.00
Quant Time: Mar 31 10:24 1999

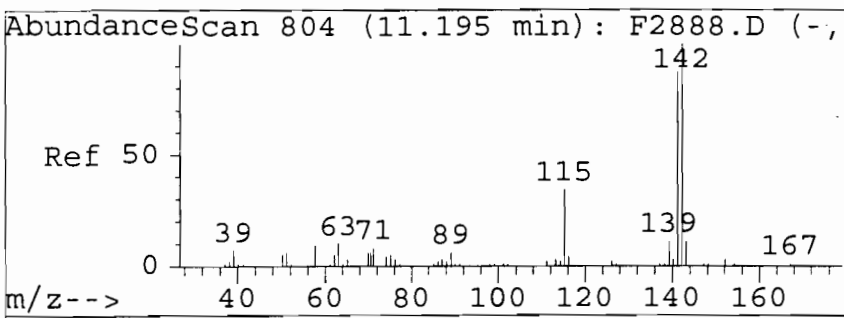
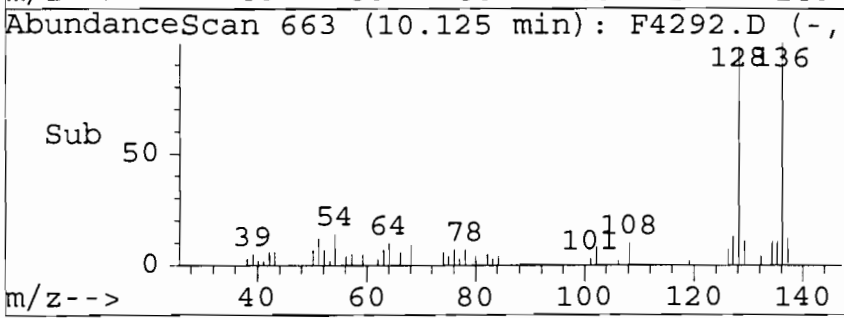
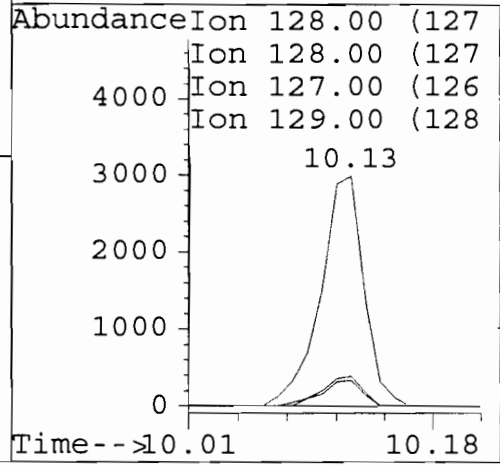
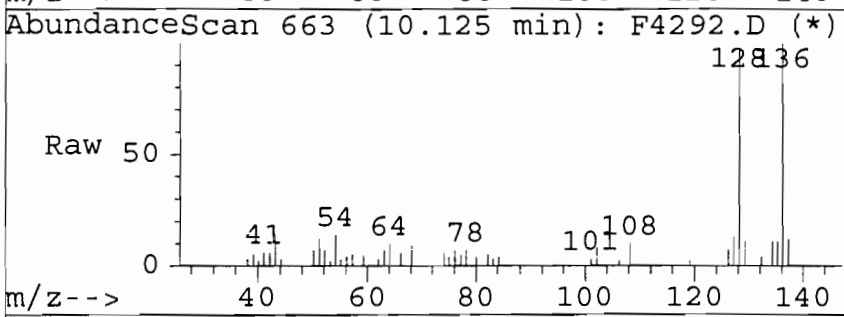
Method : C:\METHODS\CF4189.M
Title : BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Mar 23 13:25:06 1999
Response via : Multiple Level Calibration





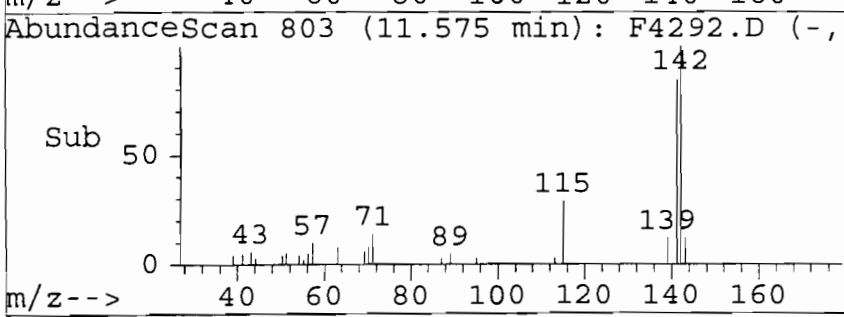
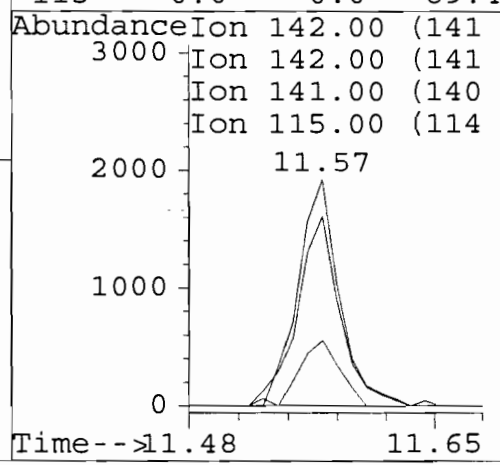
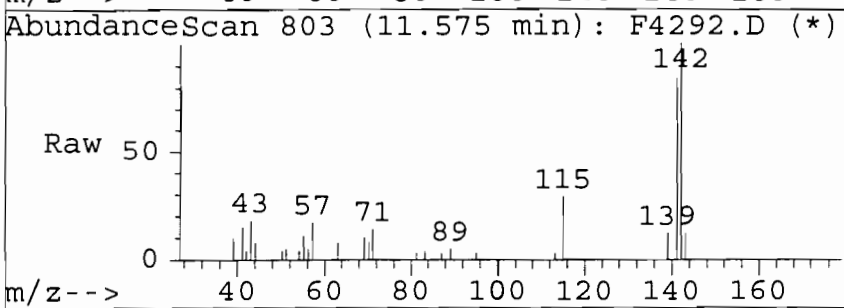
#28
 Naphthalene(28)
 Concen: 0.58 ng/uL
 RT: 10.13 min · Scan# 663
 Delta R.T. -0.07 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15

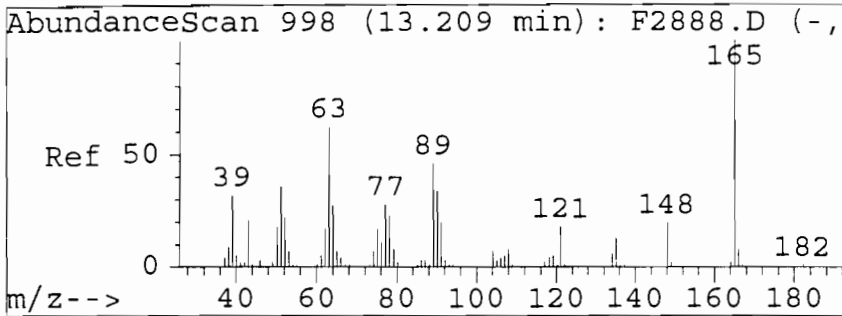
Tgt Ion	Ratio	Lower	Upper	Resp
128	100			6426
128	100.0	50.0	150.0	
127	0.0	0.0	63.8	
129	10.8	0.0	60.2	



#32
 2-Methylnaphthalene(32)
 Concen: 0.58 ng/uL
 RT: 11.57 min · Scan# 803
 Delta R.T. -0.06 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15

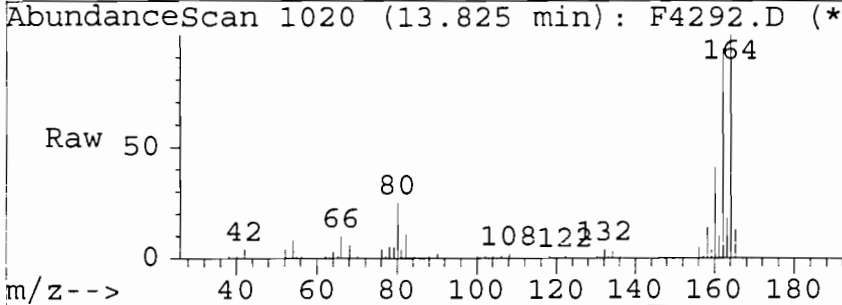
Tgt Ion	Ratio	Lower	Upper	Resp
142	100			3917
142	100.0	50.0	150.0	
141	0.0	41.5	141.5#	
115	0.0	0.0	89.4	



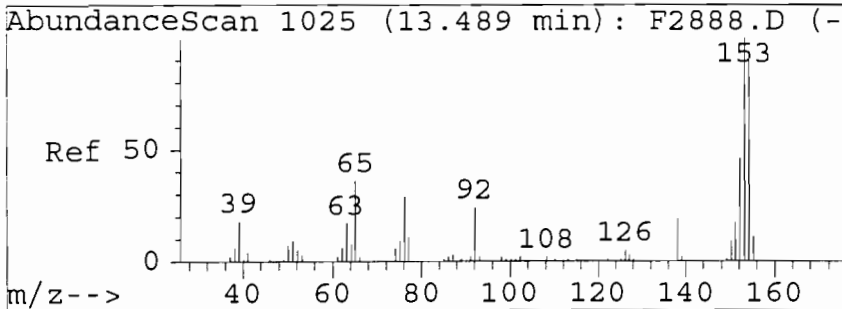
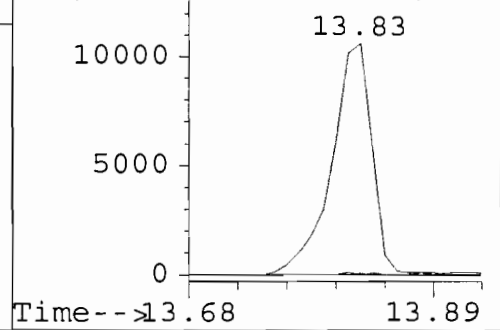
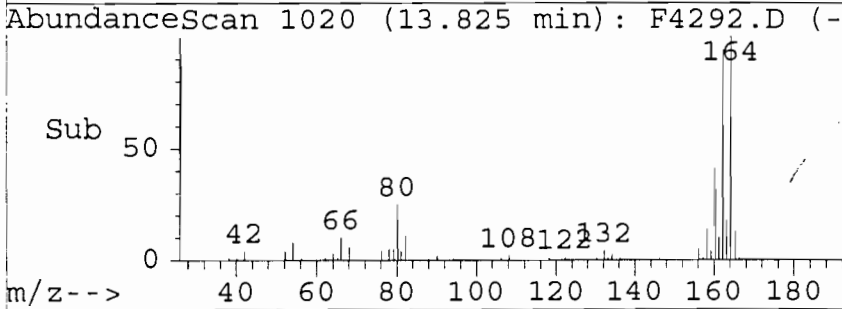


#42
 2,6-Dinitrotoluene (42G)
 Concen: 9.53 ng/uL
 RT: 13.83 min Scan# 1020
 Delta R.T. 0.19 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15

Tgt Ion	Resp	Lower	Upper
165	100.0	80.0	120.0
89	0.2	33.6	73.6#
121	0.0	0.0	38.6

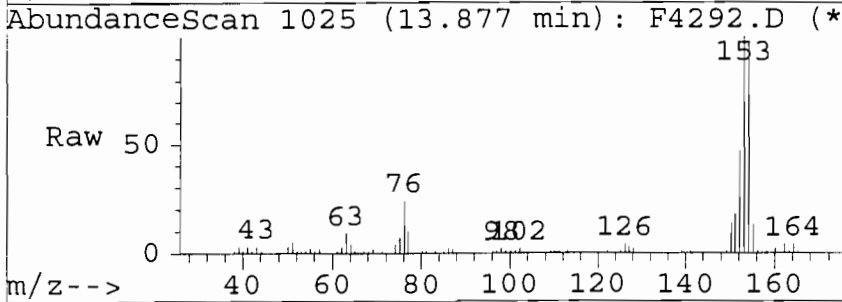


Abundance	Ion	Retention Time
15000	165.00	13.83
10000	89.00	13.83
5000	121.00	13.83

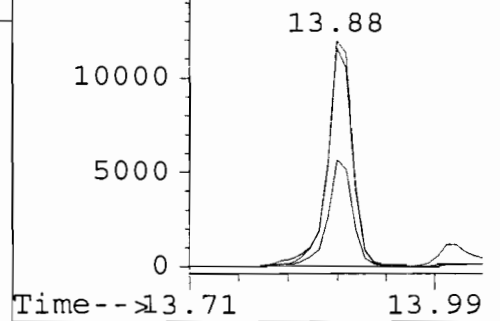
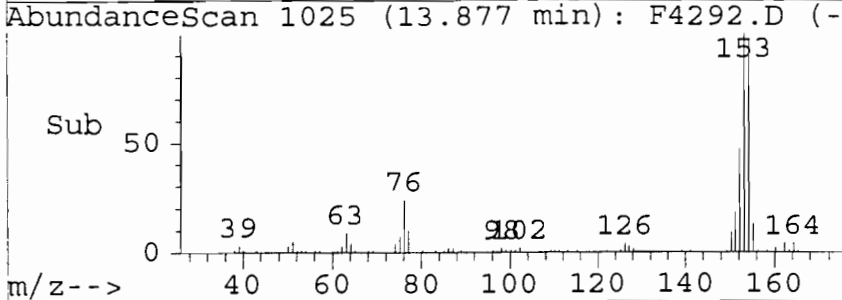


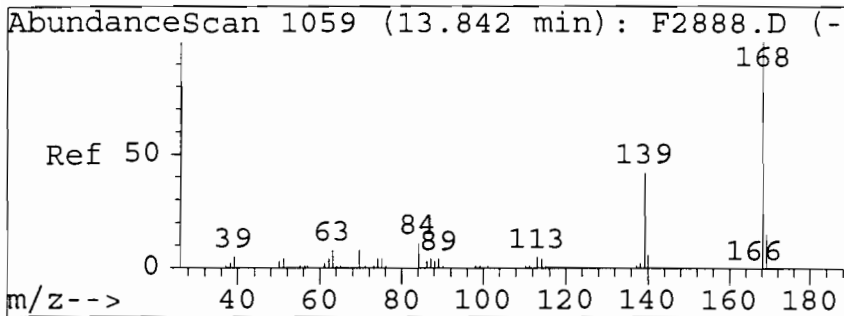
#43
 Acenaphthene (44G)
 Concen: 3.32 ng/uL
 RT: 13.88 min Scan# 1025
 Delta R.T. -0.08 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15

Tgt Ion	Resp	Lower	Upper
153	100	50.0	150.0
153	100.0	50.0	150.0
154	97.2	38.7	138.7
152	0.0	0.0	98.6



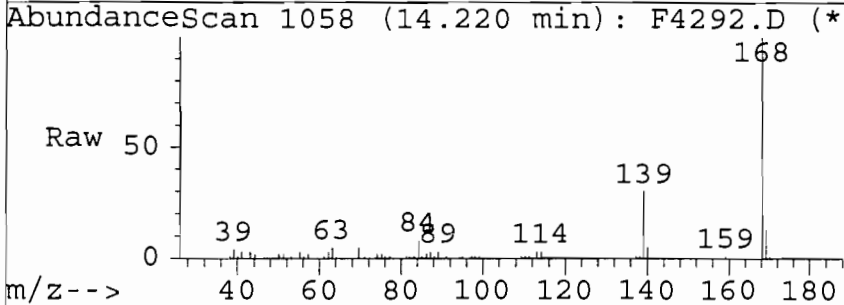
Abundance	Ion	Retention Time
15000	153.00	13.88
10000	154.00	13.88
5000	152.00	13.88



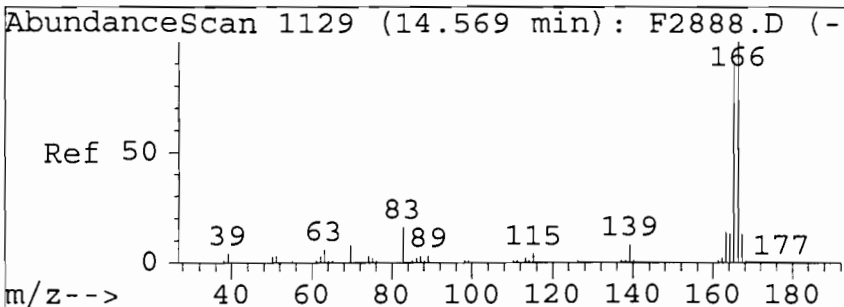
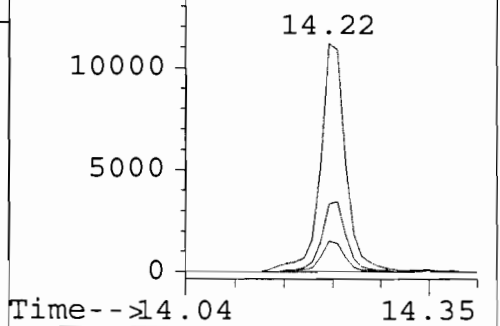
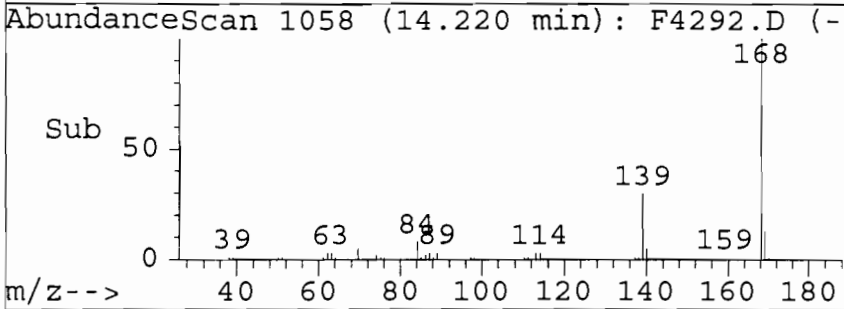


#46
 Dibenzofuran(47G)
 Concen: 2.49 ng/uL
 RT: 14.22 min Scan# 1058
 Delta R.T. -0.08 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15

Tgt Ion	Resp	Lower	Upper
168	25004		
168	100		
168	100.0	50.0	150.0
139	30.3	0.0	87.8
169	12.9	0.0	62.8

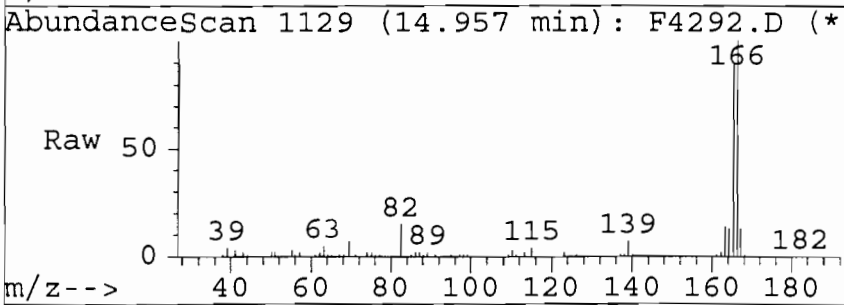


Abundance	Ion	Retention
15000	168.00	14.22
15000	168.00	14.22
15000	139.00	14.22
15000	169.00	14.22

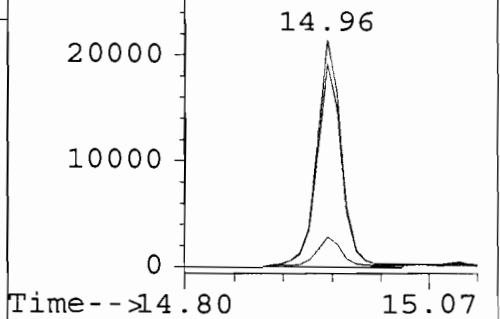
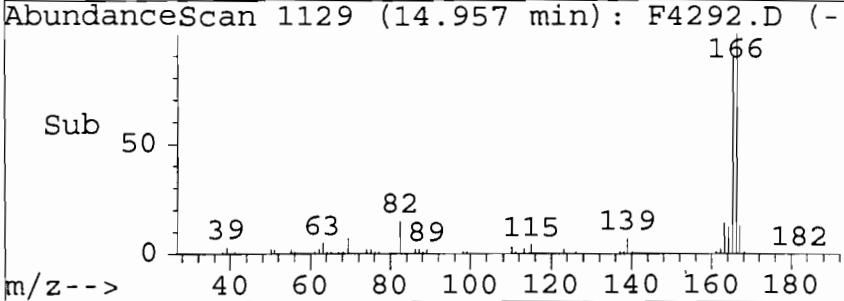


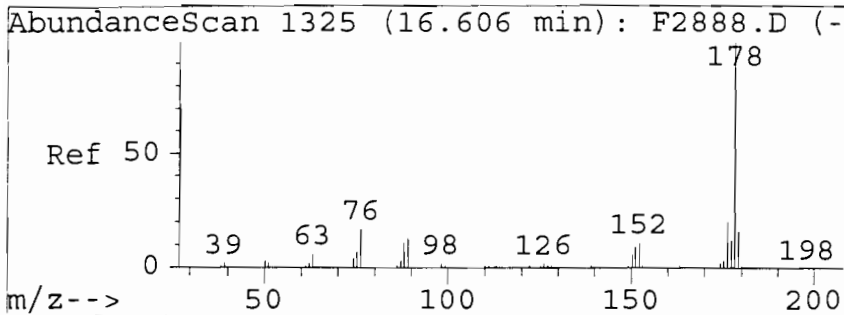
#49
 Fluorene(51G)
 Concen: 5.72 ng/uL
 RT: 14.96 min Scan# 1129
 Delta R.T. -0.08 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15

Tgt Ion	Resp	Lower	Upper
166	40948		
166	100		
166	100.0	50.0	150.0
165	0.0	47.3	147.3#
167	14.3	0.0	62.8

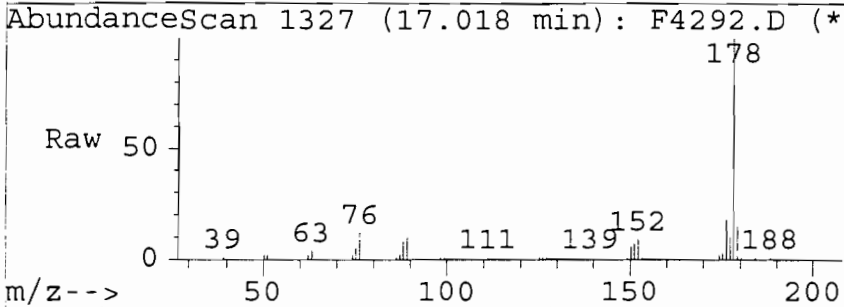


Abundance	Ion	Retention
30000	166.00	14.96
30000	166.00	14.96
30000	165.00	14.96
30000	167.00	14.96

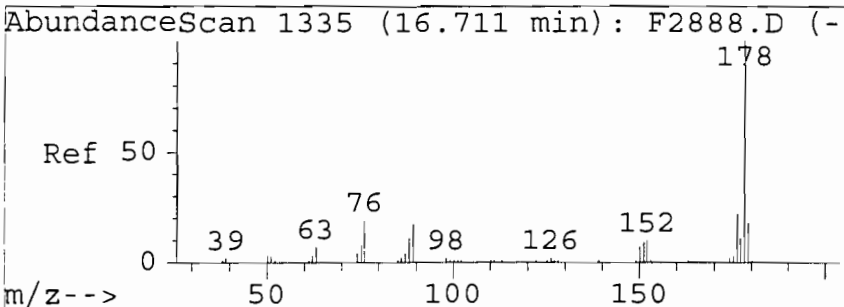
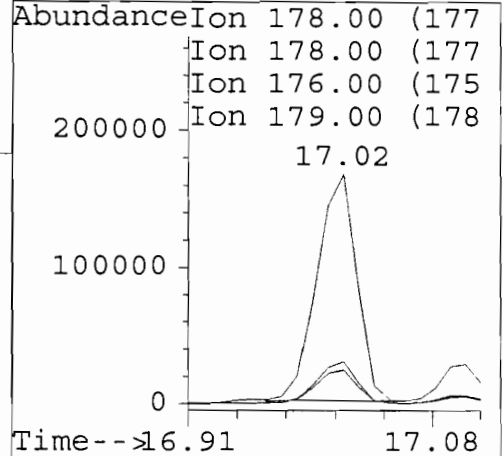
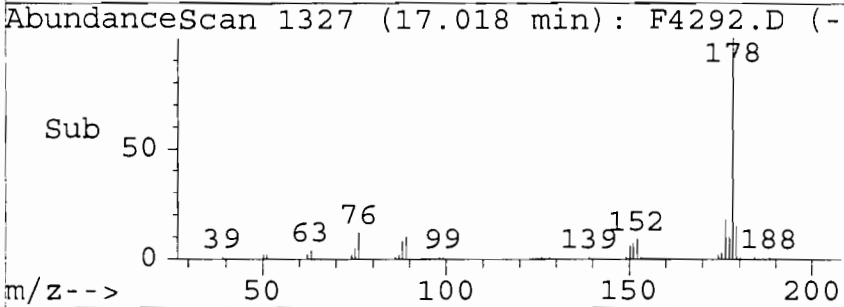




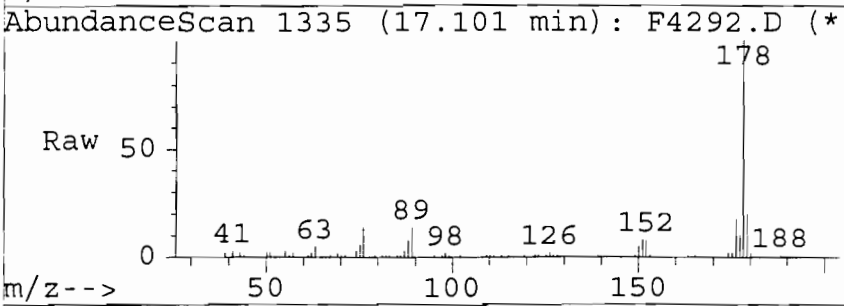
#61
 Phenanthrene(61G)
 Concen: 31.84 ng/uL
 RT: 17.02 min Scan# 1327
 Delta R.T. -0.15 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15



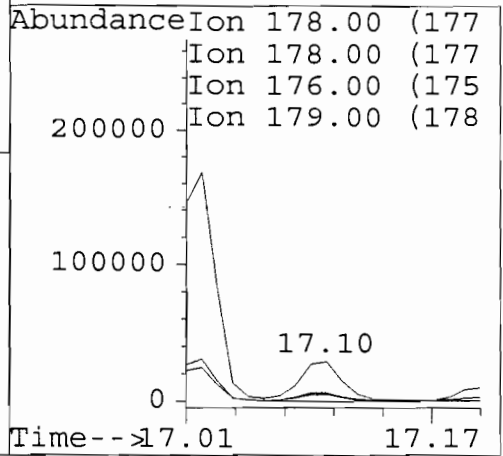
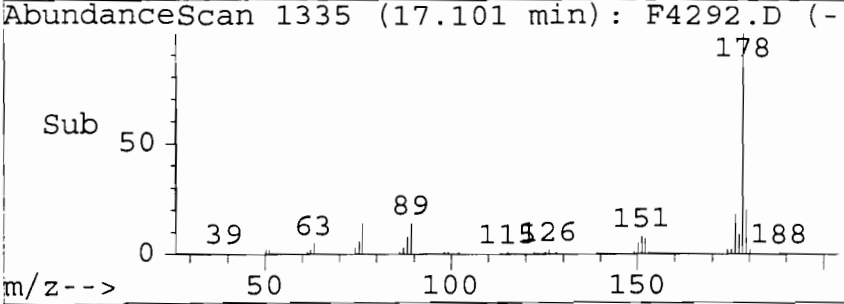
Tgt Ion	Ratio	Lower	Upper
178	100		
178	100.0	50.0	150.0
176	0.0	0.0	69.5
179	16.0	0.0	64.7

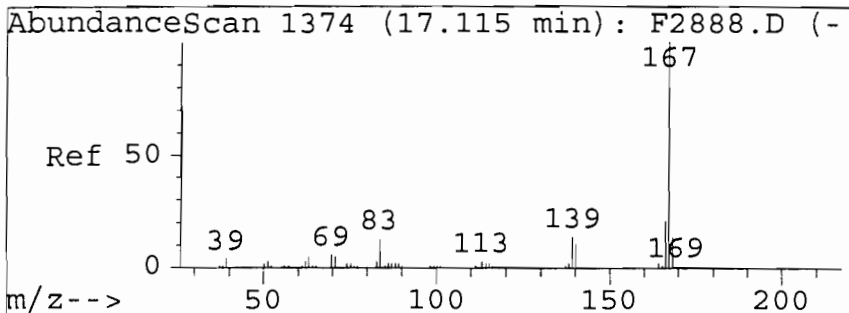


#62
 Anthracene(62G)
 Concen: 5.96 ng/uL m
 RT: 17.10 min Scan# 1335
 Delta R.T. -0.07 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15



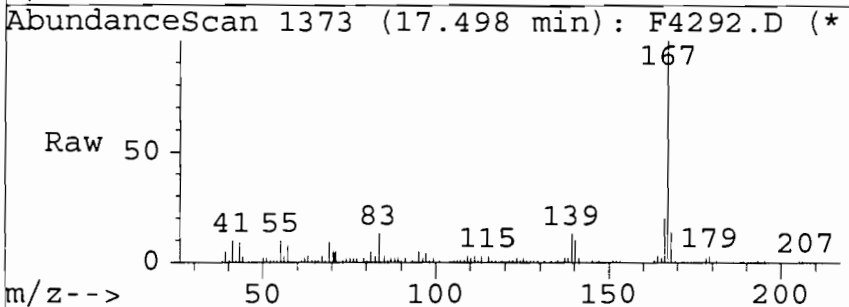
Tgt Ion	Ratio	Lower	Upper
178	100		
178	100.0	50.0	150.0
176	17.9	9.6	28.7
179	20.1	7.3	21.9



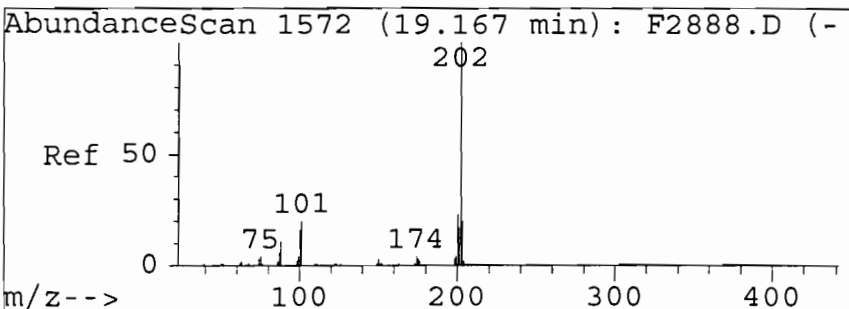
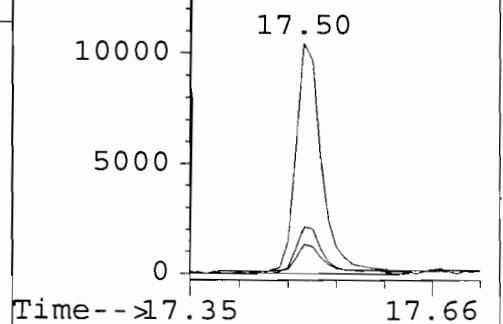
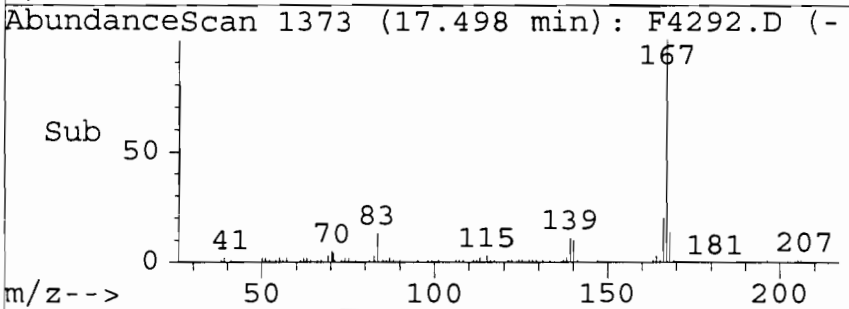


#63
 Carbazole(21S)
 Concen: 2.72 ng/uL
 RT: 17.50 min Scan# 1373
 Delta R.T. -0.08 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15

Tgt Ion	Resp	Lower	Upper
167	24678		
167	100	50.0	150.0
166	0.0	0.0	71.8
139	0.0	0.0	64.4

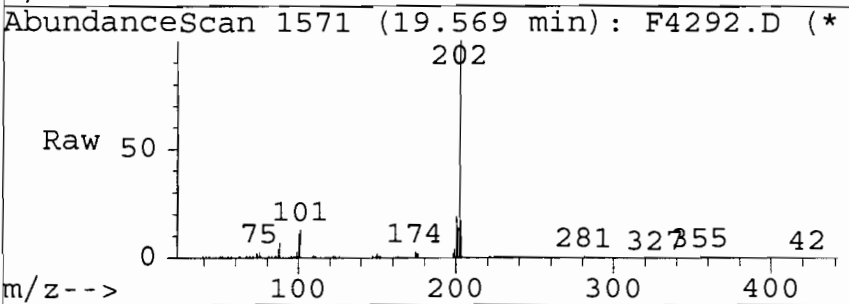


Abundance	Ion	Retention Time (min)
15000	167.00	17.50
10000	166.00	17.50
5000	165.00	17.50
0	139.00	17.50

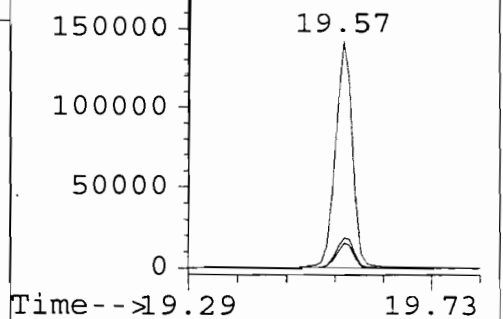
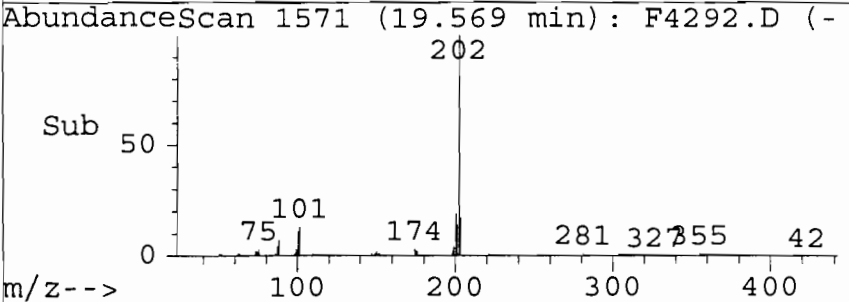


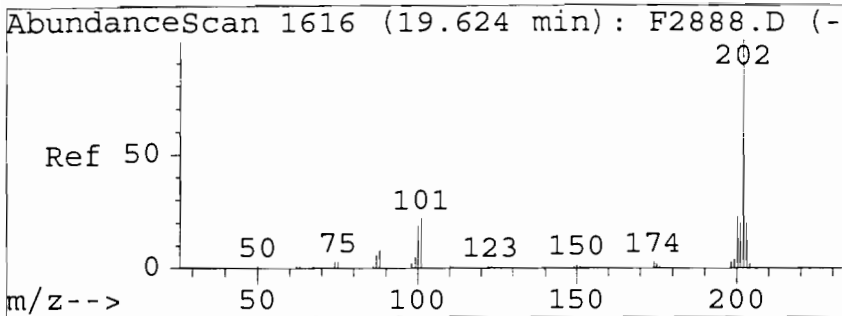
#65
 Fluoranthene(64G)
 Concen: 28.06 ng/uL
 RT: 19.57 min Scan# 1571
 Delta R.T. -0.07 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15

Tgt Ion	Resp	Lower	Upper
202	312567		
202	100	50.0	150.0
101	0.0	0.0	63.1
100	0.0	0.0	60.9



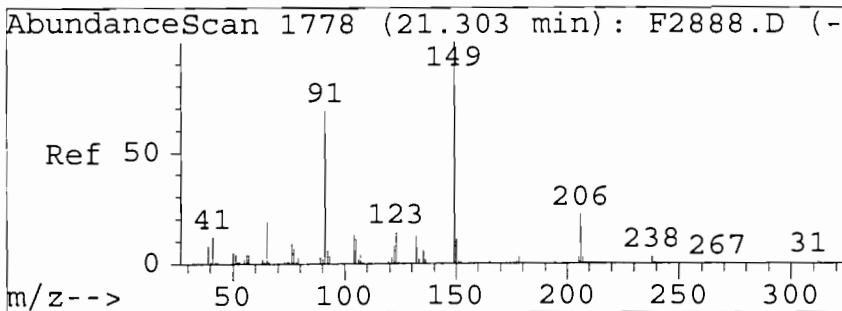
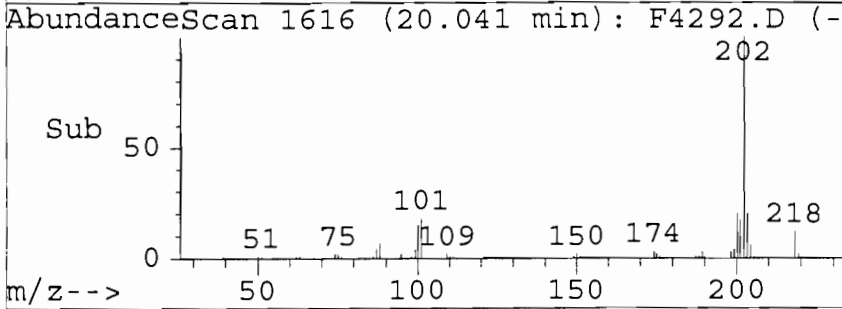
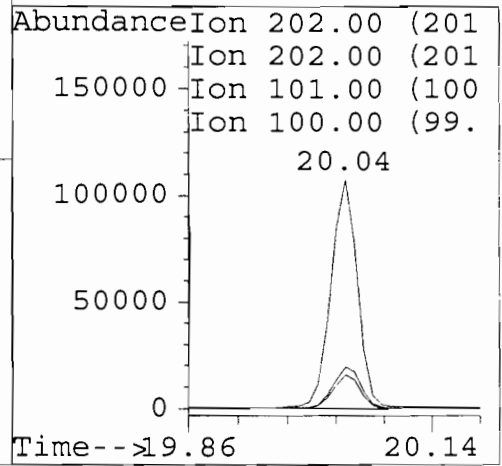
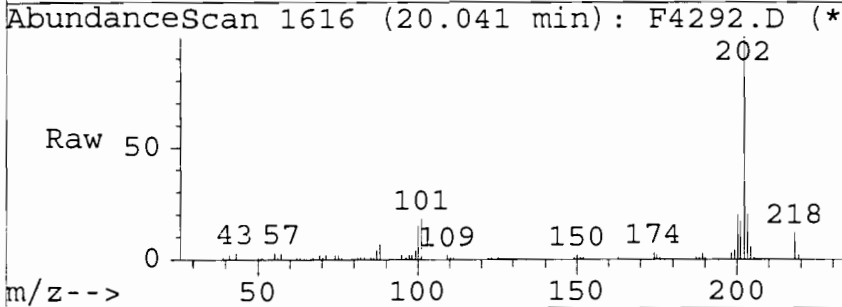
Abundance	Ion	Retention Time (min)
200000	202.00	19.57
150000	101.00	19.57
100000	100.00	19.57





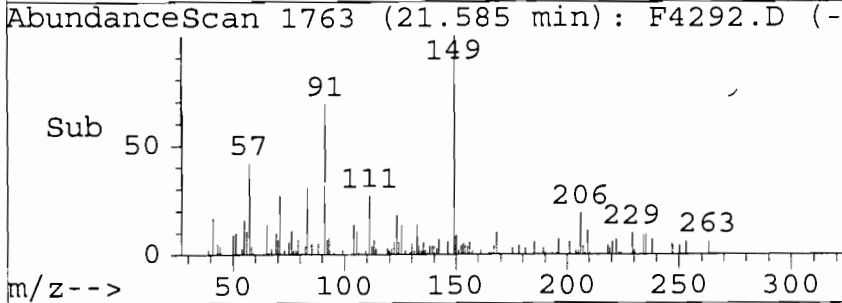
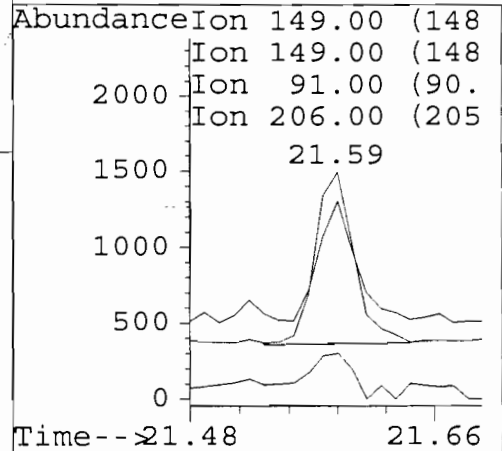
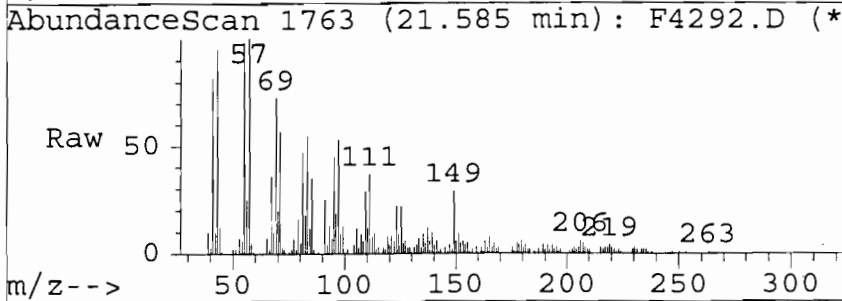
#68
 Pyrene(67G)
 Concen: 30.37 ng/uL
 RT: 20.04 min Scan# 1616
 Delta R.T. -0.07 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15

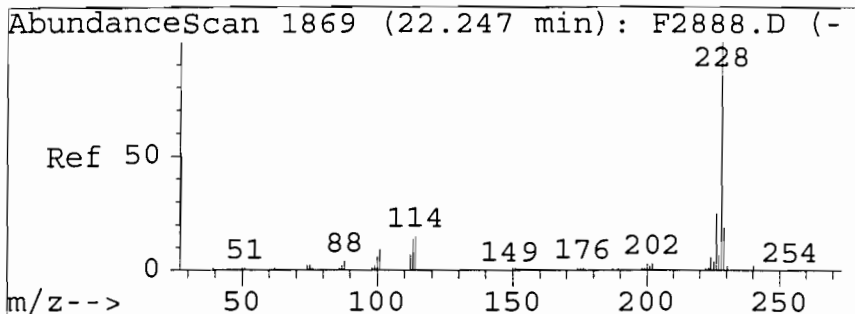
Tgt Ion	Resp	Lower	Upper
202	100		
202	100.0	50.0	150.0
101	0.0	0.0	65.0
100	0.0	0.0	63.5



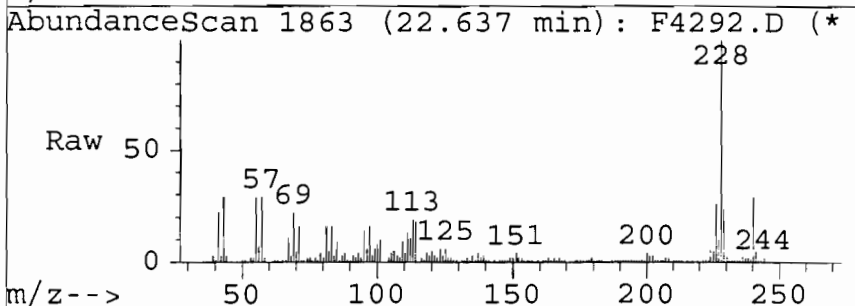
#70
 Butylbenzyl Phthalate(69G)
 Concen: 0.60 ng/uL
 RT: 21.59 min Scan# 1763
 Delta R.T. -0.06 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15

Tgt Ion	Resp	Lower	Upper
149	100		
149	100.0	50.0	150.0
91	0.0	15.5	115.5#
206	33.1	0.0	67.1

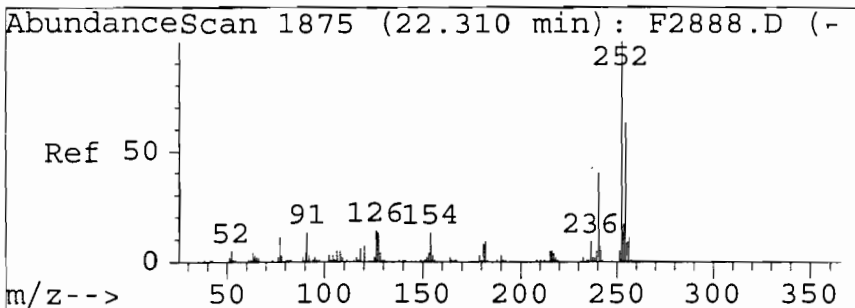
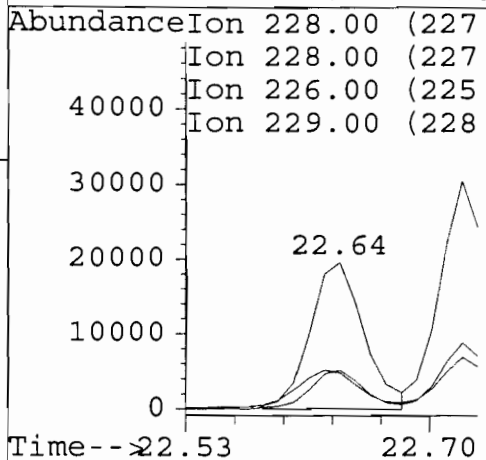
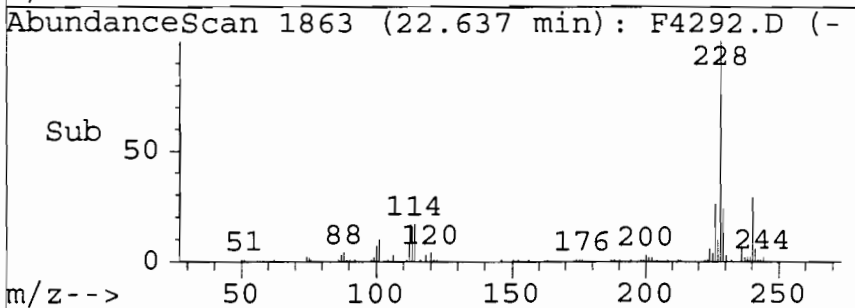




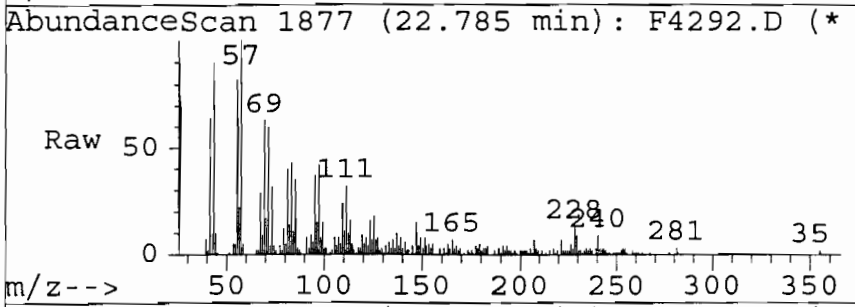
#71
 Benzo-(a)-Anthracene(71G)
 Concen: 8.08 ng/uL m
 RT: 22.64 min Scan# 1863
 Delta R.T. -0.17 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15



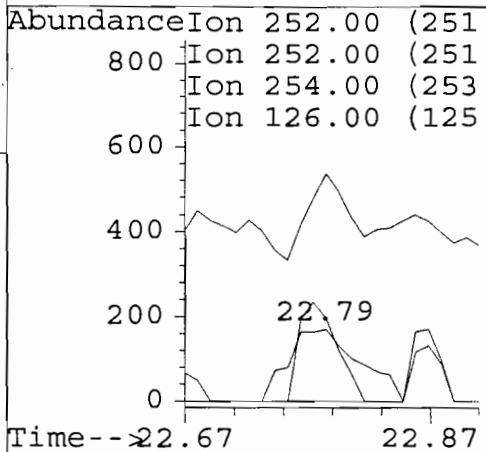
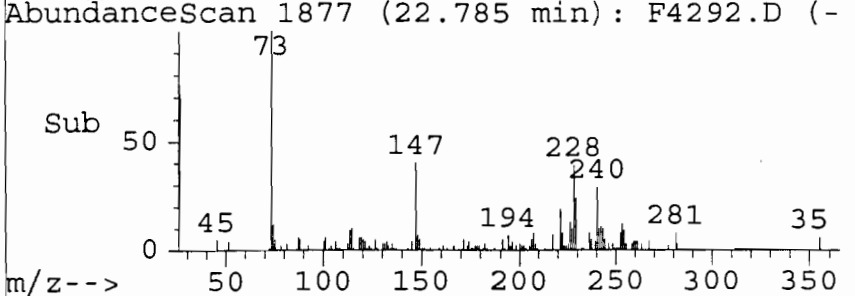
Tgt Ion	Resp	Lower	Upper
228	49738		
228	100	50.0	150.0
226	26.0	0.0	77.1
229	24.4	0.0	68.9

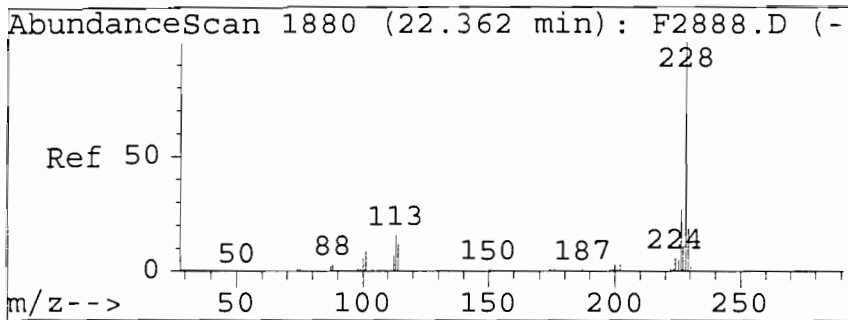


#72
 3,3'-Dichlorobenzidine
 Concen: 0.51 ng/uL
 RT: 22.79 min Scan# 1877
 Delta R.T. 0.06 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15



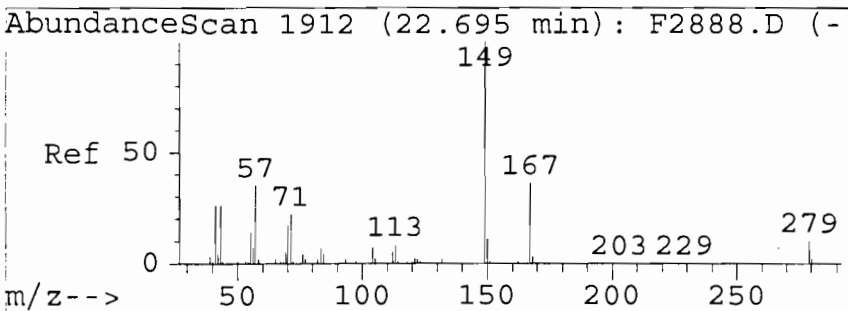
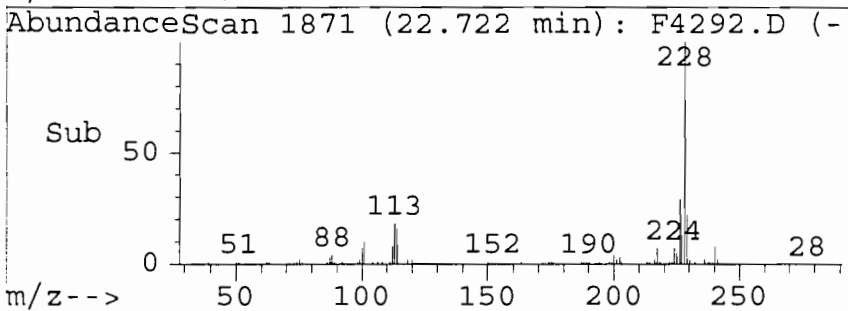
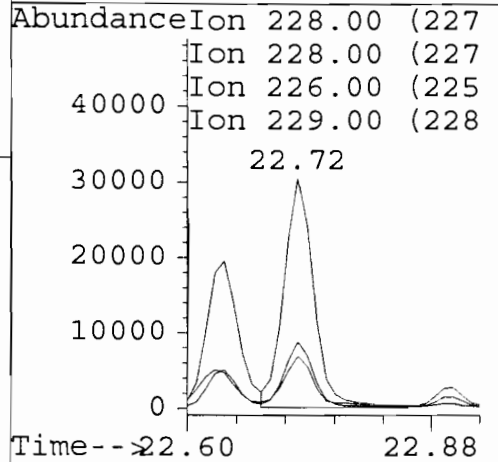
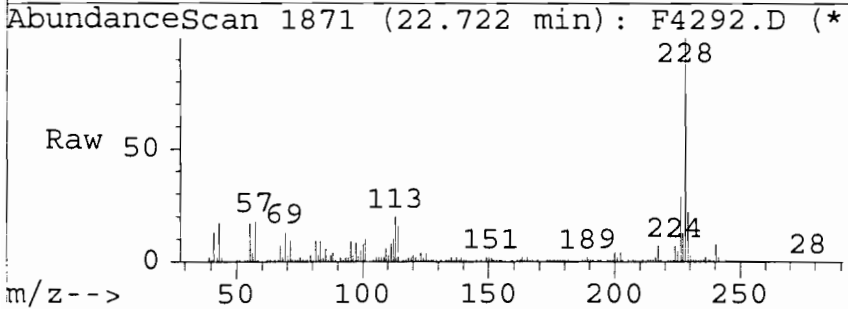
Tgt Ion	Resp	Lower	Upper
252	697		
252	100	50.0	150.0
254	0.0	12.4	112.4#
126	0.0	0.0	61.7





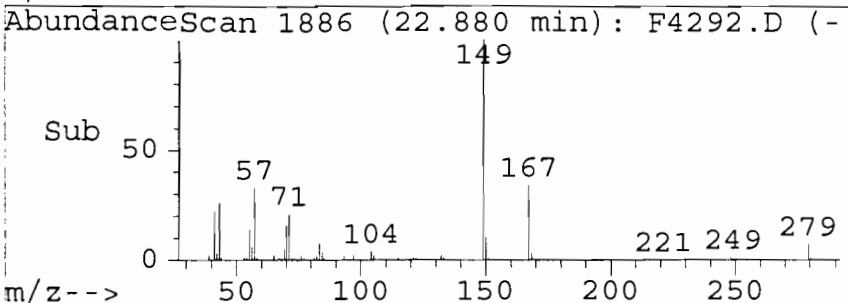
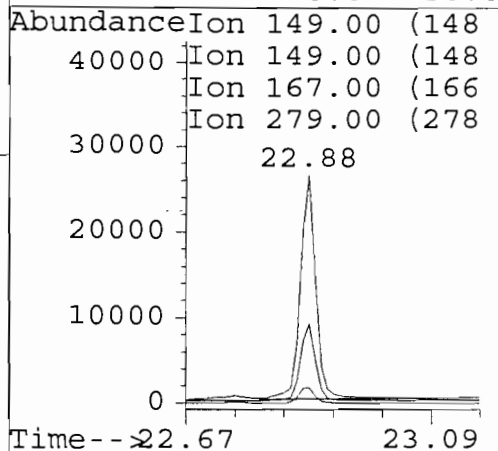
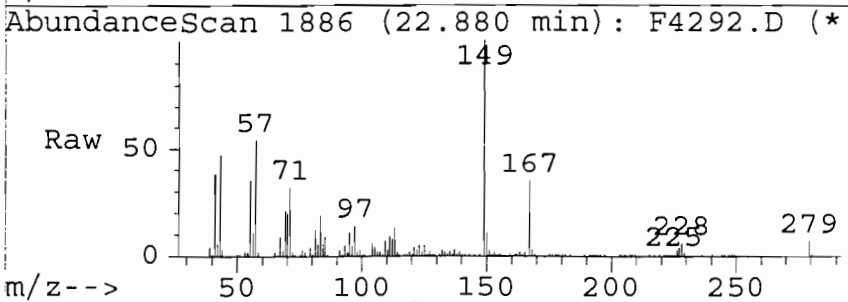
#73
 Chrysene (72G)
 Concen: 11.28 ng/uL
 RT: 22.72 min Scan# 1871
 Delta R.T. -0.09 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15

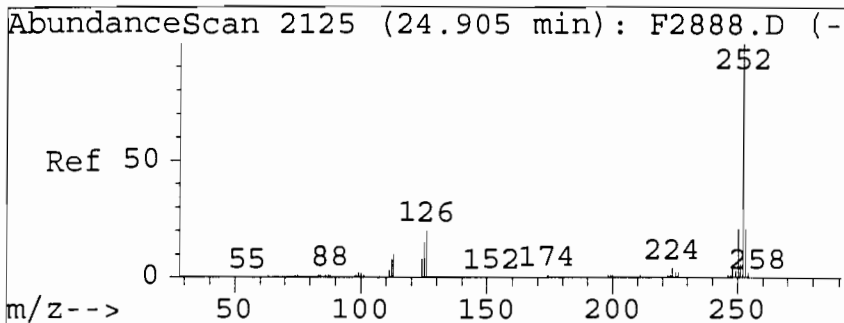
Tgt Ion	Resp	Lower	Upper
228	70930		
228	100		
228	100.0	50.0	150.0
226	0.0	0.0	79.7
229	18.8	0.0	69.2



#74
 Bis (2-Ethylhexyl) Phthalate (
 Concen: 9.85 ng/uL
 RT: 22.88 min Scan# 1886
 Delta R.T. -0.06 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15

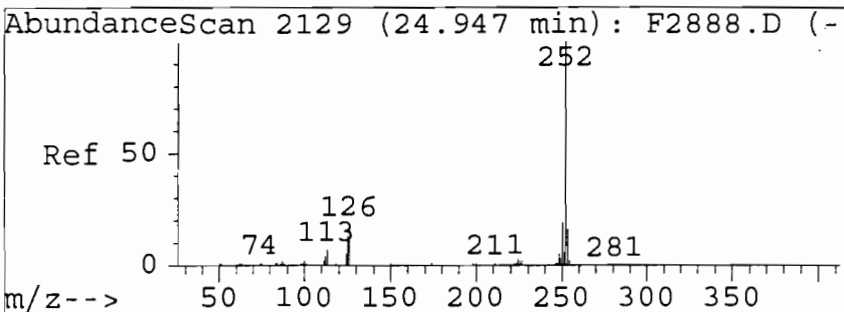
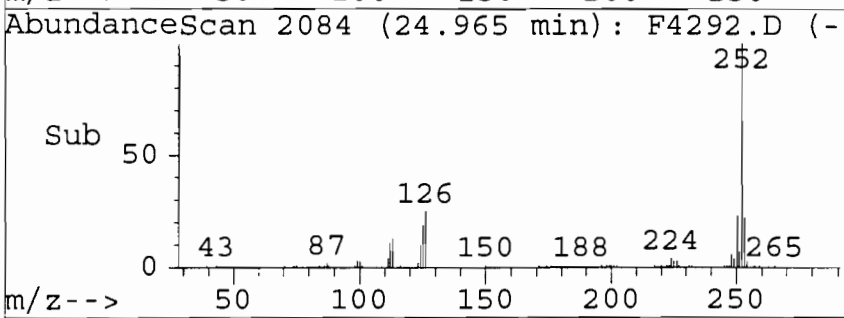
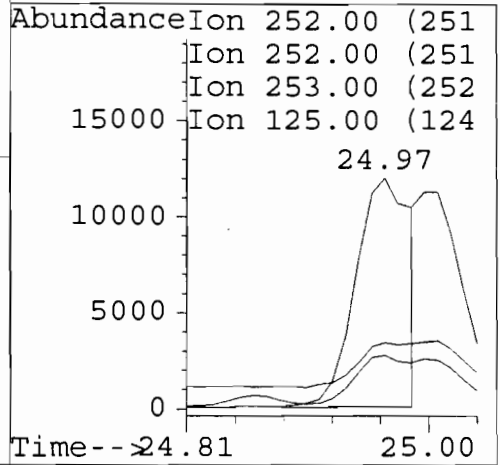
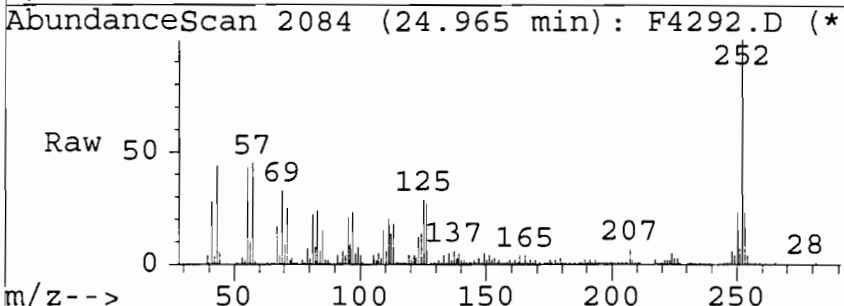
Tgt Ion	Resp	Lower	Upper
149	47872		
149	100		
149	100.0	50.0	150.0
167	34.1	0.0	80.6
279	7.2	0.0	56.6





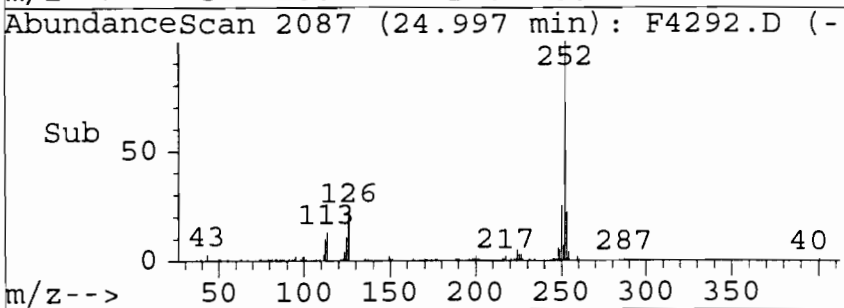
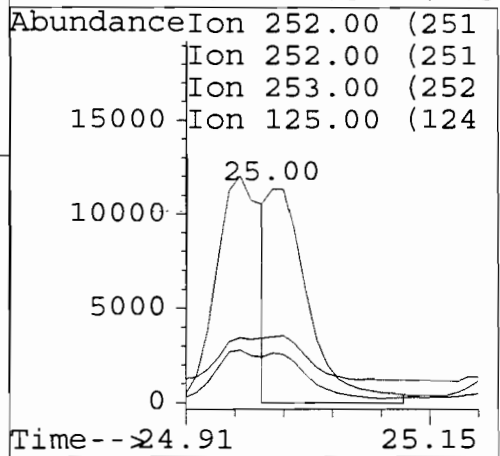
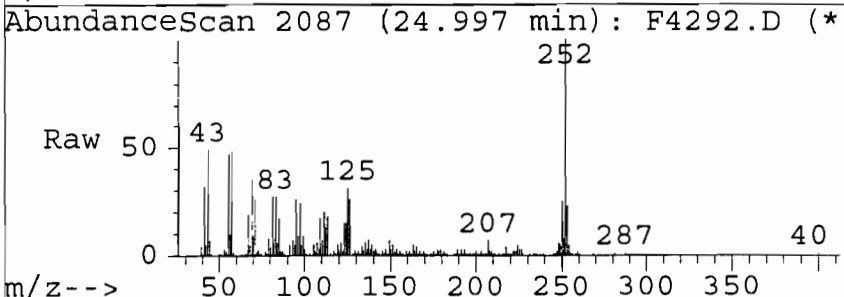
#77
 Benzo-(b)-Fluoranthene (76G)
 Concen: 7.53 ng/uL
 RT: 24.97 min Scan# 2084
 Delta R.T. -0.13 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15

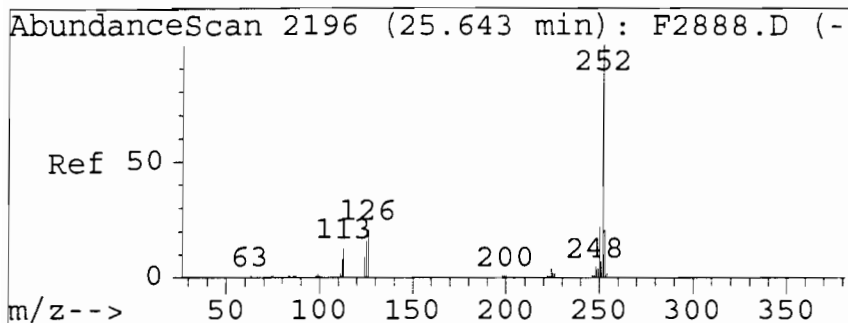
Tgt Ion	Resp	Lower	Upper
252	36371		
252	100		
252	100.0	50.0	150.0
253	22.1	0.0	70.8
125	0.0	0.0	62.9



#78
 Benzo-(k)-Fluoranthene (77G)
 Concen: 6.02 ng/uL m
 RT: 25.00 min Scan# 2087
 Delta R.T. -0.10 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15

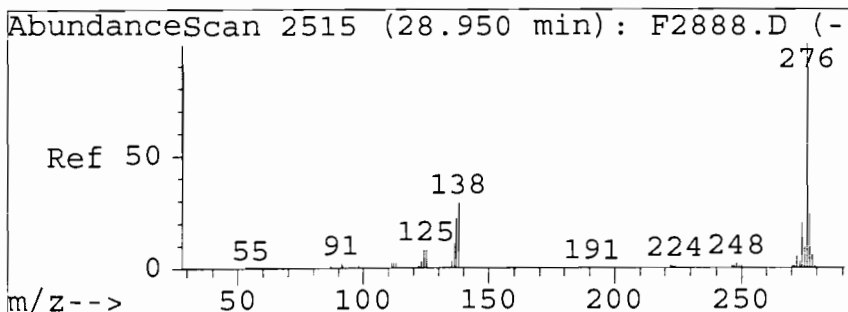
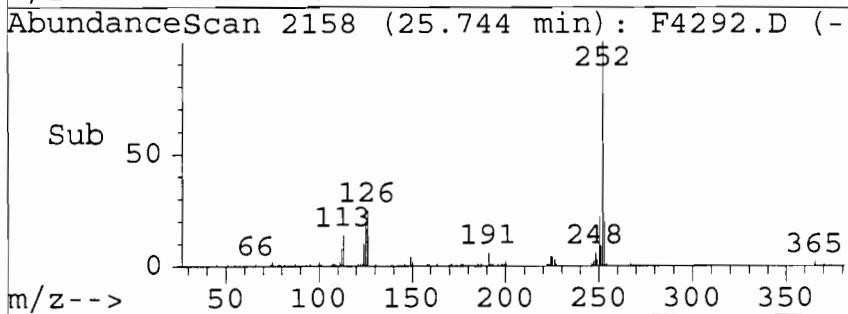
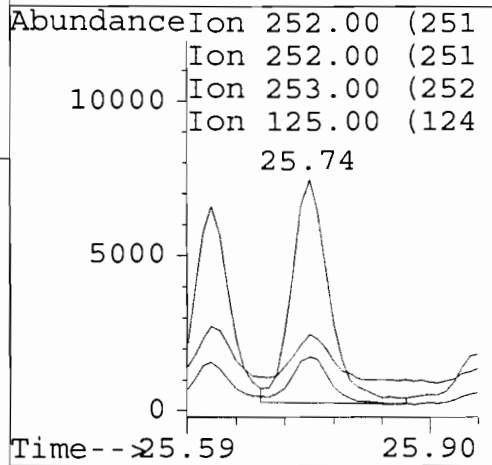
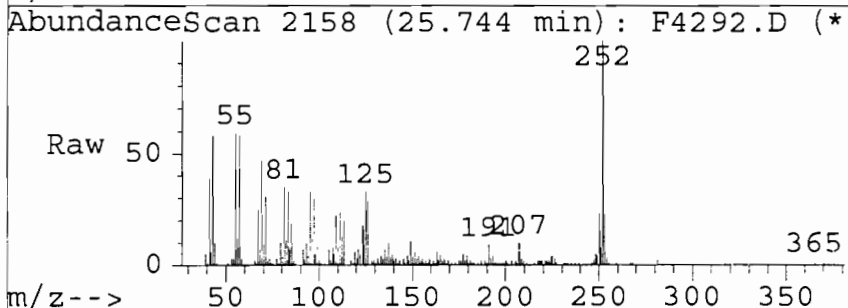
Tgt Ion	Resp	Lower	Upper
252	30513		
252	100		
252	100.0	50.0	150.0
253	23.3	0.0	71.0
125	30.9	0.0	60.3





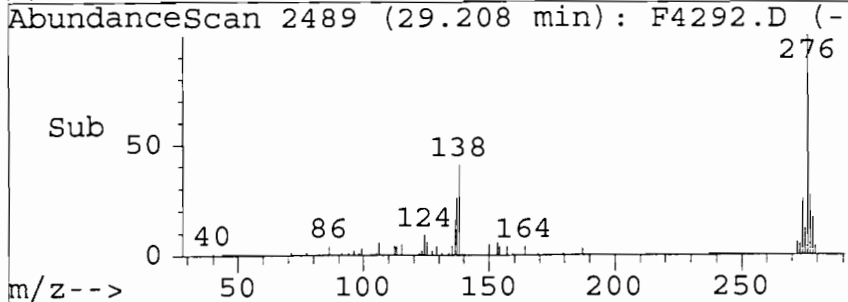
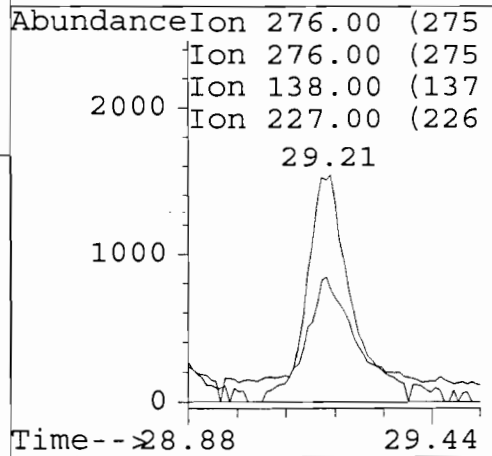
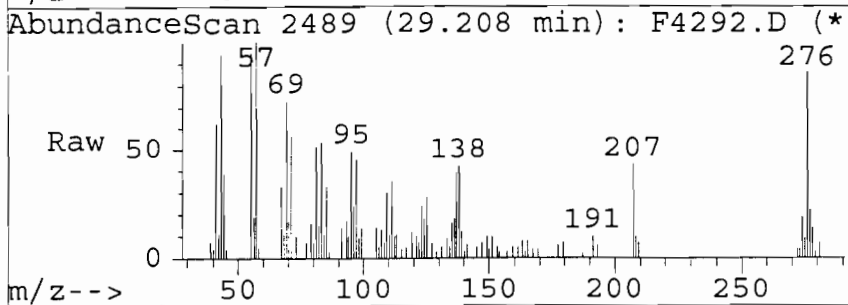
#79
 Benzo- (a) -Pyrene (78G)
 Concen: 5.81 ng/uL
 RT: 25.74 min Scan# 2158
 Delta R.T. -0.08 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15

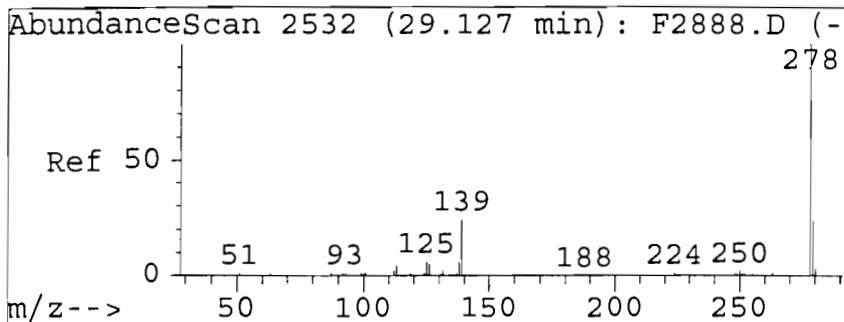
Tgt Ion	Resp	Lower	Upper
252	24340		
252	100		
252	100.0	50.0	150.0
253	22.2	0.0	70.9
125	0.0	0.0	64.5



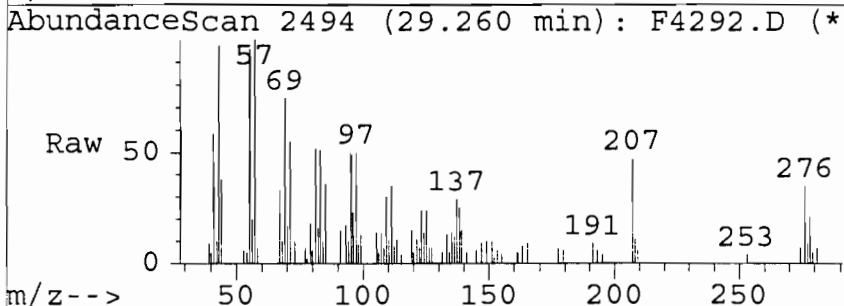
#80
 Indeno- (1,2,3-cd) -Pyrene (79G)
 Concen: 3.95 ng/uL
 RT: 29.21 min Scan# 2489
 Delta R.T. -0.08 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15

Tgt Ion	Resp	Lower	Upper
276	10704		
276	100		
276	100.0	50.0	150.0
138	0.0	0.0	74.7
227	0.0	0.0	50.0

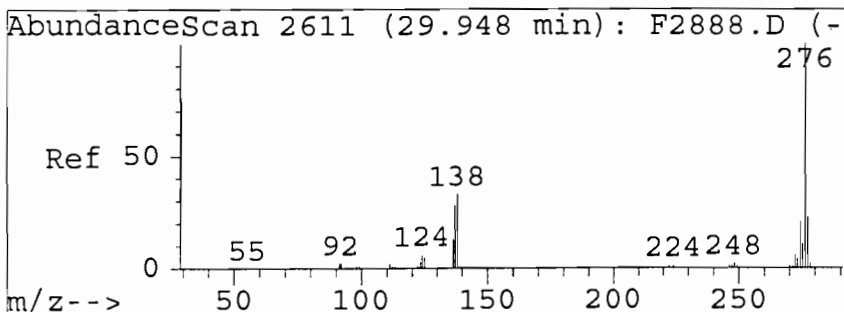
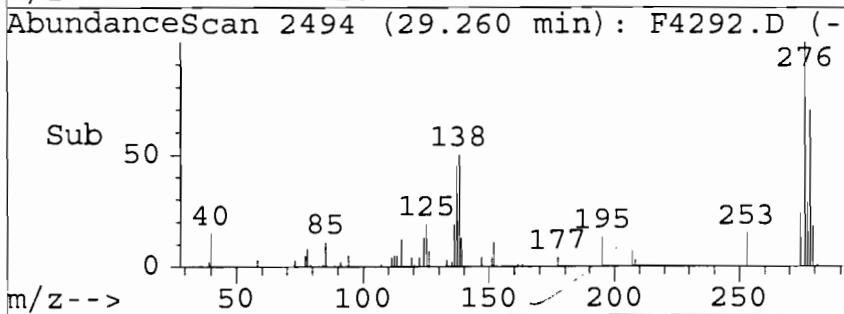
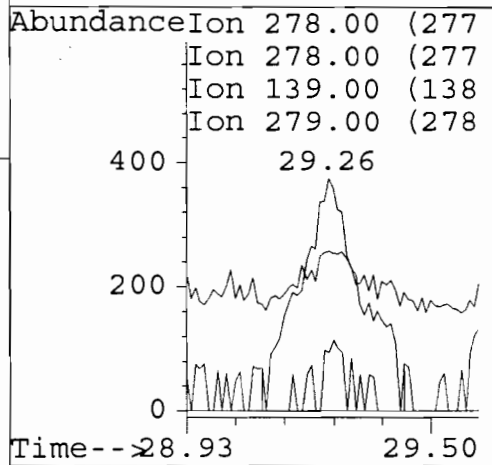




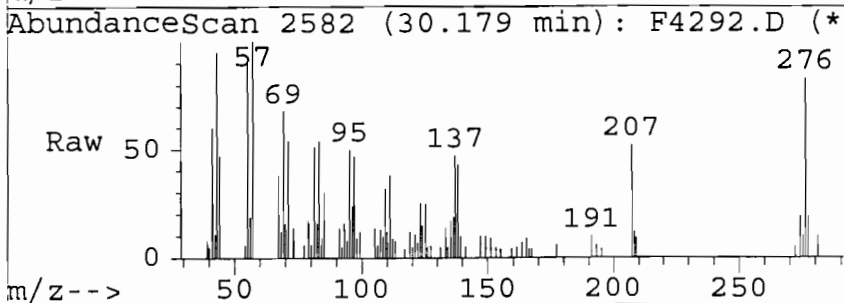
#81
 Dibenzo-(a,h)-Anthracene(80G)
 Concen: 1.73 ng/uL m
 RT: 29.26 min Scan# 2494
 Delta R.T. -0.11 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15



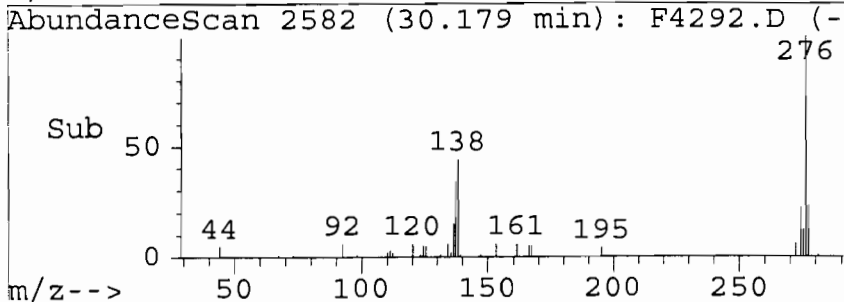
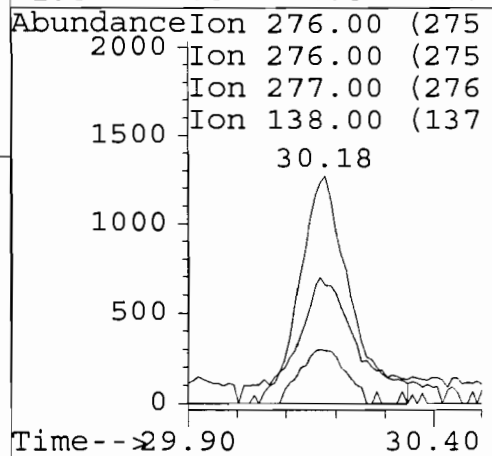
Tgt Ion	Resp	Lower	Upper
278	100		
278	100.0	50.0	150.0
139	68.7	0.0	71.0
279	25.1	0.0	73.1



#82
 Benzo-(g,h,i)-Perylene(81G)
 Concen: 4.34 ng/uL
 RT: 30.18 min Scan# 2582
 Delta R.T. -0.09 min
 Lab File: F4292.D
 Acq: 3/30/99 @ 16:15



Tgt Ion	Resp	Lower	Upper
276	100		
276	100.0	50.0	150.0
277	0.0	0.0	73.7
138	0.0	0.0	77.0



ANALab, Inc. - Randolph Facility
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
APRIL 12, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

DIESEL RANGE ORGANIC PETROLEUM HYDROCARBONS BY GC

Client: GCI
Sample Source: 960285
Sample Date: 03/11/99
Sample ID: DW-5
Sampled by: Customer

At Lab Date: 03/15/99

Lab Number: 306394
Sample wt/vol: 25
Sample Matrix: Soil
Percent Moisture: 24.35%
Analysis Date: 04/09/99

Final volume: 1
Column used: RTX-5
Dilution Factor 5

Extraction Date: 04/08/99

Parameter	Result mg/kg	Method Blank mg/kg	Minimum Detection Limit mg/kg	Practical Quantitation Limit mg/kg
DRO Petroleum Hydrocarbons	350	U	26	26

U = Not detected
Results reported as mg/kg (ppm) are reported on a dry weight basis.

ANALab, Inc. - Randolph Facility
Thomas Mancuso, Lab Mgr.
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LOU

Data File : E:\1\DATA\DA1556.D

Vial: 19

Acq On : 9 Apr 99 13:16

Operator:

Sample : 306394 1:5

Inst : GC 5890_4

Misc : QDR8195

Multiplr: 1.00

IntFile : EVENTS1.E

Quant Time: Apr 12 11:24 1999 Quant Results File: DROSOIL.RES

Quant Method : E:\1\METHODS\DROSOIL.M (Chemstation Integrator)

Title : GC TPH DRO METHOD - Total Area Quantitation

Last Update : Mon Apr 12 09:21:56 1999

Response via : Initial Calibration

DataAcq Meth : DROSOIL.M

Volume Inj. : 1 µl injection

Signal Phase : Restek RTx-5

Signal Info : 30 M x 0.53mm x 0.25µm

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S Ortho-Terphenyl	18.02	378119	5.380 µg/mlm
Spiked Amount 20.000		Recovery =	26.90%

Target Compounds

2) HM DIESEL RANGE	17.00	91351029	1314.489 µg/ml
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Handwritten signature

Quantitation Report

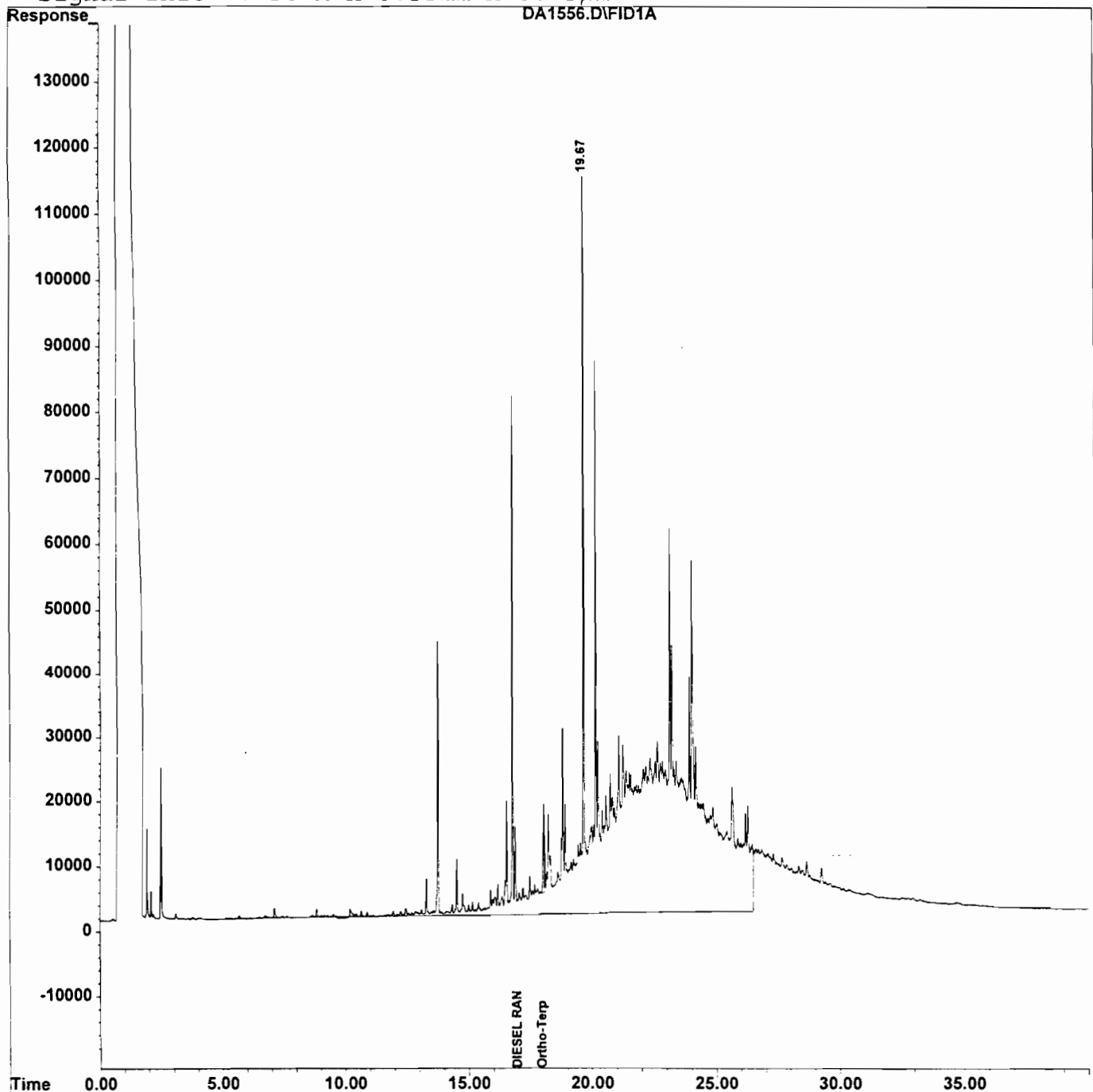
Data File : E:\1\DATA\DA1556.D
Acq On : 9 Apr 99 13:16
Sample : 306394 1:5
Misc : QDR8195
IntFile : EVENTS1.E

Vial: 19
Operator:
Inst : GC 5890_4
Multiplr: 1.00

Quant Time: Apr 12 11:24 1999 Quant Results File: DROSOIL.RES

Quant Method : E:\1\METHODS\DROSOIL.M (Chemstation Integrator)
Title : GC TPH DRO METHOD - Total Area Quantitation
Last Update : Mon Apr 12 09:21:56 1999
Response via : Multiple Level Calibration
DataAcq Meth : DROSOIL.M

Volume Inj. : 1 µl injection
Signal Phase : Restek RTx-5
Signal Info : 30 M x 0.53mm x 0.25µm



ANALab, Inc. - Randolph Facility
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
APRIL 6, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 306394
Client: GCI
Sample source: 960285
Sample ID: DW-5
Sample date: 03/11/99
Sampled by: Customer
At lab date: 03/15/99
Matrix: SOIL
Percent Moisture: 24.35 %

ICP/FURNACE Initial weight: 1.01 g ICP/FURNACE Final volume: 100 ml
Mercury Initial weight: 0.51 g Mercury Final volume: 100 ml
Results in mg/Kg dry weight basis.

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Dilution Factor	Analysis Date
Arsenic	5.50	U	0.524	1	03/23/99
Barium	74.9	U	0.654	1	03/23/99
Cadmium	5.63	U	0.654	1	03/23/99
Chromium	29.7	U	0.654	1	03/23/99
Lead	319	U	0.524	1	03/23/99
Mercury	0.311	U	0.052	1	03/22/99
Selenium	1.44	U	0.524	1	03/23/99
Silver	0.785	U	0.654	1	03/23/99

U = Not Detected

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Thomas Mancuso, Lab Mgr.
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ROB

ANALab, Inc. - Randolph Facility
 1152 Route 10
 Randolph, NJ 07869
 973-584-0330, FAX: 973-584-0515
 MARCH 29, 1999

Certified for: NJ, PA, DE, CT, NY (DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

TARGET COMPOUND LIST - VOLATILE ANALYSIS BY GC/MS

Lab Number: 306395 Data File: >A3693
 Client: GCI
 Sample source: 960285
 Sample ID: DW-6
 Sample date: 03/11/99
 Sampled by: Customer Analysis Date: 03/17/99 Column: DB-624
 At lab date: 03/15/99 Dilution Factor: 1
 Matrix: Soil Init Sample Wght= 5g Final volume= 5ml

Percent Moisture: 28.28%
 Initial sample weight DWB= 3.586g

Conc. in Sample = (Conc. on Quant Report/Initial Sample Weight DWB)*Final Volume

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
Chloromethane	U	U	7	6.4
Bromomethane	U	U	7	5.3
Vinyl chloride	U	U	7	2.4
Chloroethane	U	U	7	2.5
Methylene chloride	U	U	7	3.8
Acetone	U	U	28	6.3
Carbon disulfide	U	U	7	2.4
1,1-Dichloroethene	U	U	7	2.4
1,1-Dichloroethane	U	U	7	2
trans-1,2-Dichloroethene	U	U	7	2.4
cis-1,2-Dichloroethene	U	U	7	2.4
Chloroform	U	U	7	2.2
1,2-Dichloroethane	U	U	7	2.6
2-Butanone	U	U	28	3.3
1,1,1-Trichloroethane	U	U	7	0.7
Carbon tetrachloride	U	U	7	0.84
Bromodichloromethane	U	U	7	0.84
1,2-Dichloropropane	U	U	7	0.84
cis-1,3-Dichloropropene	U	U	7	0.7
Trichloroethene	U	U	7	0.84
Dibromochloromethane	U	U	7	0.84
1,1,2-Trichloroethane	U	U	7	0.7
Benzene	U	U	7	0.7
trans-1,3-Dichloropropene	U	U	7	0.84
Bromoform	U	U	7	1.1
4-Methyl-2-pentanone	U	U	28	1.5
2-Hexanone	U	U	28	1.7
Tetrachloroethene	U	U	7	0.98
1,1,2,2-Tetrachloroethane	U	U	7	0.7
Toluene	U	U	7	1.1
Chlorobenzene	U	U	7	0.84
Ethylbenzene	U	U	7	0.98
Styrene	U	U	7	1.4
p&m-Xylene	U	U	7	1.3
o-Xylene	U	U	7	1.3
total Xylenes	U	U	7	1.3

ug/kg = micrograms/kilogram or ppb
 Results are in ug/kg (ppb); they are reported on a dry weight basis.
 ND: Not Determined.
 IND: Indeterminable.
 U: Indicates a compound was analyzed for but not detected at the PQL.
 J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
 B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

QUANT REPORT

Page

Operator ID: AT1446
 Output File: 143693::X1
 Data File: 143693::D1
 Name: INST 59791 SAMPLE
 Desc: 306395 .S.F.5 ,0.53mm x75m db-624

Quant Rev: 7
 Quant Type: 99 311 01:09
 Injected at: 990312 20:27
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: 108698::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990312 14:07

Last Qual Time: none

Compound	R.T.	Conc	Area	Conc	Units	Q
11) *Pentafluorobenzene	7.36	168.0	170667	50.00	ug/L	91
26) Dibromofluoromethane	7.39	113.0	119830	50.00	ug/L	100
28) 1,2-Dichloroethane-d4	8.42	65.0	96000	50.00	ug/L	84
32) *1,4-Difluorobenzene	9.26	114.0	198426	50.00	ug/L	97
53) *Chlorobenzene-d5	14.81	117.0	145817	50.00	ug/L	94
54) Toluene-d8	12.07	98.0	153373	50.00	ug/L	91
67) Bromofluorobenzene	17.05	98.0	138656	40.00	ug/L	91
71) 1,2,4-Trichlorobenzene	19.20	75.0	9151	9.13	ug/L	48
84) *1,4-Dichlorobenzene-d4	19.20	151.0	96781	50.00	ug/L	96

* Compound is ISTD

AT
 3/18/99

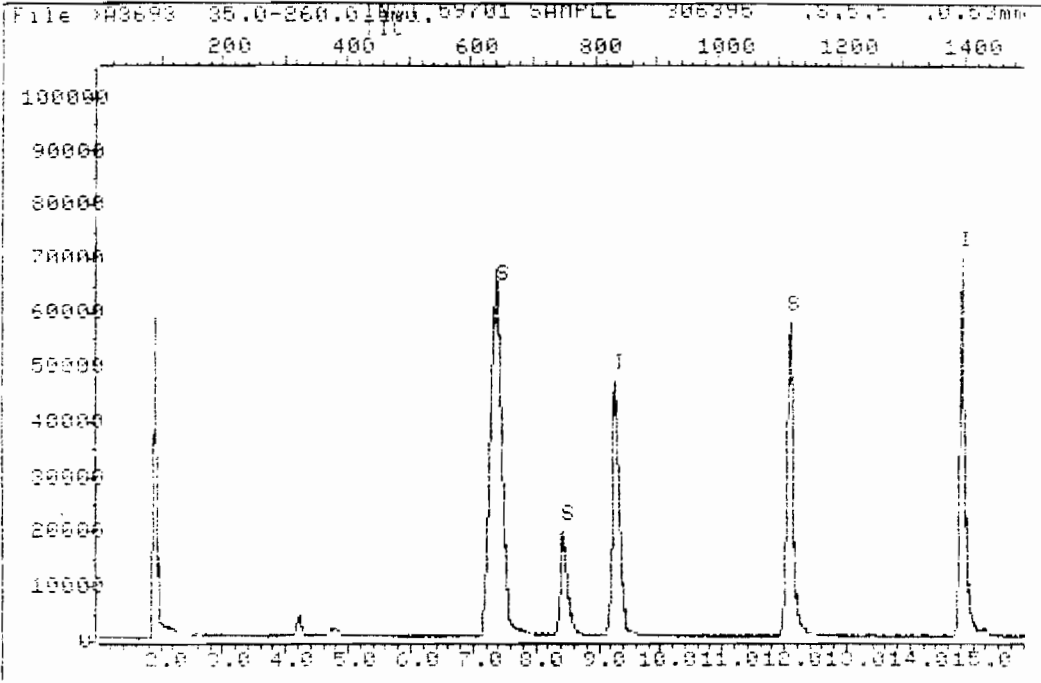
VA3693 INST 59701 SAMPLE 306395 ,S,E,S ,0.53mm 475m db-624
 35.01 260.0 TIC

Upslope: .1000 Area Reject: 5.00 % Max Peaks: 5 Bunch: 1 Valley >100 %
 Dnslope: -.0100 Results File VDIR78 Sorted by: Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	1.90	82	89	104	59066	212762	203791	24.07	5.750
2	7.36	612	641	666	67113	679738	645504	100.00	21.394
3	8.42	723	748	775	18821	184879	153044	18.03	4.319
4	9.26	816	833	856	46387	400299	371512	43.89	10.462
5	12.07	1100	1117	1141	57206	454060	427085	48.09	11.436
6	14.91	1279	1394	1413	89536	456141	427510	51.70	12.347
7	15.05	1607	1620	1651	94077	597360	572996	67.63	15.164
8	19.20	1824	1837	1866	95480	591322	551791	65.13	15.568

Sum of corrected areas: 3544223.

TOTAL ION CHROMATOGRAM



Data File: >A3693::C1 Quant Output File: >A3693::K1
 Name: INST 59701 SAMPLE Instrument ID: INST "A"
 Misc: 306395 ,S,S,S ,0.53mm x75m db-524

Id File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990312 14:07 Last Qual Time: None

Operator ID: AT1446
 Quant Time : 990317 22:58
 Injected at: 990317 22:27

ANALab, Inc. - Randolph Facility
 1152 Route 10
 Randolph, NJ 07869
 973-584-0330, FAX: 973-584-0515
 MARCH 31, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

TARGET COMPOUND LIST - BASE/NEUTRAL FRACTION ANALYSIS BY GC/MS

Lab Number: 306395 Data File: >F4294
 Client: GCI
 Sample source: 960285
 Sample ID: DW-6
 Sample date: 03/11/99 Extracted Date: 03/19/99
 Sampled by: Customer Analysis Date: 03/30/99 Column: 30m SPB-5
 At lab date: 03/15/99 Dilution Factor: 1
 Percent Moisture: 28.28%
 Matrix: Soil Init Sample Wght= 30.13g Final volume= 1ml

Initial sample weight DWB= 21.60923g

Conc. in Sample = (Conc. on Quant Report/Initial Sample Weight DWB)*Final Volume*1000

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
bis(2-Chloroethyl) ether	U	U	230	46
1,3-Dichlorobenzene	U	U	230	110
1,4-Dichlorobenzene	U	U	230	110
1,2-Dichlorobenzene	U	U	230	110
bis(2-Chloroisopropyl) ether	U	U	230	56
N-Nitroso-di-n-propylamine	U	U	230	46
Hexachloroethane	U	U	230	130
Nitrobenzene	U	U	230	46
Isophorone	U	U	230	46
bis(2-Chloroethoxy) methane	U	U	230	46
1,2,4-Trichlorobenzene	U	U	230	110
Naphthalene	U	U	230	93
4-Chloroaniline	U	U	230	46
Hexachlorobutadiene	U	U	230	46
2-Methylnaphthalene	U	U	230	97
Hexachlorocyclopentadiene	U	U	230	69
2-Chloronaphthalene	U	U	230	93
2-Nitroaniline	U	U	230	46
Dimethyl phthalate	U	U	230	210
Acenaphthylene	U	U	230	69
2,6-Dinitrotoluene	U	U	230	46
3-Nitroaniline	U	U	230	46
Acenaphthene	U	U	230	88
Dibenzofuran	U	U	230	69
2,4-Dinitrotoluene	U	U	230	46
Diethyl phthalate	U	U	230	110
4-Chlorophenyl phenyl ether	U	U	230	93
Fluorene	24J	U	230	79
4-Nitroaniline	U	U	230	46
N-Nitrosodiphenylamine	U	U	230	46
4-Bromophenyl phenyl ether	U	U	230	88
Hexachlorobenzene	U	U	230	88
Phenanthrene	250	U	230	42
Anthracene	35J	U	230	37

(continued on next page)

(continued from previous page)

Lab Number: 306395
Client: GCI

Data File: >F4294

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
Di-n-butylphthalate	U	U	230	120
Fluoranthene	380	U	230	28
Pyrene	720	U	230	23
Butyl benzylphthalate	53J	U	230	56
3,3'-Dichlorobenzidine	U	U	230	46
Benzo(a)anthracene	150J	U	230	23
Chrysene	220J	U	230	23
bis(2-Ethylhexyl) phthalate	1100	U	230	140
Di-n-octylphthalate	U	U	230	46
Benzo(b)fluoranthene	180J	U	230	32
Benzo(k)fluoranthene	150J	U	230	32
Benzo(a)pyrene	140J	U	230	23
Indeno(1,2,3-cd)pyrene	63J	U	230	51
Dibenz(a,h)anthracene	U	U	230	23
Benzo(g,h,i)perylene	69J	U	230	23
Carbazole	27J	U	230	46

ug/kg = micrograms/kilogram or ppb

Results are in ug/kg (ppb); they are reported on a dry weight basis.

ND: Not Determined.
IND: Indeterminable.

U: Indicates a compound was analyzed for but not detected at the PQL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the

Quantitation Report

Data File : F:\RTE\BNA\F42_D\F4294.D

Acq Time : 30 MAR 99 5:46 PM

Sample :

Misc : 306395 ,QC8167 M SPB-5 CAP COLUMN

Quant Time: Mar 31 11:06 1999

Operator: AM9951

Inst :

Multiplr: 1.00

Method : C:\METHODS\CF4189.M

Title : BNA STANDARDS FOR 5 POINT CALIBRATION

Last Update : Tue Mar 23 13:25:06 1999

Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-Dichlorobenzene	7.54	152	109019	40.00	ng/uL	-0.06
21) d8-Naphthalene	10.08	136	535923	40.00	ng/uL	-0.07
33) d10-Acenaphthene	13.81	164	229387	40.00	ng/uL	-0.08
57) d10-Phenanthrene	16.96	188	648436	40.00	ng/uL	-0.08
66) d12-Chrysene	22.67	240	176902	40.00	ng/uL	-0.08
75) d12-Perylene	25.88	264	69442	40.00	ng/uL	-0.11

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
4) 2-Fluorophenol	5.51	112	168550	62.86	ng/uL	31.43%
6) Phenol-d6	7.17	99	254675	76.68	ng/uL	38.34%
19) Nitobenzene-d5	8.70	82	152530	41.84	ng/uL	41.84%
37) 2-Fluorobiphenyl	12.42	172	654585	77.23	ng/uL	77.23%
56) 2,4,6-Tribromophenol	15.55	330	95562	54.09	ng/uL	27.04%
69) Terphenyl-d14	20.46	244	365861	83.04	ng/uL	83.04%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Phenol(5G)	7.20	94	1779	0.52	ng/uL#	72
17) n-Nitrosodipropyl Amine(16G)	8.57	70	35447	15.45	ng/uL#	48
42) 2,6-Dinitrotoluene(42G)	13.81	165	29583	9.33	ng/uL#	72
49) Fluorene(51G)	14.95	166	4555	0.52	ng/uL#	54
54) n-Nitrosodiphenyl Amine(56)	15.55	169	4215	0.66	ng/uL#	31
61) Phenanthrene(61G)	17.00	178	87755	5.51	ng/uL#	94
62) Anthracene(62G)	17.09	178	12458	0.76	ng/uLm ⁴¹⁶	94
63) Carbazole(21S)	17.50	167	8588	0.58	ng/uL#	89
65) Fluoranthene(64G)	19.56	202	147223	8.13	ng/uL#	94
68) Pyrene(67G)	20.03	202	107772	15.65	ng/uL	95
70) Butylbenzyl Phthalate(69G)	21.58	149	3923	1.15	ng/uL#	70
71) Benzo-(a)-Anthracene(71G)	22.62	228	18738	3.31	ng/uLm ⁴¹⁶	89
73) Chrysene(72G)	22.72	228	26887	4.65	ng/uL#	87
74) Bis(2-Ethylhexyl) Phthala	22.87	149	103416	23.16	ng/uL	99
77) Benzo-(b)-Fluoranthene(76G)	24.96	252	10335	3.97	ng/uL#	97
78) Benzo-(k)-Fluoranthene(77G)	24.99	252	9010	3.29	ng/uLm ⁴¹⁶	98
79) Benzo-(a)-Pyrene(78G)	25.74	252	6897	3.05	ng/uL#	94
80) Indeno-(1,2,3-cd)-Pyrene(7	29.18	276	2006	1.37	ng/uL#	84
82) Benzo-(g,h,i)-Perylene(81	30.16	276	1688	1.50	ng/uLm ⁴¹⁶	83

00 167

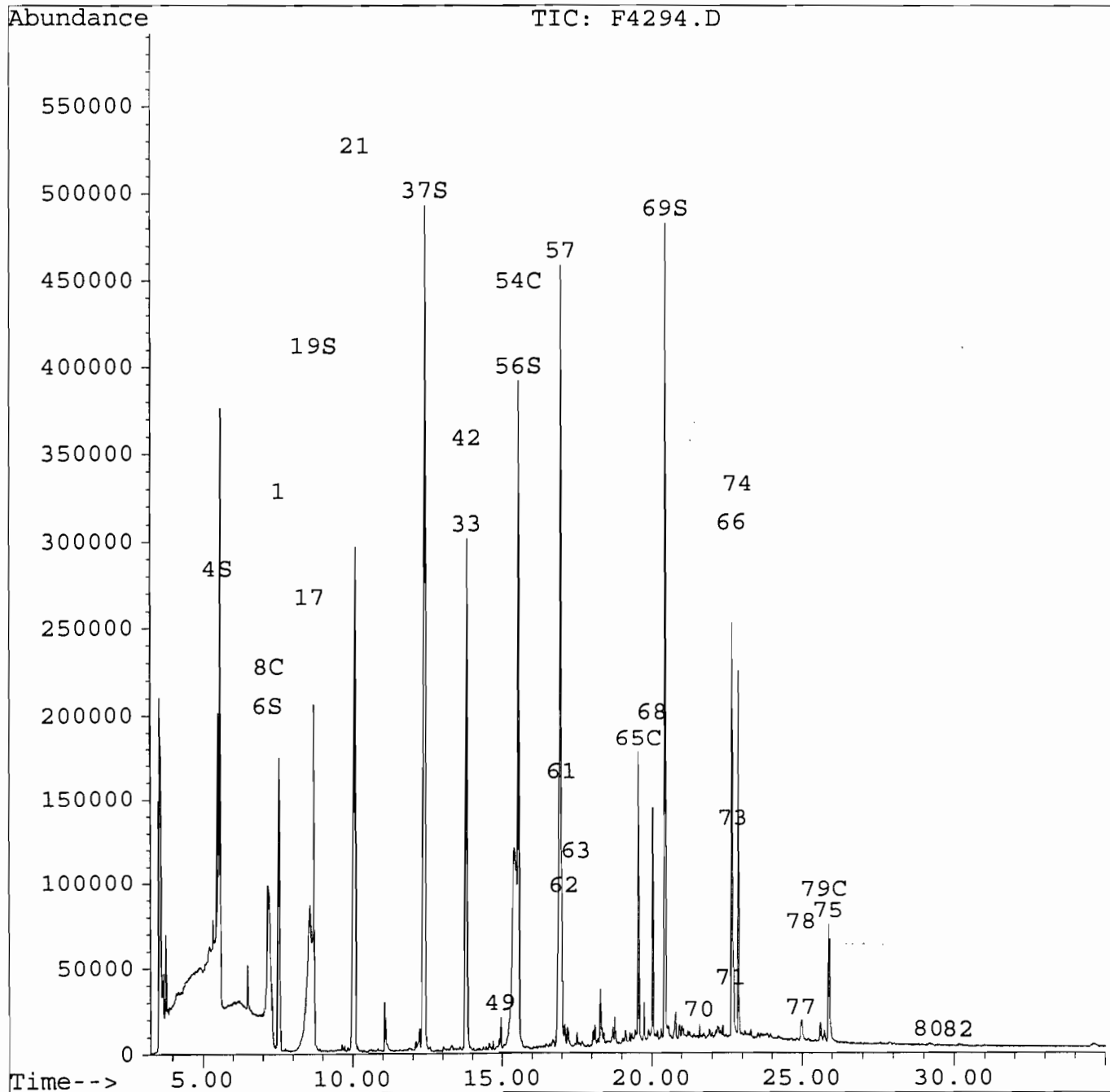
(#) = qualifier out of range (m) = manual integration

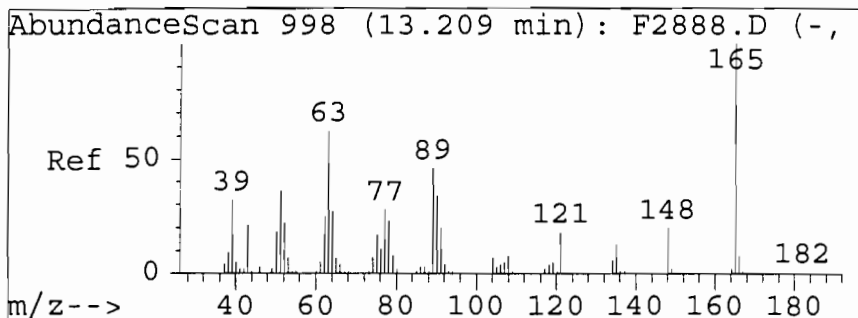
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	3.550	rBV	0.104	200721	3.457	3.560
2	3.591	rVV	0.104	674607	3.560	3.664
3	3.685	rVV	0.031	33548	3.664	3.695
4	3.799	rVB	0.083	90318	3.758	3.841
5	5.327	rBV	0.073	31251	5.307	5.379
6	5.515	rBV	0.094	388886	5.452	5.546
7	5.577	rVB	0.114	515211	5.546	5.660
8	6.491	rVB	0.073	36576	6.470	6.543
9	7.176	rVB	0.301	796350	7.093	7.394
10	7.550	rVB	0.197	662283	7.436	7.633
11	8.566	rBV	0.457	818495	8.161	8.618
12	8.701	rVB	0.176	468792	8.670	8.846
13	10.080	rVV	0.260	1162013	9.883	10.143
14	11.075	rVV	0.228	94164	11.044	11.272
15	12.236	rVV	0.135	31194	12.132	12.267
16	12.423	rBV	0.198	1985496	12.267	12.465
17	13.813	rBV	0.208	1002467	13.646	13.855
18	14.953	rVB	0.073	32670	14.922	14.995
19	15.391	rBV	0.292	602514	15.109	15.401
20	15.548	rVB	0.136	974777	15.495	15.631
21	16.960	rBV	0.230	1812830	16.762	16.991
22	17.096	rVB	0.094	26302	17.054	17.147
23	17.179	rBV	0.083	30088	17.147	17.231
24	18.051	rBV	0.073	19323	17.999	18.072
25	18.103	rVB	0.073	21304	18.072	18.144
26	18.290	rBV	0.083	74520	18.238	18.321
27	18.758	rVB	0.125	38613	18.727	18.852
28	19.122	rVV	0.094	18832	19.080	19.174
29	19.559	rVB	0.177	369050	19.497	19.674
30	19.736	rVB	0.104	38253	19.695	19.799
31	20.039	rVB	0.125	309426	19.976	20.101
32	20.456	rBV	0.147	1161340	20.361	20.508
33	20.789	rVB	0.156	50186	20.706	20.862
34	20.925	rBV	0.083	22983	20.883	20.966
35	22.675	rBV	0.251	726915	22.581	22.832
36	22.874	rVB	0.146	394897	22.832	22.978
37	24.986	rBV	0.156	60368	24.903	25.059
38	25.610	rVB	0.125	31616	25.558	25.683
39	25.735	rVB	0.125	23275	25.683	25.808
40	25.891	rBV	0.208	243752	25.808	26.016

Quantitation Report

Data File : F:\RTE\BNA\F42_D\F4294.D
Acq Time : Data Taken: 3/30/99 @ 17:46 Operator: AM9951
Sample : Inst :
Misc : 306395 ,QC8167 M SPB-5 CAP COLUMN Multiplr: 1.00
Quant Time: Mar 31 11:06 1999

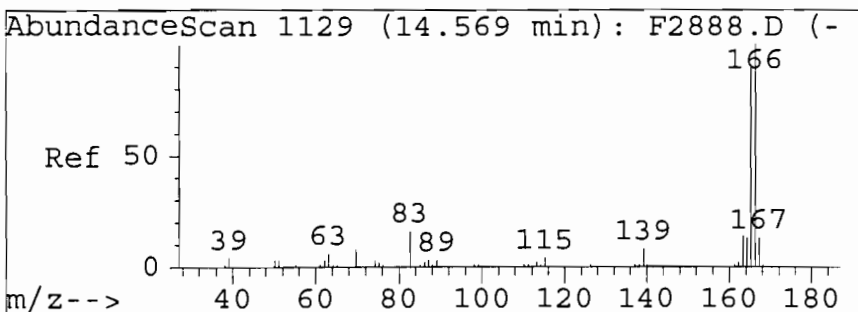
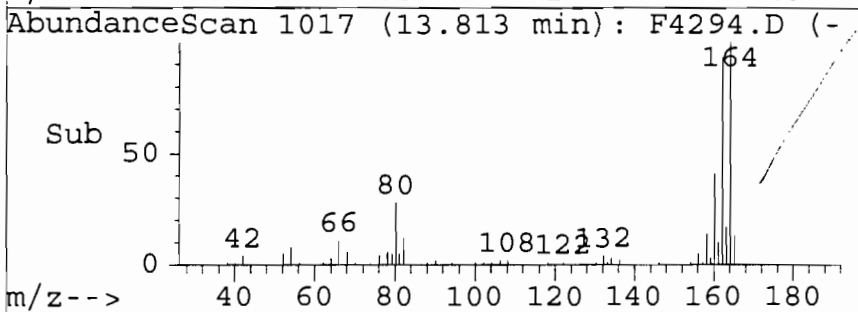
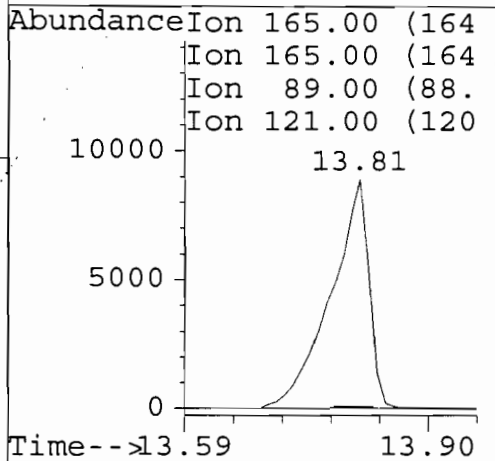
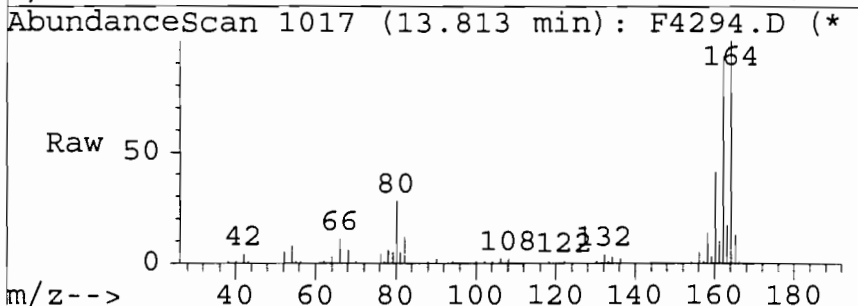
Method : C:\METHODS\CF4189.M
Title : BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Mar 23 13:25:06 1999
Response via : Multiple Level Calibration





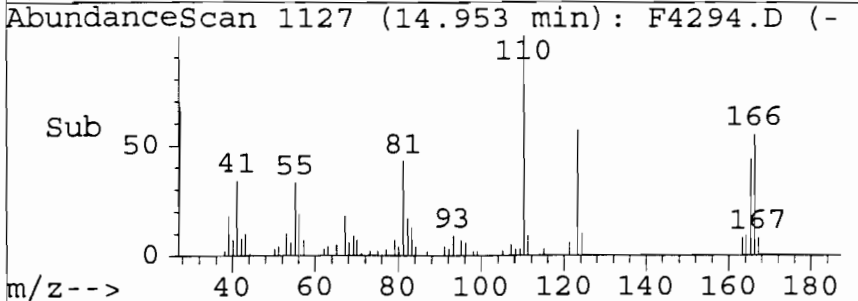
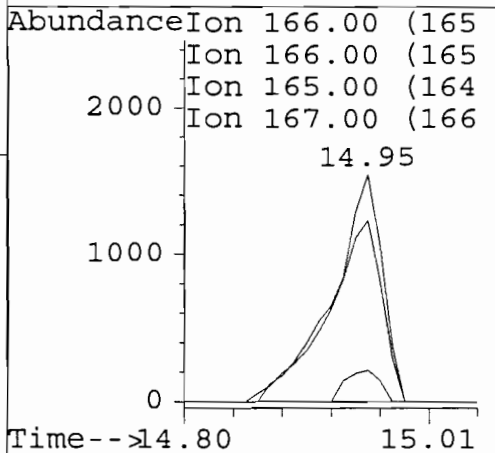
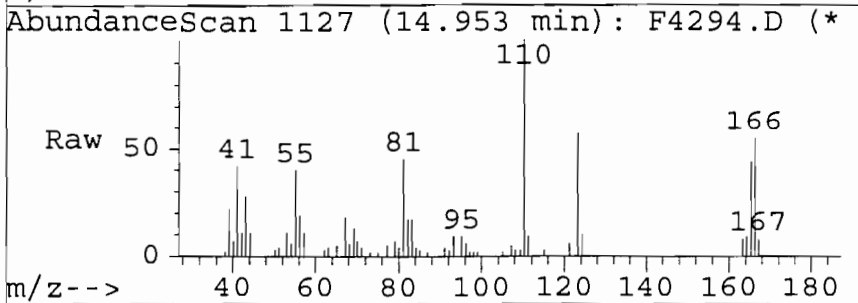
#42
 2,6-Dinitrotoluene (42G)
 Concen: 9.33 ng/uL
 RT: 13.81 min Scan# 1017
 Delta R.T. 0.18 min
 Lab File: F4294.D
 Acq: 3/30/99 @ 17:46

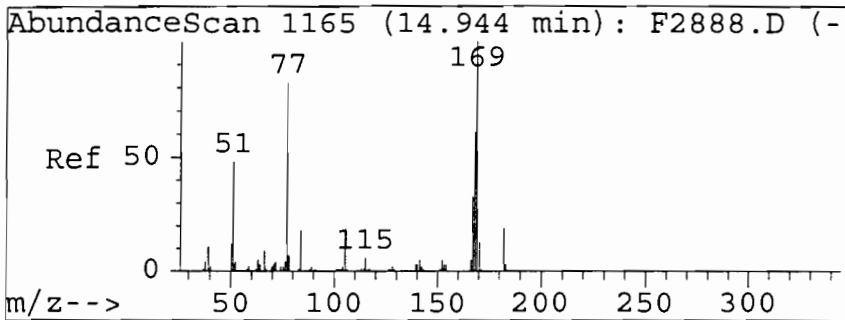
Tgt Ion	Ratio	Lower	Upper	Resp
165	100			29583
165	100.0	80.0	120.0	
89	0.0	33.6	73.6	#
121	0.0	0.0	38.6	



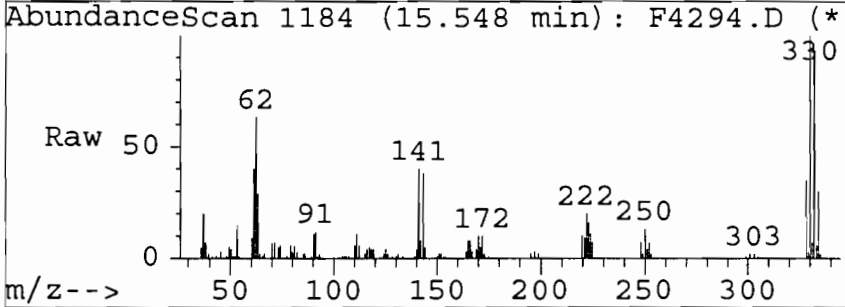
#49
 Fluorene (51G)
 Concen: 0.52 ng/uL
 RT: 14.95 min Scan# 1127
 Delta R.T. -0.08 min
 Lab File: F4294.D
 Acq: 3/30/99 @ 17:46

Tgt Ion	Ratio	Lower	Upper	Resp
166	100			4555
166	100.0	50.0	150.0	
165	0.0	47.3	147.3	#
167	9.5	0.0	62.8	

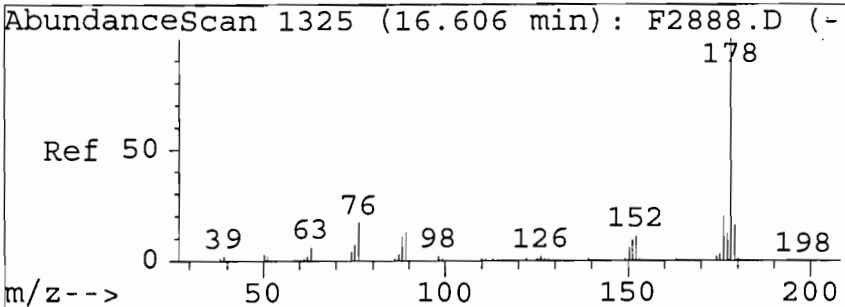
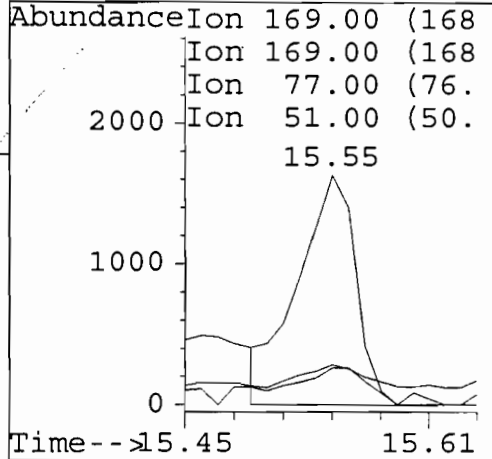
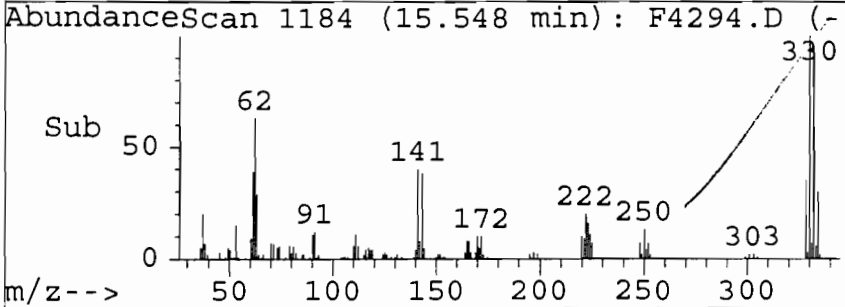




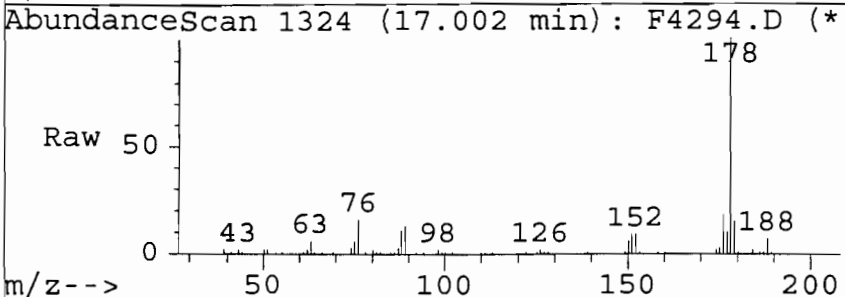
#54
 n-Nitrosodiphenyl Amine(56G)
 Concen: 0.66 ng/uL
 RT: 15.55 min Scan# 1184
 Delta R.T. 0.18 min
 Lab File: F4294.D
 Acq: 3/30/99 @ 17:46



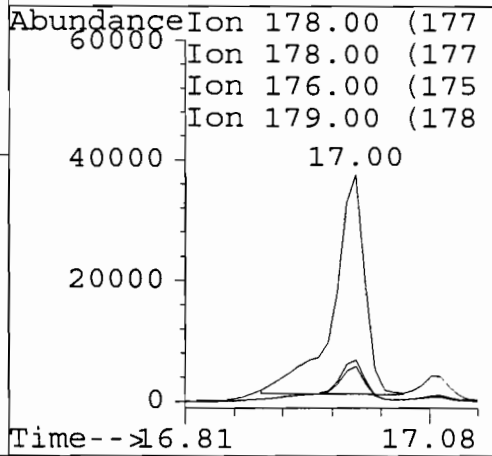
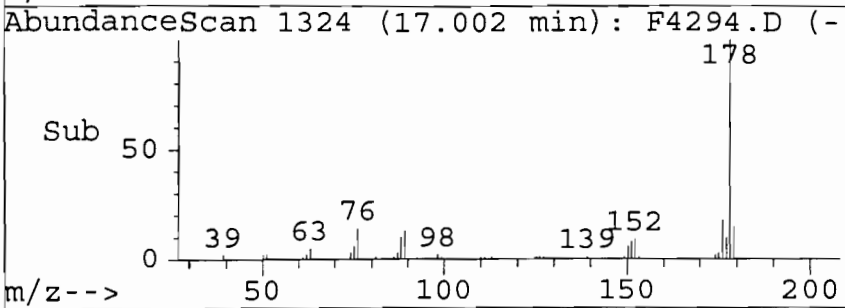
Tgt Ion	Ratio	Lower	Upper
169	100		
169	100.0	80.0	120.0
77	0.0	122.5	162.5#
51	18.8	65.7	105.7#

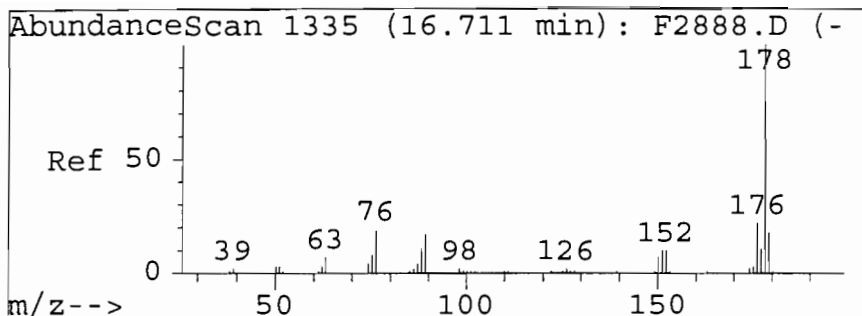


#61
 Phenanthrene(61G)
 Concen: 5.51 ng/uL
 RT: 17.00 min Scan# 1324
 Delta R.T. -0.17 min
 Lab File: F4294.D
 Acq: 3/30/99 @ 17:46



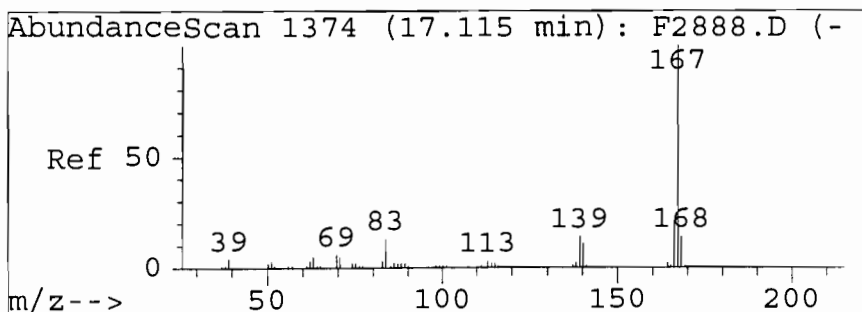
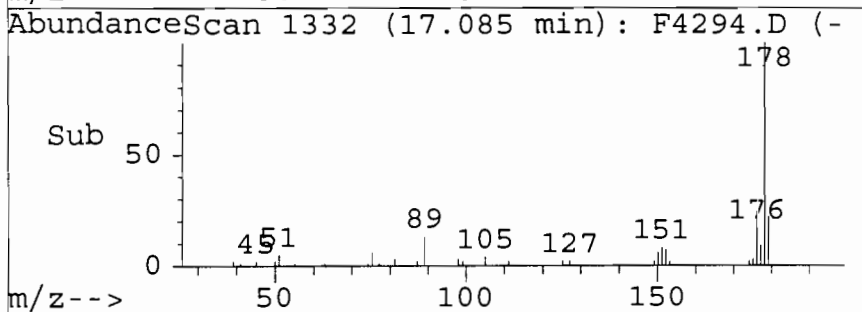
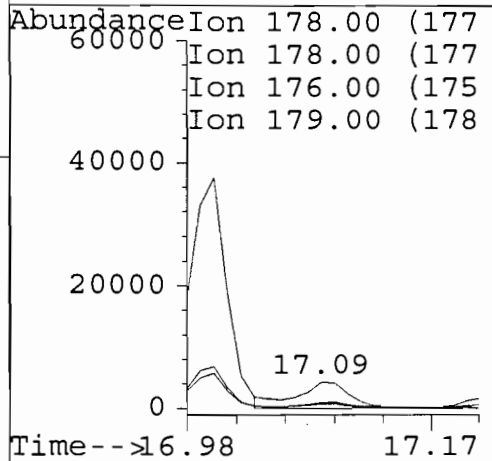
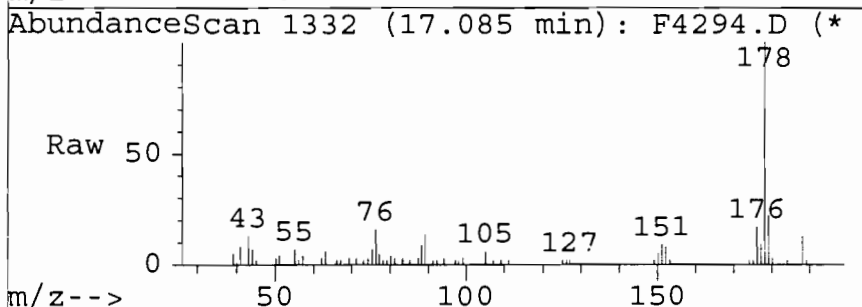
Tgt Ion	Ratio	Lower	Upper
178	100		
178	100.0	50.0	150.0
176	0.0	0.0	69.5
179	14.7	0.0	64.7





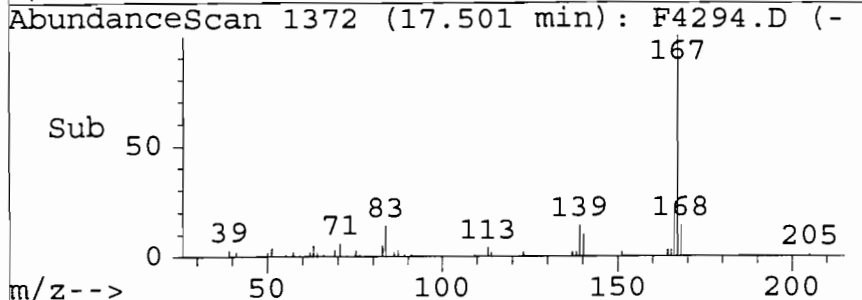
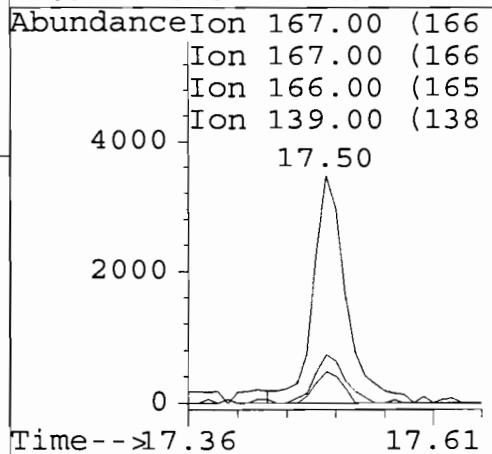
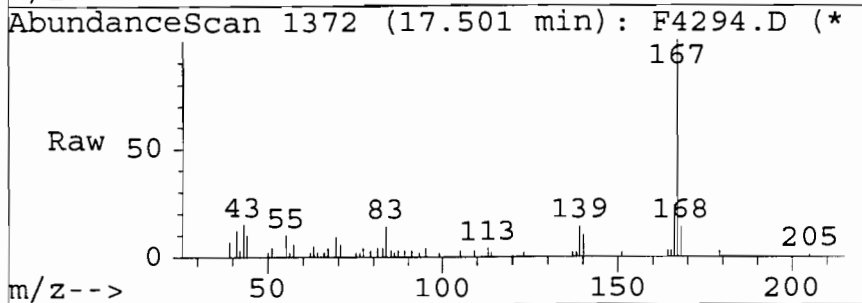
#62
 Anthracene (62G)
 Concen: 0.76 ng/uL m
 RT: 17.09 min Scan# 1332
 Delta R.T. -0.09 min
 Lab File: F4294.D
 Acq: 3/30/99 @ 17:46

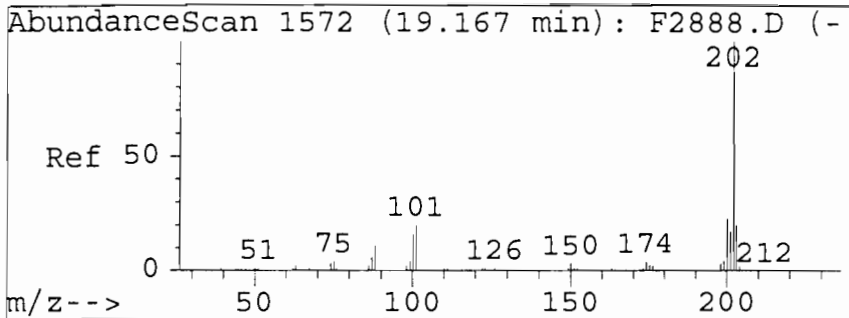
Tgt Ion	Resp	Lower	Upper
178	12458		
178	100		
178	100.0	50.0	150.0
176	17.0	9.6	28.7
179	22.4	7.3	21.9#



#63
 Carbazole (21S)
 Concen: 0.58 ng/uL
 RT: 17.50 min Scan# 1372
 Delta R.T. -0.07 min
 Lab File: F4294.D
 Acq: 3/30/99 @ 17:46

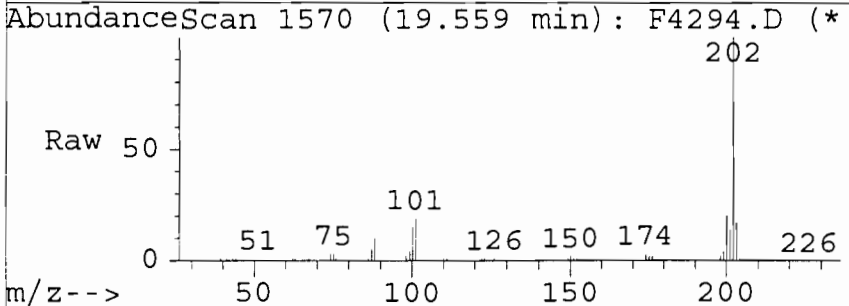
Tgt Ion	Resp	Lower	Upper
167	8588		
167	100		
167	100.0	50.0	150.0
166	0.0	0.0	71.8
139	0.0	0.0	64.4



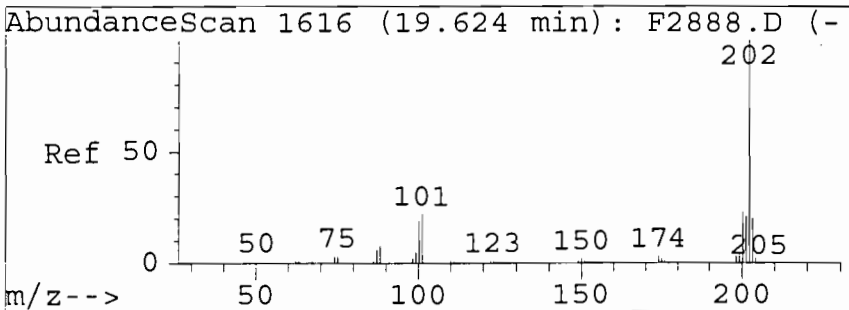
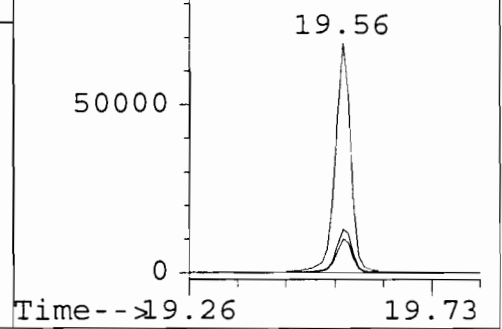
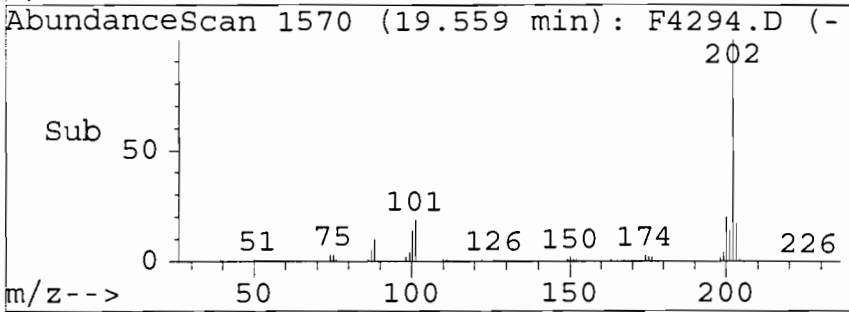


#65
 Fluoranthene(64G)
 Concen: 8.13 ng/uL
 RT: 19.56 min Scan# 1570
 Delta R.T. -0.08 min
 Lab File: F4294.D
 Acq: 3/30/99 @ 17:46

Tgt Ion	Ratio	Lower	Upper
202	100		
202	100.0	50.0	150.0
101	0.0	0.0	63.1
100	0.0	0.0	60.9

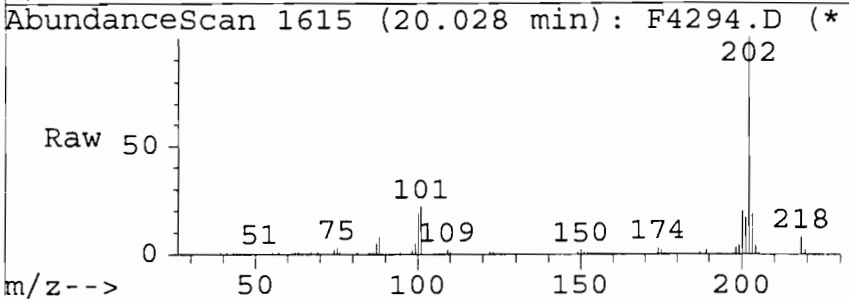


Abundance	Ion	Time
100000	202.00	19.56
100000	202.00	19.56
100000	101.00	19.56
100000	100.00	19.56

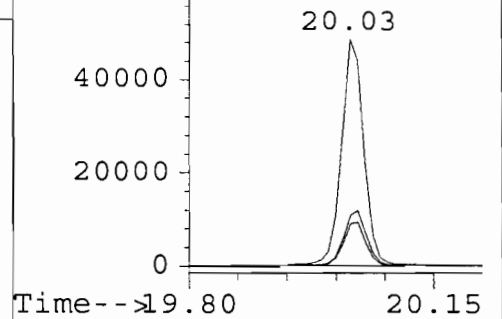
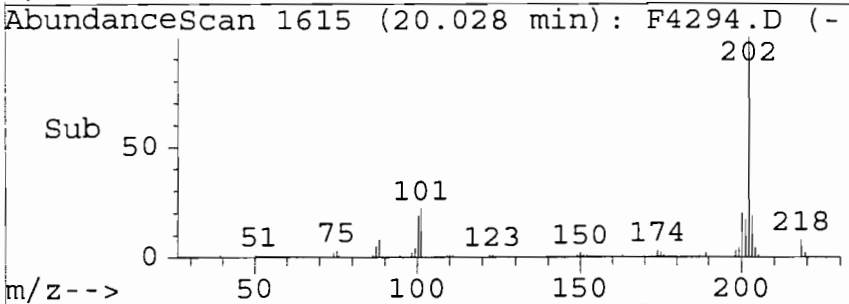


#68
 Pyrene(67G)
 Concen: 15.65 ng/uL
 RT: 20.03 min Scan# 1615
 Delta R.T. -0.09 min
 Lab File: F4294.D
 Acq: 3/30/99 @ 17:46

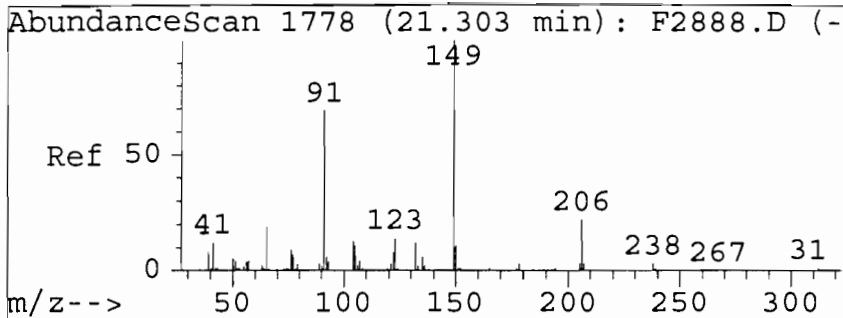
Tgt Ion	Ratio	Lower	Upper
202	100		
202	100.0	50.0	150.0
101	25.2	0.0	65.0
100	20.5	0.0	63.5



Abundance	Ion	Time
60000	202.00	20.03
60000	202.00	20.03
60000	101.00	20.03
60000	100.00	20.03

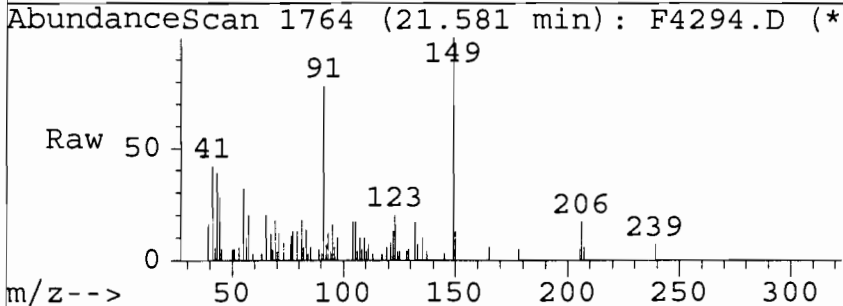


173



#70
 Butylbenzyl Phthalate (69G)
 Concen: 1.15 ng/uL
 RT: 21.58 min Scan# 1764
 Delta R.T. -0.07 min
 Lab File: F4294.D
 Acq: 3/30/99 @ 17:46

Tgt Ion	Ratio	Lower	Upper
149	100		
149	100.0	50.0	150.0
91	0.0	15.5	115.5#
206	14.4	0.0	67.1

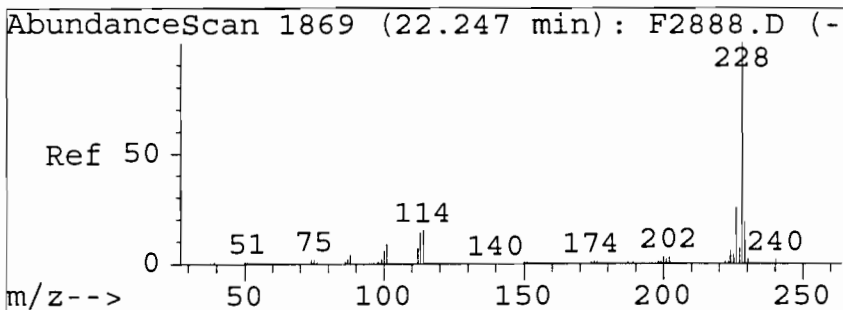
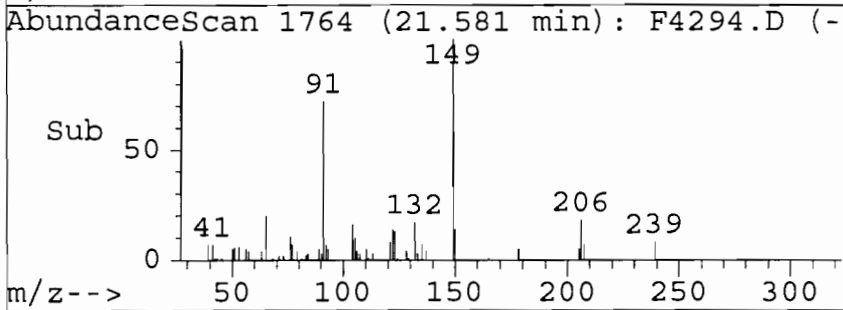
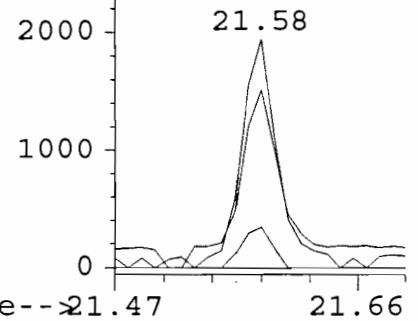


AbundanceIon 149.00 (148

3000 Ion 149.00 (148

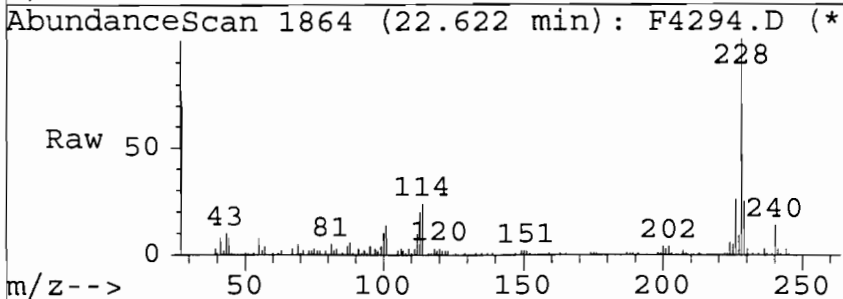
Ion 91.00 (90.

Ion 206.00 (205



#71
 Benzo- (a) -Anthracene (71G)
 Concen: 3.31 ng/uL m
 RT: 22.62 min Scan# 1864
 Delta R.T. -0.19 min
 Lab File: F4294.D
 Acq: 3/30/99 @ 17:46

Tgt Ion	Ratio	Lower	Upper
228	100		
228	100.0	50.0	150.0
226	25.7	0.0	77.1
229	25.3	0.0	68.9

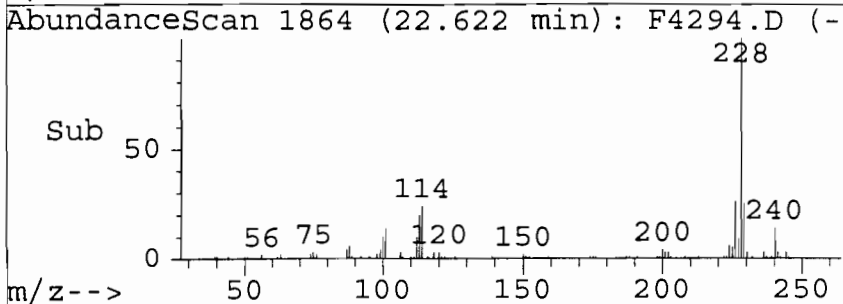
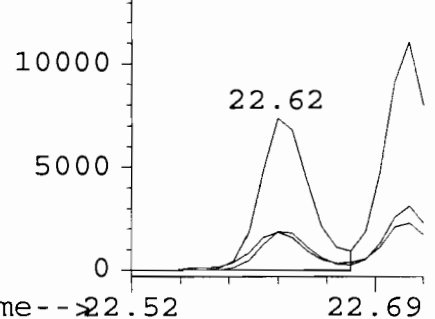


AbundanceIon 228.00 (227

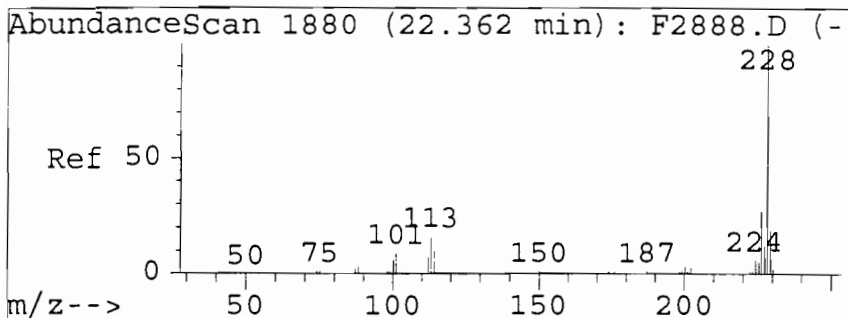
15000 Ion 228.00 (227

Ion 226.00 (225

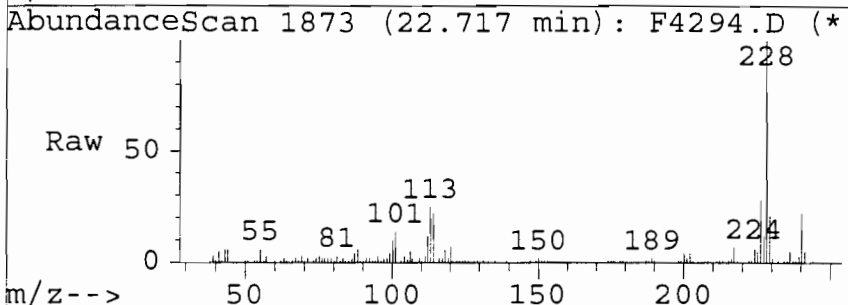
Ion 229.00 (228



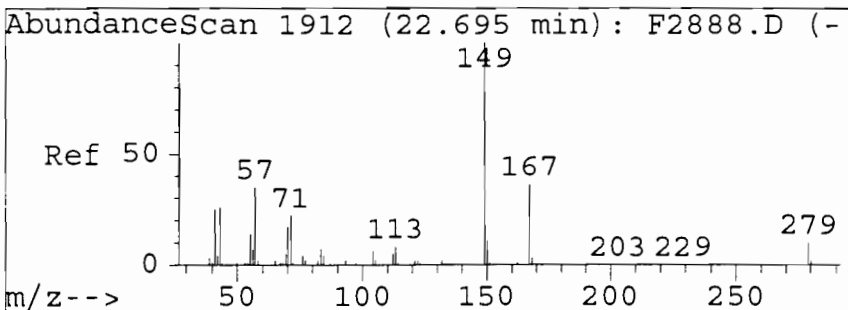
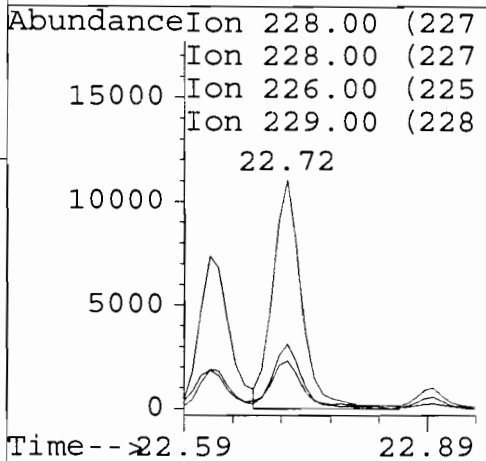
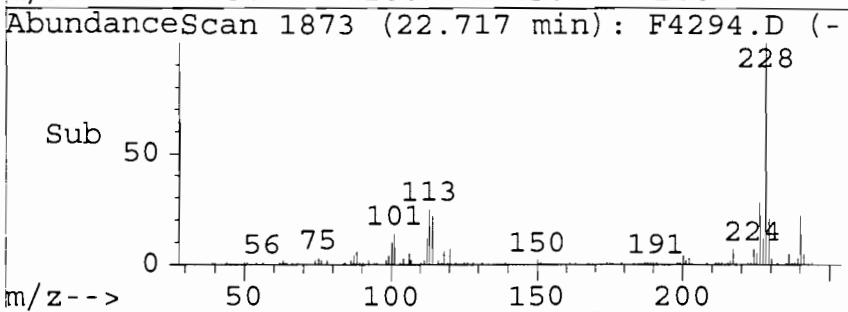
174



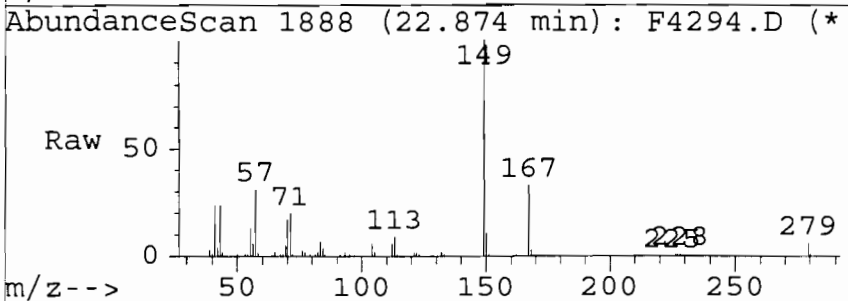
#73
 Chrysene(72G)
 Concen: 4.65 ng/uL
 RT: 22.72 min Scan# 1873
 Delta R.T. -0.09 min
 Lab File: F4294.D
 Acq: 3/30/99 @ 17:46



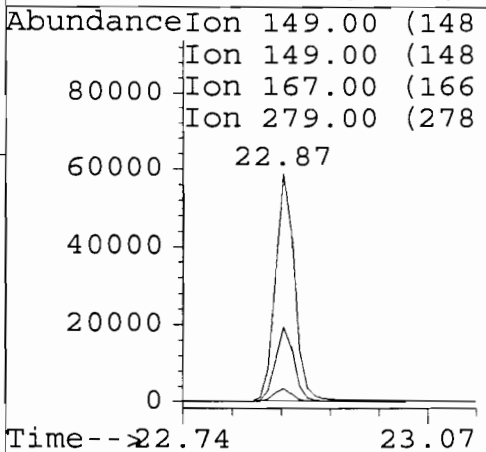
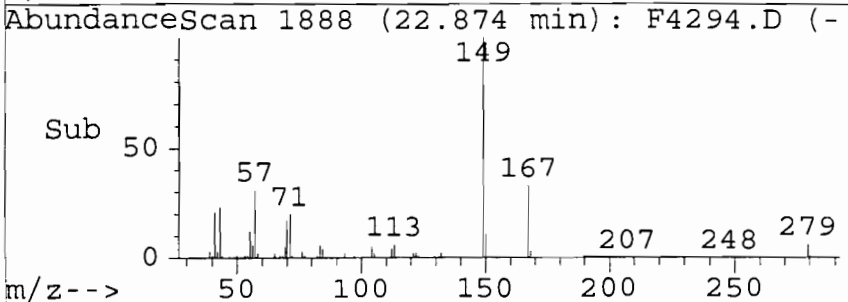
Tgt Ion	Resp	Lower	Upper
228	26887		
228	100		
228	100.0	50.0	150.0
226	0.0	0.0	79.7
229	24.8	0.0	69.2



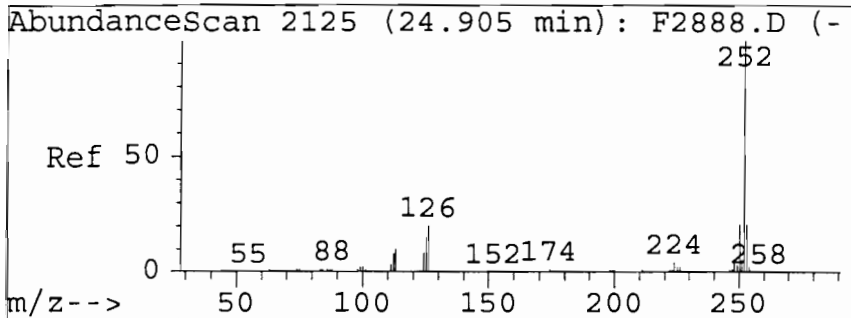
#74
 Bis (2-Ethylhexyl) Phthalate(
 Concen: 23.16 ng/uL
 RT: 22.87 min Scan# 1888
 Delta R.T. -0.06 min
 Lab File: F4294.D
 Acq: 3/30/99 @ 17:46



Tgt Ion	Resp	Lower	Upper
149	103416		
149	100		
149	100.0	50.0	150.0
167	32.6	0.0	80.6
279	5.8	0.0	56.6

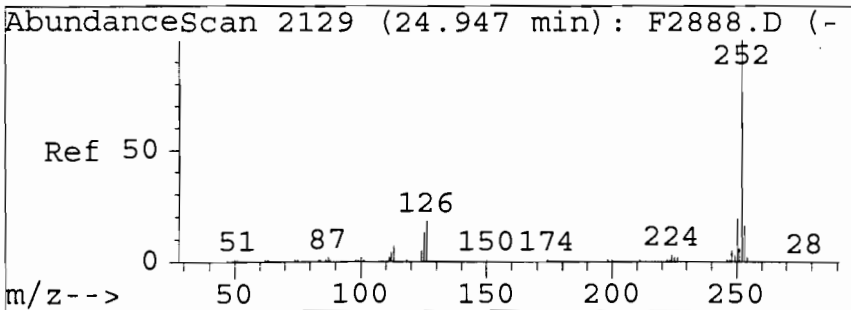
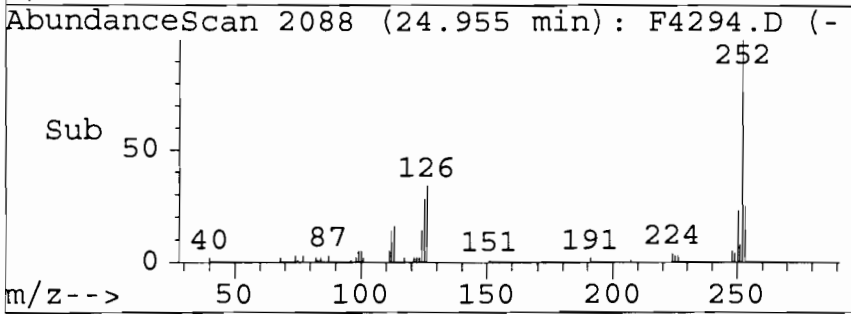
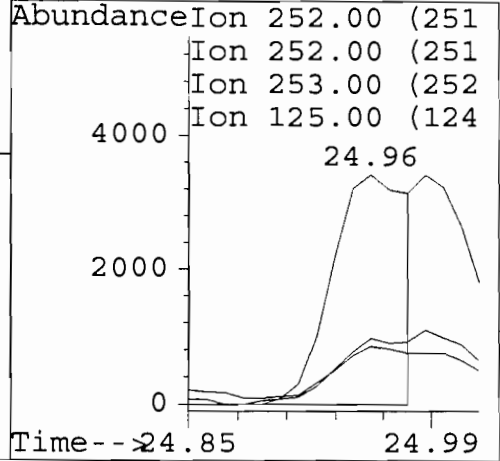
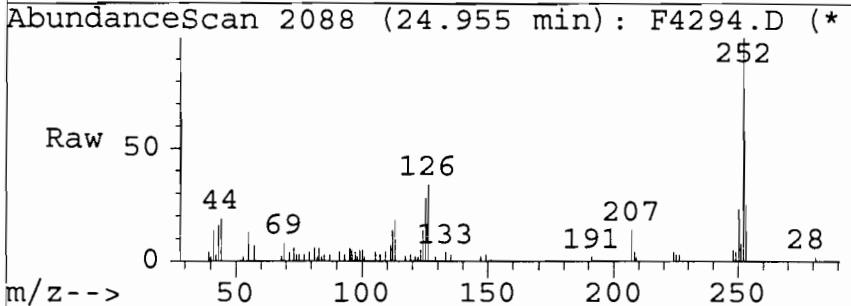


175



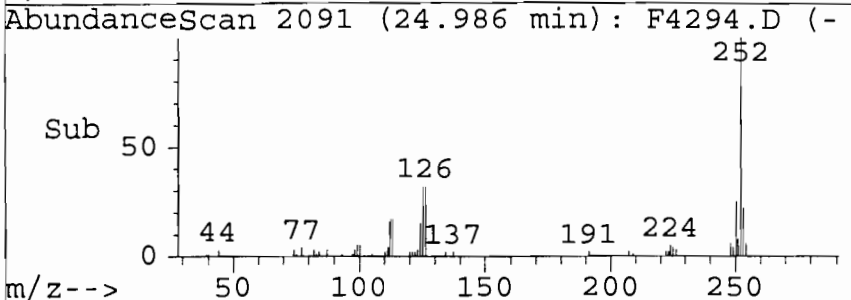
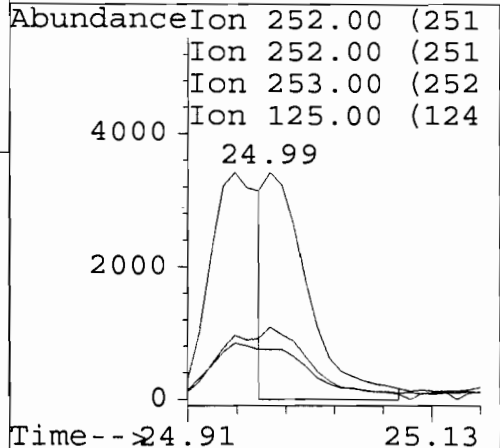
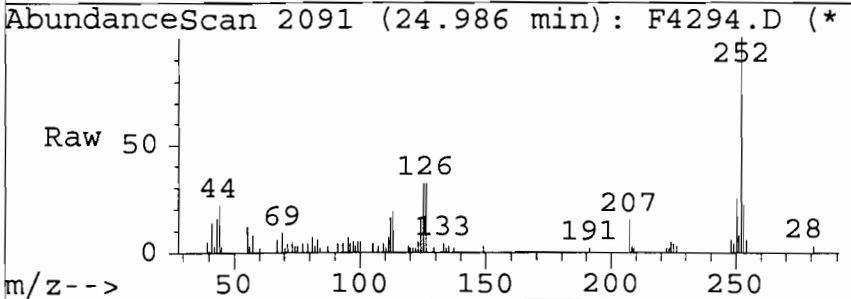
#77
 Benzo-(b)-Fluoranthene (76G)
 Concen: 3.97 ng/uL
 RT: 24.96 min Scan# 2088
 Delta R.T. -0.14 min
 Lab File: F4294.D
 Acq: 3/30/99 @ 17:46

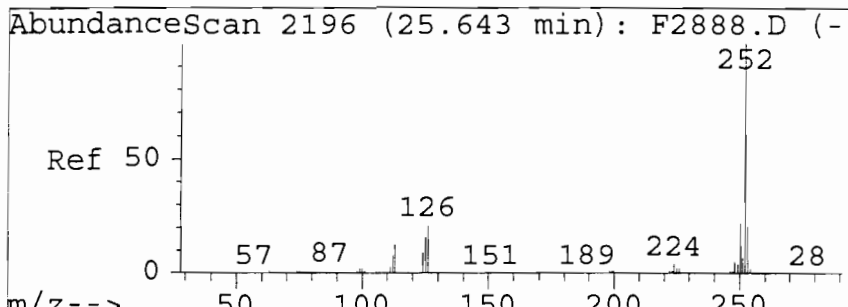
Tgt Ion	Ratio	Lower	Upper
252	100		
252	100.0	50.0	150.0
253	20.9	0.0	70.8
125	0.0	0.0	62.9



#78
 Benzo-(k)-Fluoranthene (77G)
 Concen: 3.29 ng/uL m
 RT: 24.99 min Scan# 2091
 Delta R.T. -0.11 min
 Lab File: F4294.D
 Acq: 3/30/99 @ 17:46

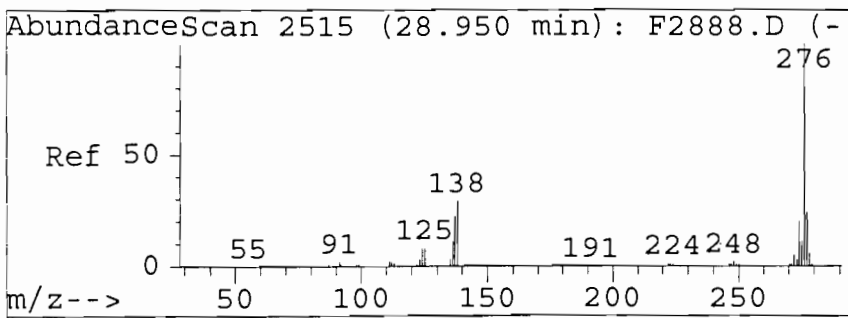
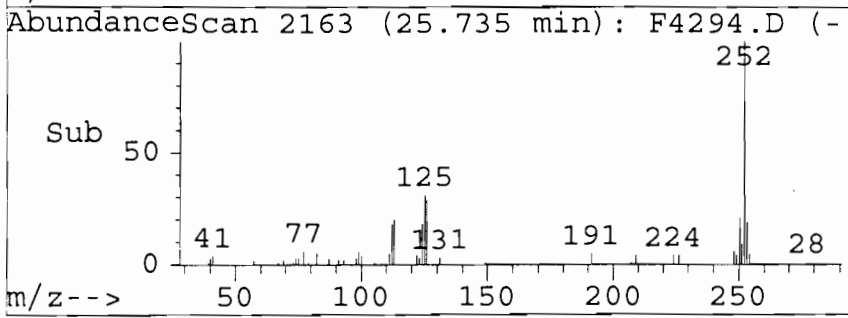
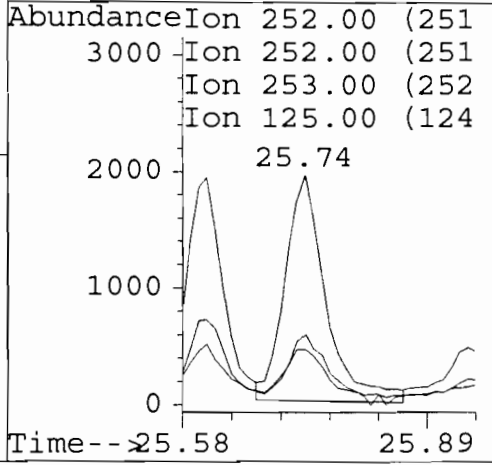
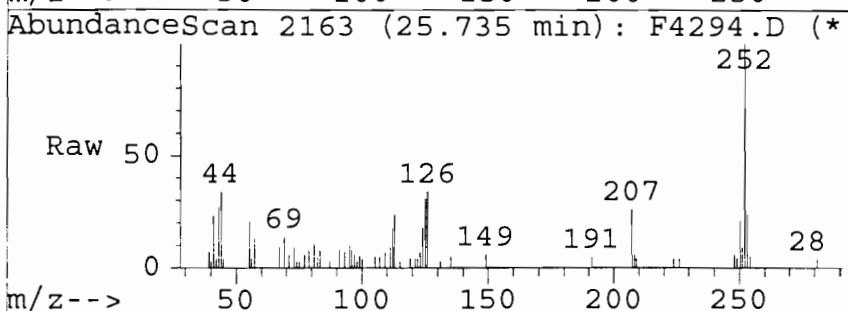
Tgt Ion	Ratio	Lower	Upper
252	100		
252	100.0	50.0	150.0
253	22.1	0.0	71.0
125	32.1	0.0	60.3





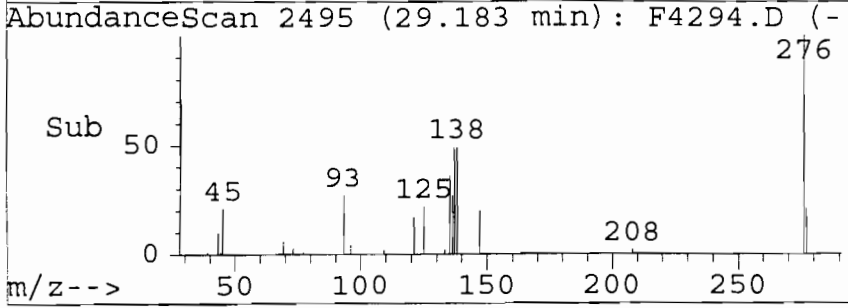
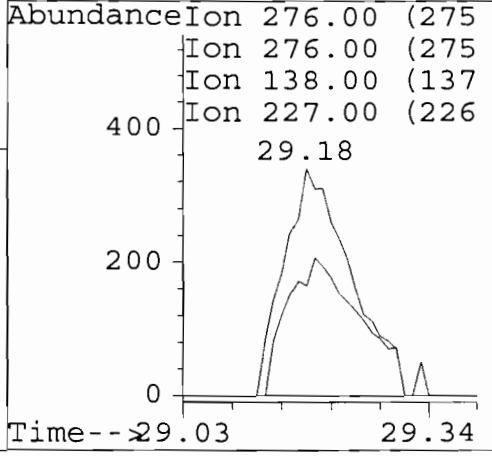
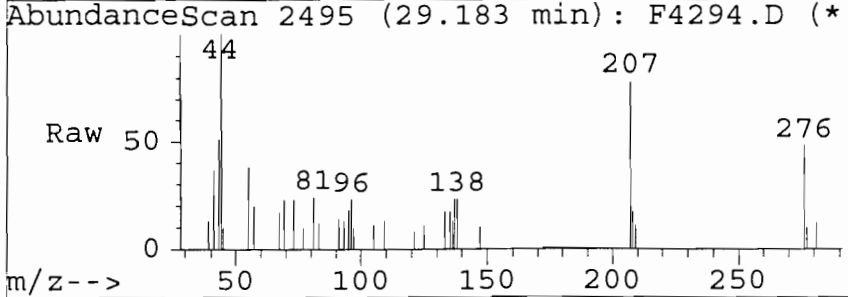
#79
 Benzo- (a) -Pyrene (78G)
 Concen: 3.05 ng/uL
 RT: 25.74 min Scan# 2163
 Delta R.T. -0.09 min
 Lab File: F4294.D
 Acq: 3/30/99 @ 17:46

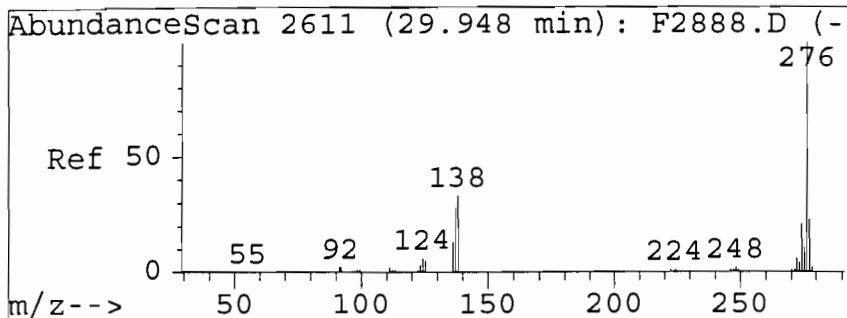
Tgt Ion	Resp	Lower	Upper
252	6897		
252	100		
252	100.0	50.0	150.0
253	28.5	0.0	70.9
125	0.0	0.0	64.5



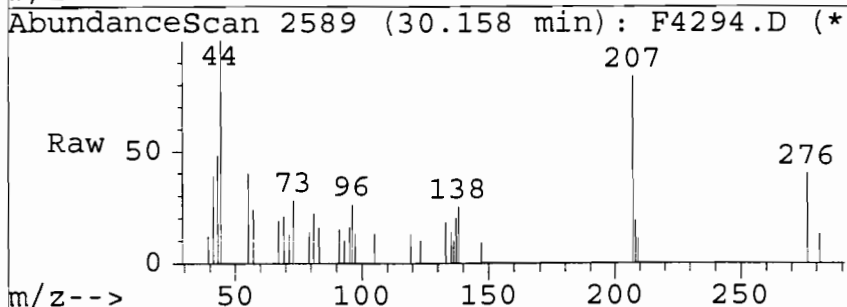
#80
 Indeno- (1,2,3-cd) -Pyrene (79G)
 Concen: 1.37 ng/uL
 RT: 29.18 min Scan# 2495
 Delta R.T. -0.11 min
 Lab File: F4294.D
 Acq: 3/30/99 @ 17:46

Tgt Ion	Resp	Lower	Upper
276	2006		
276	100		
276	100.0	50.0	150.0
138	66.2	0.0	74.7
227	0.0	0.0	50.0

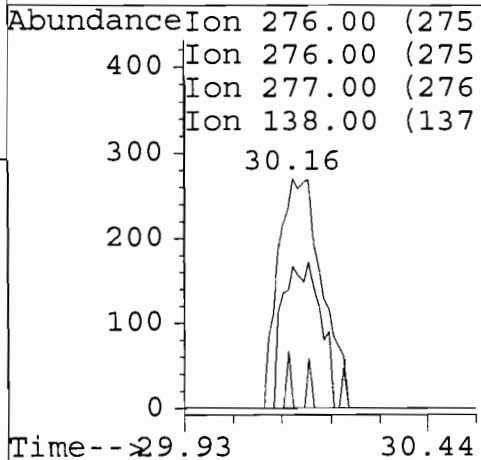
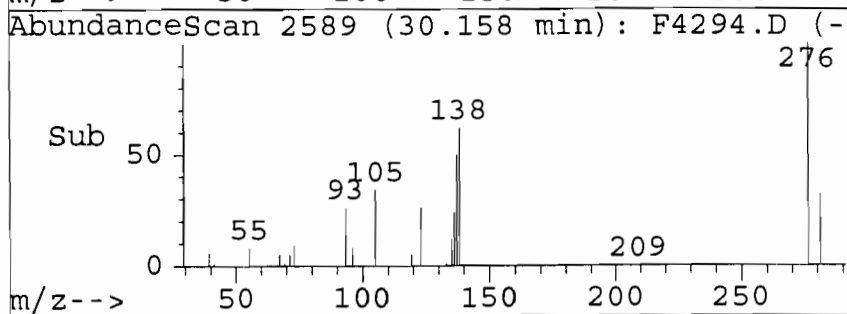




#82
 Benzo-(g,h,i)- Perylene(81G)
 Concen: 1.50 ng/uL m
 RT: 30.16 min Scan# 2589
 Delta R.T. -0.12 min
 Lab File: F4294.D
 Acq: 3/30/99 @ 17:46



Tgt Ion	Resp:	1688
Ion	Ratio	Lower Upper
276	100	
276	100.0	50.0 150.0
277	0.0	0.0 73.7
138	61.9	0.0 77.0



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ANALab, Inc. - Randolph Facility
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
APRIL 12, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

DIESEL RANGE ORGANIC PETROLEUM HYDROCARBONS BY GC

Client: GCI
Sample Source: 960285
Sample Date: 03/11/99 At Lab Date: 03/15/99
Sample ID: DW-6
Sampled by: Customer

Lab Number: 306395
Sample wt/vol: 25 Final volume: 1
Sample Matrix: Soil Column used: RTX-5
Percent Moisture: 28.28% Dilution Factor 1
Analysis Date: 04/12/99
Extraction Date: 04/08/99

Parameter	Result mg/kg	Method Blank mg/kg	Minimum Detection Limit mg/kg	Practical Quantitation Limit mg/kg
DRO Petroleum Hydrocarbons	28	U	5.6	5.6

U = Not detected
Results reported as mg/kg (ppm) are reported on a dry weight basis.

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Thomas Mancuso, Lab Mgr.
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LOU

Data File : E:\1\DATA\DA1563.D

Vial: 26

Acq On : 12 Apr 99 13:22

Operator:

Sample : 306395

Inst : GC 5890_4

Misc : QDR8195

Multiplr: 1.00

IntFile : EVENTS1.E

Quant Time: Apr 12 14:09 1999 Quant Results File: DROSOIL.RES

Quant Method : E:\1\METHODS\DROSOIL.M (Chemstation Integrator)

Title : GC TPH DRO METHOD - Total Area Quantitation

Last Update : Mon Apr 12 09:21:56 1999

Response via : Initial Calibration

DataAcq Meth : DROSOIL.M

Volume Inj. : 1 µl injection

Signal Phase : Restek RTx-5

Signal Info : 30 M x 0.53mm x 0.25µm

Compound

R.T.

Response

Conc Units

System Monitoring Compounds

Compound	R.T.	Response	Conc Units
1) S Ortho-Terphenyl	18.04	1438328	20.464 µg/ml
Spiked Amount 20.000		Recovery =	102.32%

Target Compounds

2) HM DIESEL RANGE	17.00	35092490	504.961 µg/ml
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Quantitation Report

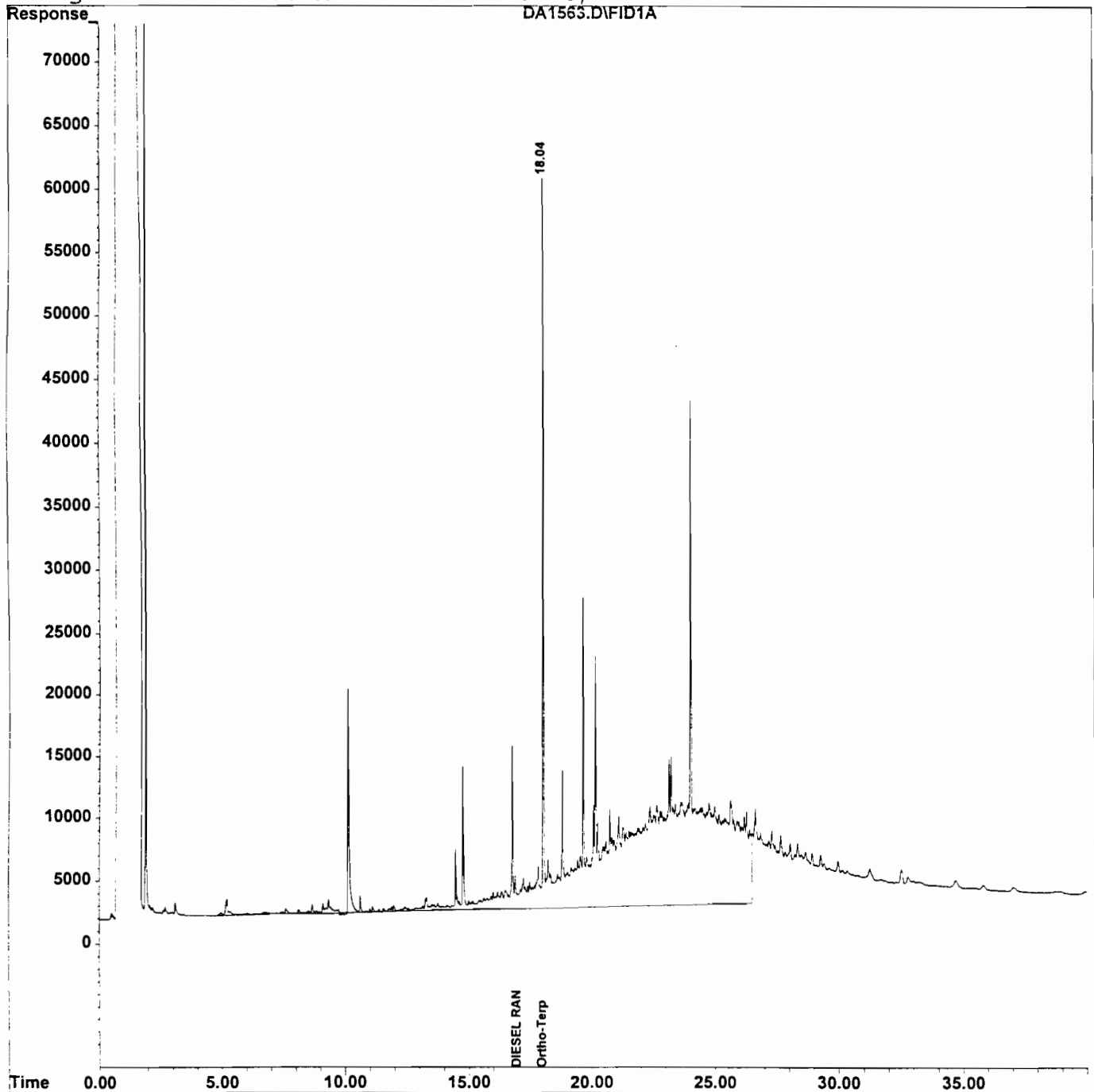
Data File : E:\1\DATA\DA1563.D
Acq On : 12 Apr 99 13:22
Sample : 306395
Misc : QDR8195
IntFile : EVENTS1.E

Vial: 26
Operator:
Inst : GC 5890_4
Multiplr: 1.00

Quant Time: Apr 12 14:09 1999 Quant Results File: DROSOIL.RES

Quant Method : E:\1\METHODS\DROSOIL.M (Chemstation Integrator)
Title : GC TPH DRO METHOD - Total Area Quantitation
Last Update : Mon Apr 12 09:21:56 1999
Response via : Multiple Level Calibration
DataAcq Meth : DROSOIL.M

Volume Inj. : 1 µl injection
Signal Phase : Restek RTX-5
Signal Info : 30 M x 0.53mm x 0.25µm



ANALab, Inc. - Randolph Facility
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
APRIL 6, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 306395
Client: GCI
Sample source: 960285
Sample ID: DW-6
Sample date: 03/11/99
Sampled by: Customer
At lab date: 03/15/99
Matrix: SOIL
Percent Moisture: 28.28 %

ICP/FURNACE Initial weight: 1.02 g ICP/FURNACE Final volume: 100 ml
Mercury Initial weight: 0.51 g Mercury Final volume: 100 ml
Results in mg/Kg dry weight basis.

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Dilution Factor	Analysis Date
Arsenic	0.957	U	0.547	1	03/23/99
Barium	20.8	U	0.683	1	03/23/99
Cadmium	U	U	0.683	1	03/23/99
Chromium	4.10	U	0.683	1	03/23/99
Lead	8.88	U	0.547	1	03/23/99
Mercury	U	U	0.055	1	03/22/99
Selenium	0.547	U	0.547	1	03/23/99
Silver	U	U	0.683	1	03/23/99

U = Not Detected

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Thomas Mancuso, Lab Mgr.
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ROB

ANALab, Inc. - Randolph Facility
 1152 Route 10
 Randolph, NJ 07869
 973-584-0330, FAX: 973-584-0515
 MARCH 29, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

TARGET COMPOUND LIST - VOLATILE ANALYSIS BY GC/MS

Lab Number: 306396 Data File: >A3694
 Client: GCI
 Sample source: 960285
 Sample ID: DW-7
 Sample date: 03/11/99
 Sampled by: Customer Analysis Date: 03/17/99 Column: DB-624
 At lab date: 03/15/99 Dilution Factor: 1
 Matrix: Soil Init Sample Wght= 5g Final volume= 5ml

Percent Moisture: 7.63%
 Initial sample weight DWB= 4.6185g

Conc. in Sample = (Conc. on Quant Report/Initial Sample Weight DWB)*Final Volume

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
Chloromethane	U	U	5.4	5
Bromomethane	U	U	5.4	4.1
Vinyl chloride	U	U	5.4	1.8
Chloroethane	U	U	5.4	1.9
Methylene chloride	U	U	5.4	2.9
Acetone	U	U	22	4.9
Carbon disulfide	U	U	5.4	1.8
1,1-Dichloroethene	U	U	5.4	1.8
1,1-Dichloroethane	U	U	5.4	1.5
trans-1,2-Dichloroethene	U	U	5.4	1.8
cis-1,2-Dichloroethene	U	U	5.4	1.8
Chloroform	U	U	5.4	1.7
1,2-Dichloroethane	U	U	5.4	2.1
2-Butanone	U	U	22	2.6
1,1,1-Trichloroethane	U	U	5.4	0.54
Carbon tetrachloride	U	U	5.4	0.65
Bromodichloromethane	U	U	5.4	0.65
1,2-Dichloropropane	U	U	5.4	0.65
cis-1,3-Dichloropropene	U	U	5.4	0.54
Trichloroethene	U	U	5.4	0.65
Dibromochloromethane	U	U	5.4	0.65
1,1,2-Trichloroethane	U	U	5.4	0.54
Benzene	U	U	5.4	0.54
trans-1,3-Dichloropropene	U	U	5.4	0.65
Bromoform	U	U	5.4	0.87
4-Methyl-2-pentanone	U	U	22	1.2
2-Hexanone	U	U	22	1.3
Tetrachloroethene	U	U	5.4	0.76
1,1,2,2-Tetrachloroethane	U	U	5.4	0.54
Toluene	U	U	5.4	0.87
Chlorobenzene	U	U	5.4	0.65
Ethylbenzene	U	U	5.4	0.76
Styrene	U	U	5.4	1.1
p&m-Xylene	U	U	5.4	0.97
o-Xylene	U	U	5.4	0.97
total Xylenes	U	U	5.4	0.97

ug/kg = micrograms/kilogram or ppb

Results are in ug/kg (ppb); they are reported on a dry weight basis.

ND: Not Determined.

IND: Indeterminable.

U: Indicates a compound was analyzed for but not detected at the PQL.

J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.

B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

QUANT REPORT

Page

Operator ID: AT1446 Quant Rev: 2 Quant Time: 990317 13:54
 Output File: >A3694::X1 Injected at: 990317 03:07
 Data File: >A3694::D1 Dilution Factor: 1.00000
 Name: INST 59701 SAMPLE Instrument ID: INST "A"
 Misc: 305396 ,S,F,S ,0.53mm x25m db-624

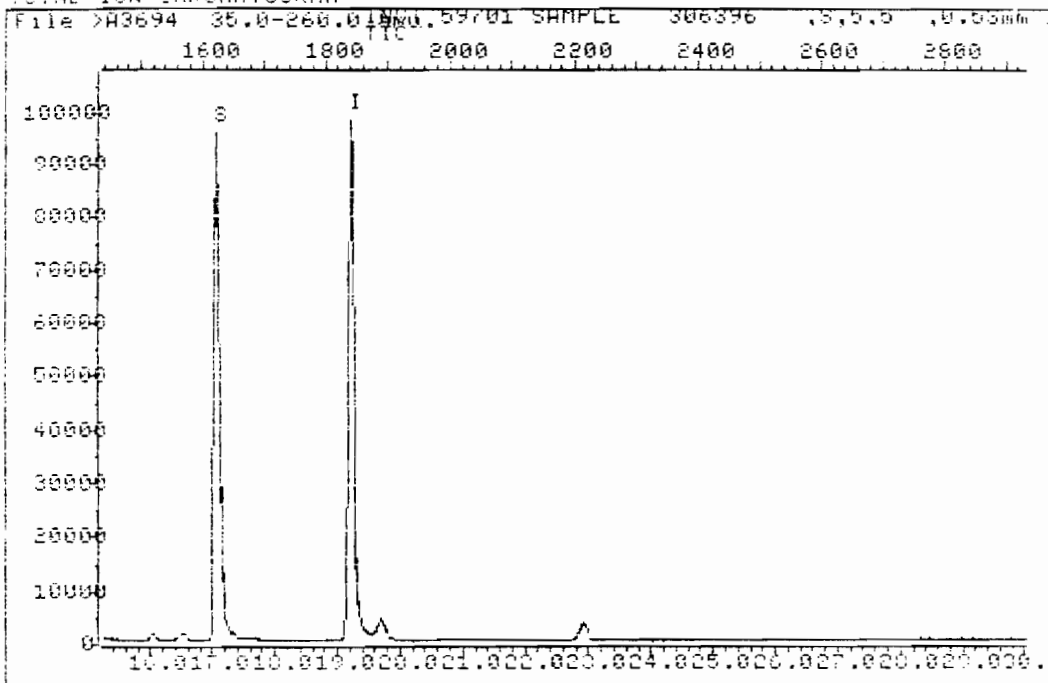
ID File: I086AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990312 14:07 Last Qual Time: none

Compound	R.T.	Concn	Area	Conc	Unit	Q
1) *Pentafluorobenzene	7.30	168.0	167761	50.00	ug/L	98
26) Dichlorofluoromethane	7.39	113.0	118866	59.02	ug/L	100
28) 1,2-Dichloroethane-d4	8.42	65.0	57154	57.40	ug/L	99
32) *1,4-Difluorobenzene	9.25	114.0	147580	56.00	ug/L	98
52) *Chlorobenzene-d5	14.82	117.0	141916	56.00	ug/L	97
54) Toluene-d8	12.07	98.0	147249	51.88	ug/L	96
67) Bromofluorobenzene	17.05	95.0	135121	47.14	ug/L	91
84) *1,4-Dichlorobenzene-d4	19.20	152.0	98416	50.00	ug/L	91

* Compound is ISTD

AT
 3/18/99

TOTAL ION CHROMATOGRAM



Data File: >A3694::D1 Quant Output File: >A3694::X1
 Name: INST 59701 SAMPLE Instrument ID: INST "A"
 Misc: 306396 ,S,S,S ,0.53mm x75m db-624

Id File: ID36AS::RS
 Title: Method 8260R IDFILE
 Last Calibration: 990312 14:07 Last Qca: Time: none

Operator ID: AT1446
 Quant Time : 990317 23:34
 Injected at: 990317 23:03

ANALab, Inc. - Randolph Facility
 1152 Route 10
 Randolph, NJ 07869
 973-584-0330, FAX: 973-584-0515
 MARCH 31, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

TARGET COMPOUND LIST - BASE/NEUTRAL FRACTION ANALYSIS BY GC/MS

Lab Number: 306396 Data File: >F4296
 Client: GCI
 Sample source: 960285
 Sample ID: DW-7
 Sample date: 03/11/99 Extracted Date: 03/19/99
 Sampled by: Customer Analysis Date: 03/30/99 Column: 30m SPB-5
 At lab date: 03/15/99 Dilution Factor: 1
 Percent Moisture: 7.63%
 Matrix: Soil Init Sample Wght= 30.02g Final volume= 1ml
 Initial sample weight DWB= 27.72947g

Conc. in Sample = (Conc. on Quant Report/Initial Sample Weight DWB)*Final Volume*1000

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
bis(2-Chloroethyl) ether	U	U	180	36
1,3-Dichlorobenzene	U	U	180	87
1,4-Dichlorobenzene	U	U	180	83
1,2-Dichlorobenzene	U	U	180	87
bis(2-Chloroisopropyl) ether	U	U	180	43
N-Nitroso-di-n-propylamine	U	U	180	36
Hexachloroethane	U	U	180	100
Nitrobenzene	U	U	180	36
Isophorone	U	U	180	36
bis(2-Chloroethoxy)methane	U	U	180	36
1,2,4-Trichlorobenzene	U	U	180	83
Naphthalene	U	U	180	72
4-Chloroaniline	U	U	180	36
Hexachlorobutadiene	U	U	180	36
2-Methylnaphthalene	U	U	180	76
Hexachlorocyclopentadiene	U	U	180	54
2-Chloronaphthalene	U	U	180	72
2-Nitroaniline	U	U	180	36
Dimethyl phthalate	U	U	180	170
Acenaphthylene	U	U	180	54
2,6-Dinitrotoluene	U	U	180	36
3-Nitroaniline	U	U	180	36
Acenaphthene	U	U	180	69
Dibenzofuran	U	U	180	54
2,4-Dinitrotoluene	U	U	180	36
Diethyl phthalate	U	U	180	83
4-Chlorophenyl phenyl ether	U	U	180	72
Fluorene	U	U	180	61
4-Nitroaniline	U	U	180	36
N-Nitrosodiphenylamine	U	U	180	36
4-Bromophenyl phenyl ether	U	U	180	69
Hexachlorobenzene	U	U	180	69
Phenanthrene	200	U	180	32
Anthracene	25J	U	180	29

(continued on next page)

(continued from previous page)

Lab Number: 306396
Client: GCI

Data File: >F4296

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
Di-n-butylphthalate	47J	U	180	90
Fluoranthene	260	U	180	22
Pyrene	430	U	180	18
Butyl benzylphthalate	54J	U	180	43
3,3'-Dichlorobenzidine	U	U	180	36
Benzo (a) anthracene	120J	U	180	18
Chrysene	160J	U	180	18
bis(2-Ethylhexyl)phthalate	1500	U	180	110
Di-n-octylphthalate	U	U	180	36
Benzo (b) fluoranthene	180	U	180	25
Benzo (k) fluoranthene	150J	U	180	25
Benzo (a) pyrene	140J	U	180	18
Indeno (1,2,3-cd) pyrene	82J	U	180	40
Dibenz (a,h) anthracene	U	U	180	18
Benzo (g,h,i) perylene	84J	U	180	18
Carbazole	20J	U	180	36

ug/kg = micrograms/kilogram or ppb

Results are in ug/kg (ppb); they are reported on a dry weight basis.

ND: Not Determined.
IND: Indeterminable.

U: Indicates a compound was analyzed for but not detected at the PQL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

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Thomas Mancuso, Lab Mgr.
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LOU

Quantitation Report

Data File : F:\RTE\BNA\F42_D\F4296.D
 Acq Time : 30 MAR 99 7:17 PM
 Sample :
 Misc : 306396 ,QC8167 M SPB-5 CAP COLUMN
 Quant Time: Mar 31 11:40 1999

Operator: AM9951
 Inst :
 Multiplr: 1.00

Method : C:\METHODS\CF4189.M
 Title : BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Mar 23 13:25:06 1999
 Response via : Multiple Level Calibration

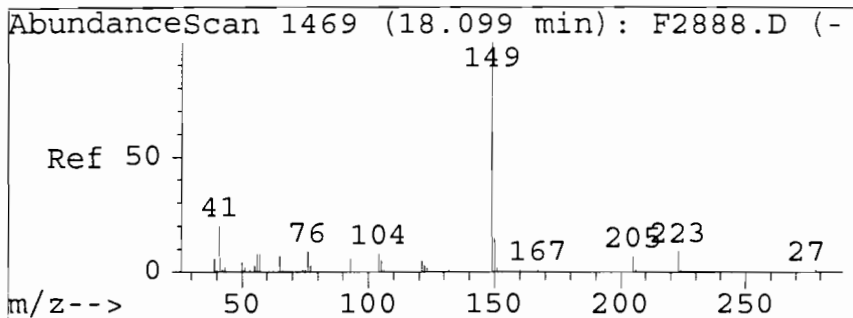
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-Dichlorobenzene	7.54	152	62317	40.00	ng/uL	-0.05
21) d8-Naphthalene	10.08	136	313592	40.00	ng/uL	-0.06
33) d10-Acenaphthene	13.82	164	152579	40.00	ng/uL	-0.07
57) d10-Phenanthrene	16.95	188	327735	40.00	ng/uL	-0.08
66) d12-Chrysene	22.66	240	106348	40.00	ng/uL	-0.10
75) d12-Perylene	25.88	264	45191	40.00	ng/uL	-0.12

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
4) 2-Fluorophenol	5.46	112	249680	162.91	ng/uL	81.45%
6) Phenol-d6	7.14	99	452878	238.55	ng/uL	119.28%
19) Nitobenzene-d5	8.72	82	233365	111.99	ng/uL	111.99%
37) 2-Fluorobiphenyl	12.44	172	477290	84.66	ng/uL	84.66%
56) 2,4,6-Tribromophenol	15.55	330	129804	110.45	ng/uL	55.23%
69) Terphenyl-d14	20.44	244	293391	110.77	ng/uL	110.77%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) n-Nitrosodimethylamine	3.37	74	1477	1.52	ng/uL#	100
8) Phenol (5G)	7.16	94	6565	3.36	ng/uL#	72
17) n-Nitrosodipropyl Amine (16G)	8.72	70	33884	25.83	ng/uL#	48
42) 2,6-Dinitrotoluene (42G)	13.82	165	20305	9.63	ng/uL#	72
54) n-Nitrosodiphenyl Amine (56)	15.56	169	4616	1.09	ng/uL#	25
61) Phenanthrene (61G)	16.99	178	44127	5.48	ng/uL#	94
62) Anthracene (62G)	17.09	178	5733	0.69	ng/uLm ⁹⁴	94
63) Carbazole (21S)	17.50	167	4182	0.56	ng/uL#	89
64) Di-n-butyl Phthalate (63G)	18.39	149	10968	1.31	ng/uL#	97
65) Fluoranthene (64G)	19.56	202	64748	7.08	ng/uL#	94
68) Pyrene (67G)	20.03	202	49828	12.03	ng/uL#	92
70) Butylbenzyl Phthalate (69G)	21.57	149	3111	1.51	ng/uL	96
71) Benzo- (a) -Anthracene (71G)	22.63	228	11089	3.26	ng/uLm ⁹⁴	89
72) Chrysene (72G)	22.71	228	15713	4.52	ng/uL#	88
74) Bis (2-Ethylhexyl) Phthala	22.88	149	114967	42.82	ng/uL#	98
77) Benzo- (b) -Fluoranthene (76G)	24.96	252	8333	4.91	ng/uL#	90
78) Benzo- (k) -Fluoranthene (77G)	24.99	252	7171	4.03	ng/uLm ⁹⁴	91
79) Benzo- (a) -Pyrene (78G)	25.73	252	5812	3.95	ng/uL#	96
80) Indeno- (1,2,3-cd) -Pyrene (7	29.19	276	2160	2.27	ng/uL#	90
82) Benzo- (g,h,i) - Perylene (81	30.16	276	1698	2.32	ng/uL#	83

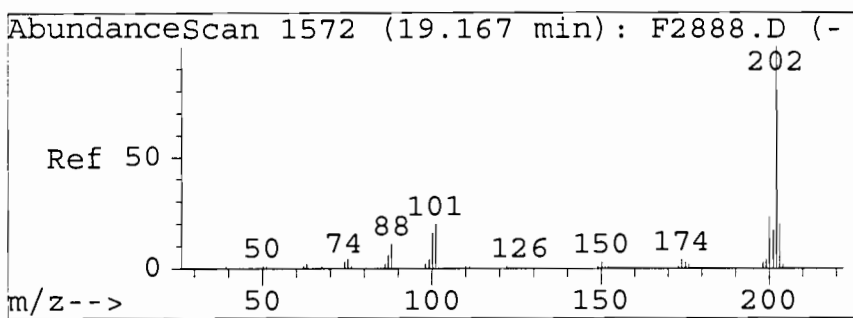
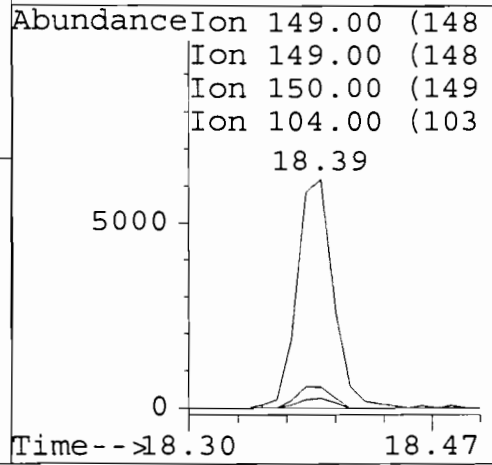
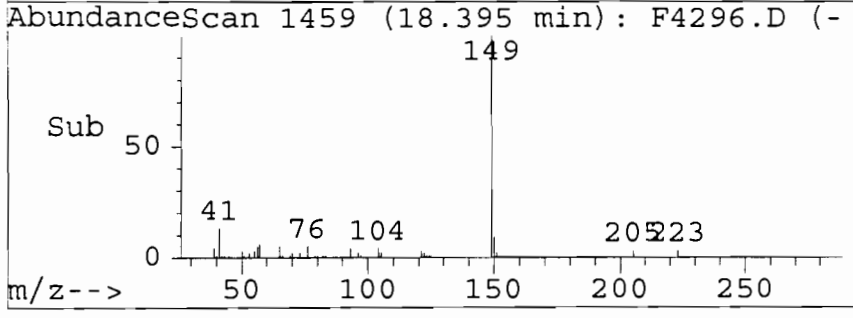
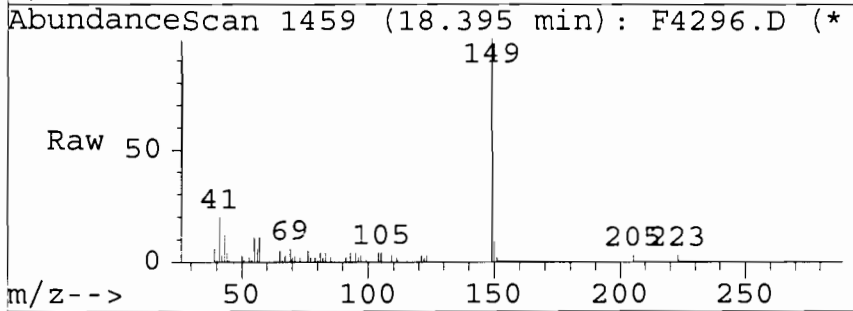
(#) = qualifier out of range (m) = manual integration

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	3.666	rBV	0.083	29861	3.645	3.728
2	4.194	rBV	0.145	94656	4.173	4.318
3	4.660	rVB	0.176	94726	4.608	4.784
4	4.899	rBV	0.135	2669720	4.784	4.919
5	5.365	rBV	0.083	881907	5.334	5.417
6	5.459	rVB	0.073	958287	5.417	5.490
7	5.511	rVV	0.073	30783	5.500	5.573
8	5.998	rVV	0.073	70715	5.977	6.050
9	6.060	rVV	0.062	79387	6.050	6.112
10	6.133	rVB	0.114	41418	6.112	6.226
11	6.910	rBV	0.114	923974	6.858	6.972
12	7.149	rBV	0.104	1469813	7.076	7.180
13	7.315	rVV	0.125	292349	7.273	7.398
14	7.544	rVB	0.114	369714	7.502	7.616
15	8.425	rBV	0.125	477571	8.383	8.508
16	8.716	rVB	0.094	754722	8.664	8.757
17	9.773	rBV	0.177	422218	9.731	9.908
18	10.085	rVB	0.145	705055	10.043	10.189
19	11.069	rBV	0.187	120937	11.038	11.225
20	12.095	rBV	0.156	450585	12.054	12.210
21	12.241	rVV	0.083	60906	12.210	12.293
22	12.377	rBV	0.052	46143	12.335	12.387
23	12.439	rVB	0.084	1388979	12.387	12.471
24	13.466	rBV	0.166	83659	13.435	13.601
25	13.819	rVB	0.094	648792	13.767	13.860
26	14.959	rVV	0.062	45840	14.928	14.990
27	15.177	rBV	0.177	53689	15.125	15.302
28	15.551	rBV	0.105	1111321	15.488	15.593
29	16.962	rVV	0.084	819980	16.900	16.983
30	16.994	rVV	0.073	107701	16.983	17.056
31	19.559	rBV	0.115	163736	19.507	19.621
32	20.027	rBV	0.104	144809	19.985	20.090
33	20.121	rVB	0.063	51837	20.090	20.152
34	20.444	rBV	0.147	902544	20.381	20.528
35	21.633	rVV	0.073	31068	21.602	21.675
36	22.417	rVB	0.125	37609	22.385	22.511
37	22.668	rBV	0.189	405304	22.594	22.783
38	22.877	rVB	0.126	413895	22.835	22.961
39	23.787	rBV	0.073	35056	23.756	23.829
40	25.889	rBV	0.168	150525	25.826	25.994



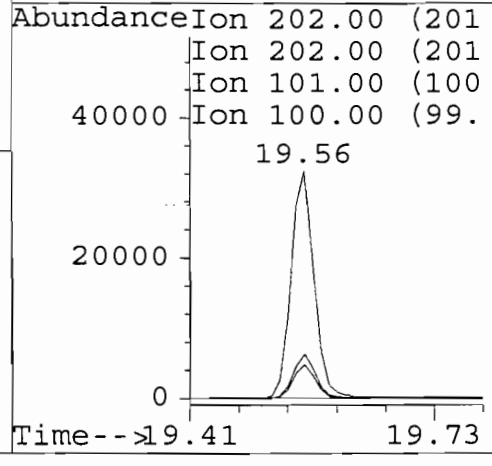
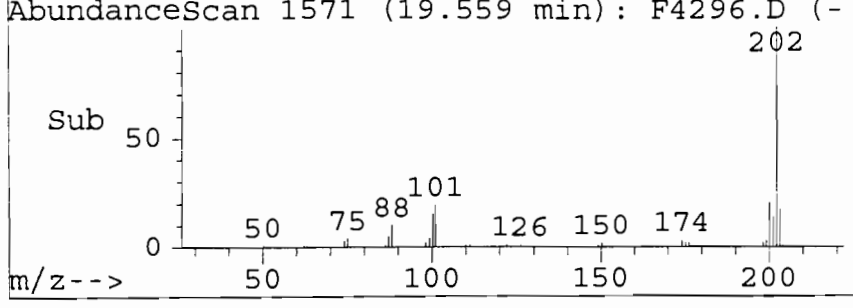
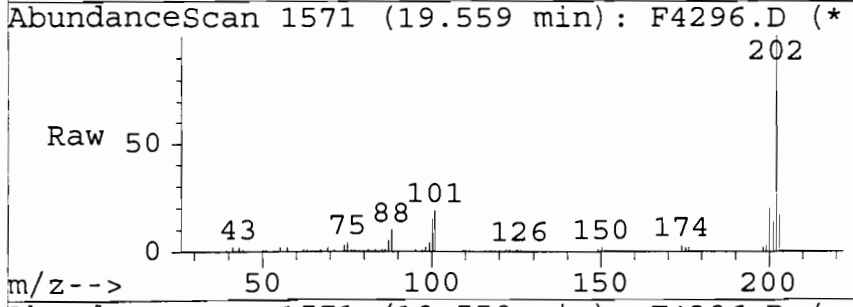
#64
 Di-n-butyl Phthalate(63G)
 Concen: 1.31 ng/uL
 RT: 18.39 min Scan# 1459
 Delta R.T. -0.07 min
 Lab File: F4296.D
 Acq: 3/30/99 @ 19:17

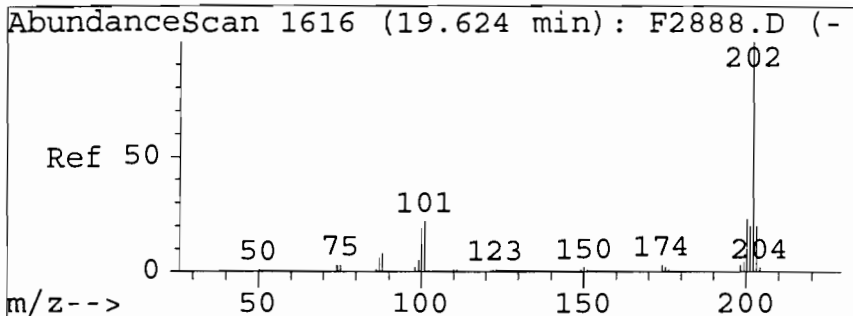
Tgt Ion	Ratio	Lower	Upper
149	100		
149	100.0	50.0	150.0
150	0.0	0.0	59.3
104	0.0	0.0	55.1



#65
 Fluoranthene(64G)
 Concen: 7.08 ng/uL
 RT: 19.56 min Scan# 1571
 Delta R.T. -0.08 min
 Lab File: F4296.D
 Acq: 3/30/99 @ 19:17

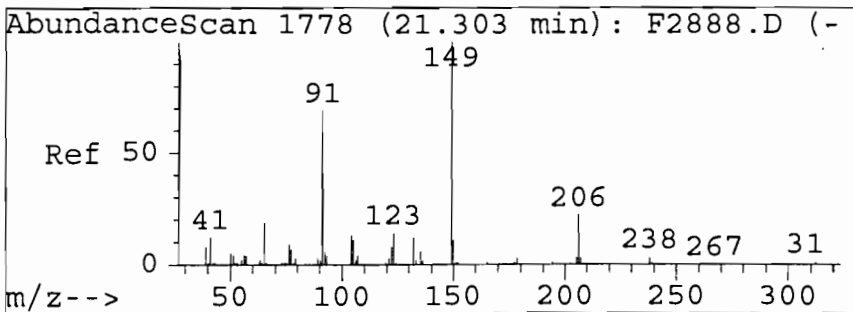
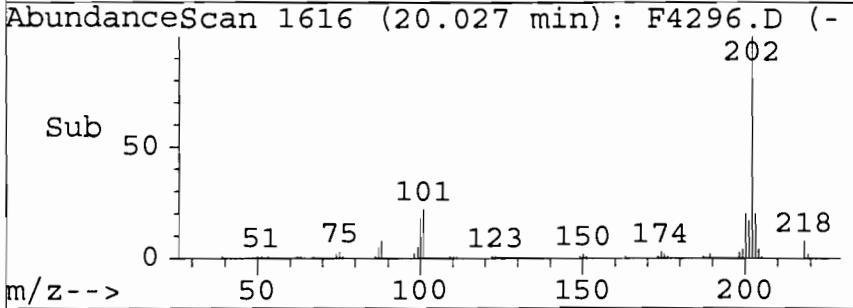
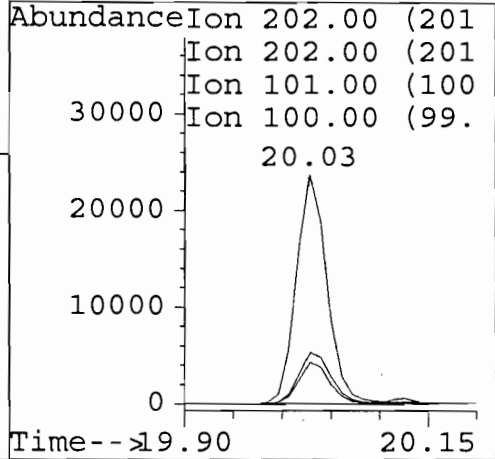
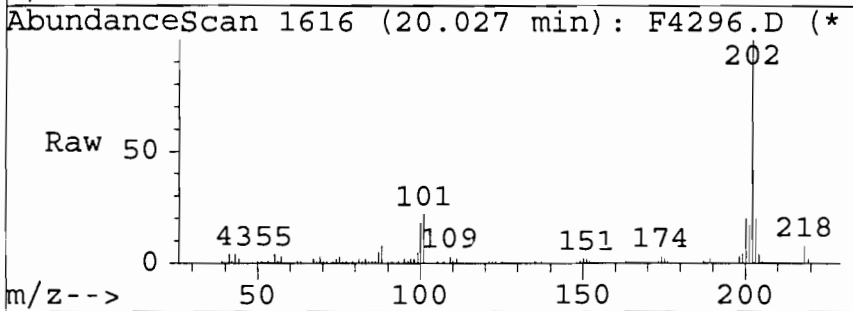
Tgt Ion	Ratio	Lower	Upper
202	100		
202	100.0	50.0	150.0
101	0.0	0.0	63.1
100	0.0	0.0	60.9





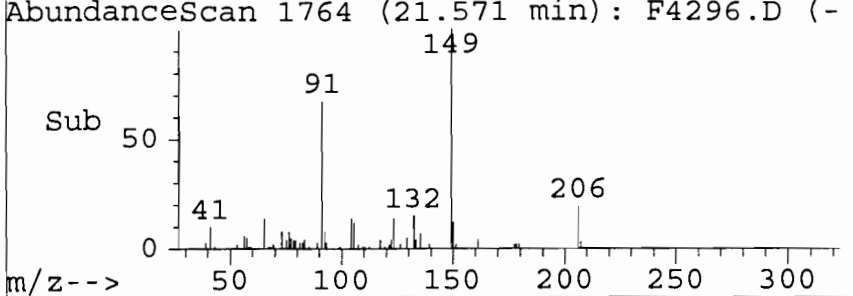
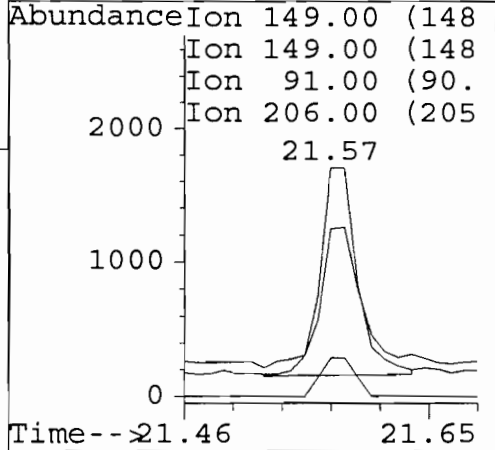
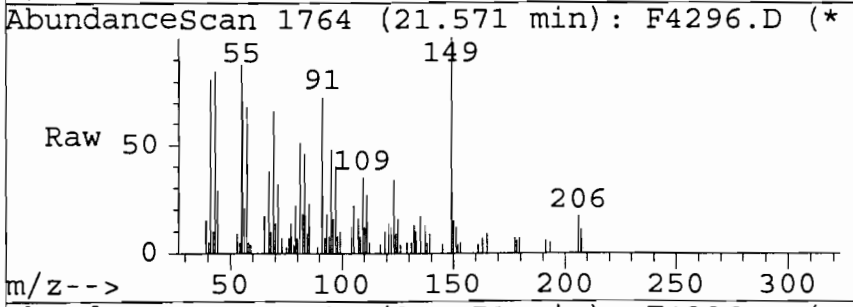
#68
 Pyrene (67G)
 Concen: 12.03 ng/uL
 RT: 20.03 min Scan# 1616
 Delta R.T. -0.09 min
 Lab File: F4296.D
 Acq: 3/30/99 @ 19:17

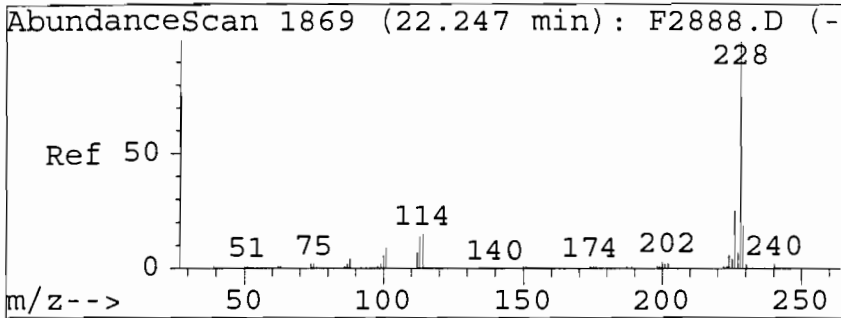
Tgt Ion	Ratio	Lower	Upper
202	100		
202	100.0	50.0	150.0
101	0.0	0.0	65.0
100	0.0	0.0	63.5



#70
 Butylbenzyl Phthalate (69G)
 Concen: 1.51 ng/uL
 RT: 21.57 min Scan# 1764
 Delta R.T. -0.08 min
 Lab File: F4296.D
 Acq: 3/30/99 @ 19:17

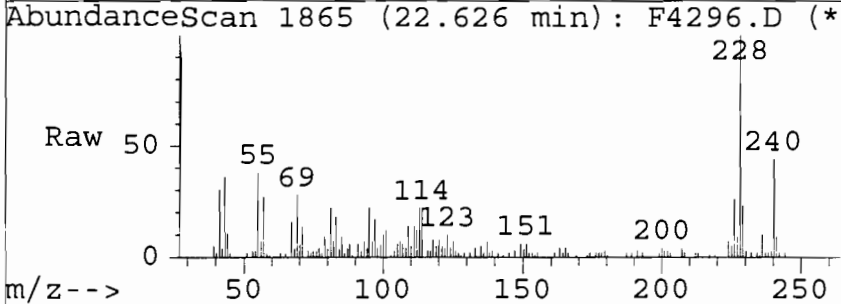
Tgt Ion	Ratio	Lower	Upper
149	100		
149	100.0	50.0	150.0
91	73.7	15.5	115.5
206	17.2	0.0	67.1



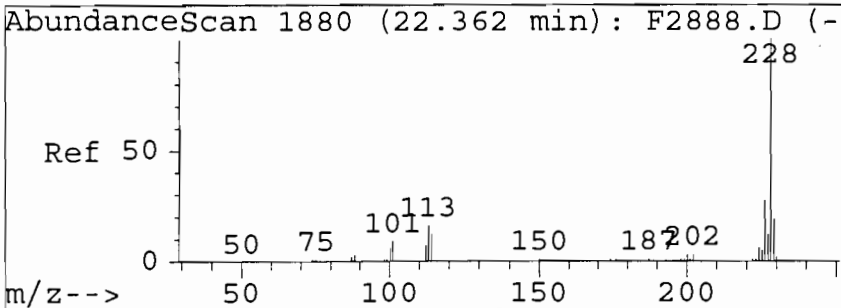
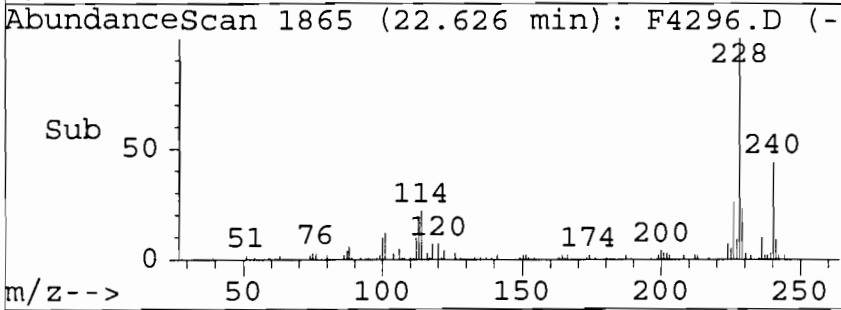
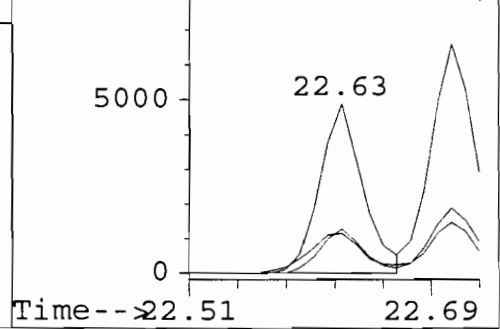


#71
 Benzo- (a) -Anthracene (71G)
 Concen: 3.26 ng/uL m
 RT: 22.63 min Scan# 1865
 Delta R.T. -0.19 min
 Lab File: F4296.D
 Acq: 3/30/99 @ 19:17

Tgt Ion	Ratio	Lower	Upper
228	100		
228	100.0	50.0	150.0
226	25.9	0.0	77.1
229	23.4	0.0	68.9

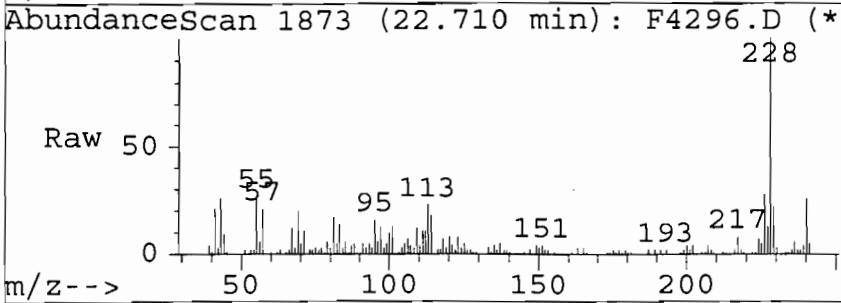


Abundance	Ion	Time
10000	228.00	(227
	228.00	(227
	226.00	(225
	229.00	(228

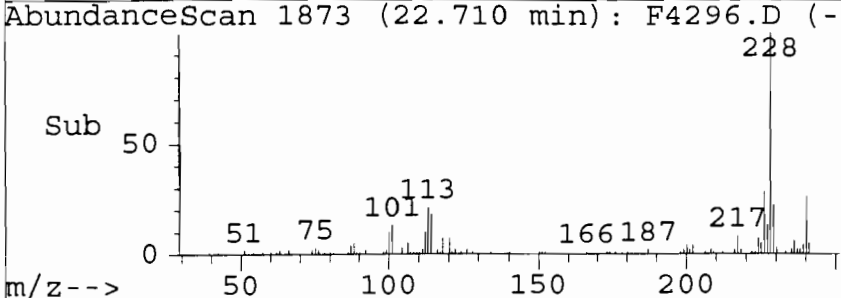
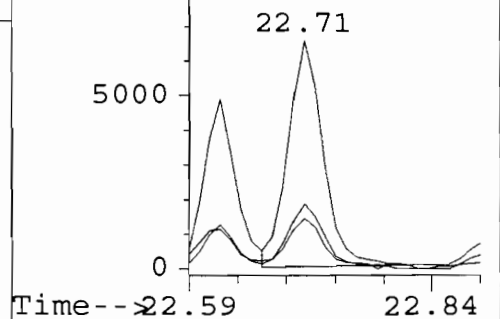


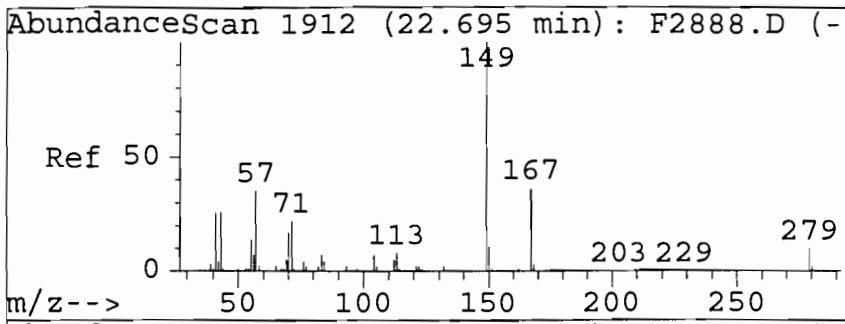
#73
 Chrysene (72G)
 Concen: 4.52 ng/uL
 RT: 22.71 min Scan# 1873
 Delta R.T. -0.10 min
 Lab File: F4296.D
 Acq: 3/30/99 @ 19:17

Tgt Ion	Ratio	Lower	Upper
228	100		
228	100.0	50.0	150.0
226	0.0	0.0	79.7
229	24.1	0.0	69.2



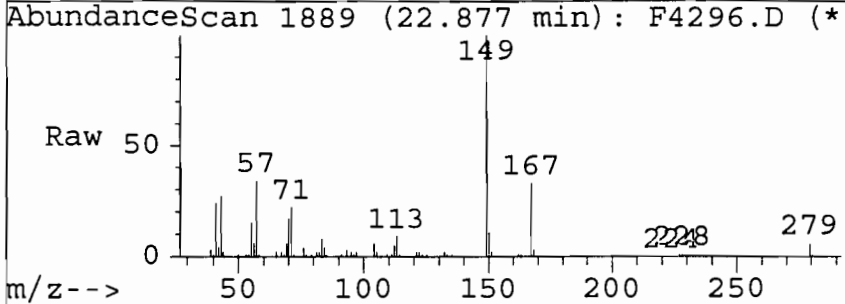
Abundance	Ion	Time
10000	228.00	(227
	228.00	(227
	226.00	(225
	229.00	(228





#74
 Bis (2-Ethylhexyl) Phthalate(
 Concen: 42.82 ng/uL
 RT: 22.88 min Scan# 1889
 Delta R.T. -0.06 min
 Lab File: F4296.D
 Acq: 3/30/99 @ 19:17

Tgt Ion	Ratio	Lower	Upper
149	100		
149	100.0	50.0	150.0
167	33.1	0.0	80.6
279	0.0	0.0	56.6

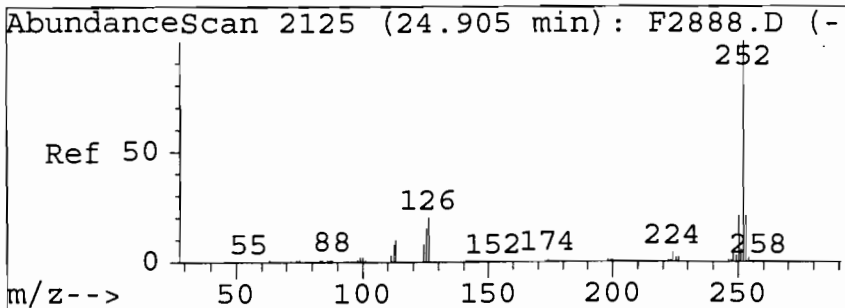
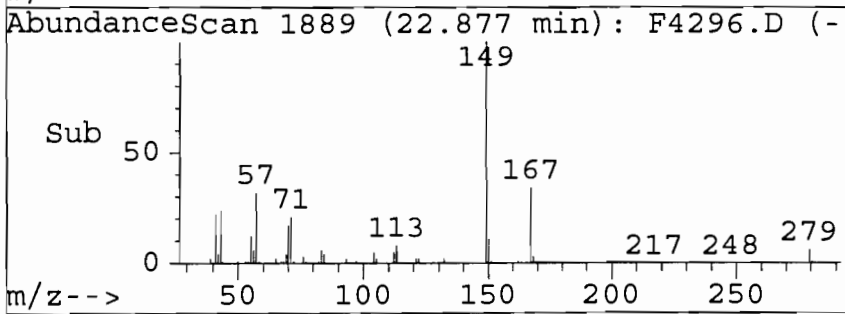
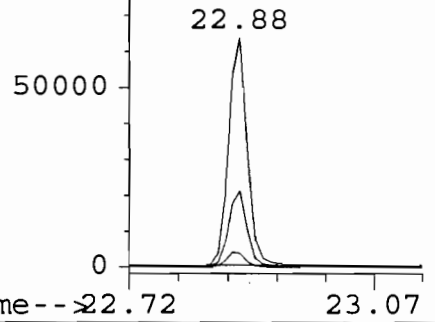


AbundanceIon 149.00 (148)

100000 Ion 149.00 (148)

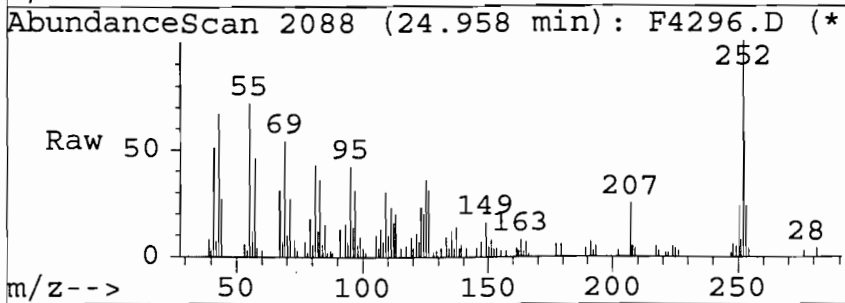
Ion 167.00 (166)

Ion 279.00 (278)



#77
 Benzo-(b)-Fluoranthene(76G)
 Concen: 4.91 ng/uL
 RT: 24.96 min Scan# 2088
 Delta R.T. -0.13 min
 Lab File: F4296.D
 Acq: 3/30/99 @ 19:17

Tgt Ion	Ratio	Lower	Upper
252	100		
252	100.0	50.0	150.0
253	0.0	0.0	70.8
125	0.0	0.0	62.9

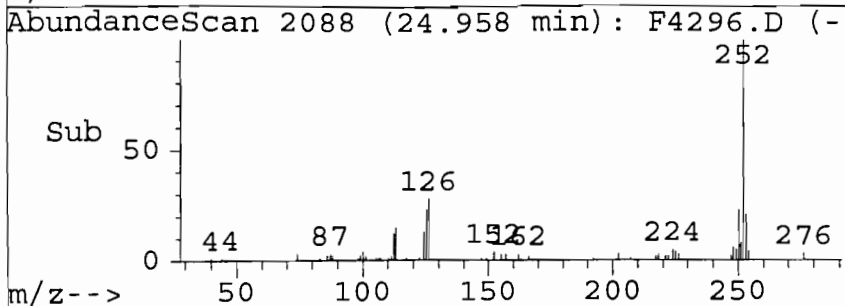
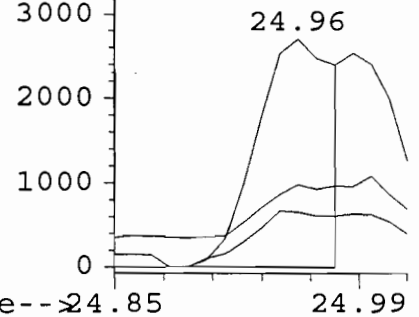


AbundanceIon 252.00 (251)

4000 Ion 252.00 (251)

Ion 253.00 (252)

Ion 125.00 (124)



ANALab, Inc. - Randolph Facility
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
APRIL 12, 1999

Certified for: NJ, PA, DE, CT, NY (DOH)
NJ #14116 NY #11376
US EPA CLP Lab

DIESEL RANGE ORGANIC PETROLEUM HYDROCARBONS BY GC

Client: GCI
Sample Source: 960285
Sample Date: 03/11/99
Sample ID: DW-7
Sampled by: Customer

At Lab Date: 03/15/99

Lab Number: 306396
Sample wt/vol: 25
Sample Matrix: Soil
Percent Moisture: 7.63%
Analysis Date: 04/12/99

Final volume: 1
Column used: RTX-5
Dilution Factor 1

Extraction Date: 04/08/99

Parameter	Result mg/kg	Method Blank mg/kg	Minimum Detection Limit mg/kg	Practical Quantitation Limit mg/kg
DRO Petroleum Hydrocarbons	14	U	4.3	4.3

U = Not detected

Results reported as mg/kg (ppm) are reported on a dry weight basis.

ANALab, Inc. - Randolph Facility
Thomas Mancuso, Lab Mgr.
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LOU

Data File : E:\1\DATA\DA1564.D
 Acq On : 12 Apr 99 14:12
 Sample : 306396
 Misc : QDR8195
 IntFile : EVENTS1.E
 Quant Time: Apr 12 15:15 1999

Vial: 27
 Operator:
 Inst : GC 5890_4
 Multiplr: 1.00

Quant Results File: DROSOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\DROSOIL.M (Chemstation Integrator)
 Title : GC TPH DRO METHOD - Total Area Quantitation
 Last Update : Mon Apr 12 09:21:56 1999
 Response via : Initial Calibration
 DataAcq Meth : DROSOIL.M

Volume Inj. : 1 µl injection
 Signal Phase : Restek RTx-5
 Signal Info : 30 M x 0.53mm x 0.25µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Ortho-Terphenyl	18.04	1357112	19.309 µg/ml
Spiked Amount 20.000		Recovery =	96.55%
Target Compounds			
2) HM DIESEL RANGE	17.00	23014131	331.160 µg/ml

70-4/12/99

Quantitation Report

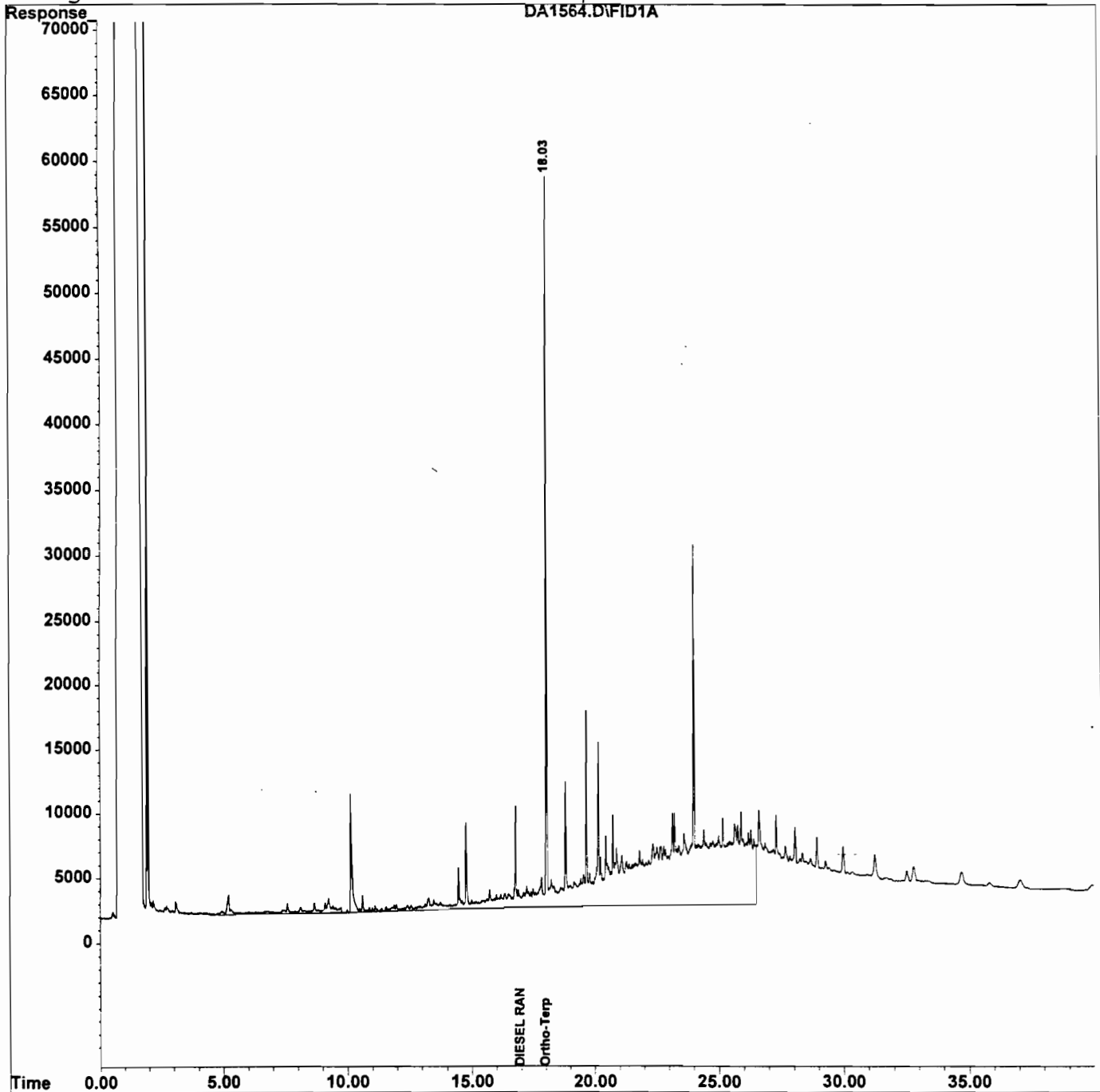
Data File : E:\1\DATA\DA1564.D
Acq On : 12 Apr 99 14:12
Sample : 306396
Misc : QDR8195
IntFile : EVENTS1.E
Quant Time: Apr 12 15:15 1999

Vial: 27
Operator:
Inst : GC 5890_4
Multiplr: 1.00

Quant Results File: DROSOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\DROSOIL.M (Chemstation Integrator)
Title : GC TPH DRO METHOD - Total Area Quantitation
Last Update : Mon Apr 12 09:21:56 1999
Response via : Multiple Level Calibration
DataAcq Meth : DROSOIL.M

Volume Inj. : 1 µl injection
Signal Phase : Restek RTx-5
Signal Info : 30 M x 0.53mm x 0.25µm



ANALab, Inc. - Randolph Facility
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
APRIL 6, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 306396
Client: GCI
Sample source: 960285
Sample ID: DW-7
Sample date: 03/11/99
Sampled by: Customer
At lab date: 03/15/99
Matrix: SOIL
Percent Moisture: 7.63 %

ICP/FURNACE Initial weight: 1.01 g ICP/FURNACE Final volume: 100 ml
Mercury Initial weight: 0.51 g Mercury Final volume: 100 ml
Results in mg/Kg dry weight basis.

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Dilution Factor	Analysis Date
Arsenic	0.965	U	0.429	1	03/23/99
Barium	17.8	U	0.536	1	03/23/99
Cadmium	U	U	0.536	1	03/23/99
Chromium	4.29	U	0.536	1	03/23/99
Lead	8.04	U	0.429	1	03/23/99
Mercury	U	U	0.042	1	03/22/99
Selenium	0.429	U	0.429	1	03/23/99
Silver	U	U	0.536	1	03/23/99

U = Not Detected

ANALab, Inc. - Randolph Facility
Thomas Mancuso, Lab Mgr.
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ROB

ANALab, Inc. - Randolph Facility
 1152 Route 10
 Randolph, NJ 07869
 973-584-0330, FAX: 973-584-0515
 MARCH 29, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

TARGET COMPOUND LIST - VOLATILE ANALYSIS BY GC/MS

Lab Number: 306397 Data File: >A3695
 Client: GCI
 Sample source: 960285
 Sample ID: AST-1
 Sample date: 03/11/99
 Sampled by: Customer Analysis Date: 03/17/99 Column: DB-624
 At lab date: 03/15/99 Dilution Factor: 1
 Matrix: Soil Init Sample Wght= 5g Final volume= 5ml

Percent Moisture: 6.61%
 Initial sample weight DWB= 4.6695g

Conc. in Sample = (Conc. on Quant Report/Initial Sample Weight DWB)*Final Volume

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
Chloromethane	U	U	5.4	4.9
Bromomethane	U	U	5.4	4.1
Vinyl chloride	U	U	5.4	1.8
Chloroethane	U	U	5.4	1.9
Methylene chloride	U	U	5.4	2.9
Acetone	U	U	21	4.8
Carbon disulfide	U	U	5.4	1.8
1,1-Dichloroethene	U	U	5.4	1.8
1,1-Dichloroethane	U	U	5.4	1.5
trans-1,2-Dichloroethene	U	U	5.4	1.8
cis-1,2-Dichloroethene	U	U	5.4	1.8
Chloroform	U	U	5.4	1.7
1,2-Dichloroethane	U	U	5.4	2
2-Butanone	U	U	21	2.6
1,1,1-Trichloroethane	U	U	5.4	0.54
Carbon tetrachloride	U	U	5.4	0.64
Bromodichloromethane	U	U	5.4	0.64
1,2-Dichloropropane	U	U	5.4	0.64
cis-1,3-Dichloropropene	U	U	5.4	0.54
Trichloroethene	U	U	5.4	0.64
Dibromochloromethane	U	U	5.4	0.64
1,1,2-Trichloroethane	U	U	5.4	0.54
Benzene	U	U	5.4	0.54
trans-1,3-Dichloropropene	U	U	5.4	0.64
Bromoform	U	U	5.4	0.86
4-Methyl-2-pentanone	U	U	21	1.2
2-Hexanone	U	U	21	1.3
Tetrachloroethene	U	U	5.4	0.75
1,1,2,2-Tetrachloroethane	U	U	5.4	0.54
Toluene	U	U	5.4	0.86
Chlorobenzene	U	U	5.4	0.64
Ethylbenzene	U	U	5.4	0.75
Styrene	U	U	5.4	1.1
p&m-Xylene	U	U	5.4	0.96
o-Xylene	U	U	5.4	0.96
total Xylenes	U	U	5.4	0.96

ug/kg = micrograms/kilogram or ppb

Results are in ug/kg (ppb); they are reported on a dry weight basis.

ND: Not Determined.

IND: Indeterminable.

U: Indicates a compound was analyzed for but not detected at the PQL.

J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.

B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

QUANT REPORT

Page 1

Operator ID: AT1446
 Output File: 043695::X1
 Data File: 043695::D1
 Name: INST 59701 SAMPLE
 Misc: 306397 ,S,F,S .0.53mm x75m db-624

Quant Rev: 7
 Run Time: 990312 00:11
 Injected at: 990312 23:40
 Dilution Factor: 1.0000
 Instrument ID: INST "A"

ID File: ID86AS::RS
 Title: Method 8260B.IDFILE
 Last Calibration: 990312 14:07

Last Cal Time: 000000

Compound	R.T.	El ion	Area	Conc	Units	o
1) *Pentafluorobenzene	7.28	168.0	171579	50.00	ug/L	89
26) Dibromofluoromethane	7.37	113.0	120902	57.30	ug/L	100
28) 1,2-Dichloroethane-d4	8.40	65.0	58795	50.45	ug/L	57
32) *1,4-Difluorobenzene	9.24	114.0	350998	50.00	ug/L	97
52) *Chlorobenzene-d5	14.81	117.0	151536	50.00	ug/L	93
54) Toluene-d8	12.07	98.0	152354	50.02	ug/L	93
67) Bromofluorobenzene	17.06	95.0	143775	46.42	ug/L	94
71) 1,2,3-Trichlorobenzene	19.20	75.0	9807	9.49	ug/L	48
84) *1,4-Dichlorobenzene-d4	19.20	150.0	106094	50.00	ug/L	95
99) Naphthalene AT	23.42	128.0	12193	5.37	ug/L	100

* Compound is ISTD

AT
 3/18/99

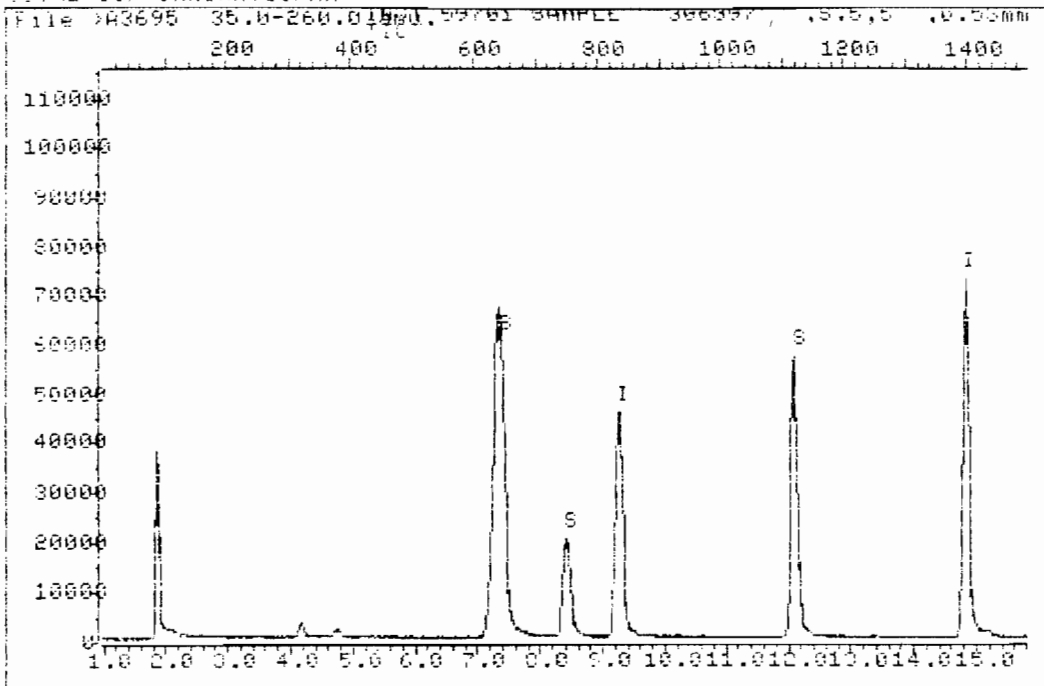
>A3695 INST 59701 SAMPLE 306397 ,S,S,S ,0.53mm x.75m db-624
35.01 260.0 TIC

Upslope: .1000 Area Reject: 5.00 % Max Peaks: 9 Bunch: 1 Valley >100 %
Dnslope: -.0100 Results File VDIR78 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	1.84	95	87	105	37241	125777	103644*	12.15	2.848
2	7.33	611	641	669	66834	887004	852695	100.00	23.427
3	8.40	733	749	768	19725	184555	159790	18.74	4.390
4	9.25	819	835	855	44850	387353	359057	42.11	9.865
5	12.07	1102	1120	1145	56634	434396	410249	48.11	11.271
6	14.81	1384	1397	1419	72839	474981	454696	53.32	12.493
7	17.06	1607	1624	1649	100800	621529	601126	70.50	16.516
8	19.20	1828	1840	1868	104713	634803	607697	71.27	16.696
9	19.69	1872	1890	1905	10073	119930	90794*	10.65	2.495

Sum of corrected areas: 3639748.

TOTAL ION CHROMATOGRAM

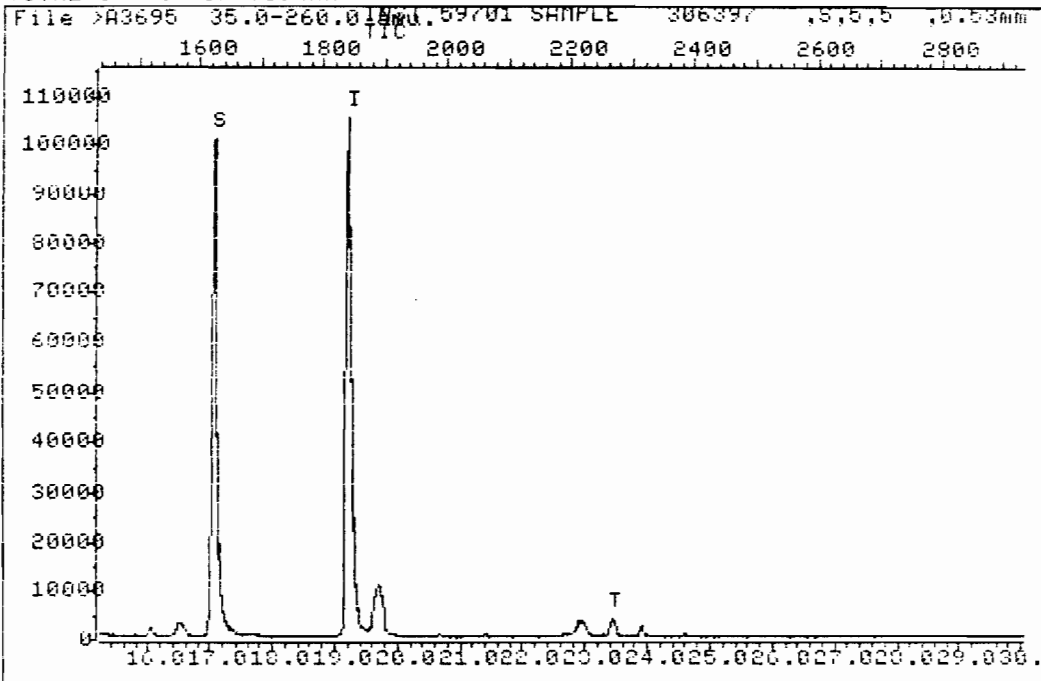


Data File: >A3695::C1 Quant Output File: ^A3695::C1
 Name: INST 59701 SAMPLE Instrument ID: INST "A"
 Misc: 306397 ,S,5,5 ,0.53mm x75m db-624

Id File: ID86A6::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990312 14:07 Last Goal Time: none

Operator ID: AT1446
 Quant Time : 990318 00:11
 Injected at: 990317 23:40

TOTAL ION CHROMATOGRAM



Data File: >A3695::C1 Quant Output File: ^A3695::X1
 Name: INST 59701 SAMPLE Instrument ID: INST "A"
 Misc: 306397 ,S,5,5 ,0.53mm x75m db-624

Id File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990312 14:07 Last Qual Time: <none>

Operator ID: AT1446
 Quant Time : 990318 00:11
 Injected at: 990317 23:40

Page 2 of 2

ANALab, Inc. - Randolph Facility
 1152 Route 10
 Randolph, NJ 07869
 973-584-0330, FAX: 973-584-0515
 MARCH 29, 1999

Certified for: NJ, PA, DE, CT, NY (DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

TARGET COMPOUND LIST - BASE/NEUTRAL FRACTION ANALYSIS BY GC/MS

Lab Number: 306397 Data File: >F4262
 Client: GCI
 Sample source: 960285
 Sample ID: AST-1
 Sample date: 03/11/99 Extracted Date: 03/19/99
 Sampled by: Customer Analysis Date: 03/26/99 Column: 30m SPB-5
 At lab date: 03/15/99 Dilution Factor: 1
 Percent Moisture: 6.61%
 Matrix: Soil Init Sample Wght= 30.10g Final volume= 1ml
 Initial sample weight DWB= 28.11039g

Conc. in Sample = (Conc. on Quant Report/Initial Sample Weight DWB)*Final Volume*1000

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
bis(2-Chloroethyl) ether	U	U	180	36
1,3-Dichlorobenzene	U	U	180	85
1,4-Dichlorobenzene	U	U	180	82
1,2-Dichlorobenzene	U	U	180	85
bis(2-Chloroisopropyl) ether	U	U	180	43
N-Nitroso-di-n-propylamine	U	U	180	36
Hexachloroethane	U	U	180	100
Nitrobenzene	U	U	180	36
Isophorone	U	U	180	36
bis(2-Chloroethoxy)methane	U	U	180	36
1,2,4-Trichlorobenzene	U	U	180	82
Naphthalene	U	U	180	71
4-Chloroaniline	U	U	180	36
Hexachlorobutadiene	U	U	180	36
2-Methylnaphthalene	U	U	180	75
Hexachlorocyclopentadiene	U	U	180	53
2-Chloronaphthalene	U	U	180	71
2-Nitroaniline	U	U	180	36
Dimethyl phthalate	U	U	180	160
Acenaphthylene	U	U	180	53
2,6-Dinitrotoluene	U	U	180	36
3-Nitroaniline	U	U	180	36
Acenaphthene	U	U	180	68
Dibenzofuran	U	U	180	53
2,4-Dinitrotoluene	U	U	180	36
Diethyl phthalate	U	U	180	82
4-Chlorophenyl phenyl ether	U	U	180	71
Fluorene	U	U	180	60
4-Nitroaniline	U	U	180	36
N-Nitrosodiphenylamine	U	U	180	36
4-Bromophenyl phenyl ether	U	U	180	68
Hexachlorobenzene	U	U	180	68
Phenanthrene	U	U	180	32
Anthracene	U	U	180	28

(continued on next page)

(continued from previous page)

Lab Number: 306397
Client: GCI

Data File: >F4262

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
Di-n-butylphthalate	U	U	180	89
Fluoranthene	U	U	180	21
Pyrene	U	U	180	18
Butyl benzylphthalate	U	U	180	43
3,3'-Dichlorobenzidine	U	U	180	36
Benzo (a) anthracene	U	U	180	18
Chrysene	U	U	180	18
bis(2-Ethylhexyl)phthalate	U	U	180	110
Di-n-octylphthalate	U	U	180	36
Benzo (b) fluoranthene	U	U	180	25
Benzo (k) fluoranthene	U	U	180	25
Benzo (a) pyrene	U	U	180	18
Indeno (1,2,3-cd) pyrene	U	U	180	39
Dibenz (a,h) anthracene	U	U	180	18
Benzo (g,h,i) perylene	U	U	180	18
Carbazole	U	U	180	36

ug/kg = micrograms/kilogram or ppb

Results are in ug/kg (ppb); they are reported on a dry weight basis.

ND: Not Determined.
IND: Indeterminable.

U: Indicates a compound was analyzed for but not detected at the PQL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

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Quantitation Report

Data File : F:\RTE\BNA\F42_D\F4262.D
 Acq Time : Data Taken: 3/26/99 @ 21:17 Operator: AM9951
 Sample : Inst :
 Misc : 306397, QC8167 M SPB-5 CAP COLUMN Multiplr: 1.00
 Quant Time: Mar 24 1:30 1999

Method : C:\METHODS\CF4189.M
 Title : BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Mar 23 13:25:06 1999
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-Dichlorobenzene	7.57	152	107702	40.00	ng/uL	-0.03
21) d8-Naphthalene	10.10	136	404659	40.00	ng/uL	-0.05
33) d10-Acenaphthene	13.84	164	171269	40.00	ng/uL	-0.06
57) d10-Phenanthrene	16.97	188	463536	40.00	ng/uL	-0.06
66) d12-Chrysene	22.68	240	394999	40.00	ng/uL	-0.08
75) d12-Perylene	25.91	264	285699	40.00	ng/uL	-0.08

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
4) 2-Fluorophenol	5.50	112	277337	104.70	ng/uL	52.35%
6) Phenol-d6	7.14	99	497782	151.71	ng/uL	75.86%
19) Nitobenzene-d5	8.73	82	279039	77.48	ng/uL	77.48%
37) 2-Fluorobiphenyl	12.45	172	529560	83.68	ng/uL	83.68%
56) 2,4,6-Tribromophenol	15.58	330	198929	150.80	ng/uL	75.40%
69) Terphenyl-d14	20.47	244	662164	67.31	ng/uL	67.31%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Phenol (5G)	7.15	94	4446	1.32	ng/uL#	72
17) n-Nitrosodipropyl Amine (16G)	8.73	70	42742	18.85	ng/uL#	48
42) 2,6-Dinitrotoluene (42G)	13.82	165	21808	9.21	ng/uL#	72
54) n-Nitrosodiphenyl Amine (56)	15.58	169	5811	1.23	ng/uL#	25
74) Bis-(2-Ethylhexyl)-Phthala	22.88	149	5200	0.52	ng/uL#	99

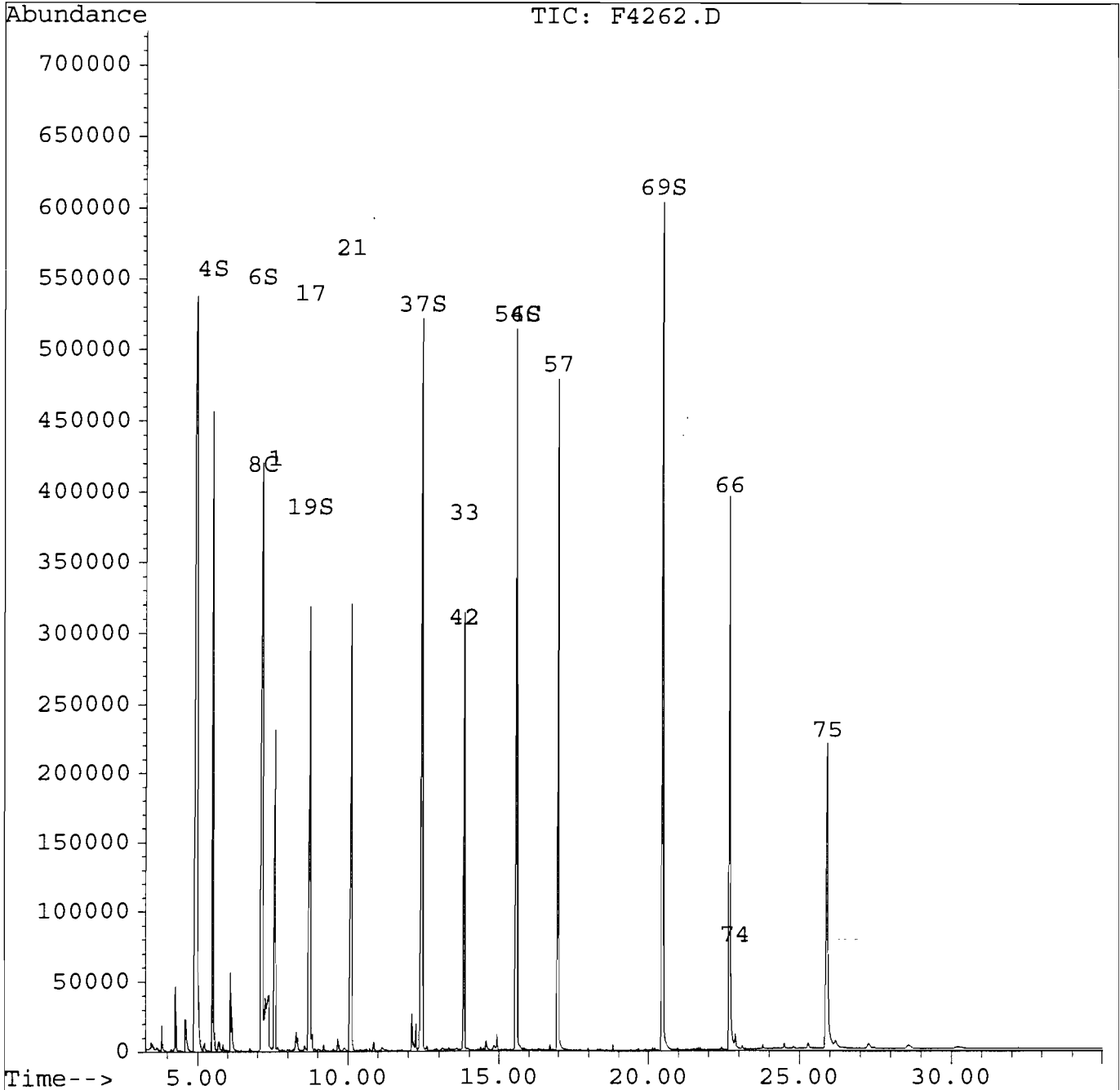
(#) = qualifier out of range (m) = manual integration

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	3.457	rBV	0.062	7716	3.426	3.488
2	3.809	rVB	0.124	31524	3.798	3.923
3	4.244	rVB	0.114	80454	4.223	4.337
4	4.585	rBV	0.259	98209	4.554	4.813
5	4.969	rBV	0.332	3057118	4.844	5.176
6	5.497	rBV	0.083	1076821	5.445	5.528
7	5.549	rVV	0.104	23777	5.528	5.632
8	5.715	rVV	0.176	27233	5.632	5.808
9	5.828	rBV	0.062	7981	5.808	5.870
10	6.077	rBV	0.052	103597	6.056	6.108
11	6.129	rVB	0.124	61212	6.108	6.232
12	7.143	rBV	0.125	1618290	7.050	7.175
13	7.237	rVV	0.093	45284	7.175	7.268
14	7.569	rVB	0.114	629234	7.496	7.611
15	8.263	rVV	0.083	31591	8.211	8.294
16	8.304	rVB	0.072	15195	8.294	8.366
17	8.553	rBV	0.114	11817	8.522	8.635
18	8.729	rBV	0.125	956924	8.635	8.760
19	8.802	rVB	0.073	14589	8.791	8.864
20	9.185	rBV	0.083	10695	9.143	9.226
21	9.650	rBV	0.104	18876	9.578	9.682
22	9.702	rVB	0.093	7374	9.682	9.775
23	9.858	rBV	0.145	8899	9.775	9.920
24	10.096	rBV	0.135	872008	10.003	10.138
25	10.852	rBV	0.124	17878	10.790	10.914
26	12.115	rBV	0.093	50884	12.063	12.156
27	12.250	rVB	0.104	34101	12.208	12.312
28	12.447	rBV	0.177	1581761	12.312	12.489
29	13.835	rBV	0.135	717196	13.742	13.877
30	14.570	rVV	0.166	17857	14.529	14.694
31	14.829	rBV	0.083	8872	14.757	14.839
32	14.933	rVB	0.145	20848	14.891	15.036
33	15.575	rBV	0.125	1524446	15.492	15.617
34	16.974	rBV	0.115	1142060	16.901	17.015
35	20.473	rBV	0.250	1902616	20.390	20.640
36	22.690	rBV	0.229	1135746	22.616	22.845
37	22.877	rVB	0.145	29200	22.845	22.991
38	24.491	rBV	0.104	10267	24.450	24.554
39	25.278	rVB	0.166	11632	25.237	25.403
40	25.911	rBV	0.322	865513	25.807	26.129

Quantitation Report

Data File : F:\RTE\BNA\F42_D\F4262.D
Acq Time : Data Taken: 3/26/99 @ 21:17 Operator: AM9951
Sample : Inst :
Misc : 306397, QC8167 M SPB-5 CAP COLUMN Multiplr: 1.00
Quant Time: Mar 24 1:30 1999

Method : C:\METHODS\CF4189.M
Title : BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Mar 23 13:25:06 1999
Response via : Multiple Level Calibration



ANALab, Inc. - Randolph Facility
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
APRIL 12, 1999

Certified for: NJ, PA, DE, CT, NY (DOH)
NJ #14116 NY #11376
US EPA CLP Lab

DIESEL RANGE ORGANIC PETROLEUM HYDROCARBONS BY GC

Client: GCI
Sample Source: 960285
Sample Date: 03/11/99 At Lab Date: 03/15/99
Sample ID: AST-1
Sampled by: Customer

Lab Number: 306397
Sample wt/vol: 25 Final volume: 1
Sample Matrix: Soil Column used: RTX-5
Percent Moisture: 6.61% Dilution Factor 1
Analysis Date: 04/09/99 Extraction Date: 04/08/99

Parameter	Result mg/kg	Method Blank mg/kg	Minimum Detection Limit mg/kg	Practical Quantitation Limit mg/kg
DRO Petroleum Hydrocarbons	U	U	4.3	4.3

U = Not detected
Results reported as mg/kg (ppm) are reported on a dry weight basis.

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Thomas Mancuso, Lab Mgr.
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Data File : E:\1\DATA\DA1547.D Vial: 10
 Acq On : 9 Apr 99 2:50 Operator:
 Sample : 306397 Inst : GC 5890_4
 Misc : QDR8195 Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Apr 12 11:15 1999 Quant Results File: DROSOIL.RES

Quant Method : E:\1\METHODS\DROSOIL.M (Chemstation Integrator)
 Title : GC TPH DRO METHOD - Total Area Quantitation
 Last Update : Mon Apr 12 09:21:56 1999
 Response via : Initial Calibration
 DataAcq Meth : DROSOIL.M

Volume Inj. : 1 µl injection
 Signal Phase : Restek RTX-5
 Signal Info : 30 M x 0.53mm x 0.25µm

Compound	R.T.	Response	Conc Units
----------	------	----------	------------

System Monitoring Compounds

1) S Ortho-Terphenyl	18.04	1313531	18.689 µg/ml
Spiked Amount 20.000		Recovery =	93.44%

Target Compounds

2) HM DIESEL RANGE	17.00	6626169	95.347 µg/ml <i>Handwritten mark</i>
--------------------	-------	---------	---

Handwritten signature and date: MS 4/12/99

Quantitation Report

Data File : E:\1\DATA\DA1547.D

Vial: 10

Acq On : 9 Apr 99 2:50

Operator:

Sample : 306397

Inst : GC 5890_4

Misc : QDR8195

Multiplr: 1.00

IntFile : EVENTS1.E

Quant Time: Apr 12 11:15 1999 Quant Results File: DROSOIL.RES

Quant Method : E:\1\METHODS\DROSOIL.M (Chemstation Integrator)

Title : GC TPH DRO METHOD - Total Area Quantitation

Last Update : Mon Apr 12 09:21:56 1999

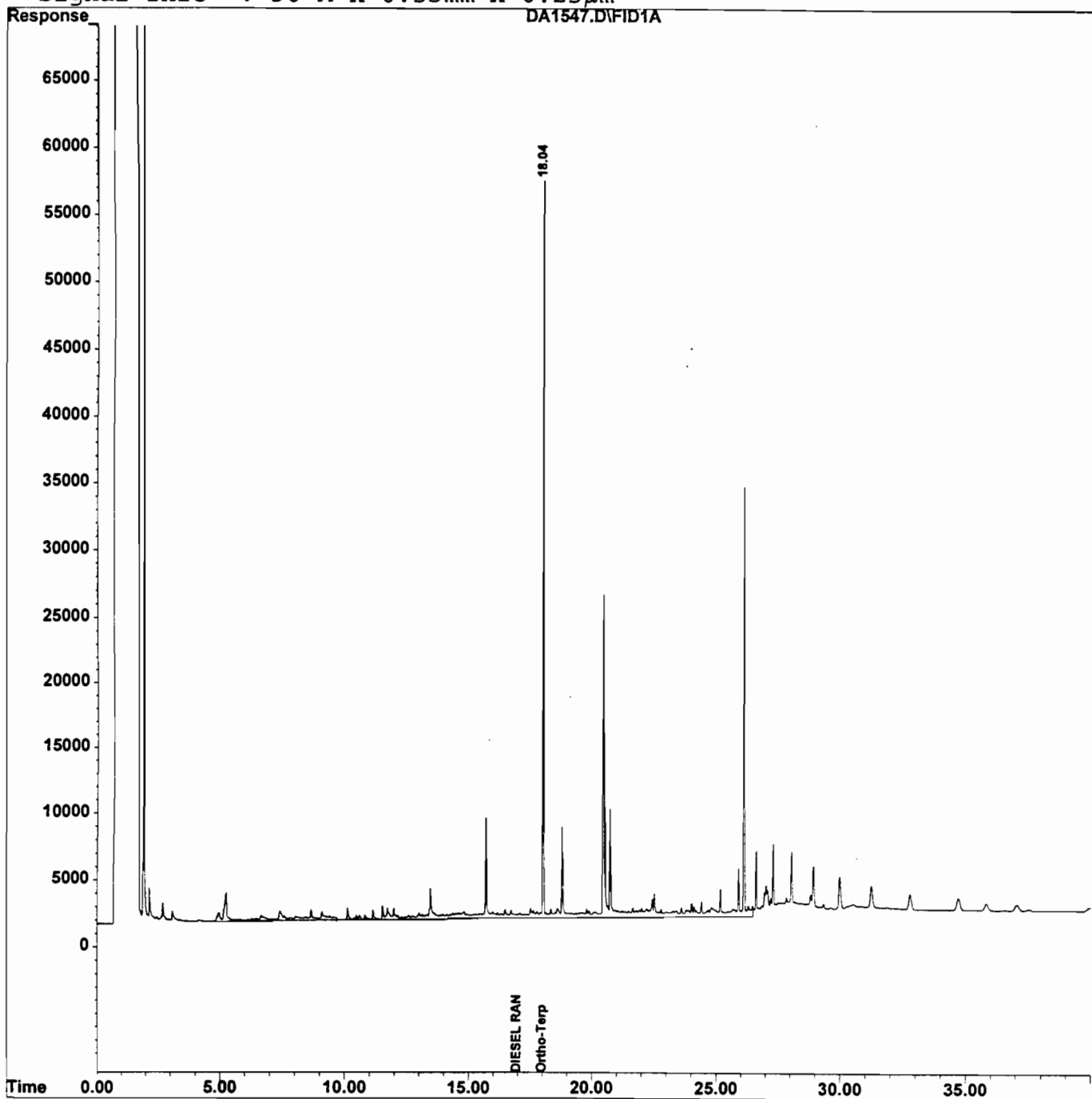
Response via : Multiple Level Calibration

DataAcq Meth : DROSOIL.M

Volume Inj. : 1 µl injection

Signal Phase : Restek RTx-5

Signal Info : 30 M x 0.53mm x 0.25µm



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973-584-0330, FAX: 973-584-0515
MARCH 25, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 306397
Client: GCI
Sample source: 960285
Sample ID: AST-1
Sample date: 03/11/99
Sampled by: Customer
At lab date: 03/15/99
Matrix: SOIL
Percent Moisture: 6.61 %

ICP/FURNACE Initial weight: 1.00 g ICP/FURNACE Final volume: 100 ml
Mercury Initial weight: 0.50 g Mercury Final volume: 100 ml
Results in mg/Kg dry weight basis.

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Dilution Factor	Analysis Date
Arsenic	1.28	U	0.428	1	03/23/99
Barium	4.82	U	0.535	1	03/23/99
Cadmium	U	U	0.535	1	03/23/99
Chromium	1.07	U	0.535	1	03/23/99
Lead	3.21	U	0.428	1	03/23/99
Mercury	U	U	0.043	1	03/22/99
Selenium	U	U	0.428	1	03/23/99
Silver	U	U	0.535	1	03/23/99

U = Not Detected

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LYN

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 MARCH 29, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

TARGET COMPOUND LIST - VOLATILE ANALYSIS BY GC/MS

Lab Number: 306398 Data File: >A3696
 Client: GCI
 Sample source: 960285
 Sample ID: AST-2
 Sample date: 03/11/99
 Sampled by: Customer Analysis Date: 03/18/99 Column: DB-624
 At lab date: 03/15/99 Dilution Factor: 1
 Matrix: Soil Init Sample Wght= 5g Final volume= 5ml

Percent Moisture: 7.73%
 Initial sample weight DWB= 4.6135g

Conc. in Sample = (Conc. on Quant Report/Initial Sample Weight DWB)*Final Volume

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
Chloromethane	U	U	5.4	5
Bromomethane	U	U	5.4	4.1
Vinyl chloride	U	U	5.4	1.8
Chloroethane	U	U	5.4	2
Methylene chloride	U	U	5.4	2.9
Acetone	U	U	22	4.9
Carbon disulfide	U	U	5.4	1.8
1,1-Dichloroethene	U	U	5.4	1.8
1,1-Dichloroethane	U	U	5.4	1.5
trans-1,2-Dichloroethene	U	U	5.4	1.8
cis-1,2-Dichloroethene	U	U	5.4	1.8
Chloroform	U	U	5.4	1.7
1,2-Dichloroethane	U	U	5.4	2.1
2-Butanone	U	U	22	2.6
1,1,1-Trichloroethane	U	U	5.4	0.54
Carbon tetrachloride	U	U	5.4	0.65
Bromodichloromethane	U	U	5.4	0.65
1,2-Dichloropropane	U	U	5.4	0.65
cis-1,3-Dichloropropene	U	U	5.4	0.54
Trichloroethene	U	U	5.4	0.65
Dibromochloromethane	U	U	5.4	0.65
1,1,2-Trichloroethane	U	U	5.4	0.54
Benzene	U	U	5.4	0.54
trans-1,3-Dichloropropene	U	U	5.4	0.65
Bromoform	U	U	5.4	0.87
4-Methyl-2-pentanone	U	U	22	1.2
2-Hexanone	U	U	22	1.3
Tetrachloroethene	U	U	5.4	0.76
1,1,2,2-Tetrachloroethane	U	U	5.4	0.54
Toluene	U	U	5.4	0.87
Chlorobenzene	U	U	5.4	0.65
Ethylbenzene	U	U	5.4	0.76
Styrene	U	U	5.4	1.1
p&m-Xylene	U	U	5.4	0.98
o-Xylene	U	U	5.4	0.98
total Xylenes	U	U	5.4	0.98

ug/kg = micrograms/kilogram or ppb

Results are in ug/kg (ppb); they are reported on a dry weight basis.

ND: Not Determined.

IND: Indeterminable.

U: Indicates a compound was analyzed for but not detected at the PQL.

J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.

B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

QUANT REPORT

Page 1

Operator ID: AT1446
 Output File: >A3696::X1
 Data File: >A3696::D1
 Name: INST 59701 SAMPLE
 Misc: 306398 ,S,S,S ,0.53mm x75m db-624

Quant Rev: 7 Quant Time: 990318 00:27
 Injected at: 990318 00:16
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: IDR6AS::RS
 Title: Method 8260E IDFILE
 Last Calibration: 990312 14:07

Last Qccl Time: (none)

Compound	R.T.	Concn	Area	Conc	Units	Q
1) *Pentafluorobenzene	7.26	168.0	173920	50.00	ug/L	88
26) Dibromofluoromethane	7.36	113.0	122806	57.42	ug/L	100
28) 1,2-Dichloroethane-d4	8.39	65.0	58558	51.54	ug/L	91
32) *1,4-Difluorobenzene	9.23	114.0	157737	50.00	ug/L	99
52) *Chlorobenzene-d5	14.81	117.0	159520	50.00	ug/L	91
54) Toluene-d8	12.06	98.0	157257	49.44	ug/L	92
67) Bromofluorobenzene	17.05	95.0	150041	46.34	ug/L	91
84) *1,4-Dichlorobenzene-d4	19.20	152.0	117214	50.00	ug/L	96

* Compound is ISTD

AT
 3/18/99

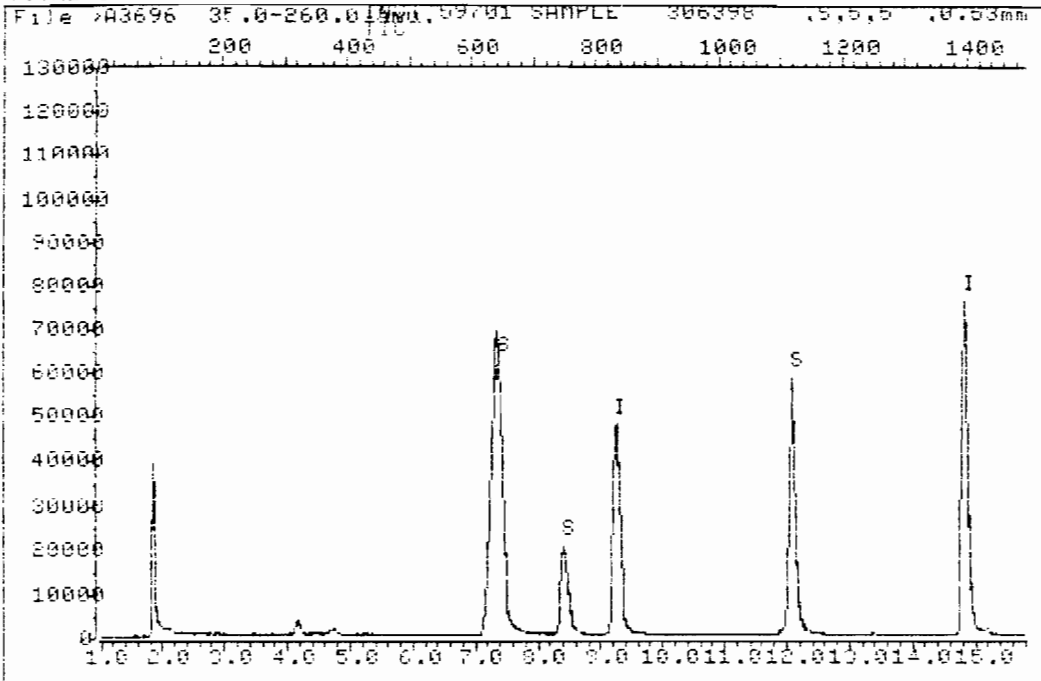
>A3696 INST 59701 SAMPLE 306398 ,S,S,S ,0.53mm x75m db-624
 35.01 260.0 TIC

Upslope: .1000 Area Reject: 5.00 % Max Peaks: 9 Bunch: 1 Valley >100 %
 Dnslope: -.0100 Results File VDIR78 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	1.84	85	87	106	38409	127418	103772*	11.85	2.739
2	7.32	613	641	675	68969	912213	876058	100.00	23.119
3	8.39	734	749	770	19643	187155	160800	18.35	4.244
4	9.24	815	835	858	47643	411140	381497	43.55	10.068
5	12.06	1094	1120	1139	58149	448233	424543	48.46	11.204
6	14.81	1381	1397	1422	76335	499808	479515	54.74	12.654
7	17.05	1608	1624	1650	107355	653241	633863	72.35	16.728
8	19.20	1828	1841	1869	118097	706784	681027	77.74	17.972
9	19.69	1876	1890	1905	5628	72134	48212	5.50	1.272

Sum of corrected areas: 3789287.

TOTAL ION CHROMATOGRAM

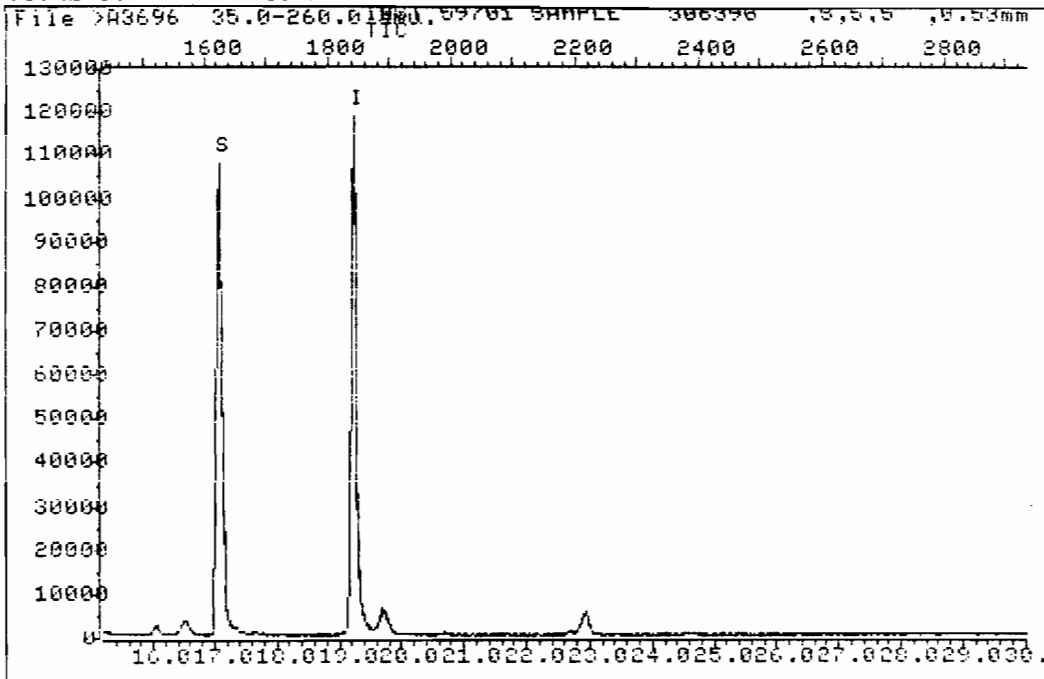


Data File: >A3696::D1 Quant Output File: >A3696::K1
 Name: INST 59701 SAMPLE Instrument ID: INST "A"
 Misc: 306398 ,S,5,5 ,0.53mm x75m db-624

Id File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990312 14:07 Last Qual Time: <None>

Operator ID: AT1446
 Quant Time : 990318 00:47
 Injected at: 990318 00:16

TOTAL ION CHROMATOGRAM



Data File: >A3696::C1 Quant Output File: >A3696::X1
 Name: INST 59701 SAMPLE Instrument ID: INST "A"
 Misc: 306398 ,S,5,5 ,0.53mm x75m db-624

Id File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990312 14:07 Last Qual Time: <none>

Operator ID: AT1446
 Quant Time : 990318 00:47
 Injected at: 990318 00:16

Page 2 of 2

ANALab, Inc. - Randolph Facility
 1152 Route 10
 Randolph, NJ 07869
 973-584-0330, FAX: 973-584-0515
 MARCH 29, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

TARGET COMPOUND LIST - BASE/NEUTRAL FRACTION ANALYSIS BY GC/MS

Lab Number: 306398 Data File: >F4263
 Client: GCI
 Sample source: 960285
 Sample ID: AST-2
 Sample date: 03/11/99 Extracted Date: 03/19/99
 Sampled by: Customer Analysis Date: 03/26/99 Column: 30m SPB-5
 At lab date: 03/15/99 Dilution Factor: 1
 Percent Moisture: 7.73%
 Matrix: Soil Init Sample Wght= 30.02g Final volume= 1ml
 Initial sample weight DWB= 27.69945g

Conc. in Sample = (Conc. on Quant Report/Initial Sample Weight DWB)*Final Volume*1000

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
bis(2-Chloroethyl) ether	U	U	180	36
1,3-Dichlorobenzene	U	U	180	87
1,4-Dichlorobenzene	U	U	180	83
1,2-Dichlorobenzene	U	U	180	87
bis(2-Chloroisopropyl) ether	U	U	180	43
N-Nitroso-di-n-propylamine	U	U	180	36
Hexachloroethane	U	U	180	100
Nitrobenzene	U	U	180	36
Isophorone	U	U	180	36
bis(2-Chloroethoxy) methane	U	U	180	36
1,2,4-Trichlorobenzene	U	U	180	83
Naphthalene	U	U	180	72
4-Chloroaniline	U	U	180	36
Hexachlorobutadiene	U	U	180	36
2-Methylnaphthalene	U	U	180	76
Hexachlorocyclopentadiene	U	U	180	54
2-Chloronaphthalene	U	U	180	72
2-Nitroaniline	U	U	180	36
Dimethyl phthalate	U	U	180	170
Acenaphthylene	U	U	180	54
2,6-Dinitrotoluene	U	U	180	36
3-Nitroaniline	U	U	180	36
Acenaphthene	U	U	180	69
Dibenzofuran	U	U	180	54
2,4-Dinitrotoluene	U	U	180	36
Diethyl phthalate	U	U	180	83
4-Chlorophenyl phenyl ether	U	U	180	72
Fluorene	U	U	180	61
4-Nitroaniline	U	U	180	36
N-Nitrosodiphenylamine	U	U	180	36
4-Bromophenyl phenyl ether	U	U	180	69
Hexachlorobenzene	U	U	180	69
Phenanthrene	U	U	180	32
Anthracene	U	U	180	29

(continued on next page)

(continued from previous page)

Lab Number: 306398
Client: GCI

Data File: >F4263

Parameter	Result ug/kg	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
Di-n-butylphthalate	U	U	180	90
Fluoranthene	U	U	180	22
Pyrene	U	U	180	18
Butyl benzylphthalate	U	U	180	43
3,3'-Dichlorobenzidine	U	U	180	36
Benzo(a)anthracene	U	U	180	18
Chrysene	U	U	180	18
bis(2-Ethylhexyl)phthalate	U	U	180	110
Di-n-octylphthalate	U	U	180	36
Benzo(b)fluoranthene	U	U	180	25
Benzo(k)fluoranthene	U	U	180	25
Benzo(a)pyrene	U	U	180	18
Indeno(1,2,3-cd)pyrene	U	U	180	40
Dibenz(a,h)anthracene	U	U	180	18
Benzo(g,h,i)perylene	U	U	180	18
Carbazole	U	U	180	36

ug/kg = micrograms/kilogram or ppb
Results are in ug/kg (ppb); they are reported on a dry weight basis.

ND: Not Determined.
IND: Indeterminable.

U: Indicates a compound was analyzed for but not detected at the PQL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

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Quantitation Report

Data File : F:\RTE\BNA\F42_D\F4263.D
 Acq Time : 26 MAR 99 10:03 PM Operator: AM9951
 Sample : Inst :
 Misc : 306398, QC8167 M SPB-5 CAP COLUMN Multiplr: 1.00
 Quant Time: Mar 24 1:35 1999

Method : C:\METHODS\CF4189.M
 Title : BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Mar 23 13:25:06 1999
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-Dichlorobenzene	7.56	152	93192	40.00	ng/uL	-0.04
21) d8-Naphthalene	10.09	136	365520	40.00	ng/uL	-0.05
33) d10-Acenaphthene	13.83	164	160761	40.00	ng/uL	-0.06
57) d10-Phenanthrene	16.97	188	450893	40.00	ng/uL	-0.06
66) d12-Chrysene	22.69	240	392633	40.00	ng/uL	-0.07
75) d12-Perylene	25.91	264	264657	40.00	ng/uL	-0.09

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
4) 2-Fluorophenol	5.48	112	252890	110.34	ng/uL	55.17%
6) Phenol-d6	7.13	99	435881	153.53	ng/uL	76.77%
19) Nitobenzene-d5	8.73	82	246540	79.11	ng/uL	79.11%
37) 2-Fluorobiphenyl	12.45	172	486249	81.86	ng/uL	81.86%
56) 2,4,6-Tribromophenol	15.57	330	189155	152.77	ng/uL	76.38%
69) Terphenyl-d14	20.47	244	614867	62.88	ng/uL	62.88%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Phenol(5G)	7.15	94	5672	1.94	ng/uL#	72
17) n-Nitrosodipropyl Amine(16G)	8.73	70	37480	19.11	ng/uL#	48
42) 2,6-Dinitrotoluene(42G)	13.83	165	20577	9.26	ng/uL#	72
54) n-Nitrosodiphenyl Amine(56)	15.57	169	5507	1.24	ng/uL#	29
74) Bis-(2-Ethylhexyl) Phthala	22.87	149	8920	0.90	ng/uL	99

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	3.788	rVB	0.124	12503	3.778	3.902
2	4.223	rVV	0.135	33658	4.202	4.337
3	4.544	rBV	0.186	50497	4.523	4.709
4	4.927	rBV	0.290	2061567	4.834	5.124
5	5.476	rBV	0.083	981558	5.424	5.507
6	6.077	rBV	0.062	60182	6.056	6.118
7	6.128	rVB	0.114	29741	6.118	6.232
8	7.133	rBV	0.114	1419314	7.060	7.174
9	7.237	rBV	0.042	18670	7.216	7.257
10	7.558	rBV	0.094	549614	7.516	7.610
11	8.728	rBV	0.104	841133	8.655	8.759
12	8.800	rVV	0.114	28203	8.769	8.883
13	9.649	rBV	0.073	14974	9.608	9.680
14	10.095	rBV	0.114	785271	10.022	10.136
15	12.124	rBV	0.073	17513	12.082	12.155
16	12.248	rVB	0.083	33095	12.206	12.289
17	12.446	rBV	0.167	1457896	12.321	12.487
18	13.833	rVV	0.156	678712	13.760	13.916
19	14.568	rVV	0.145	12649	14.517	14.662
20	14.920	rVB	0.114	14950	14.889	15.003
21	15.573	rVV	0.219	1449424	15.490	15.708
22	16.610	rBV	0.093	72673	16.569	16.662
23	16.973	rBV	0.125	1115139	16.911	17.036
24	18.289	rBV	0.073	19988	18.258	18.331
25	18.403	rVB	0.062	14089	18.372	18.434
26	18.797	rVB	0.073	30602	18.776	18.849
27	19.336	rBV	0.052	13452	19.305	19.357
28	20.123	rBV	0.093	11629	20.082	20.175
29	20.466	rBV	0.115	1777941	20.393	20.508
30	22.364	rBV	0.083	193529	22.322	22.406
31	22.686	rBV	0.229	1136415	22.613	22.842
32	22.873	rVB	0.156	43772	22.842	22.998
33	23.102	rBV	0.094	161584	23.050	23.143
34	23.185	rVV	0.073	237473	23.143	23.216
35	23.237	rVV	0.052	71440	23.216	23.268
36	23.299	rVB	0.114	84306	23.268	23.382
37	23.901	rVB	0.094	27940	23.859	23.953
38	24.493	rBV	0.187	62489	24.441	24.628
39	24.794	rVB	0.094	38504	24.752	24.846
40	25.905	rBV	0.312	801663	25.811	26.124

Quantitation Report

Data File : F:\RTE\BNA\F42_D\F4263.D

Acq Time : Data Taken: 3/26/99 @ 22:03

Operator: AM9951

Sample :

Inst :

Misc : 306398, QC8167 M SPB-5 CAP COLUMN

Multiplr: 1.00

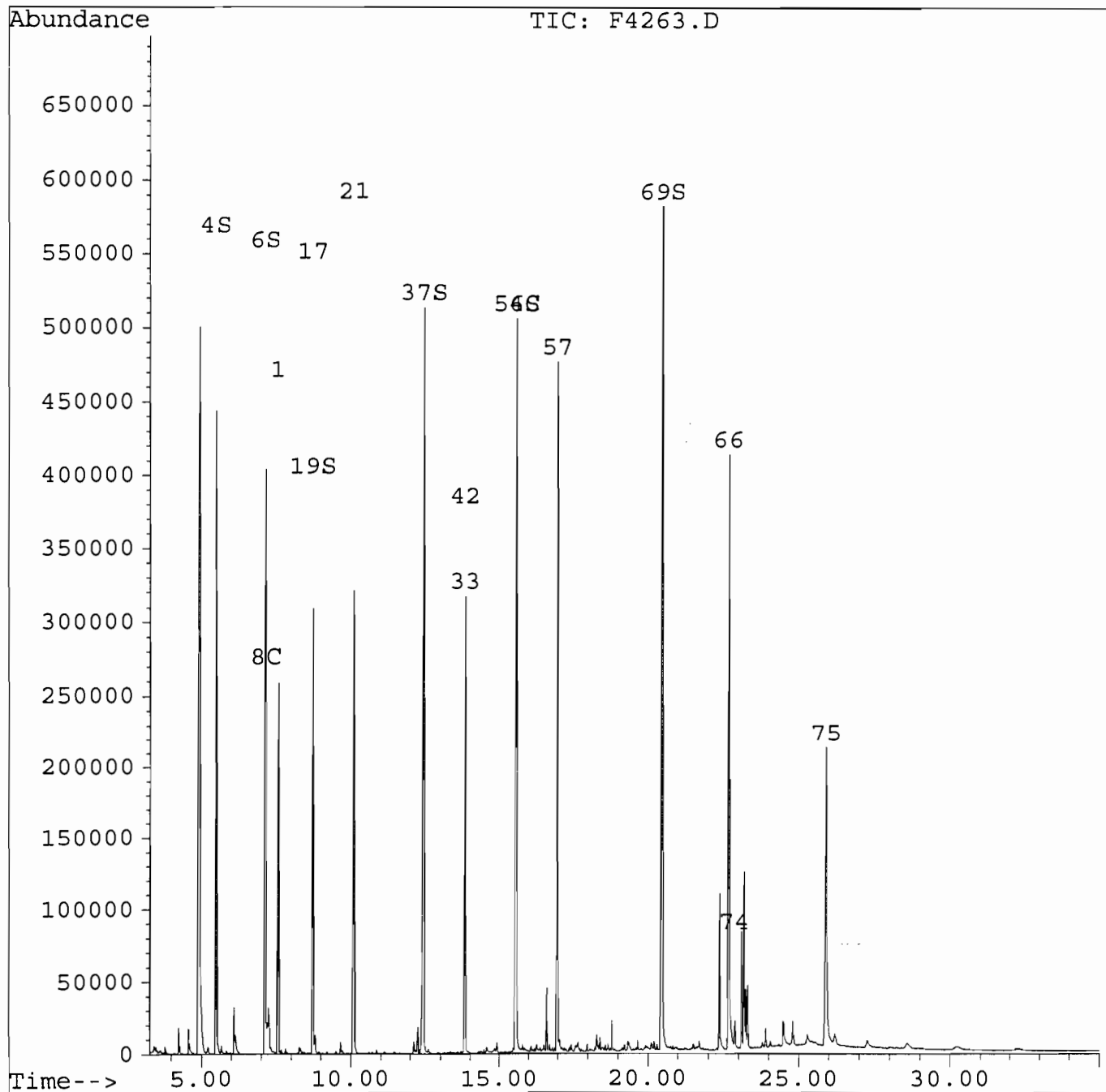
Quant Time: Mar 24 1:35 1999

Method : C:\METHODS\CF4189.M

Title : BNA STANDARDS FOR 5 POINT CALIBRATION

Last Update : Tue Mar 23 13:25:06 1999

Response via : Multiple Level Calibration



ANALab, Inc. - Randolph Facility
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
APRIL 12, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

DIESEL RANGE ORGANIC PETROLEUM HYDROCARBONS BY GC

Client: GCI
Sample Source: 960285
Sample Date: 03/11/99
Sample ID: AST-2
Sampled by: Customer

At Lab Date: 03/15/99

Lab Number: 306398
Sample wt/vol: 25
Sample Matrix: Soil
Percent Moisture: 7.73%
Analysis Date: 04/09/99

Final volume: 1
Column used: RTX-5
Dilution Factor 1

Extraction Date: 04/08/99

Parameter	Result mg/kg	Method Blank mg/kg	Minimum Detection Limit mg/kg	Practical Quantitation Limit mg/kg
DRO Petroleum Hydrocarbons	U	U	4.3	4.3

U = Not detected
Results reported as mg/kg (ppm) are reported on a dry weight basis.

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Data File : E:\1\DATA\DA1548.D Vial: 11
 Acq On : 9 Apr 99 3:40 Operator:
 Sample : 306398 Inst : GC 5890_4
 Misc : QDR8195 Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Apr 12 11:15 1999 Quant Results File: DROSOIL.RES

Quant Method : E:\1\METHODS\DROSOIL.M (Chemstation Integrator)
 Title : GC TPH DRO METHOD - Total Area Quantitation
 Last Update : Mon Apr 12 09:21:56 1999
 Response via : Initial Calibration
 DataAcq Meth : DROSOIL.M

Volume Inj. : 1 µl injection
 Signal Phase : Restek RTX-5
 Signal Info : 30 M x 0.53mm x 0.25µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Ortho-Terphenyl	18.04	1280164	18.214 µg/ml
Spiked Amount 20.000		Recovery =	91.07%
Target Compounds			
2) HM DIESEL RANGE	17.00	4233861	60.923 µg/ml <i>cpd</i>

Handwritten signature and date: 2/12/99

Quantitation Report

Data File : E:\1\DATA\DA1548.D

Vial: 11

Acq On : 9 Apr 99 3:40

Operator:

Sample : 306398

Inst : GC 5890_4

Misc : QDR8195

Multiplr: 1.00

IntFile : EVENTS1.E

Quant Time: Apr 12 11:15 1999 Quant Results File: DROSOIL.RES

Quant Method : E:\1\METHODS\DROSOIL.M (Chemstation Integrator)

Title : GC TPH DRO METHOD - Total Area Quantitation

Last Update : Mon Apr 12 09:21:56 1999

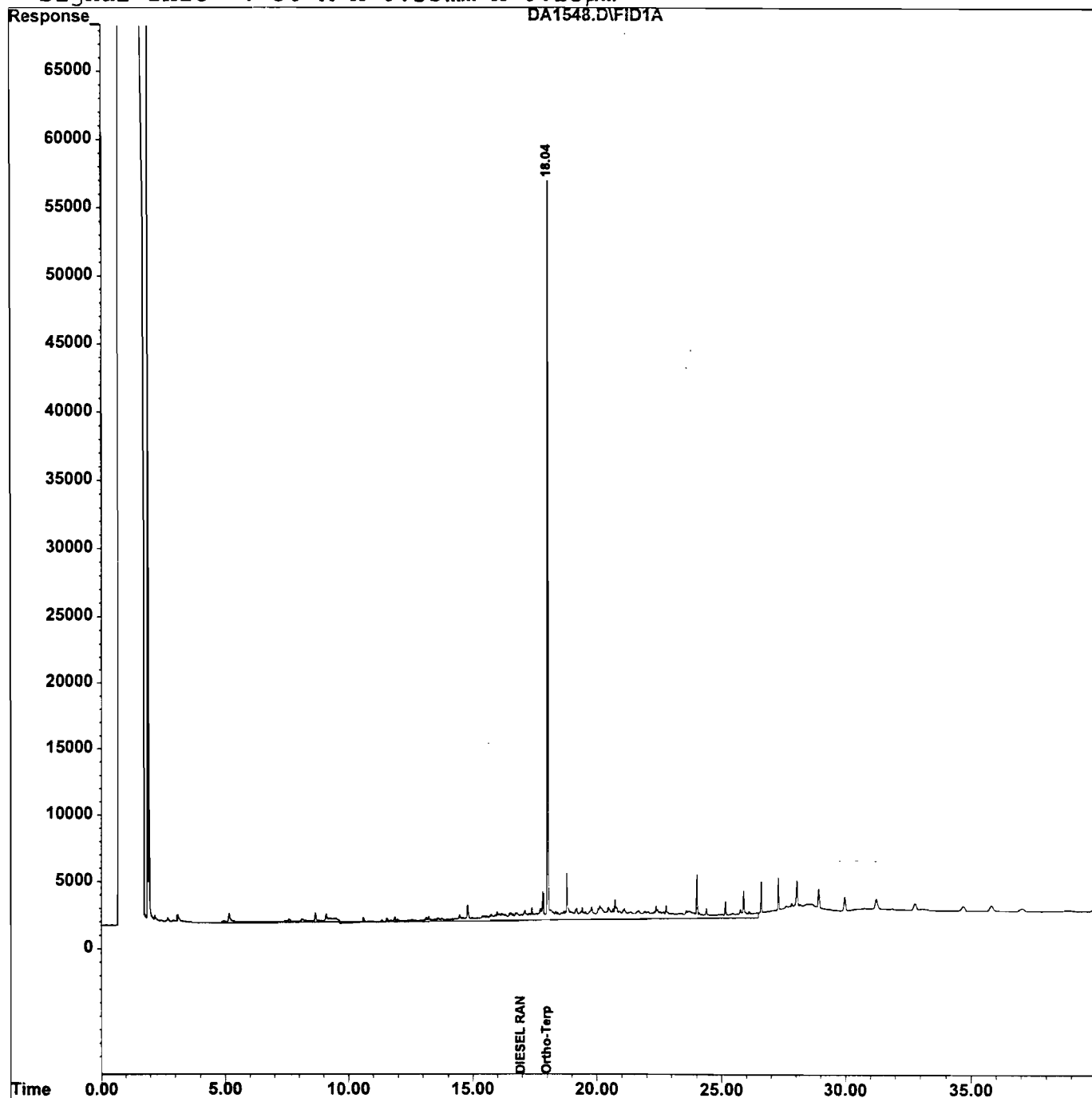
Response via : Multiple Level Calibration

DataAcq Meth : DROSOIL.M

Volume Inj. : 1 µl injection

Signal Phase : Restek RTx-5

Signal Info : 30 M x 0.53mm x 0.25µm



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1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
MARCH 25, 1999

Certified for: NJ, PA, DE, CT, NY (DOH)
NJ #14116 NY #11376
US EPA CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 306398
Client: GCI
Sample source: 960285
Sample ID: AST-2
Sample date: 03/11/99
Sampled by: Customer
At lab date: 03/15/99
Matrix: SOIL
Percent Moisture: 7.73 %

ICP/FURNACE Initial weight: 1.00 g ICP/FURNACE Final volume: 100 ml
Mercury Initial weight: 0.50 g Mercury Final volume: 100 ml
Results in mg/Kg dry weight basis.

Parameter	Sample Result	Method	Minimum	Dilution Factor	Analysis Date
		Blank Analysis	Detection Limit		
Arsenic	2.60	U	0.434	1	03/23/99
Barium	5.64	U	0.542	1	03/23/99
Cadmium	U	U	0.542	1	03/23/99
Chromium	1.62	U	0.542	1	03/23/99
Lead	2.93	U	0.434	1	03/23/99
Mercury	U	U	0.043	1	03/22/99
Selenium	U	U	0.434	1	03/23/99
Silver	U	U	0.542	1	03/23/99

U = Not Detected

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LYN

ANALab, Inc. - Randolph Facility
 1152 Route 10
 Randolph, NJ 07869
 973-584-0330, FAX: 973-584-0515
 APRIL 16, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

TARGET COMPOUND LIST - VOLATILE ANALYSIS BY GC/MS

Lab Number: 306399 Data File: >A3664
 Client: GCI
 Sample source: 960285
 Sample ID: Trip Blank
 Sample date: 03/11/99
 Sampled by: Customer Analysis Date: 03/16/99 Column: DB-624
 At lab date: 03/15/99 Dilution Factor: 1
 Matrix: Water Init Sample volume= 5ml Final volume= 5ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume

Parameter	Result ug/l	Method Blank ug/l	Practical Quantitation Limit ug/l	Minimum Detection Limit ug/l
Chloromethane	U	U	5	4.6
Bromomethane	U	U	5	3.8
Vinyl chloride	U	U	5	1.7
Chloroethane	U	U	5	1.8
Methylene chloride	4.6J #	U	5	2.7
Acetone	U	U	20	4.5
Carbon disulfide	U	U	5	1.7
1,1-Dichloroethene	U	U	5	1.7
1,1-Dichloroethane	U	U	5	1.4
trans-1,2-Dichloroethene	U	U	5	1.7
cis-1,2-Dichloroethene	U	U	5	1.7
Chloroform	U	U	5	1.6
1,2-Dichloroethane	U	U	5	1.9
2-Butanone	U	U	20	2.4
1,1,1-Trichloroethane	U	U	5	0.5
Carbon tetrachloride	U	U	5	0.6
Bromodichloromethane	U	U	5	0.6
1,2-Dichloropropane	U	U	5	0.6
cis-1,3-Dichloropropene	U	U	5	0.5
Trichloroethene	U	U	5	0.6
Dibromochloromethane	U	U	5	0.6
1,1,2-Trichloroethane	U	U	5	0.5
Benzene	U	U	5	0.5
trans-1,3-Dichloropropene	U	U	5	0.6
Bromoform	U	U	5	0.8
4-Methyl-2-pentanone	U	U	20	1.1
2-Hexanone	U	U	20	1.2
Tetrachloroethene	U	U	5	0.7
1,1,2,2-Tetrachloroethane	U	U	5	0.5
Toluene	U	U	5	0.8
Chlorobenzene	U	U	5	0.6
Ethylbenzene	U	U	5	0.7
Styrene	U	U	5	1
p&m-Xylene	U	U	5	0.9
o-Xylene	U	U	5	0.9
total Xylenes	U	U	5	0.9

ug/l = micrograms/liter or ppb

ND: Not Determined.

IND: Indeterminable.

U: Indicates a compound was analyzed for but not detected at the PQL.

J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.

B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

Methylene chloride: This compound is not flagged with a B since it was not found in corresponding blank. However, this compound is commonly found as a laboratory contaminant.

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 ALI

QUANT REPORT

Page 1

Operator ID: AT1446
 Output File: ^A3664::X1
 Data File: >A3664::B1
 Name: INST 59701, SAMPLE
 Misc: 306399TB ,L,5,5, 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990316 21:44
 Injected at: 990316 21:13
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: IDR6AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990315 18:22

Last Qual Time: <none>

Compound	R.T.	Q	Ion	Area	Conc	Units	q
1) *Pentafluorobenzene	7.28	168.0		155744	56.00	ug/L	91
12) Methylene Chloride	4.18	49.0		8734	4.64	ug/L	77
26) Dibromofluoromethane	7.39	113.0		122635	55.99	ug/L	100
28) 1,2-Dichloroethane-d4	8.41	65.0		65895	55.16	ug/L	88
32) *1,4-Difluorobenzene	9.25	114.0		145465	50.00	ug/L	98
52) *Chlorobenzene-d5	14.82	117.0		142257M	50.00	ug/L	93
54) Toluene-d8	12.07	98.0		165090	47.28	ug/L	94
67) Bromofluorobenzene	17.05	95.0		161732	43.52	ug/L	97
84) *1,4-Dichlorobenzene-d4	19.19	152.0		108958	50.00	ug/L	92

* Compound is ISTD

AT
 3/17/95

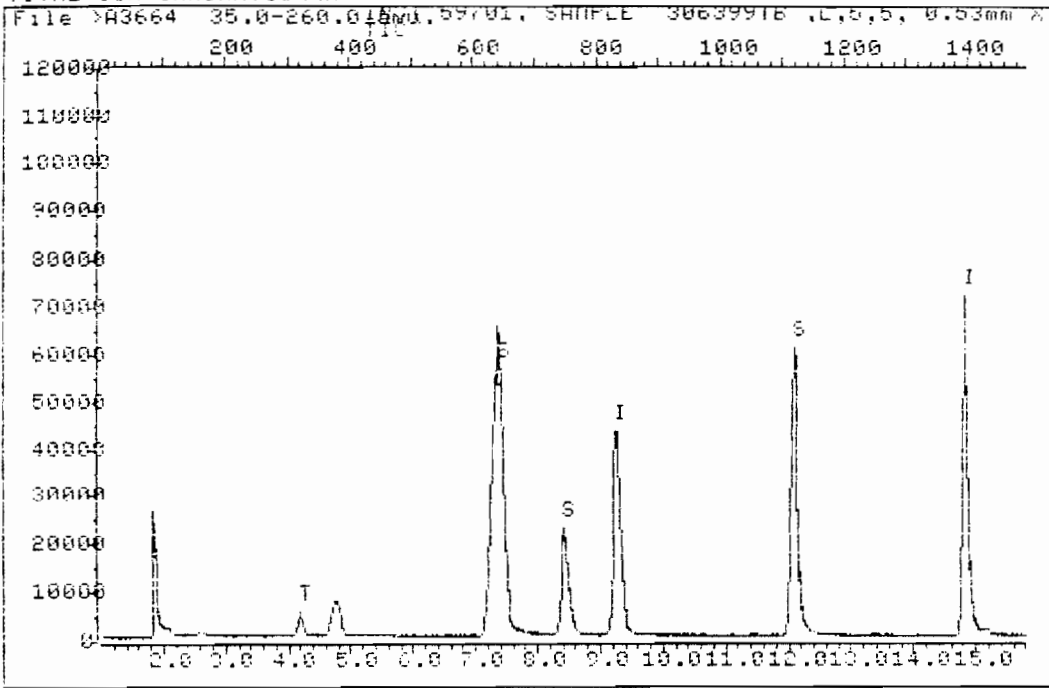
>A3664 INST 59701, SAMPLE 306399TB ,L,5,5, 0.53mm X 75m DB-624
35.01 260.0 TIC

Upslope: .1000 Area Reject: 5.00 % Max Peaks: 9 Bunch: 1 Valley >100 %
Dnslope: -.0100 Results File VDIR78 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	1.83	81	84	101	26154	119626	108169	13.21	2.906
2	4.76	363	380	398	6952	93439	66183	8.08	1.778
3	7.34	612	641	670	65149	855578	819927	100.00	21.997
4	8.41	732	749	770	22014	209506	180517	22.04	4.849
5	9.25	816	834	867	42680	390583	349129	42.63	9.378
6	12.07	1101	1119	1147	60849	473858	444853	54.32	11.949
7	14.82	1381	1396	1418	71716	475132	454175	55.46	12.200
8	17.05	1605	1622	1651	108849	690037	663911	81.07	17.833
9	19.20	1826	1839	1869	108024	668333	637023	77.79	17.111

Sum of corrected areas: 3722887.

TOTAL ION CHROMATOGRAM

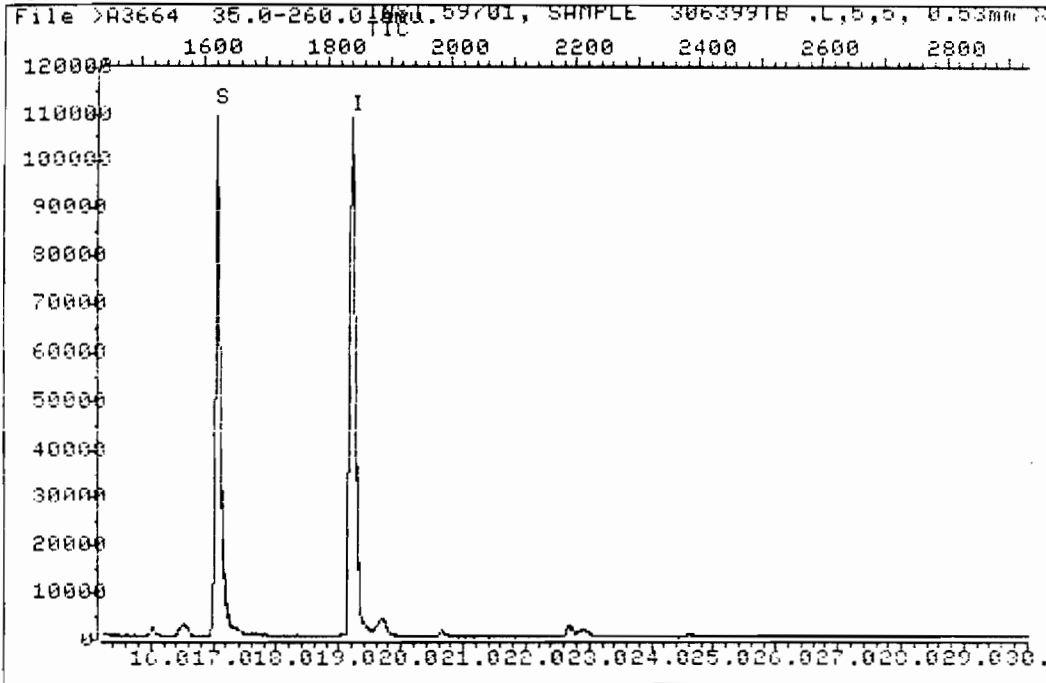


Data File: >A3664::B1 Quant Output File: ^A3664::D
Name: INST 59701. SAMPLE Instrument ID: INST "A"
Misc: 306399TB .L,5,5, 0.53mm X 75m DB-624

Id File: ID36AL::RS
Title: Method 8260B IDFILE
Last Calibration: 990315 18:22 Last Qual Time: <none>

Operator ID: AT1446
Quant Time : 990316 21:44
Injected at: 990316 21:13

TOTAL ION CHROMATOGRAM

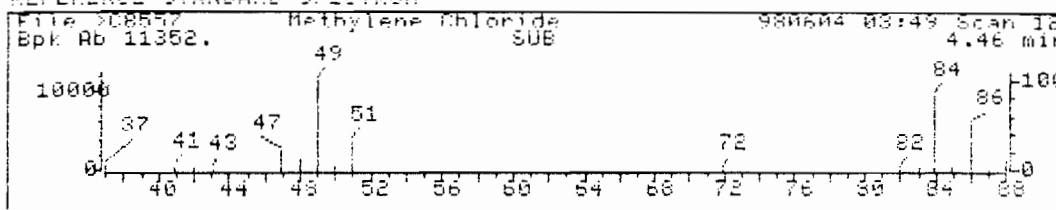


Data File: >A3664::B1 Quant Output File: ^A3664::X1
Name: INST 59701, SAMPLE Instrument ID: INST "A"
Misc: 306399TB ,L,5,5, 0.53mm X 75m DB-624

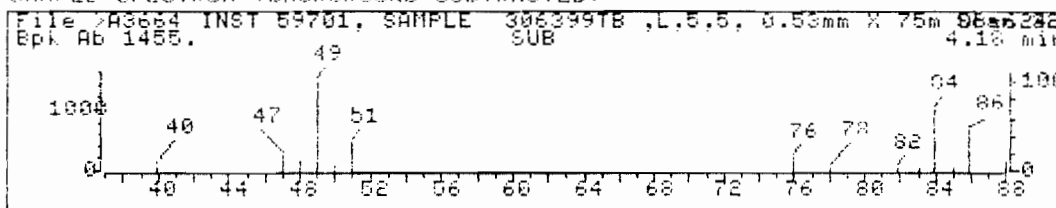
Id File: ID86AL::RS
Title: Method 8260B IDFILE
Last Calibration: 990315 18:22 Last Qual Time: <none>

Operator ID: AT1446
Quant Time : 990316 21:44
Injected at: 990316 21:13

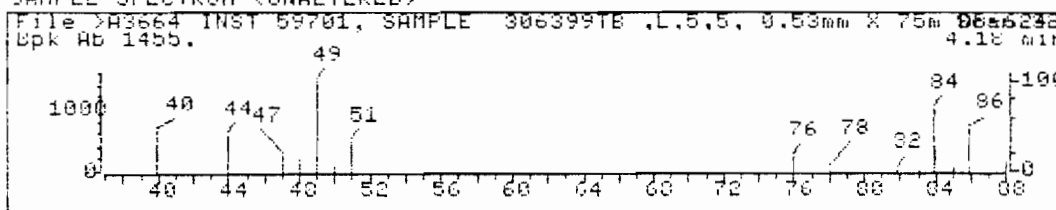
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >A3664::B1 Quant Output File: <A3664::X1
 Name: INST 59701, SAMPLE Instrument ID: INST "A"
 Misc: 306399TB ,L,5,5, 0.53mm X 75m DB-624
 Quant Time: 990316 21:44 Quant ID File: ID86AL::RS
 Injected at: 990316 21:13 Last Calibration: 990315 16:20
 Last Qual Time: <none>

Compound No : 12
 Compound Name : Methylene Chloride
 Scan Number : 322
 Retention Time : 4.18 min.
 Quant Ion : 49.0
 Area : 8734
 Concentration : 4.64 ug/L
 q-value : 77

ANALab, Inc. - Randolph Facility
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
APRIL 1, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

BROMOFLUOROBENZENE (BFB) GC/MS TUNING AND MASS CALIBRATION
VOLATILE ORGANIC COMPOUNDS

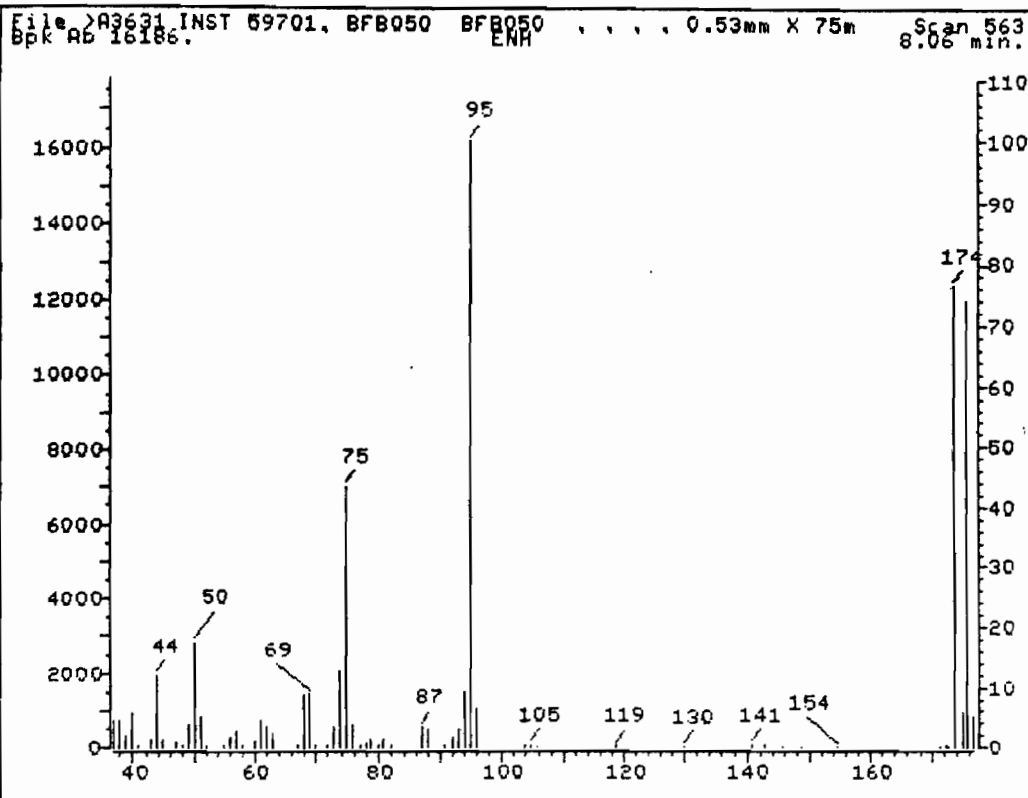
INSTRUMENT ID: 59701 BATCH #: QV5853
LAB FILE NO: >A3631 BFB INJECTION TIME: 10:03
BFB INJECTION DATE: 03/15/99

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

LAB SAMPLE ID	DATA FILE	ANALYSIS DATE	ANALYSIS TIME
VSTD050	>A3632	03/15/99	10:49
VSTD010	>A3633	03/15/99	12:16
VSTD100	>A3635	03/15/99	13:31
VSTD020	>A3636	03/15/99	14:08
VSTD200	>A3637	03/15/99	15:13

See next page for ION ABUNDANCE CRITERIA and Spectra

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ALI



GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

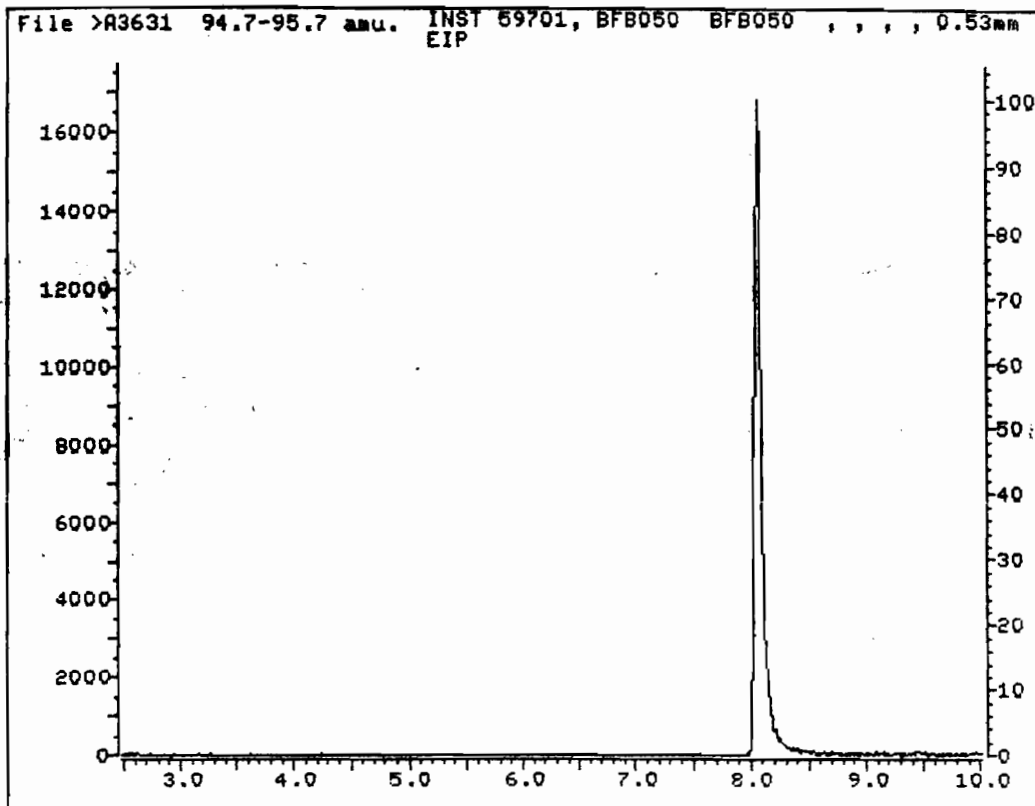
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	17.44	17.44	Ok
75	30-60% of mass 95	43.43	43.43	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.37	6.37	Ok
173	Less than 1% of mass 95	.22	.22	Ok
174	Greater than 50% of mass 95	76.52	76.52	Ok
175	5-9% of mass 174	5.70	7.44	Ok
176	95-101% of mass 174	74.12	96.86	Ok
177	5-9% of mass 176	5.01	6.76	Ok

Injection Date: 03/15/99
 Injection Time: 10:03

Data File: >A3631
 Scan: 563

Analyst's signature: AT

Associated samples: _____



>A3631 INST 59701, BFB050 BFB050 , , , 0.53mm X 75m DB-624
563 NRM ENH

File: >A3631 Scan #: 563 Retn. time: 8.06

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.95	4.611	51.90	.268	71.95	.292	87.90	3.087	140.85	.550
37.95	4.364	55.00	.519	72.95	3.518	90.80	.278	142.75	.439
38.95	2.199	56.00	1.621	73.95	12.591	92.00	1.938	145.75	.060
39.95	5.855	57.00	2.704	74.95	43.425	93.00	2.974	148.75	.054
40.95	.531	57.90	.365	75.95	3.688	93.90	9.257	154.65	.078
42.95	1.417	60.00	1.050	77.05	.589	95.00	100.000	171.60	.198
43.95	11.994	61.00	4.368	77.95	.647	96.00	6.372	172.60	.406
44.95	1.571	62.00	3.454	78.85	1.565	103.85	.280	172.80	.218
47.00	1.151	62.90	2.583	79.95	.494	104.95	.435	173.85	76.518
48.00	.554	67.05	.348	80.85	1.376	105.85	.231	174.95	5.696
49.00	3.810	67.95	8.569	81.95	.437	118.75	.377	175.85	74.117
50.00	17.437	68.95	8.796	86.90	3.330	130.00	.187	176.85	5.009
51.00	5.025	69.95	.467						

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APRIL 1, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

BROMOFLUOROBENZENE (BFB) GC/MS TUNING AND MASS CALIBRATION
VOLATILE ORGANIC COMPOUNDS

INSTRUMENT ID: 59701
LAB FILE NO: >A3656
BFB INJECTION DATE: 03/16/99

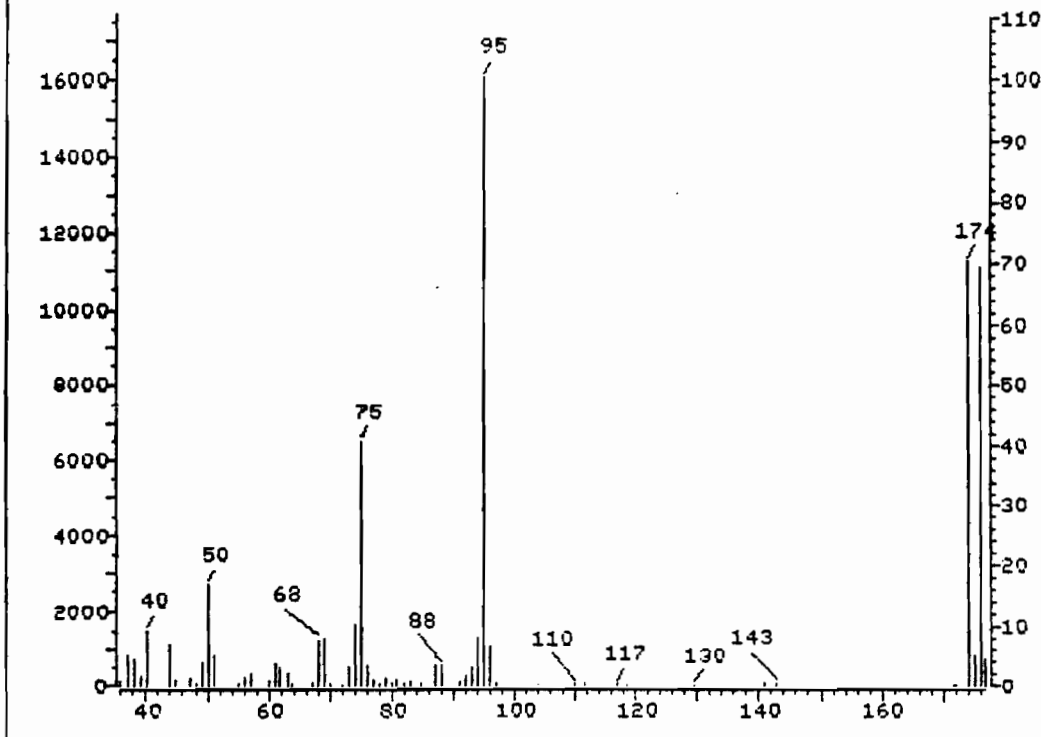
BATCH #: QV5853
BFB INJECTION TIME: 16:03

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

LAB SAMPLE ID	DATA FILE	ANALYSIS DATE	ANALYSIS TIME
VSTD050	>A3658	03/16/99	17:30
BLANK	>A3659	03/16/99	18:07
QA SAMPLE	>A3662	03/16/99	19:59
BLANK SPK	>A3663	03/16/99	20:36
306399	>A3664	03/16/99	21:13
306389	>A3665	03/16/99	21:50

See next page for ION ABUNDANCE CRITERIA and Spectra

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GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

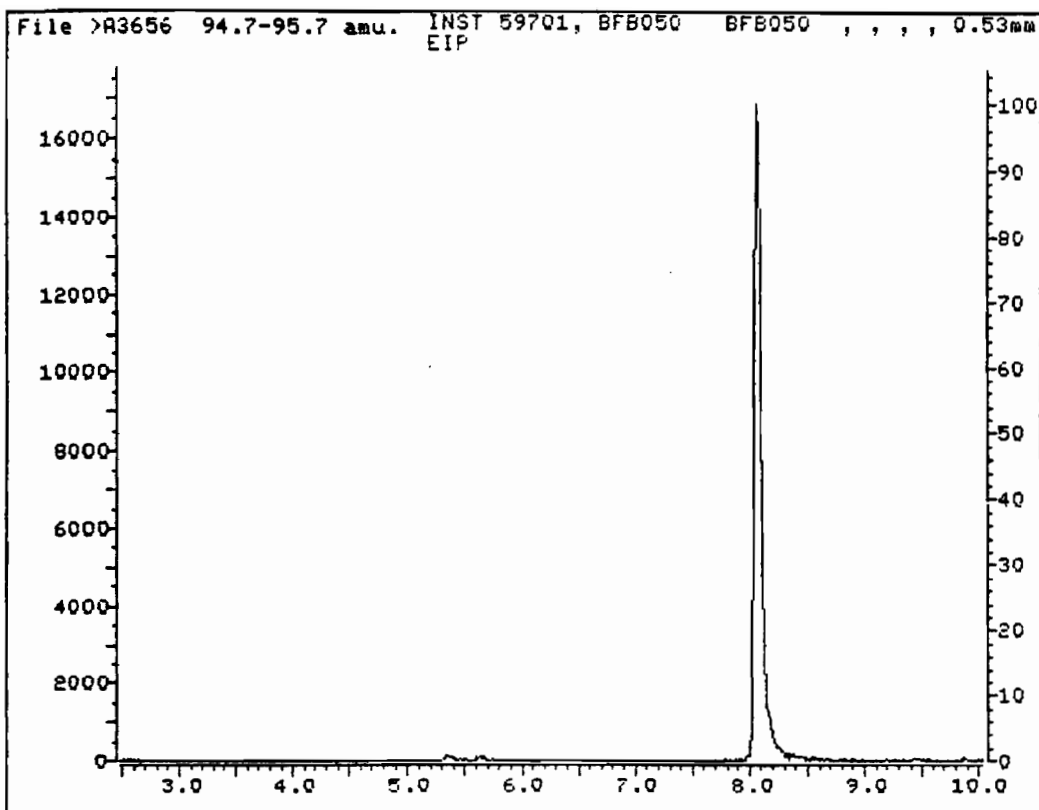
m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
50	15-40% of mass 95	16.65	16.65	Ok
75	30-60% of mass 95	40.39	40.39	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.66	6.66	Ok
173	Less than 1% of mass 95	0.00	0.00	Ok
174	Greater than 50% of mass 95	70.25	70.25	Ok
175	5-9% of mass 174	5.21	7.41	Ok
176	95-101% of mass 174	69.28	98.62	Ok
177	5-9% of mass 176	4.60	6.63	Ok

Injection Date: 03/16/99
 Injection Time: 16:03

Data File: >A3656
 Scan: 564

Analyst's signature: AT

Associated samples: _____



>A3656 INST 59701, BFB050 BFB050 , , , 0.53mm X 75m DB-624
564 NRM ENH

File: >A3656 Scan #: 564 Retn. time: 8.06

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.95	.858	55.00	.300	71.95	.192	84.80	.476	111.75	.265
37.05	5.147	56.00	1.295	72.95	3.224	87.00	3.311	116.95	.416
38.05	4.459	57.10	2.039	74.05	10.311	88.00	3.348	118.75	.246
39.05	1.923	60.00	.895	75.05	40.389	90.90	.761	129.70	.103
40.05	9.128	61.00	3.873	75.95	3.468	92.00	1.704	140.85	.457
43.95	7.000	61.90	3.251	76.95	1.222	93.00	3.044	142.85	.519
44.95	.935	63.00	2.163	78.05	.424	94.00	7.960	171.70	.217
47.10	1.394	63.90	.389	78.95	1.400	95.00	100.000	172.00	.058
48.00	.515	66.95	.327	79.95	.310	96.00	6.657	173.95	70.251
49.00	3.669	67.95	7.565	80.85	1.228	97.00	.269	174.95	5.207
50.00	16.648	68.95	7.881	81.95	.356	103.85	.190	175.95	69.283
51.10	5.046	70.05	.482	82.90	.734	109.85	.294	176.85	4.595

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NJ #14116 NY #11376
US EPA CLP Lab

BROMOFLUOROBENZENE (BFB) GC/MS TUNING AND MASS CALIBRATION
VOLATILE ORGANIC COMPOUNDS

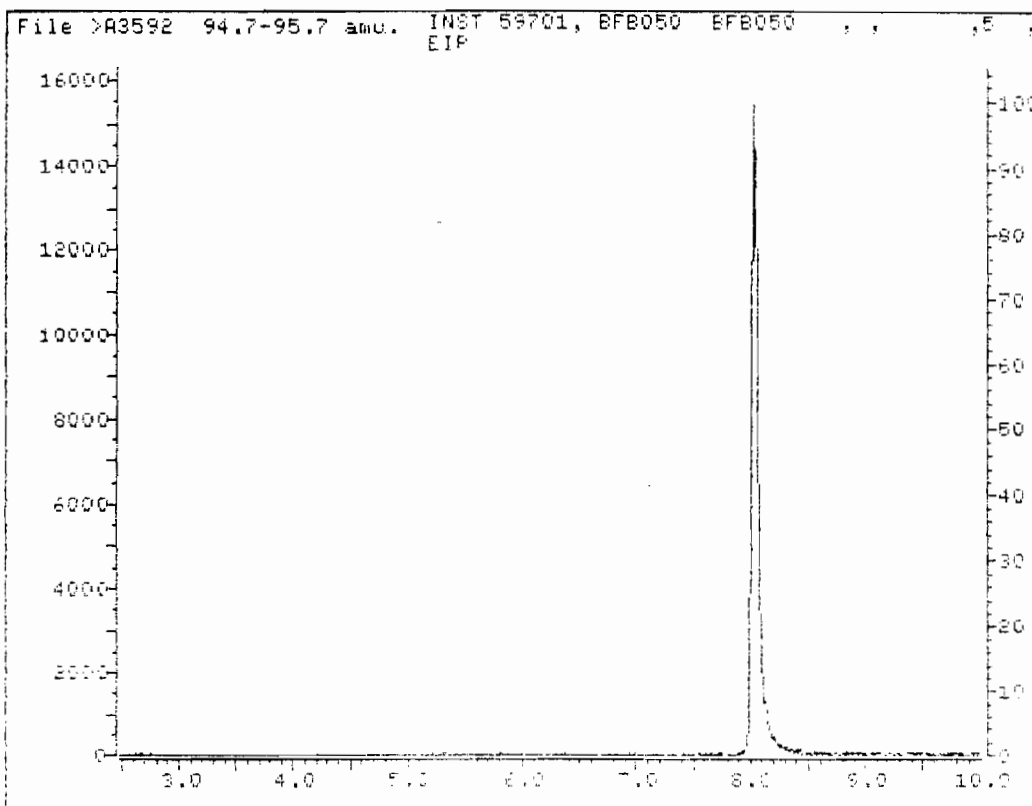
INSTRUMENT ID: 59701 BATCH #: QV5854
LAB FILE NO: >A3592 BFB INJECTION TIME: 9:01
BFB INJECTION DATE: 03/11/99

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

LAB SAMPLE ID	DATA FILE	ANALYSIS DATE	ANALYSIS TIME
VSTD050	>A3593	03/11/99	09:41
VSTD010	>A3594	03/11/99	10:49
VSTD200	>A3595	03/11/99	11:26
VSTD100	>A3596	03/11/99	12:03
VSTD020	>A3597	03/11/99	12:40

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>A3592 INST 59701, BFB050 BFB050 , , ,5 0.53mm x 75μ DB-

580 NRM ENH

File: >A3592 Scan #: 580 Retn. time: 8.03

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.05	.858	52.00	.208	71.95	.487	85.90	3.562	129.00	.076
37.05	4.694	55.00	.850	72.95	2.922	87.90	3.128	129.50	.215
38.05	4.762	56.10	1.557	73.95	11.866	91.00	.725	132.90	.073
38.95	2.525	56.90	2.951	74.95	42.697	91.90	2.010	140.85	.416
39.95	9.298	60.00	.628	75.95	3.480	93.00	3.166	152.05	.161
41.05	.824	60.90	3.288	76.85	.865	94.00	8.906	154.35	.132
42.95	1.188	62.00	3.866	77.85	1.417	95.00	100.000	171.80	.803
43.95	8.578	62.90	2.443	78.85	1.786	96.00	6.766	172.80	.711
45.05	.956	64.00	.555	79.85	.586	96.80	.208	173.85	80.050
47.10	1.058	66.95	.431	80.95	1.814	103.85	.276	174.85	6.133
48.00	.378	67.95	8.220	81.85	.380	104.95	.359	175.85	80.033
49.10	3.647	68.95	9.276	83.00	.220	105.15	.112	176.85	5.242
50.00	16.187	69.95	.780	84.10	.156	110.95	.154	177.75	.050
51.00	5.240	71.05	.257	84.90	.461	119.00	.501		

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NJ #14116 NY #11376
US EPA CLP Lab

BROMOFLUOROBENZENE (BFB) GC/MS TUNING AND MASS CALIBRATION
VOLATILE ORGANIC COMPOUNDS

INSTRUMENT ID: 59701
LAB FILE NO: >A3679
BFB INJECTION DATE: 03/17/99

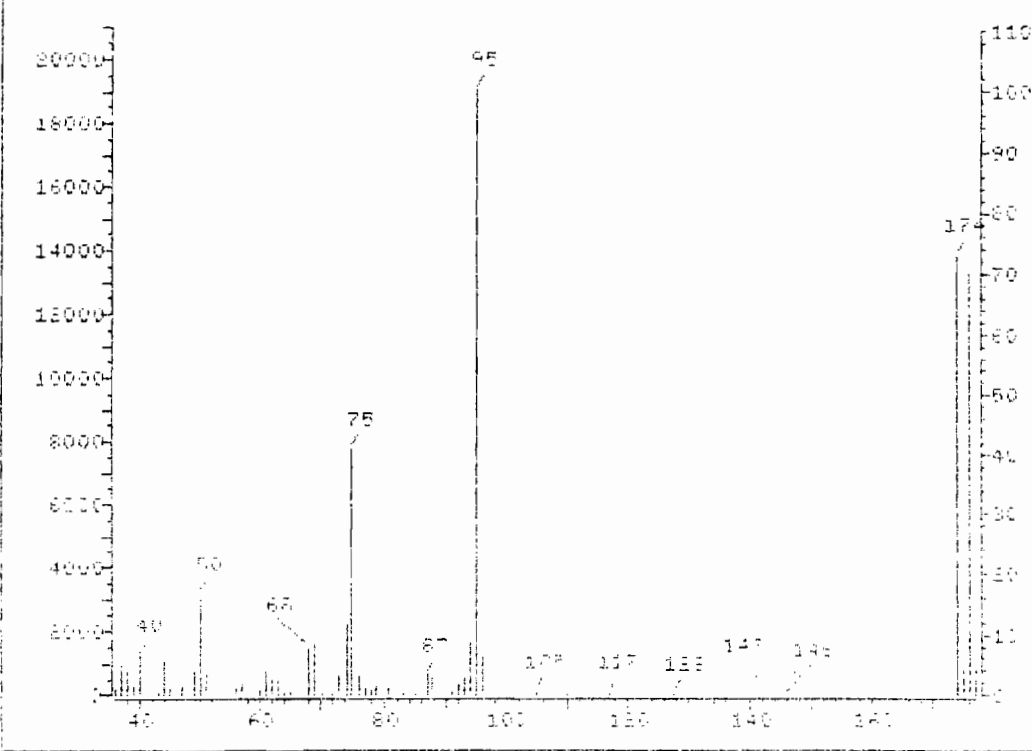
BATCH #: QV5854
BFB INJECTION TIME: 13:07

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

LAB SAMPLE ID	DATA FILE	ANALYSIS DATE	ANALYSIS TIME
VST050	>A3680	03/17/99	13:45
BLANK	>A3681	03/17/99	14:46
QA SAMPLE	>A3682	3/17/99	15:40
BLANK MS	>A3683	3/17/99	16:18
306333MS	>A3685	3/17/99	17:32
306333MSD	>A3686	3/17/99	18:10
306390	>A3688	03/17/99	19:24
306391	>A3689	03/17/99	20:01
306392	>A3690	03/17/99	20:37
306393	>A3691	03/17/99	21:14
306394	>A3692	03/17/99	21:50
306395	>A3693	03/17/99	22:27
306396	>A3694	03/17/99	23:03
306397	>A3695	03/17/99	23:40
306398	>A3696	3/17/99	00:16

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GC/MS PERFORMANCE SUMMARY

Bromofluorobenzene (BFB)

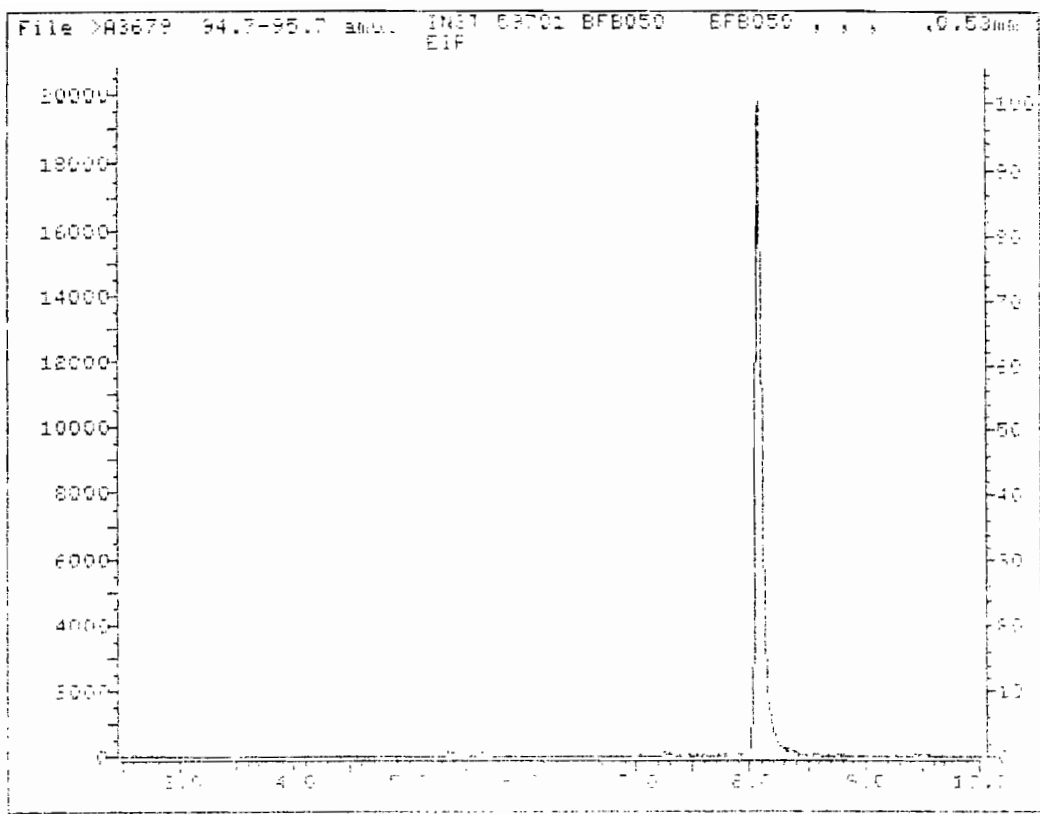
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	16.79	16.79	OK
75	30-60% of mass 95	40.75	40.75	OK
95	Base peak, 100% relative abundance	100.00	100.00	OK
96	5-8% of mass 95	6.50	6.50	OK
173	Less than 1% of mass 95	0.00	0.00	OK
174	Greater than 50% of mass 95	72.99	72.99	OK
175	5-8% of mass 174	5.03	6.89	OK
176	95-101% of mass 174	70.02	95.93	OK
177	5-8% of mass 176	4.62	6.61	OK

Injection Date: 03/17/99
 Injection Time: 13:07

Data File: 163078
 Scan: 565

Analyst's signature: AT

Associated samples: _____



File: A3679 Scan #: 555 Ret. time: 9.08
INST 68702 BFB050 BFB050 , , , .0.50mm x75m db-6.14
NRM FWH

File: A3679 Scan #: 555 Ret. time: 9.08

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.05	1.228	51.00	4.744	70.05	1.538	95.00	100.000	105.95	1.359
37.05	4.736	55.00	1.220	71.95	1.449	87.00	3.296	115.65	1.067
37.95	3.974	56.00	1.237	72.95	3.039	87.90	2.992	116.95	1.335
39.05	1.876	57.00	1.951	74.05	11.459	91.00	1.781	119.00	1.323
39.95	6.430	59.90	1.614	74.95	40.754	92.00	1.927	127.80	1.159
42.05	1.147	60.90	2.873	76.05	3.539	93.00	2.832	140.95	1.431
43.05	1.440	62.00	3.283	77.05	1.010	94.00	8.928	142.75	1.486
43.95	6.161	63.00	2.971	78.05	1.842	95.00	100.000	145.85	1.044
44.95	1.120	63.90	1.417	78.95	1.361	96.00	6.503	173.95	72.986
47.00	1.298	64.85	1.751	79.95	1.579	97.00	1.393	174.95	5.025
48.00	1.515	67.05	1.875	80.95	1.319	103.85	1.187	175.95	70.018
48.00	3.855	67.95	2.438	82.00	1.320	104.95	1.463	176.95	4.631
50.00	16.781	68.95	1.167						

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APRIL 1, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

Volatile Method Blank Summary by GC/MS

Data File: >A3659
Batch No: QV5853
Matrix: Water

Associated Samples

Sample #	Data File	Analysis Date
QA SAMPLE	>A3662	03/16/99
BLANK SPK	>A3663	03/16/99
306389	>A3665	03/16/99
306399TB	>A3664	03/16/99

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 APRIL 1, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

TARGET COMPOUND LIST - VOLATILE ANALYSIS BY GC/MS

Sample ID: Method Blank
 Data File: >A3659
 Analysis Date: 03/16/99

Batch Number: QV5853
 Dilution Factor: 1
 Column: DB-624

Matrix: Water Init Sample volume= 5ml Final volume= 5ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume

Parameter	Method Blank ug/l	Practical Quantitation Limit ug/l	Minimum Detection Limit ug/l
Chloromethane	U	5	4.6
Bromomethane	U	5	3.8
Vinyl chloride	U	5	1.7
Chloroethane	U	5	1.8
Methylene chloride	U	5	2.7
Acetone	U	20	4.5
Carbon disulfide	U	5	1.7
1,1-Dichloroethene	U	5	1.7
1,1-Dichloroethane	U	5	1.4
trans-1,2-Dichloroethene	U	5	1.7
cis-1,2-Dichloroethene	U	5	1.7
Chloroform	U	5	1.6
1,2-Dichloroethane	U	5	1.9
2-Butanone	U	20	2.4
1,1,1-Trichloroethane	U	5	0.5
Carbon tetrachloride	U	5	0.6
Bromodichloromethane	U	5	0.6
1,2-Dichloropropane	U	5	0.6
cis-1,3-Dichloropropene	U	5	0.5
Trichloroethene	U	5	0.6
Dibromochloromethane	U	5	0.6
1,1,2-Trichloroethane	U	5	0.5
Benzene	U	5	0.5
trans-1,3-Dichloropropene	U	5	0.6
Bromoform	U	5	0.8
4-Methyl-2-pentanone	U	20	1.1
2-Hexanone	U	20	1.2
Tetrachloroethene	U	5	0.7
1,1,2,2-Tetrachloroethane	U	5	0.5
Toluene	U	5	0.8
Chlorobenzene	U	5	0.6
Ethylbenzene	U	5	0.7
Styrene	U	5	1
p&m-Xylene	U	5	0.9
o-Xylene	U	5	0.9
total Xylenes	U	5	0.9

ug/l = micrograms/liter or ppb

ND: Not Determined.

IND: Indeterminable.

U: Indicates a compound was analyzed for but not detected at the PQL.

J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.

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 Thomas Mancuso, Lab Mgr.
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QUANT REPORT

Page 1

Operator ID: AT1446 Quant Rev: 7 Quant Time: 990316 18:38
 Output File: ^A3659::X1 Injected at: 990316 18:07
 Data File: >A3659::B1 Dilution Factor: 1.00000
 Name: INST 59701, BLANK Instrument ID: INST "A"
 Misc: BLANK ,L,5,5, 0.53mm X 75mDB-624

ID File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990315 18:22 Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *Pentafluorobenzene	7.33	168.0	130652	50.00	ug/L	90
26) Dibromofluoromethane	7.43	113.0	108339	58.97	ug/L	100
28) 1,2-Dichloroethane-d4	8.44	65.0	61730	61.60	ug/L	87
32) *1,4-Difluorobenzene	9.28	114.0	122268	50.00	ug/L	98
52) *Chlorobenzene-d5	14.81	117.0	130504	50.00	ug/L	94
54) Toluene-d8	12.08	98.0	141697	44.23	ug/L	91
67) Bromofluorobenzene	17.06	95.0	153215	44.95	ug/L	98
84) *1,4-Dichlorobenzene-d4	19.19	152.0	97554	50.00	ug/L	94

* Compound is ISTD

AT
3/16/99

:RU,INT,,1:.01

>A3659 INST 59701, BLANK BLANK , , , 0.53mm X 75m DB-624

35.01 260.0 TIC

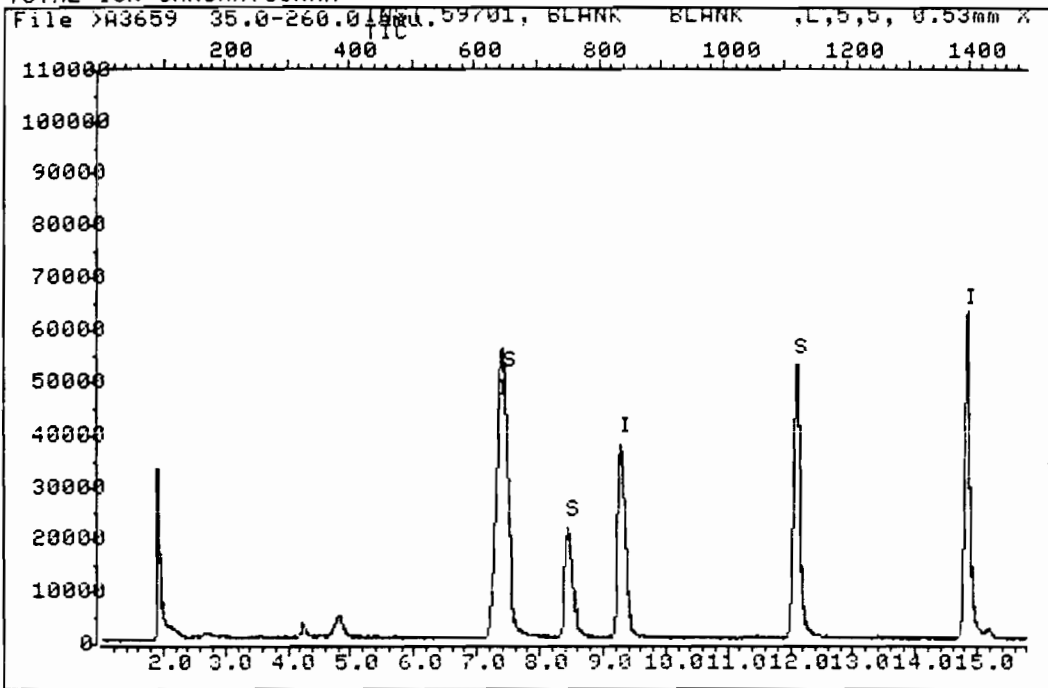
Upslope: .1000 Area Reject: 5.00 % Max Peaks: 10 Bunch: 1 Valley >100 %
Dnslope: -.0100 Results File VDIR78 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
<i>CO2</i> 1	1.89	87	90	92	32512	63465	60629	8.73	1.824
2	1.92	92	93	105	31834	90462	69118*	9.95	2.080
<i>S&I</i> 3	7.40	621	647	675	55234	738511	694834	100.00	20.906
<i>S</i> 4	8.44	736	752	772	20787	197357	169762	24.43	5.108
<i>I</i> 5	9.28	818	836	855	36919	326421	299312	43.08	9.006
<i>S</i> 6	12.08	1102	1119	1146	52254	411572	382760	55.09	11.516
<i>I</i> 7	14.82	1379	1396	1419	62832	427037	403053	58.01	12.127
<i>S</i> 8	17.05	1606	1621	1641	99117	629410	609041	87.65	18.325
<i>I</i> 9	19.19	1825	1838	1864	98884	622328	580519	83.55	17.466
<i>41%</i> 10	19.69	1871	1888	1902	6114	86360	54586	7.86	1.642

Sum of corrected areas: 3323614.

:RU,AL,,1

TOTAL ION CHROMATOGRAM

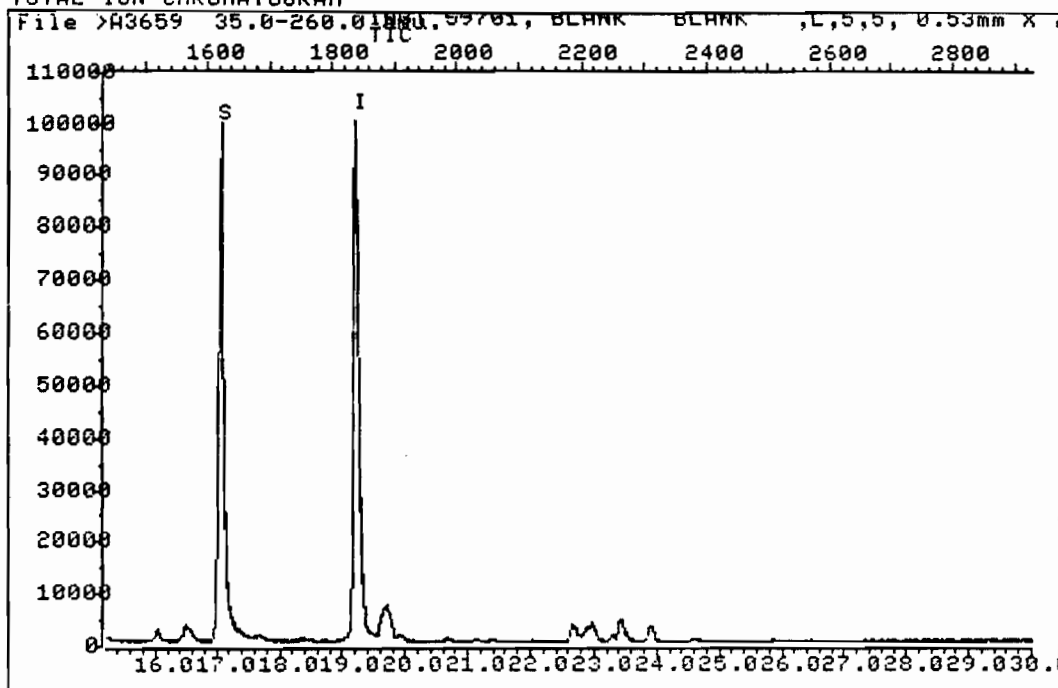


Data File: >A3659::B1 Quant Output File: ^A3659::X1
Name: INST 59701, BLANK Instrument ID: INST "A"
Misc: BLANK ,L,5,5, 0.53mm X 75mDB-624

Id File: ID86AL::RS
Title: Method 8260B IDFILE
Last Calibration: 990315 18:22 Last Qcal Time: <none>

Operator ID: AT1446
Quant Time : 990316 18:38
Injected at: 990316 18:07

TOTAL ION CHROMATOGRAM



Data File: >A3659::B1 Quant Output File: ^A3659::X1
Name: INST 59701, BLANK Instrument ID: INST "A"
Misc: BLANK ,L,5,5, 0.53mm X 75mDB-624

Id File: ID86AL::RS
Title: Method 8260B IDFILE
Last Calibration: 990315 18:22 Last Qual Time: <none>

Operator ID: AT1446
Quant Time : 990316 18:38
Injected at: 990316 18:07

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APRIL 1, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

Volatile Method Blank Summary by GC/MS

Data File: >A3681
Batch No: QV5854
Matrix: Soil

Associated Samples

Sample #	Data File	Analysis Date
306390	>A3688	03/17/99
306391	>A3689	03/17/99
306392	>A3690	03/17/99
306393	>A3691	03/17/99
306394	>A3692	03/17/99
306395	>A3693	03/17/99
306396	>A3694	03/17/99
306397	>A3695	03/17/99
306398	>A3696	03/18/99
QA SAMPLE	>A3682	03/17/99
BLANK MS	>A3683	03/17/99
306333MS	>A3685	03/17/99
306333MSD	>A3686	03/17/99

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Certified for: NJ, PA, DE, CT, NY(DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

TARGET COMPOUND LIST - VOLATILE ANALYSIS BY GC/MS

Sample ID: Method Blank Batch Number: QV5854
 Data File: >A3681 Dilution Factor: 1
 Analysis Date: 03/17/99 Column: DB-624

Matrix: Soil Init Sample Wght= 5g Final volume= 5ml

Percent Moisture: 0%
 Initial sample weight DWB= 5g

Conc. in Sample = (Conc. on Quant Report/Initial Sample Weight DWB)*Final Volume

Parameter	Method Blank ug/kg	Practical Quantitation Limit ug/kg	Minimum Detection Limit ug/kg
Chloromethane	U	5	4.6
Bromomethane	U	5	3.8
Vinyl chloride	U	5	1.7
Chloroethane	U	5	1.8
Methylene chloride	U	5	2.7
Acetone	U	20	4.5
Carbon disulfide	U	5	1.7
1,1-Dichloroethene	U	5	1.7
1,1-Dichloroethane	U	5	1.4
trans-1,2-Dichloroethene	U	5	1.7
cis-1,2-Dichloroethene	U	5	1.7
Chloroform	U	5	1.6
1,2-Dichloroethane	U	5	1.9
2-Butanone	U	20	2.4
1,1,1-Trichloroethane	U	5	0.5
Carbon tetrachloride	U	5	0.6
Bromodichloromethane	U	5	0.6
1,2-Dichloropropane	U	5	0.6
cis-1,3-Dichloropropene	U	5	0.5
Trichloroethene	U	5	0.6
Dibromochloromethane	U	5	0.6
1,1,2-Trichloroethane	U	5	0.5
Benzene	U	5	0.5
trans-1,3-Dichloropropene	U	5	0.6
Bromoform	U	5	0.8
4-Methyl-2-pentanone	U	20	1.1
2-Hexanone	U	20	1.2
Tetrachloroethene	U	5	0.7
1,1,2,2-Tetrachloroethane	U	5	0.5
Toluene	U	5	0.8
Chlorobenzene	U	5	0.6
Ethylbenzene	U	5	0.7
Styrene	U	5	1
p&m-Xylene	U	5	0.9
o-Xylene	U	5	0.9
total Xylenes	U	5	0.9

ug/kg = micrograms/kilogram or ppb
 Results are in ug/kg (ppb); they are reported on a dry weight basis.
 ND: Not Determined.
 IND: Indeterminable.
 U: Indicates a compound was analyzed for but not detected at the PQL.
 J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.

ANALab, Inc. - Randolph Facility
 Thomas Mancuso, Lab Mgr.
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 ALI

>A3681 INST 59701 BLANK BLANK ,S,S,S ,0.53mm x75m db-624

35.01 260.0 TIC

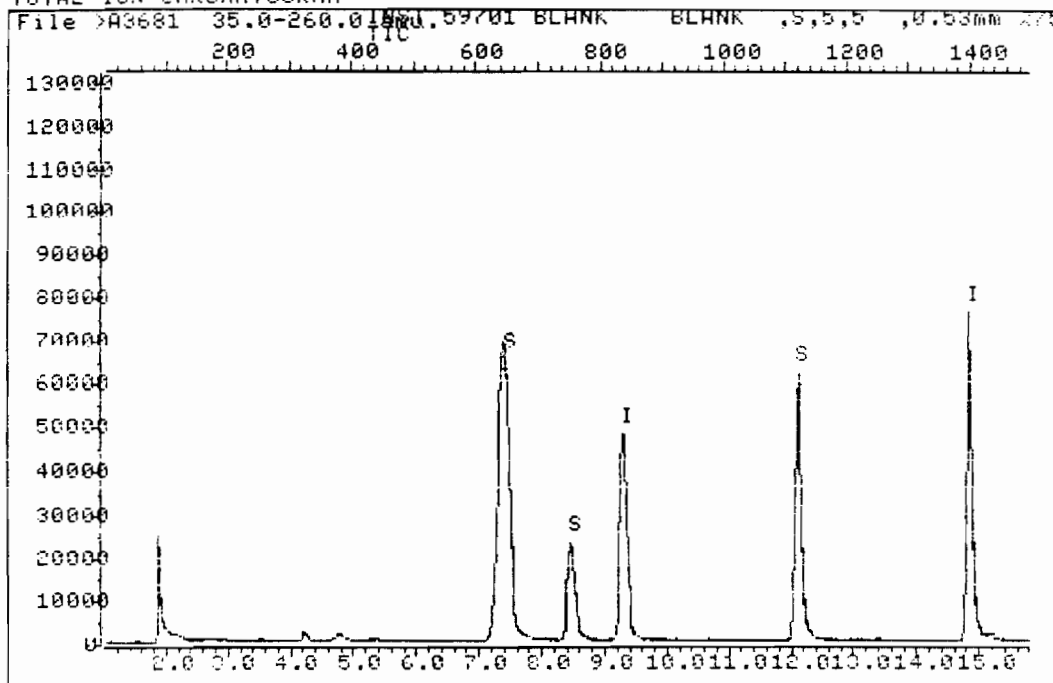
Upslope: .1000 Area Reject: 5.00 % Max Peaks: 8 Bunch: 1 Valley >100 %

Dnslope: -.0100 Results File VDIR78 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
<i>CO</i> 1	1.86	84	87	89	24536	50392	47841	5.46	1.264
<i>S&I</i> 2	7.38	618	645	676	68635	914107	876484	100.00	23.158
<i>S</i> 3	8.44	735	752	766	22588	199886	176050	20.09	4.651
<i>I</i> 4	9.29	819	838	856	47558	409725	381526	43.53	10.080
<i>S</i> 5	12.09	1105	1121	1148	61546	473686	446078	50.89	11.786
<i>I</i> 6	14.83	1381	1397	1420	76160	509568	487756	55.65	12.087
<i>S</i> 7	17.05	1606	1622	1646	109247	692208	667500	76.16	17.636
<i>I</i> 8	19.20	1828	1839	1867	119737	741859	701602	80.05	18.537

Sum of corrected areas: 3784837.

TOTAL ION CHROMATOGRAM



Data File: >A3681::B1 Quant Output File: >A3681::X1
 Name: INST 59701 BLANK Instrument ID: INST "A"
 Misc: BLANK ,S,5,5 ,0.53mm x75m db-624

Id File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990312 14:07 Last Qual Time: <none>

Operator ID: AT1446
 Quant Time : 990317 15:17
 Injected at: 990317 14:46

260-A

ANALab, Inc. - Randolph Facility
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
APRIL 1, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

GC/MS INITIAL CALIBRATION SUMMARY
VOLATILE ORGANIC COMPOUNDS

INSTRUMENT ID: 59701
BATCH #: QV5853

THIS INITIAL CALIBRATION APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS

LAB SAMPLE ID	DATA FILE	ANALYSIS DATE	ANALYSIS TIME
VSTD050	>A3658	03/16/99	17:30
BLANK	>A3659	03/16/99	18:07
QA SAMPLE	>A3662	03/16/99	19:59
BLANK SPK	>A3663	03/16/99	20:36
306399	>A3664	03/16/99	21:13
306389	>A3665	03/16/99	21:50
INITIAL CALIBRATION			
VSTD050	>A3632	03/15/99	10:49
VSTD010	>A3633	03/15/99	12:16
VSTD100	>A3635	03/15/99	13:31
VSTD020	>A3636	03/15/99	14:08
VSTD200	>A3637	03/15/99	15:13

NOTE: The 'Calibration Date' listed on the Initial Calibration Data form reflects the last date that a modification was made to the file, not the date that the Initial Calibration was acquired. The Initial Calibration acquisition dates are on the 'GC/MS Initial Calibration Summary'.

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ALI

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: 59701 MSD/A
 Contractor: ICM LAB Calibration Date: 03/15/99
 Contract No: _____

Minimum RF for SPCC is 0.1 Maximum X RSD for CCC is 30X

Compound	Laboratory ID: >A3633 >A3636 >A3632 >A3635 >A3637					RRT	RF	X RSD	CCC	SPCC
	RF	RF	RF	RF	RF					
Carbon Tetrachloride	.64832	.71213	.67303	.66524	.64134	.888	.66801	4.153		
1,1-Dichloropropene	.53292	.60495	.51938	.53441	.51195	.872	.54072	6.863		
Benzene	.95354	1.06459	.94959	.97820	.92740	.926	.97466	5.479		
1,2-Dichloroethane	.45370	.53650	.45860	.49091	.43301	.930	.47454	8.508		
Trichloroethene	.50393	.57563	.50915	.52548	.48702	1.059	.52024	6.510		
1,2-Dichloropropane	.45941	.53486	.44665	.49322	.45356	1.099	.47754	7.687	*	
Bromodichloromethane	.79747	.88681	.82911	.82593	.75938	1.144	.81974	5.710		
Dibromomethane	.51947	.57648	.50252	.52541	.45279	1.150	.51533	8.642		
cis-1,3-Dichloropropene	.57629	.67665	.62196	.65513	.60653	1.262	.62731	6.312		
Vinyl Acetate	.44377	.55795	.37632	.52706	.41965	1.231	.46495	16.261		
trans-1,3-Dichloropropene	.44880	.54314	.50275	.53699	.48516	1.365	.50337	7.708		
1,1,2-Trichloroethane	.41039	.45829	.40017	.43919	.36871	1.392	.41535	8.377		
2-Chloroethylvinylether	.07191	.08694	.05897	.07575	.06729	1.634	.07217	14.351		(Conc=20.0,40.0,100.0,200
1,3-Dichloropropane	.58167	.66792	.58050	.62263	.51516	1.442	.59357	9.542		
Dibromochloromethane	.79108	.88954	.80088	.84452	.73092	1.484	.81139	7.344		
Bromoform	.66237	.77764	.67281	.73398	.58844	1.786	.68705	10.532	**	
EXTRAB4	-	-	-	-	-	-	-	-		
EXTRAB5	-	-	-	-	-	-	-	-		
EXTRAB6	-	-	-	-	-	-	-	-		
4-Methyl-2-Pentanone	.48328	.61182	.42410	.60453	.50110	.770	.52496	15.462		
Toluene-d8	1.12534	1.32943	1.18911	1.27158	1.22121	.815	1.22733	6.349		
Toluene	.71193	.84253	.75443	.79199	.78950	.825	.77807	6.235	*	
Tetrachloroethene	.68788	.68757	.63724	.62022	.58094	.903	.62677	6.335		
Isopropylbenzene	1.33688	1.58204	1.38459	1.44000	1.34455	1.123	1.41761	7.097		
1,1,2,2-Tetrachloroethane	.68356	.81230	.62502	.76655	.61273	1.145	.70803	12.484	**	
2-Hexanone	.20985	.23826	.16948	.24235	.18596	.881	.20918	15.233		
1,2-Dibromoethane	.62793	.75699	.63106	.73328	.64129	.952	.67811	9.136		
Chlorobenzene	1.13556	1.27420	1.15258	1.19397	1.07964	1.005	1.16719	6.215	**	
1,1,1,2-Tetrachloroethane	.61767	.70945	.64725	.64823	.58754	1.012	.64203	7.041		
Ethylbenzene	1.41819	1.69891	1.52884	1.57199	1.38884	1.015	1.52135	8.207	*	

RF - Response Factor (Subscript is amount in ug/L)

RRT - Average Relative Retention Time (RT Std/RT Istd)

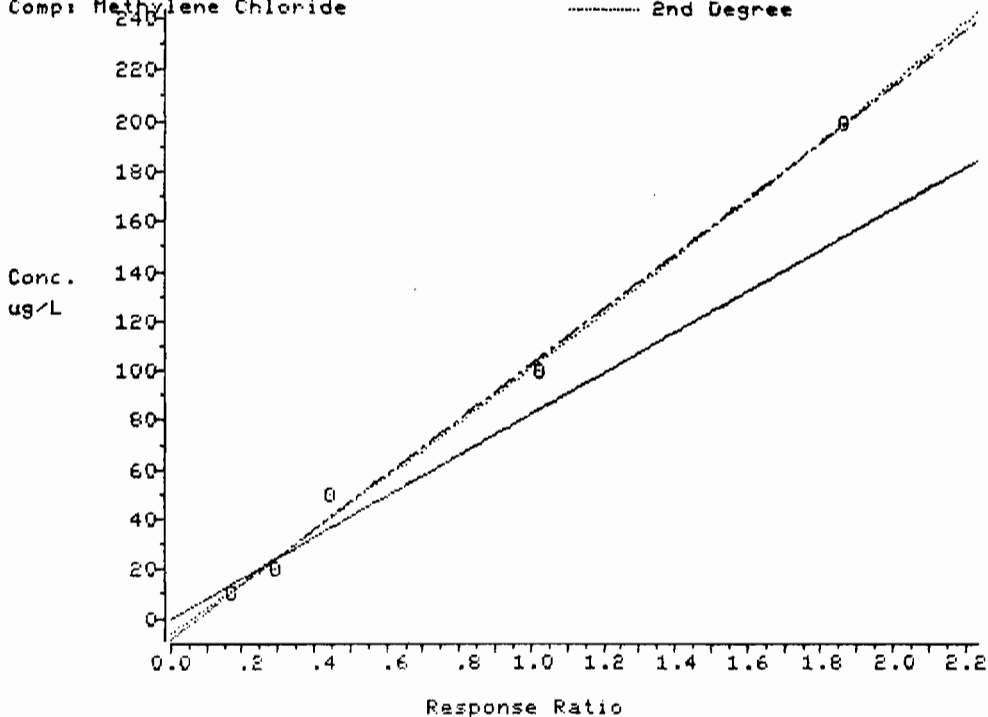
RF - Average Response Factor

XRSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Calib File: CA3632::A1 Comp # 11
 Calib Date: 990315 18:15
 Comp: Methylene Chloride

— Average RF
 - - - 1st Degree
 2nd Degree



Compound # 11 Calib File: CA3632::A1

Compound: Methylene Chloride
 Istd: Pentafluorobenzene

File: >A3633 >A3636 >A3632 >A3635 >A3637
 Conc: 10.00 20.00 50.00 100.00 200.00
 Rf: .85748 .73642 .44727 .51251 .46566

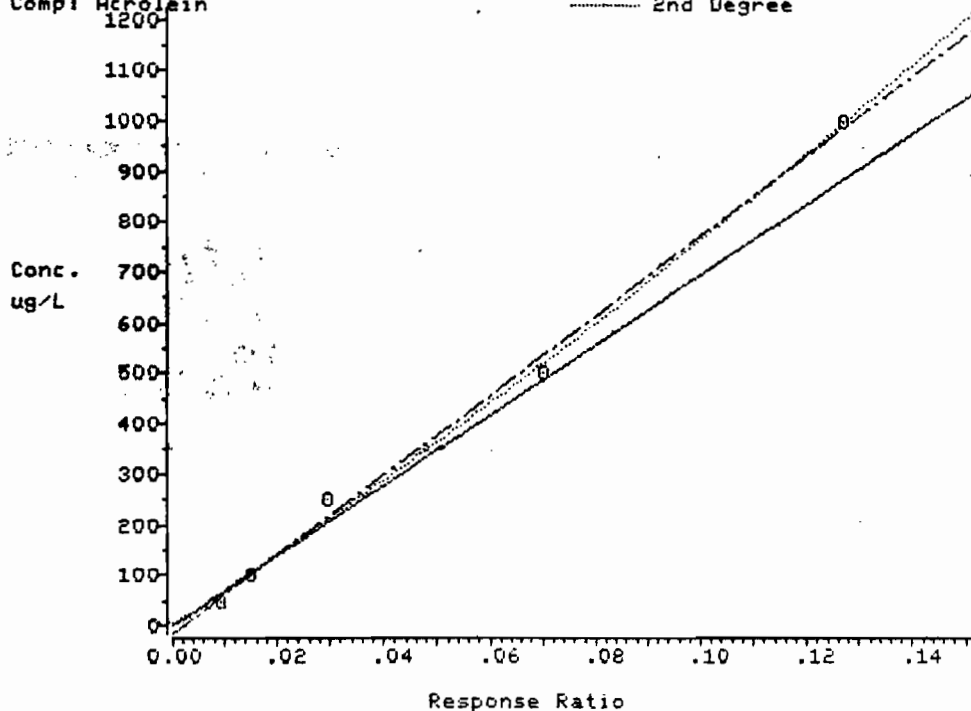
Average of 5 Rfs: .60387 (30.29 % Rsd) Rx: .0000000 Ry: .0000000
 1st Degree Equation: $y = -.167853 + 2.220268(x)$
 1st Degree Corr Coef: .9973621 **AT**
 2nd Degree Equation: $y = -.126456 + 2.076227(x) + .0704078(x^2)$
 2nd Degree Corr Coef: .9974557

In the above equations:

$$y = \frac{\text{Conc Std}}{\text{Conc Istd}} \quad x = \frac{\text{Area Std}}{\text{Area Istd}}$$

Istd Conc for all calibration points is: 50.00

Calib File: CA3632::A1 Comp # 15 — Average RF
 Calib Date: 990315 18:15 — 1st Degree
 Comp: Acrolein — 2nd Degree



Compound # 15 Calib File: CA3632::A1

Compound: Acrolein
 Istd: Pentafluorobenzene

File: >A3633 >A3636 >A3632 >A3635 >A3637
 Conc: 50.00 100.00 250.00 500.00 1000.0
 Rf: .00924 .00742 .00591 .00701 .00635

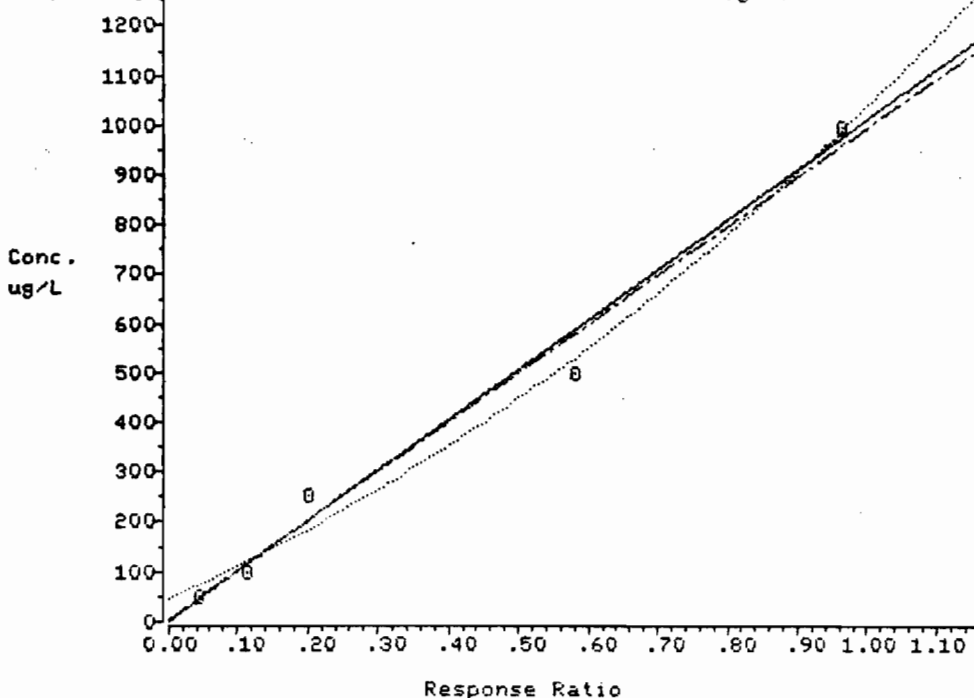
Average of 5 Rfs: .00718 (17.89 % Rsd) Rx: .0000000 Ry: .0000000
 1st Degree Equation: $y = -.309932 + 157.7613(x)$
 1st Degree Corr Coef: .9977887 **AT**
 2nd Degree Equation: $y = .0345583 + 137.9335(x) + 146.2006(x^2)$
 2nd Degree Corr Coef: .9981855

In the above equations:

$$y = \frac{\text{Conc Std}}{\text{Conc Istd}} \quad x = \frac{\text{Area Std}}{\text{Area Istd}}$$

Istd Conc for all calibration points is: 50.00

Calib File: CA3632::A1 Comp # 16
 Calib Date: 990315 18:15
 Comp: Acrylonitrile



Compound # 16 Calib File: CA3632::A1

Compound: Acrylonitrile
 Istd: Pentafluorobenzene

File: >A3633 >A3636 >A3632 >A3635 >A3637
 Conc: 50.00 100.00 250.00 500.00 1000.0
 Rf: .04388 .05623 .04004 .05817 .04813

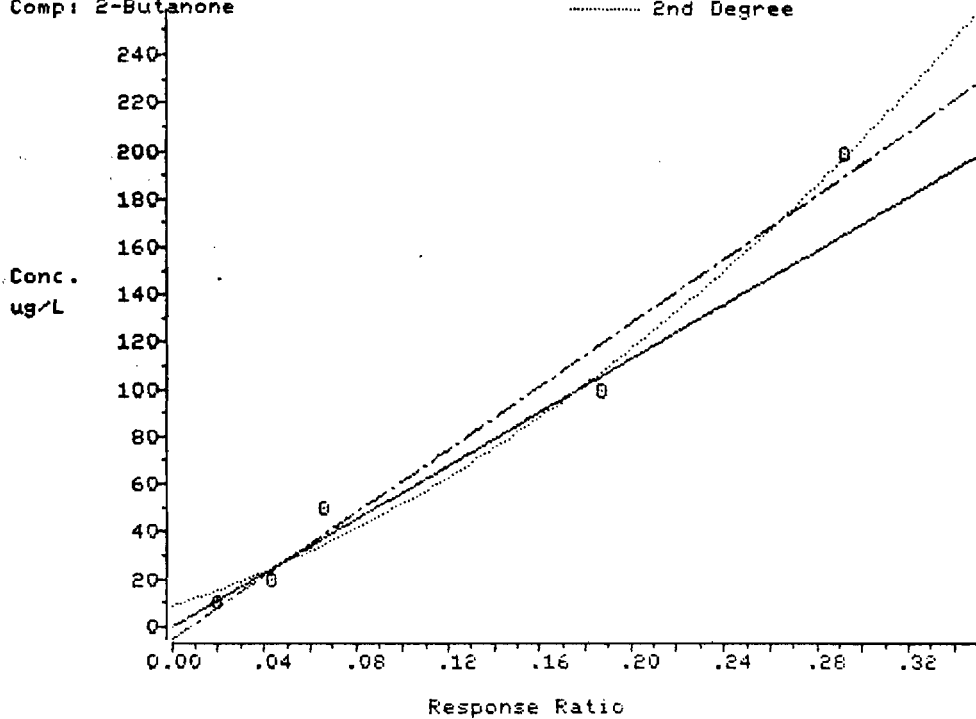
Average of 5 Rfs: .04929 (15.82 % Rsd) Rx: .0000000 Ry: .0000000
 1st Degree Equation: $y = .0263705 + 19.92220(x)$
 1st Degree Corr Coef: .9910504 **AX**
 2nd Degree Equation: $y = .9036198 + 12.36476(x) + 7.562668(x^2)$
 2nd Degree Corr Coef: .9946674

In the above equations:

$$y = \frac{\text{Conc Std}}{\text{Conc Istd}} \quad x = \frac{\text{Area Std}}{\text{Area Istd}}$$

Istd Conc for all calibration points is: 50.00

Calib File: CA3632::A1 Comp # 20
 Calib Date: 990315 18:15
 Comp: 2-Butanone



Compound # 20 Calib File: CA3632::A1

Compound: 2-Butanone
 Istd: Pentafluorobenzene

File: >A3633 >A3636 >A3632 >A3635 >A3637
 Conc: 10.00 20.00 50.00 100.00 200.00
 Rf: .09890 .10867 .06667 .09337 .07308

Average of 5 Rfs: .08814 (20.08 % Rsd) Rx: .0000000 Ry: .0000000
 1st Degree Equation: $y = -.104127 + 13.33459(x)$
 1st Degree Corr Coef: .9872141
 2nd Degree Equation: $y = .1698633 + 6.464979(x) + 22.14457(x^2)$
 2nd Degree Corr Coef: .9929804 **AK**

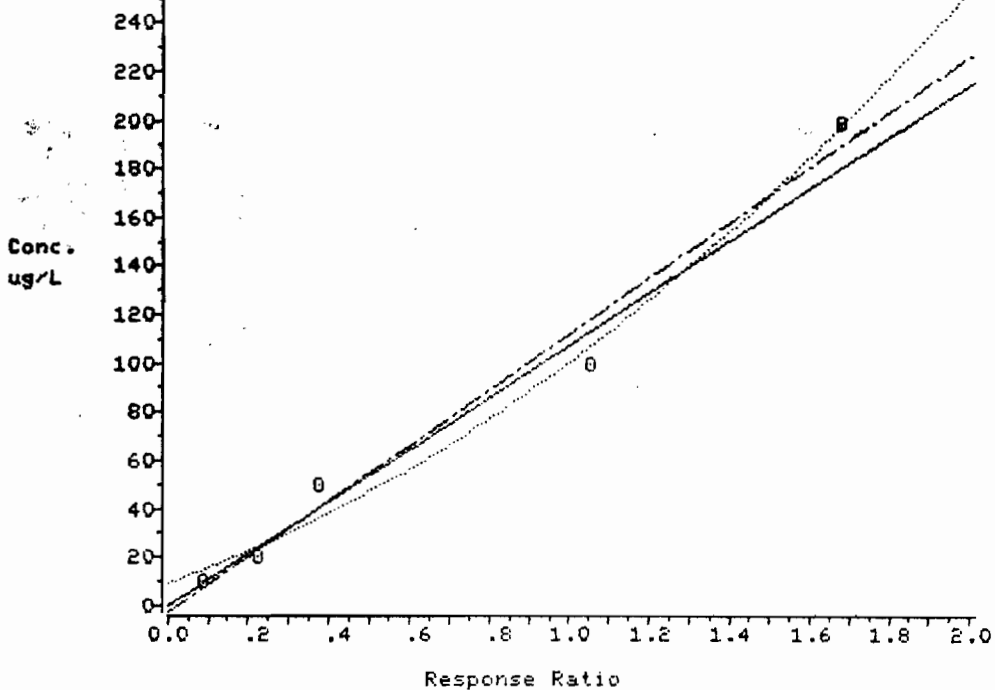
In the above equations:

$$y = \frac{\text{Conc Std}}{\text{Conc Istd}} \quad x = \frac{\text{Area Std}}{\text{Area Istd}}$$

Istd Conc for all calibration points is: 50.00

Calib File: CA3632::A1 Comp # 40
 Calib Date: 990315 18:15
 Comp: Vinyl Acetate

— Average RF
 - - - 1st Degree
 2nd Degree



Compound # 40 Calib File: CA3632::A1

Compound: Vinyl Acetate
 Istd: 1,4-Difluorobenzene

File: >A3633 >A3636 >A3632 >A3635 >A3637
 Conc: 10.00 20.00 50.00 100.00 200.00
 Rf: .44377 .55795 .37632 .52706 .41965

Average of 5 Rfs: .46495 (16.26 % Rsd) Rx: .0000000 Ry: .0000000
 1st Degree Equation: $y = -.051622 + 2.297036(x)$
 1st Degree Corr Coef: .9887376
 2nd Degree Equation: $y = .1812450 + 1.211063(x) + .6178871(x^2)$
 2nd Degree Corr Coef: .9940581 **AK**

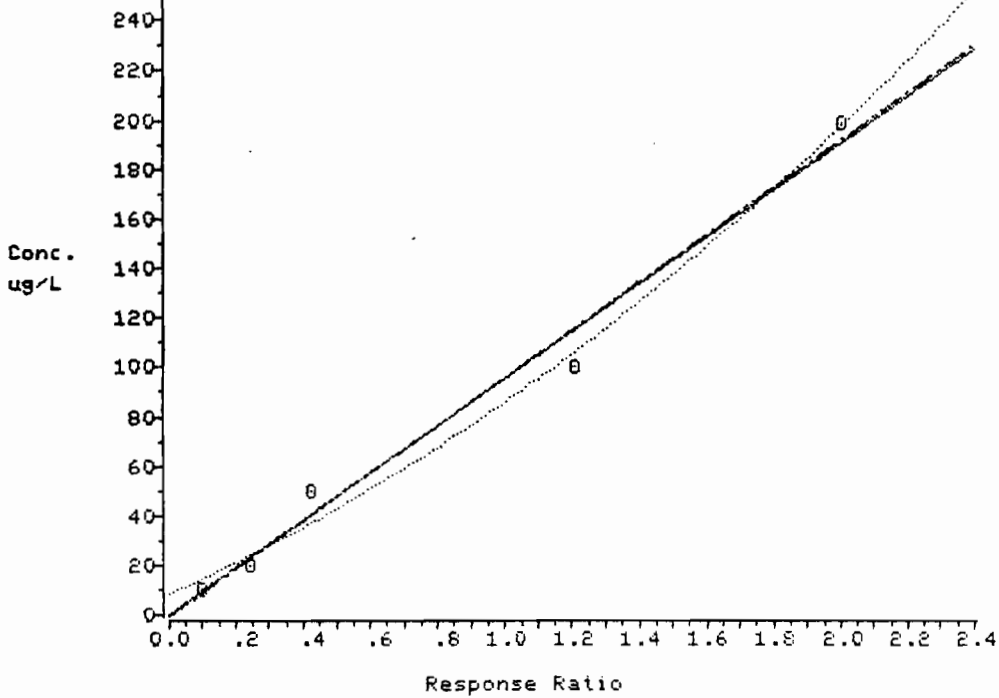
In the above equations:

$$y = \frac{\text{Conc Std}}{\text{Conc Istd}} \quad x = \frac{\text{Area Std}}{\text{Area Istd}}$$

Istd Conc for all calibration points is: 50.00

Calib File: CA3632::A1 Comp # 50
 Calib Date: 990315 18:15
 Comp: 4-Methyl-2-Pentanone

— Average RF
 - - - 1st Degree
 2nd Degree



Compound # 50 Calib File: CA3632::A1

Compound: 4-Methyl-2-Pentanone
 Istd: Chlorobenzene-d5

File: >A3633 >A3636 >A3632 >A3635 >A3637
 Conc: 10.00 20.00 50.00 100.00 200.00
 Rf: .48328 .61182 .42410 .60453 .50110

Average of 5 Rfs: .52496 (15.46 % Rsd) Rx: .0000000 Ry: .0000000
 1st Degree Equation: $y = -.010940 + 1.923810(x)$
 1st Degree Corr Coef: .9913857 AT
 2nd Degree Equation: $y = .1660221 + 1.208691(x) + .3422534(x^2)$
 2nd Degree Corr Coef: .9948400

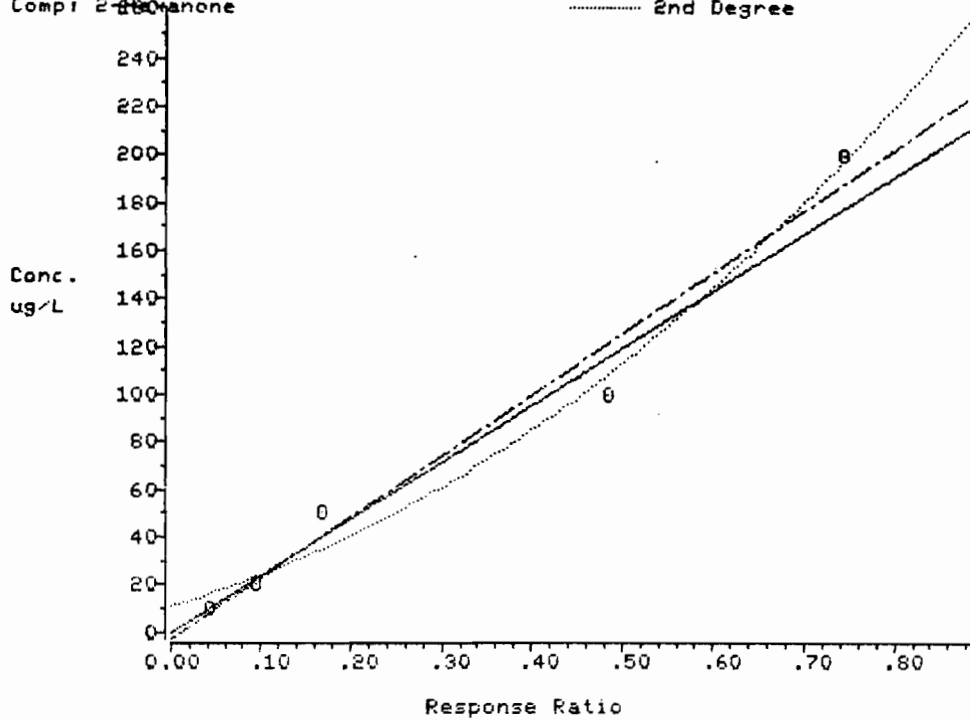
In the above equations:

$$y = \frac{\text{Conc Std}}{\text{Conc Istd}} \quad x = \frac{\text{Area Std}}{\text{Area Istd}}$$

Istd Conc for all calibration points is: 50.00

Calib File: CA3632::A1 Comp # 56
 Calib Date: 990315 18:15
 Comp: 2-Hexanone

— Average RF
 - - - 1st Degree
 2nd Degree



Compound # 56 Calib File: CA3632::A1

Compound: 2-Hexanone
 Istd: Chlorobenzene-d5

File: >A3633 >A3636 >A3632 >A3635 >A3637
 Conc: 10.00 20.00 50.00 100.00 200.00
 Rf: .20985 .23826 .16948 .24235 .18596

Average of 5 Rfs: .20918 (15.23 % Rsd) Rx: .0000000 Ry: .0000000
 1st Degree Equation: $y = -.054278 + 5.126974(x)$
 1st Degree Corr Coef: .9853557
 2nd Degree Equation: $y = .2224203 + 2.186688(x) + 3.781983(x^2)$
 2nd Degree Corr Coef: .9926945 **AT**

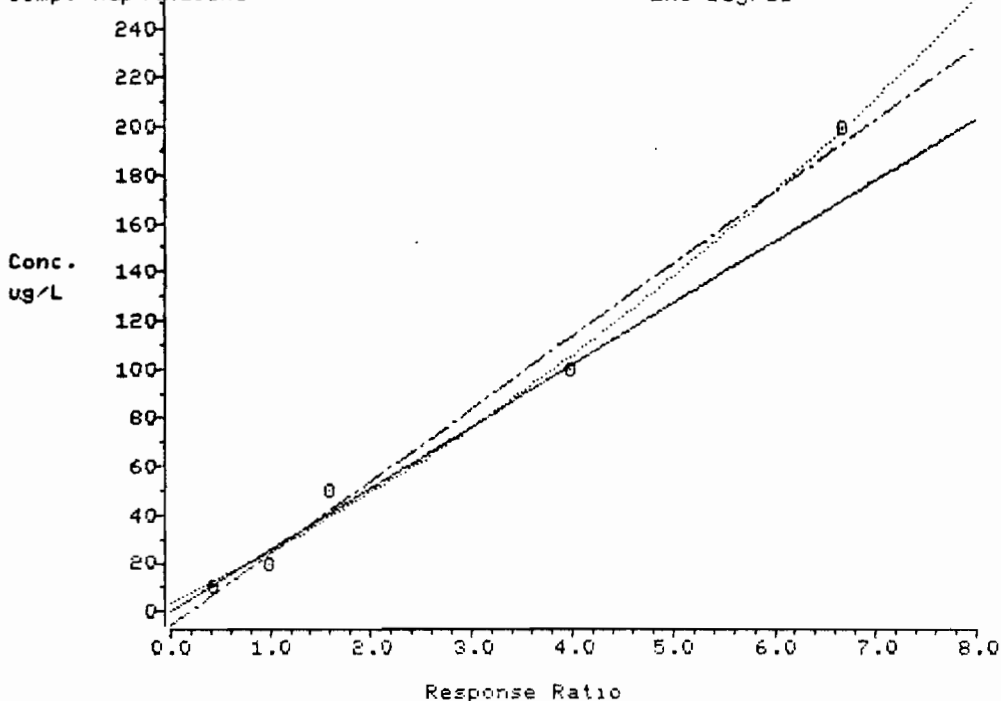
In the above equations:

$$y = \frac{\text{Conc Std}}{\text{Conc Istd}} \quad x = \frac{\text{Area Std}}{\text{Area Istd}}$$

Istd Conc for all calibration points is: 50.00

Calib File: CA3632::A1 Comp # 88
 Calib Date: 990315 18:15
 Comp: Naphthalene

— Average RF
 - - - 1st Degree
 2nd Degree



Compound # 88 Calib File: CA3632::A1

Compound: Naphthalene
 Istd: 1,4-Dichlorobenzene-d4

File: >A3633 >A3636 >A3632 >A3635 >A3637
 Conc: 10.00 20.00 50.00 100.00 200.00
 Rf: 2.1296 2.4539 1.5982 1.9896 1.6660

Average of 5 Rfs: 1.9675 (17.80 % Rsd) Rx: .0000000 Ry: .0000000
 1st Degree Equation: $y = -.111115 + .5975292(x)$
 1st Degree Corr Coef: .9937061 A
 2nd Degree Equation: $y = .0720895 + .4003364(x) + .0277666(x^2)$
 2nd Degree Corr Coef: .9963875

In the above equations:

$$y = \frac{\text{Conc Std}}{\text{Conc Istd}} \quad x = \frac{\text{Area Std}}{\text{Area Istd}}$$

Istd Conc for all calibration points is: 50.00

QUANT REPORT

Operator ID: AT1446
 Output File: ^A3632::QT
 Data File: >A3632::RS
 Name: INST 59701, USTD050
 Misc: USTD050,L,5,5,0.53mm X75m db-624

Quant Rev: 7 Quant Time: 990315 11:37
 Injected at: 990315 10:49
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: IDB6AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990217 14:47

Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units
1) *Pentafluorobenzene	7.18	168.0	157060	50.00	ug/L
2) Chlorodifluoromethane	1.79	51.0	73614	38.74	ug/L
3) Dichlorodifluoromethane	1.80	85.0	60443	29.19	ug/L
4) Chloromethane	1.99	50.0	21862	30.67	ug/L
5) Vinyl Chloride	2.08	62.0	25817	34.34	ug/L
6) Bromomethane	2.45	94.0	29638	33.91	ug/L
7) Chloroethane	2.52	64.0	19333	41.18	ug/L
8) Trichlorofluoromethane	2.76	101.0	84256	41.35	ug/L
9) Freon-113	3.22	101.0	113090	45.75	ug/L
10) 1,1-Dichloroethene	3.42	61.0	74410	40.73	ug/L
11) Carbon Disulfide	3.99	76.0	87412	31.79	ug/L
12) Methylene Chloride	4.04	49.0	70249	44.81	ug/L
13) Acetone	5.10	43.0	99328	46.06	ug/L
14) t-Butyl alcohol	5.10	59.0	18167M	19.40	ug/L
15) trans-1,2-Dichloroethene	4.47	96.0	50988	44.80	ug/L
16) Acrolein	4.30	56.0	4642M	228.49	ug/L
17) Acrylonitrile	4.27	53.0	31447	213.45	ug/L
18) t-Butyl methyl ether	4.31	73.0	102413	47.91	ug/L
19) Diisopropyl ether	5.10	45.0	176542	46.62	ug/L
20) 1,1-Dichloroethane	5.21	63.0	104282	46.82	ug/L
21) 2-Butanone	6.21	43.0	10471	38.96	ug/L
22) 2,2-Dichloropropane	6.39	77.0	84461	51.89	ug/L
23) cis-1,2-Dichloroethene	6.47	96.0	58144	50.18	ug/L
24) Bromochloromethane	7.14	128.0	37610	48.59	ug/L
25) Chloroform	6.81	83.0	117748M	49.86	ug/L
26) Dibromofluoromethane	7.29	113.0	107359	50.65	ug/L
27) 1,1,1-Trichloroethane	7.64	97.0	98862	48.58	ug/L
28) 1,2-Dichloroethane-d4	8.34	65.0	55826	44.33	ug/L
32) *1,4-Difluorobenzene	9.20	114.0	144092	50.00	ug/L
33) Carbon Tetrachloride	8.14	117.0	96978	48.85	ug/L
34) 1,1-Dichloropropene	7.99	75.0	74839	46.59	ug/L
35) Benzene	8.49	78.0	136828	48.38	ug/L
36) 1,2-Dichloroethane	8.53	62.0	66081	47.23	ug/L
37) Trichloroethene	9.74	95.0	73365	48.94	ug/L
38) 1,2-Dichloropropane	10.11	63.0	64358M	48.50	ug/L
39) Bromodichloromethane	10.55	83.0	119468	52.81	ug/L
40) Dibromomethane	10.61	174.0	72409	50.62	ug/L
41) cis-1,3-Dichloropropene	11.65	75.0	89619	52.13	ug/L
42) Vinyl Acetate	11.37	43.0	54224	44.36	ug/L
43) trans-1,3-Dichloropropene	12.62	75.0	72442M	52.53	ug/L

Handwritten notes and signatures: AT, 3/15/99, 1/99, AT, 3/15/99, AT, 3/15/99.

QUANT REPORT

Operator ID: AT1446
 Output File: ^A3632::QT
 Data File: >A3632::RS
 Name: INST 59701, USTD050
 Misc: USTD050,L,5,5,0.53mm X75m db-624

Quant Rev: 7 Quant Time: 990315 11:37
 Injected at: 990315 10:49
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990217 14:47

Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	1,1,2-Trichloroethane	12.87	97.0	57662	51.34	ug/L	9
45)	2-Chloroethylvinylether	15.00	63.0	16995	76.68	ug/L	10
46)	1,3-Dichloropropane	13.33	76.0	83645	51.22	ug/L	8
47)	Dibromochloromethane	13.72	129.0	115401	52.80	ug/L	9
48)	Bromoform	16.53	173.0	96947	52.85	ug/L	9
52)	*Chlorobenzene-d5	14.79	117.0	129748	50.00	ug/L	9
53)	4-Methyl-2-Pentanone	11.37	43.0	55026	41.62	ug/L	6
54)	Toluene-d8	12.03	98.0	154284	44.93	ug/L	9
55)	Toluene	12.19	92.0	97886	45.52	ug/L	9
56)	Tetrachloroethene	13.35	164.0	82681	47.40	ug/L	9
57)	Isopropylbenzene	16.62	105.0	179648	47.46	ug/L	7
58)	1,1,2,2-Tetrachloroethane	16.95	83.0	81095	43.44	ug/L	8
59)	2-Hexanone	13.03	43.0	21990	40.63	ug/L	7
60)	1,2-Dibromoethane	14.09	107.0	81879	44.37	ug/L	9
61)	Chlorobenzene	14.86	112.0	149545	47.87	ug/L	9
62)	1,1,1,2-Tetrachloroethane	14.98	131.0	83979	50.01	ug/L	9
63)	Ethylbenzene	15.01	91.0	198364	47.74	ug/L	9
64)	m+p-Xylenes	15.16	91.0	397657M	98.22	ug/L	9
65)	o-Xylene	15.92	91.0	1847843/15/	47.64	ug/L	9
66)	Styrene	16.00	104.0	138833	48.84	ug/L	9
67)	Bromofluorobenzene	17.04	95.0	159243	47.89	ug/L	9
68)	p-ethyltoluene	17.57	105.0	463075	49.03	ug/L	9
69)	Bromobenzene	17.33	156.0	93711	49.21	ug/L	9
70)	p-diethylbenzene	18.29	119.0	220104M3	48.08	ug/L	9
71)	1,2,3-Trichloropropane	19.89	75.0	51092	47.41	ug/L	6
72)	n-Propylbenzene	17.36	91.0	292380	48.75	ug/L	9
73)	2-Chlorotoluene	17.61	91.0	230385	51.27	ug/L	8
74)	1,3,5-Trimethylbenzene	18.35	105.0	201145	48.84	ug/L	9
75)	4-Chlorotoluene	17.71	91.0	269042	49.55	ug/L	8
76)	tert-Butylbenzene	18.29	119.0	221484	48.06	ug/L	9
77)	1,2,4-Trimethylbenzene	18.35	105.0	201145	48.84	ug/L	8
78)	sec-Butylbenzene	19.73	105.0	163349M	49.32	ug/L	9
79)	1,2,4,5-tetramethylbenzene	18.95	119.0	245945	49.33	ug/L	7
80)	p-Isopropyltoluene	21.10	119.0	250519	49.09	ug/L	6
84)	*1,4-Dichlorobenzene-d4	19.18	152.0	99184	50.00	ug/L	9
85)	1,3-Dichlorobenzene	19.03	146.0	152010	46.91	ug/L	8
86)	1,4-Dichlorobenzene	19.23	146.0	166647	47.12	ug/L	8
87)	n-Butylbenzene	19.71	92.0	147876	47.55	ug/L	1
88)	1,2-Dichlorobenzene	19.88	146.0	146944	45.82	ug/L	1
89)	1,2-Dibromo-3-chloropropane	21.34	157.0	23029	41.34	ug/L	9
90)	1,2,4-Trichlorobenzene	22.95	180.0	143219M3	47.00	ug/L	9

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QUANT REPORT

Page 3

Operator ID: AT1446
 Output File: ^A3632::QT
 Data File: >A3632::RS
 Name: INST 59701, USTD050
 Misc: USTD050,L,5,5,0.53mm X75m db-624

Quant Rev: 7 Quant Time: 990315 11:37
 Injected at: 990315 10:49
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

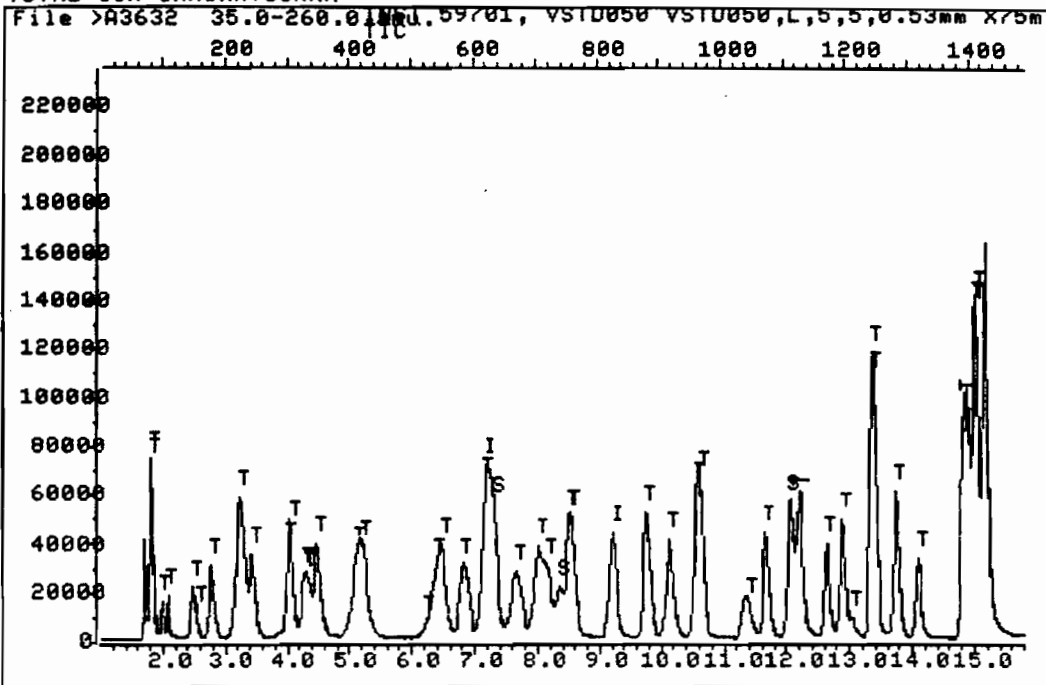
ID File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990217 14:47

Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	c
91)	Hexachlorobutadiene	23.26	225.0	140331	54.64	ug/L	9
92)	Naphthalene	23.39	128.0	158514	40.28	ug/L	10
93)	1,2,3-Trichlorobenzene	23.87	180.0	126855	46.56	ug/L	9

* Compound is ISTD

TOTAL ION CHROMATOGRAM

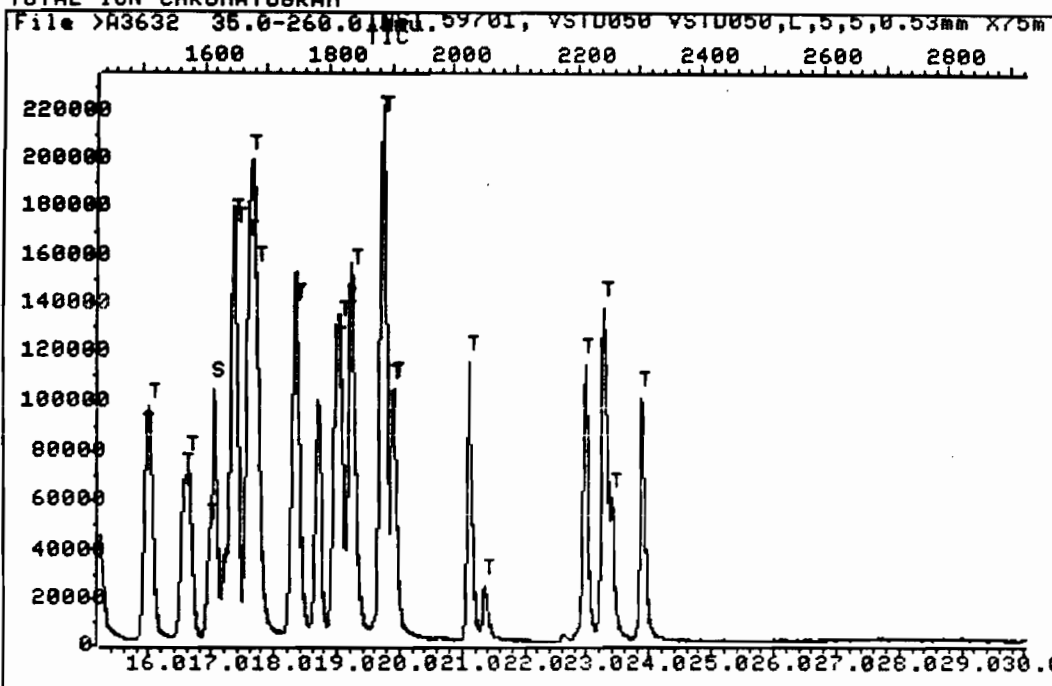


Data File: >A3632::RS Quant Output File: ^A3632::QT
Name: INST 59701, USTD050 Instrument ID: INST "A"
Misc: USTD050,L,5,5,0.53mm X75m db-624

Id File: ID86AL::RS
Title: Method 8260B IDFILE
Last Calibration: 990217 14:47 Last Qcal Time: <none>

Operator ID: AT1446
Quant Time : 990315 11:37
Injected at: 990315 10:49

TOTAL ION CHROMATOGRAM



Data File: >A3632::RS

Quant Output File: ^A3632::QT

Name: INST 59701, USTD050

Instrument ID: INST "A"

Misc: USTD050,L,5,5,0.53mm X75m db-624

Id File: ID86AL::RS

Title: Method 8260B IDFILE

Last Calibration: 990217 14:47

Last Qcal Time: <none>

Operator ID: AT1446

Quant Time : 990315 11:37

Injected at: 990315 10:49

Page 2 of 2

QUANT REPORT

Page 1

Operator ID: AT1446
 Output File: ^A3633::QT
 Data File: >A3633::RS
 Name: INST 59701, USTD010
 Misc: USTD010 ,L,5,5, 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990315 12:47
 Injected at: 990315 12:16
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: IDB6AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990217 14:47

Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units
1) *Pentafluorobenzene	7.33	168.0	164913	50.00	ug/L
2) Chlorodifluoromethane	1.99	51.0	15476	7.76	ug/L
3) Dichlorodifluoromethane	2.00	85.0	12410	5.71	ug/L
4) Chloromethane	2.19	50.0	4970M	6.64	ug/L
5) Vinyl Chloride	2.28	62.0	5211M	6.60	ug/L
6) Bromomethane	2.66	94.0	6829	3.16	ug/L
7) Chloroethane	2.73	64.0	3893M	7.90	ug/L
8) Trichlorofluoromethane	2.96	101.0	17084	7.99	ug/L
9) Freon-113	3.43	101.0	22702	8.75	ug/L
10) 1,1-Dichloroethene	3.62	61.0	15298	7.98	ug/L
11) Carbon Disulfide	4.20	76.0	17823	6.17	ug/L
12) Methylene Chloride	4.25	49.0	28282	17.18	ug/L
13) Acetone	5.31	43.0	22659	10.01	ug/L
14) t-Butyl alcohol	5.30	59.0	3837M	24.02	ug/L
15) trans-1,2-Dichloroethene	4.68	96.0	10193	8.53	ug/L
16) Acrolein	4.55	56.0	1523M	83.98	ug/L
17) Acrylonitrile	4.48	53.0	7236M	46.78	ug/L
18) t-Butyl methyl ether	4.52	73.0	25487	11.36	ug/L
19) Diisopropyl ether	5.33	45.0	38166M	9.60	ug/L
20) 1,1-Dichloroethane	5.41	63.0	21629	9.25	ug/L
21) 2-Butanone	6.41	43.0	3262M	11.56	ug/L
22) 2,2-Dichloropropane	6.53	77.0	16225	9.49	ug/L
23) cis-1,2-Dichloroethene	6.65	96.0	11255	9.25	ug/L
24) Bromochloromethane	7.30	128.0	7678M	9.45	ug/L
25) Chloroform	6.98	83.0	23230	9.37	ug/L
26) Dibromofluoromethane	7.44	113.0	21989	9.88	ug/L
27) 1,1,1-Trichloroethane	7.77	97.0	19317	9.04	ug/L
28) 1,2-Dichloroethane-d4	8.45	65.0	11796	8.92	ug/L
32) *1,4-Difluorobenzene	9.29	114.0	148006	50.00	ug/L
33) Carbon Tetrachloride	8.27	117.0	19191	9.41	ug/L
34) 1,1-Dichloropropene	8.11	75.0	15775	9.56	ug/L
35) Benzene	8.61	78.0	28226	9.72	ug/L
36) 1,2-Dichloroethane	8.63	62.0	13430	9.34	ug/L
37) Trichloroethene	9.82	95.0	14917	9.69	ug/L
38) 1,2-Dichloropropane	10.20	63.0	13599	9.98	ug/L
39) Bromodichloromethane	10.60	83.0	23606	10.16	ug/L
40) Dibromomethane	10.66	174.0	15377	10.46	ug/L
41) cis-1,3-Dichloropropene	11.68	75.0	17059	9.66	ug/L
42) Vinyl Acetate	11.43	43.0	13136	10.46	ug/L
43) trans-1,3-Dichloropropene	12.65	75.0	13285M	9.38	ug/L

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3/15/99

QUANT REPORT

Operator ID: AT1446
 Output File: ^A3633::QT
 Data File: >A3633::RS
 Name: INST 59701, USTD010
 Misc: USTD010 ,L,5,5, 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990315 12:47
 Injected at: 990315 12:16
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990217 14:47

Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units
44) 1,1,2-Trichloroethane	12.90	97.0	12148	10.53	ug/L
45) 2-Chloroethylvinylether	15.17	63.0	4257M	18.70	ug/L
46) 1,3-Dichloropropane	13.36	76.0	17218	10.26	ug/L
47) Dibromochloromethane	13.76	129.0	23417	10.43	ug/L
48) Bromoform	16.53	173.0	19607	10.41	ug/L
52) *Chlorobenzene-d5	14.81	117.0	135906M	50.00	ug/L
53) 4-Methyl-2-Pentanone	11.43	43.0	13136	9.48	ug/L
54) Toluene-d8	12.08	98.0	30588	8.50	ug/L
55) Toluene	12.22	92.0	19351	8.59	ug/L
56) Tetrachloroethene	13.38	164.0	16523	9.04	ug/L
57) Isopropylbenzene	16.62	105.0	36338	9.17	ug/L
58) 1,1,2,2-Tetrachloroethane	16.96	83.0	18580	9.50	ug/L
59) 2-Hexanone	13.06	43.0	5704M	9.74	ug/L
60) 1,2-Dibromoethane	14.10	107.0	17068	8.83	ug/L
61) Chlorobenzene	14.87	112.0	30866	9.43	ug/L
62) 1,1,1,2-Tetrachloroethane	14.98	131.0	16789	9.54	ug/L
63) Ethylbenzene	15.02	91.0	38548	8.86	ug/L
64) m+p-Xylenes	15.16	91.0	78973M	18.62	ug/L
65) o-Xylene	15.94	91.0	37337	9.19	ug/L
66) Styrene	16.02	104.0	29003	9.74	ug/L
67) Bromofluorobenzene	17.04	95.0	33946	9.75	ug/L
68) p-ethyltoluene	17.57	105.0	95700	9.67	ug/L
69) Bromobenzene	17.33	156.0	20068	10.06	ug/L
70) p-diethylbenzene	18.30	119.0	47458M	9.90	ug/L
71) 1,2,3-Trichloropropane	19.90	75.0	11870M	10.51	ug/L
72) n-Propylbenzene	17.35	91.0	59807	9.52	ug/L
73) 2-Chlorotoluene	17.62	91.0	46857	5.44	ug/L
74) 1,3,5-Trimethylbenzene	18.36	105.0	42297	9.80	ug/L
75) 4-Chlorotoluene	17.71	91.0	56243	9.89	ug/L
76) tert-Butylbenzene	18.30	119.0	47825	9.91	ug/L
77) 1,2,4-Trimethylbenzene	18.36	105.0	42297	9.80	ug/L
78) sec-Butylbenzene	19.73	105.0	35637M	10.27	ug/L
79) 1,2,4,5-tetramethylbenzene	18.95	119.0	50526	9.67	ug/L
80) p-Isopropyltoluene	21.11	119.0	50423	9.43	ug/L
84) *1,4-Dichlorobenzene-d4	19.18	152.0	105583	50.00	ug/L
85) 1,3-Dichlorobenzene	19.03	146.0	33305	9.66	ug/L
86) 1,4-Dichlorobenzene	19.23	146.0	33873	9.00	ug/L
87) n-Butylbenzene	19.71	92.0	29762M	8.99	ug/L
88) 1,2-Dichlorobenzene	19.89	146.0	33419	9.79	ug/L
89) 1,2-Dibromo-3-chloropropane	21.34	157.0	5137M	8.66	ug/L
90) 1,2,4-Trichlorobenzene	22.97	180.0	31949	9.85	ug/L

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QUANT REPORT

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Operator ID: AT1446
 Output File: ^A3633::QT
 Data File: >A3633::RS
 Name: INST 59701, USTD010
 Misc: USTD010 ,L,5,5, 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990315 12:47
 Injected at: 990315 12:16
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

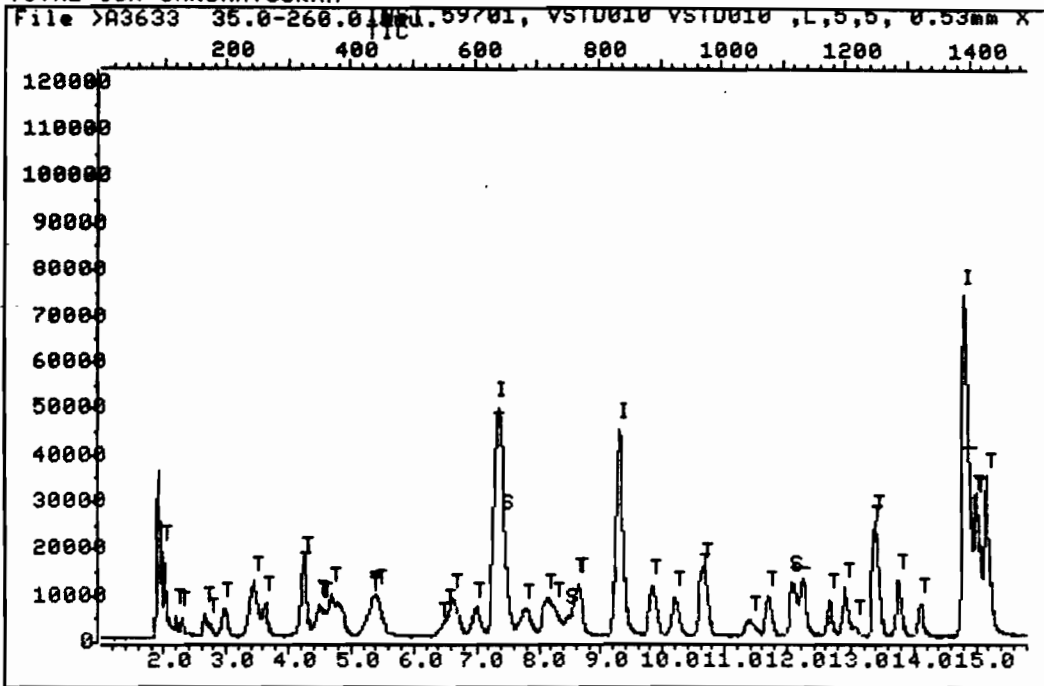
ID File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990217 14:47

Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units
91) Hexachlorobutadiene	23.27	225.0	29474	10.78	ug/L
92) Naphthalene	23.40	128.0	44970	5.30	ug/L
93) 1,2,3-Trichlorobenzene	23.88	180.0	30878	10.65	ug/L

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >A3633::RS Quant Output File: ^A3633::QT
Name: INST 59701, USTD010 Instrument ID: INST "A"
Misc: USTD010 ,L,5,5, 0.53mm X 75m DB-624

Id File: ID86AL::RS
Title: Method 8260B IDFILE
Last Calibration: 990217 14:47 Last Qcal Time: <none>

Operator ID: AT1446
Quant Time : 990315 12:47
Injected at: 990315 12:16

QUANT REPORT

Page 1

Operator ID: AT1446
 Output File: ^A3635::QT
 Data File: >A3635::RS
 Name: INST 59701, USTD100
 Misc: USTD100 ,L,5,5, 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990315 14:03
 Injected at: 990315 13:31
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990217 14:47

Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units	c
1) *Pentafluorobenzene	7.30	168.0	159155	50.00	ug/L	5
2) Chlorodifluoromethane	1.95	51.0	173959	90.34	ug/L	5
3) Dichlorodifluoromethane	1.96	85.0	119006	56.71	ug/L	5
4) Chloromethane	2.15	50.0	46354	64.16	ug/L	10
5) Vinyl Chloride	2.23	62.0	52067	68.34	ug/L	10
6) Bromomethane	2.60	94.0	67140	87.09	ug/L	5
7) Chloroethane	2.67	64.0	38098	80.07	ug/L	10
8) Trichlorofluoromethane	2.91	101.0	161292	78.12	ug/L	5
9) Freon-113	3.37	101.0	243790	97.33	ug/L	7
10) 1,1-Dichloroethene	3.56	61.0	169910	91.78	ug/L	8
11) Carbon Disulfide	4.14	76.0	191891	68.88	ug/L	10
12) Methylene Chloride	4.19	49.0	163136M	102.69	ug/L	
13) Acetone	5.26	43.0	243383	111.37	ug/L	10
14) t-Butyl alcohol	5.27	59.0	44205	286.71	ug/L	10
15) trans-1,2-Dichloroethene	4.62	96.0	105985M	91.91	ug/L	
16) Acrolein	4.46	56.0	11149M	516.50	ug/L	
17) Acrylonitrile	4.41	53.0	92584	620.14	ug/L	5
18) t-Butyl methyl ether	4.46	73.0	242639	112.02	ug/L	5
19) Diisopropyl ether	5.26	45.0	439554	114.54	ug/L	7
20) 1,1-Dichloroethane	5.34	63.0	237256	105.12	ug/L	5
21) 2-Butanone	6.34	43.0	29722	109.13	ug/L	
22) 2,2-Dichloropropane	6.51	77.0	172784	104.75	ug/L	
23) cis-1,2-Dichloroethene	6.60	96.0	124236	105.81	ug/L	1
24) Bromochloromethane	7.26	128.0	82402	105.06	ug/L	1
25) Chloroform	6.95	83.0	254526	106.37	ug/L	1
26) Dibromofluoromethane	7.40	113.0	234043	108.97	ug/L	1
27) 1,1,1-Trichloroethane	7.73	97.0	212857	103.21	ug/L	
28) 1,2-Dichloroethane-d4	8.42	65.0	132220	103.61	ug/L	
32) *1,4-Difluorobenzene	9.26	114.0	157107	50.00	ug/L	
33) Carbon Tetrachloride	8.21	117.0	209027M	96.58	ug/L	
34) 1,1-Dichloropropene	8.07	75.0	167920	95.87	ug/L	
35) Benzene	8.58	78.0	307365	99.68	ug/L	
36) 1,2-Dichloroethane	8.61	62.0	154250	101.11	ug/L	
37) Trichloroethene	9.81	95.0	165112	101.01	ug/L	
38) 1,2-Dichloropropane	10.17	63.0	154978	107.12	ug/L	
39) Bromodichloromethane	10.60	83.0	259520	105.22	ug/L	
40) Dibromomethane	10.66	174.0	165090	105.84	ug/L	
41) cis-1,3-Dichloropropene	11.69	75.0	205851	109.82	ug/L	
42) Vinyl Acetate	11.40	43.0	165610M	124.25	ug/L	1
43) trans-1,3-Dichloropropene	12.64	75.0	168729M	112.21	ug/L	

Handwritten notes and signatures:
 3/15/98
 AT
 3/15/98

QUANT REPORT

Operator ID: AT1446
 Output File: ^A3635::QT
 Data File: >A3635::RS
 Name: INST 59701, USTD100
 Misc: USTD100 ,L,5,5, 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990315 14:03
 Injected at: 990315 13:31
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990217 14:47

Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units	q
44) 1,1,2-Trichloroethane	12.89	97.0	137999	112.68	ug/L	9
45) 2-Chloroethylvinylether	15.16	63.0	47602	196.97	ug/L	10
46) 1,3-Dichloropropane	13.36	76.0	195640	109.88	ug/L	8
47) Dibromochloromethane	13.74	129.0	265360	111.35	ug/L	9
48) Bromoform	16.54	173.0	230628	115.31	ug/L	9
52) *Chlorobenzene-d5	14.81	117.0	138128	50.00	ug/L	9
53) 4-Methyl-2-Pentanone	11.40	43.0	167005	118.65	ug/L	6
54) Toluene-d8	12.07	98.0	351281	96.09	ug/L	9
55) Toluene	12.21	92.0	218791	95.56	ug/L	9
56) Tetrachloroethene	13.38	164.0	171340	92.26	ug/L	9
57) Isopropylbenzene	16.63	105.0	397808	98.73	ug/L	7
58) 1,1,2,2-Tetrachloroethane	16.95	83.0	211764	106.55	ug/L	8
59) 2-Hexanone	13.05	43.0	66950	116.99	ug/L	7
60) 1,2-Dibromoethane	14.10	107.0	202572	103.12	ug/L	9
61) Chlorobenzene	14.88	112.0	329842	99.18	ug/L	9
62) 1,1,1,2-Tetrachloroethane	14.99	131.0	179078	100.17	ug/L	9
63) Ethylbenzene	15.03	91.0	434271	98.17	ug/L	9
64) m+p-Xylenes	15.16	91.0	846600	96.42	ug/L	9
65) o-Xylene	15.94	91.0	410984	99.54	ug/L	9
66) Styrene	16.02	104.0	305483	100.94	ug/L	9
67) Bromofluorobenzene	17.04	95.0	372221	105.15	ug/L	9
68) p-ethyltoluene	17.58	105.0	1026888	102.12	ug/L	9
69) Bromobenzene	17.33	156.0	206408	101.81	ug/L	9
70) p-diethylbenzene	18.30	119.0	500720	102.74	ug/L	9
71) 1,2,3-Trichloropropane	19.90	75.0	115886	101.00	ug/L	6
72) n-Propylbenzene	17.36	91.0	645479	101.09	ug/L	9
73) 2-Chlorotoluene	17.62	91.0	486393	107.19	ug/L	6
74) 1,3,5-Trimethylbenzene	18.36	105.0	451512	102.98	ug/L	9
75) 4-Chlorotoluene	17.72	91.0	568360	98.33	ug/L	6
76) tert-Butylbenzene	18.30	119.0	502847	102.50	ug/L	9
77) 1,2,4-Trimethylbenzene	18.36	105.0	451512	102.98	ug/L	6
78) sec-Butylbenzene	19.74	105.0	347462	98.53	ug/L	9
79) 1,2,4,5-tetramethylbenzene	18.96	119.0	555486	104.65	ug/L	;
80) p-Isopropyltoluene	21.12	119.0	547907	100.85	ug/L	;
84) *1,4-Dichlorobenzene-d4	19.19	152.0	108186	50.00	ug/L	9
85) 1,3-Dichlorobenzene	19.04	146.0	331968	93.93	ug/L	1
86) 1,4-Dichlorobenzene	19.25	146.0	363923	94.34	ug/L	1
87) n-Butylbenzene	19.72	92.0	318207	93.81	ug/L	1
88) 1,2-Dichlorobenzene	19.90	146.0	339143	96.94	ug/L	1
89) 1,2-Dibromo-3-chloropropane	21.37	157.0	61758	101.63	ug/L	1
90) 1,2,4-Trichlorobenzene	22.97	188.0	325077	97.81	ug/L	1

QUANT REPORT

Page 3

Operator ID: AT1446
 Output File: ^A3635::QT
 Data File: >A3635::RS
 Name: INST 59701, USTD100
 Misc: USTD100 ,L,5,5, 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990315 14:03
 Injected at: 990315 13:31
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

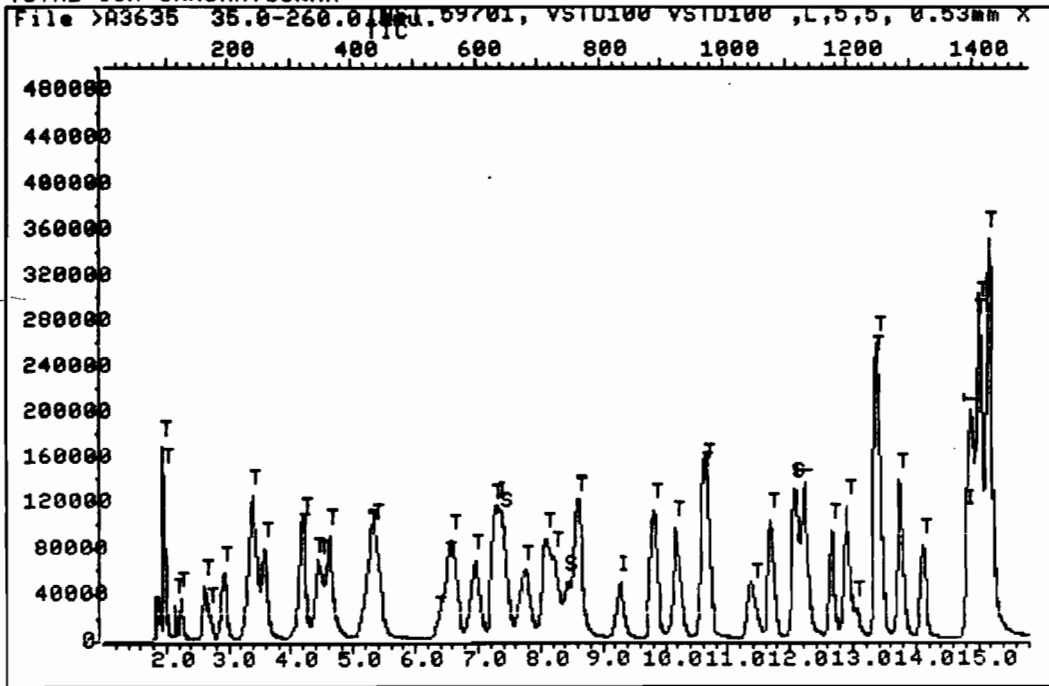
ID File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990217 14:47

Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units	c
91) Hexachlorobutadiene	23.27	225.0	279034	99.60	ug/L	5
92) Naphthalene	23.40	128.0	430502	111.33	ug/L	10
93) 1,2,3-Trichlorobenzene	23.87	180.0	287932	96.88	ug/L	5

* Compound is ISTD

TOTAL ION CHROMATOGRAM

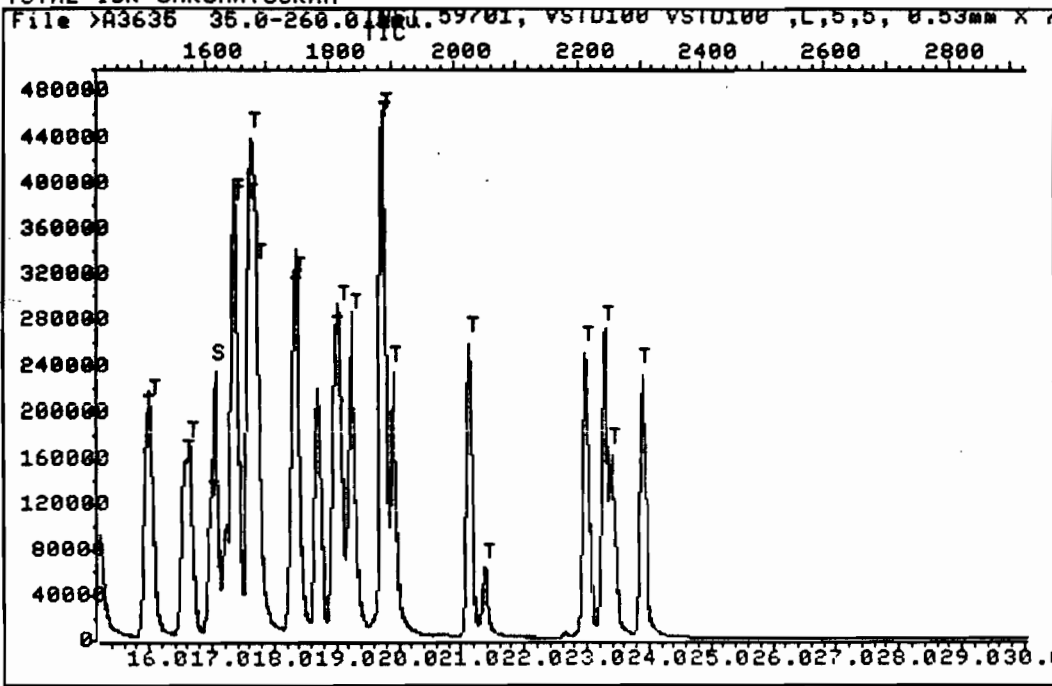


Data File: >A3635::RS Quant Output File: ^A3635::QT
Name: INST 59701, USTD100 Instrument ID: INST "A"
Misc: USTD100 ,L,5,5, 0.53mm X 75m DB-624

Id File: ID86AL::RS
Title: Method 8260B IDFILE
Last Calibration: 990217 14:47 Last Qcal Time: <none>

Operator ID: AT1446
Quant Time : 990315 14:03
Injected at: 990315 13:31

TOTAL ION CHROMATOGRAM



Data File: >A3635::RS Quant Output File: ^A3635::QT
Name: INST 59701, USTD100 Instrument ID: INST "A"
Misc: USTD100 ,L,5,5, 0.53mm X 75m DB-624

Id File: ID86AL::RS
Title: Method 8260B IDFILE
Last Calibration: 990217 14:47 Last Qcal Time: <none>

Operator ID: AT1446
Quant Time : 990315 14:03
Injected at: 990315 13:31

QUANT REPORT

Page 1

Operator ID: AT1446
 Output File: ^A3636::QT
 Data File: >A3636::RS
 Name: INST 59701, USTD020
 Misc: USTD020 ,L,5,5, 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990315 14:40
 Injected at: 990315 14:08
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990217 14:47

Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units	c
1) *Pentafluorobenzene	7.33	168.0	169326	50.00	ug/L	9
2) Chlorodifluoromethane	1.98	51.0	38597	18.84	ug/L	9
3) Dichlorodifluoromethane	1.99	85.0	25336	11.35	ug/L	9
4) Chloromethane	2.18	50.0	9664	12.57	ug/L	10
5) Vinyl Chloride	2.27	62.0	10936	13.49	ug/L	10
6) Bromomethane	2.64	94.0	17728	14.75	ug/L	8
7) Chloroethane	2.71	64.0	7875M	15.56	ug/L	
8) Trichlorofluoromethane	2.95	101.0	33900 ^{3/15/}	15.43	ug/L	9
9) Freon-113	3.41	101.0	53936	20.24	ug/L	7
10) 1,1-Dichloroethene	3.59	61.0	36810	18.69	ug/L	8
11) Carbon Disulfide	4.18	76.0	41564	14.02	ug/L	10
12) Methylene Chloride	4.21	49.0	49878	29.51	ug/L	7
13) Acetone	5.28	43.0	50150	21.57	ug/L	10
14) t-Butyl alcohol	5.29	59.0	8585	52.34	ug/L	10
15) trans-1,2-Dichloroethene	4.65	96.0	23933	19.51	ug/L	8
16) Acrolein	4.49	56.0	2513M	123.85	ug/L	
17) Acrylonitrile	4.45	53.0	19043 ^{3/15/}	119.89	ug/L	9
18) t-Butyl methyl ether	4.49	73.0	54740	23.75	ug/L	9
19) Diisopropyl ether	5.28	45.0	93307	22.85	ug/L	7
20) 1,1-Dichloroethane	5.37	63.0	51730	21.54	ug/L	9
21) 2-Butanone	6.38	43.0	7360M	25.40	ug/L	
22) 2,2-Dichloropropane	6.54	77.0	36289 ^{3/15/}	20.68	ug/L	9
23) cis-1,2-Dichloroethene	6.62	96.0	26866	21.51	ug/L	8
24) Bromochloromethane	7.27	128.0	17639	21.14	ug/L	7
25) Chloroform	6.97	83.0	53894	21.17	ug/L	9
26) Dibromofluoromethane	7.41	113.0	50210	21.97	ug/L	10
27) 1,1,1-Trichloroethane	7.77	97.0	45119	20.56	ug/L	7
28) 1,2-Dichloroethane-d4	8.43	65.0	28400	20.92	ug/L	9
32) *1,4-Difluorobenzene	9.27	114.0	158261	50.00	ug/L	9
33) Carbon Tetrachloride	8.23	117.0	45081	20.68	ug/L	9
34) 1,1-Dichloropropene	8.09	75.0	38296	21.71	ug/L	8
35) Benzene	8.58	78.0	67393	21.70	ug/L	9
36) 1,2-Dichloroethane	8.62	62.0	33963	22.10	ug/L	9
37) Trichloroethene	9.81	95.0	36440	22.13	ug/L	9
38) 1,2-Dichloropropane	10.18	63.0	33859M	23.23	ug/L	
39) Bromodichloromethane	10.61	83.0	56139	22.60	ug/L	
40) Dibromomethane	10.66	174.0	36494	23.23	ug/L	
41) cis-1,3-Dichloropropene	11.69	75.0	42835	22.69	ug/L	
42) Vinyl Acetate	11.39	43.0	35321	26.31	ug/L	1
43) trans-1,3-Dichloropropene	12.64	75.0	34383M	22.70	ug/L	

QUANT REPORT

Page 2

Operator ID: AT1446
 Output File: ^A3636::QT
 Data File: >A3636::RS
 Name: INST 59701, USTD020
 Misc: USTD020 ,L,5,5, 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990315 14:40
 Injected at: 990315 14:08
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990217 14:47

Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units
44) 1,1,2-Trichloroethane	12.90	97.0	29012	23.52	ug/L
45) 2-Chloroethylvinylether	15.16	63.0	11008	45.22	ug/L
46) 1,3-Dichloropropane	13.35	76.0	42282	23.57	ug/L
47) Dibromochloromethane	13.74	129.0	56312	23.46	ug/L
48) Bromoform	16.54	173.0	49228	24.43	ug/L
52) *Chlorobenzene-d5	14.81	117.0	142019	50.00	ug/L
53) 4-Methyl-2-Pentanone	11.39	43.0	34756	24.02	ug/L
54) Toluene-d8	12.07	98.0	75522	20.09	ug/L
55) Toluene	12.22	92.0	47862	20.33	ug/L
56) Tetrachloroethene	13.38	164.0	39059	20.46	ug/L
57) Isopropylbenzene	16.63	105.0	89872	21.69	ug/L
58) 1,1,2,2-Tetrachloroethane	16.95	83.0	46145	22.58	ug/L
59) 2-Hexanone	13.05	43.0	13535	22.66	ug/L
60) 1,2-Dibromoethane	14.10	107.0	43003	21.29	ug/L
61) Chlorobenzene	14.88	112.0	72384M	21.17	ug/L
62) 1,1,1,2-Tetrachloroethane	14.99	131.0	40302	21.93	ug/L
63) Ethylbenzene	15.02	91.0	96511	21.22	ug/L
64) m+p-Xylenes	15.17	91.0	190604M	43.01	ug/L
65) o-Xylene	15.94	91.0	90172M	21.24	ug/L
66) Styrene	16.01	104.0	68682	22.07	ug/L
67) Bromofluorobenzene	17.04	95.0	84274	23.15	ug/L
68) p-ethyltoluene	17.57	105.0	231845M	22.42	ug/L
69) Bromobenzene	17.33	156.0	47229	22.66	ug/L
70) p-diethylbenzene	18.30	119.0	111237M	22.20	ug/L
71) 1,2,3-Trichloropropane	19.89	75.0	28365	24.05	ug/L
72) n-Propylbenzene	17.36	91.0	146041	22.25	ug/L
73) 2-Chlorotoluene	17.62	91.0	115097	20.35	ug/L
74) 1,3,5-Trimethylbenzene	18.35	105.0	99430	22.06	ug/L
75) 4-Chlorotoluene	17.72	91.0	125454	21.11	ug/L
76) tert-Butylbenzene	18.30	119.0	112681	22.34	ug/L
77) 1,2,4-Trimethylbenzene	18.35	105.0	99430	22.06	ug/L
78) sec-Butylbenzene	19.73	105.0	83345M	22.99	ug/L
79) 1,2,4,5-tetramethylbenzene	18.95	119.0	123516	22.63	ug/L
80) p-Isopropyltoluene	21.11	119.0	122019	21.84	ug/L
84) *1,4-Dichlorobenzene-d4	19.18	152.0	113637	50.00	ug/L
85) 1,3-Dichlorobenzene	19.03	146.0	78242	21.08	ug/L
86) 1,4-Dichlorobenzene	19.23	146.0	84616	20.88	ug/L
87) n-Butylbenzene	19.72	92.0	74642	20.95	ug/L
88) 1,2-Dichlorobenzene	19.89	146.0	78826	21.45	ug/L
89) 1,2-Dibromo-3-chloropropane	21.36	157.0	13019	20.40	ug/L
90) 1,2,4-Trichlorobenzene	22.96	180.0	77690	22.26	ug/L

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QUANT REPORT

Page 3

Operator ID: AT1446
 Output File: ^A3636::QT
 Data File: >A3636::RS
 Name: INST 59701, USTD020
 Misc: USTD020 ,L,5,5, 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990315 14:40
 Injected at: 990315 14:08
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

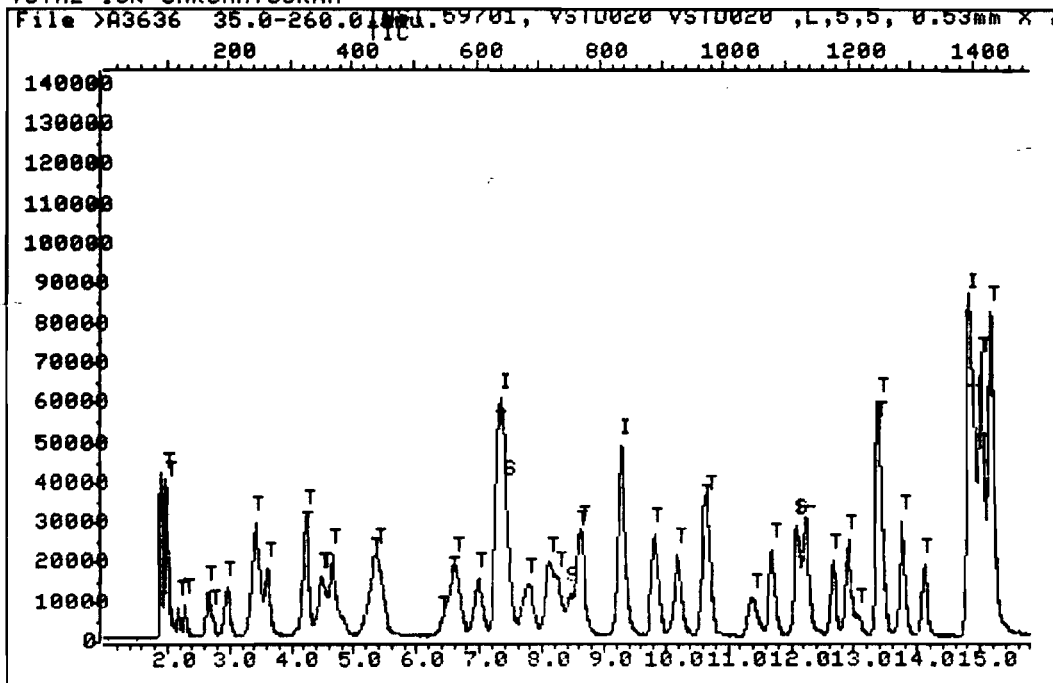
ID File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990217 14:47

Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units	c
91) Hexachlorobutadiene	23.26	225.0	68108	23.15	ug/L	9
92) Naphthalene	23.40	128.0	111542	21.88	ug/L	10
93) 1,2,3-Trichlorobenzene	23.88	180.0	71323	22.85	ug/L	9

* Compound is ISTD

TOTAL ION CHROMATOGRAM

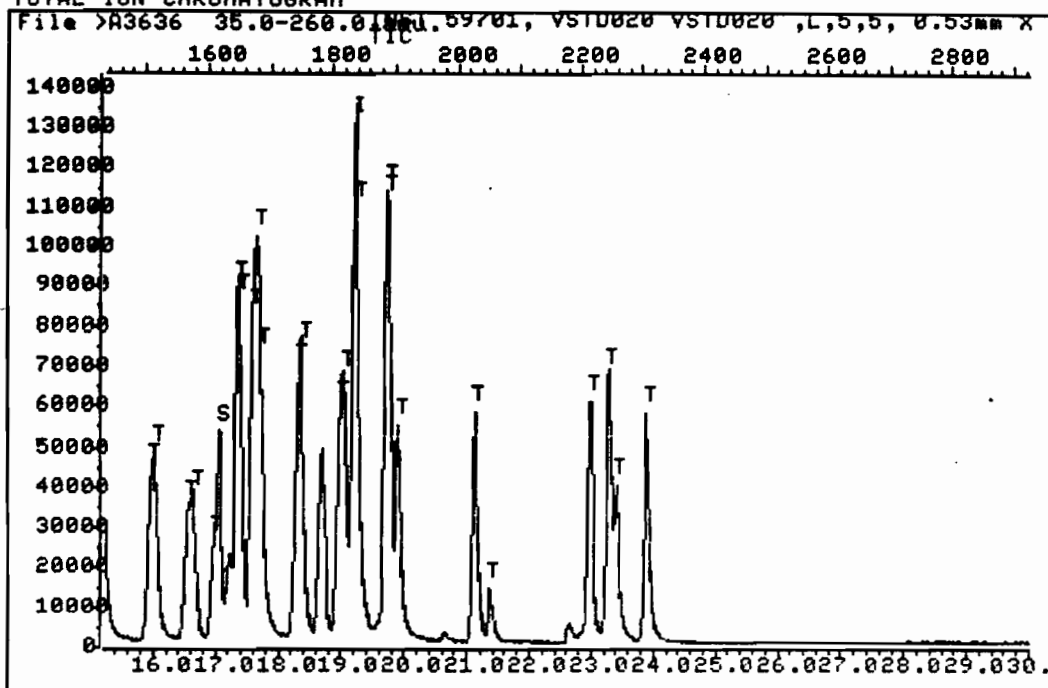


Data File: >A3636::RS Quant Output File: ^A3636::QT
Name: INST 59701, USTD020 Instrument ID: INST "A"
Misc: USTD020 ,L,5,5, 0.53mm X 75m DB-624

Id File: ID86AL::RS
Title: Method 8260B IDFILE
Last Calibration: 990217 14:47 Last Qcal Time: <none>

Operator ID: AT1446
Quant Time : 990315 14:40
Injected at: 990315 14:08

TOTAL ION CHROMATOGRAM



Data File: >A3636::RS Quant Output File: ^A3636::QT
Name: INST 59701, VSTD020 Instrument ID: INST "A"
Misc: VSTD020 ,L,5,5, 0.53mm X 75m DB-624

Id File: ID86AL::RS
Title: Method 8260B IDFILE
Last Calibration: 990217 14:47 Last Qcal Time: <none>

Operator ID: AT1446
Quant Time : 990315 14:40
Injected at: 990315 14:08

QUANT REPORT

Operator ID: KL7127
 Output File: ^A3637::QT
 Data File: >A3637::RS
 Name: INST 59701, USTD200
 Misc: USTD200 ,L,5,5, 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990315 15:44
 Injected at: 990315 15:13
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990217 14:47

Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units
1) *Pentafluorobenzene	7.35	168.0	164255	50.00	ug/L
2) Chlorodifluoromethane	2.00	51.0	341942	172.07	ug/L
3) Dichlorodifluoromethane	2.01	85.0	242814	112.12	ug/L
4) Chloromethane	2.19	50.0	92174	123.63	ug/L
5) Vinyl Chloride	2.28	62.0	106639	135.63	ug/L
6) Bromomethane	2.65	94.0	132531	174.90	ug/L
7) Chloroethane	2.72	64.0	78007	158.86	ug/L
8) Trichlorofluoromethane	2.96	101.0	332856	156.20	ug/L
9) Freon-113	3.41	101.0	482829	186.79	ug/L
10) 1,1-Dichloroethene	3.61	61.0	327971	171.66	ug/L
11) Carbon Disulfide	4.20	76.0	384018	133.56	ug/L
12) Methylene Chloride	4.24	49.0	305951	186.60	ug/L
13) Acetone	5.31	43.0	459743	203.83	ug/L
14) t-Butyl alcohol	5.31	59.0	85957	540.20	ug/L
15) trans-1,2-Dichloroethene	4.67	96.0	215130M ^{AT}	180.76	ug/L
16) Acrolein	4.52	56.0	20862M ^{AT}	921.59	ug/L
17) Acrylonitrile	4.47	53.0	158098	1026.09	ug/L
18) t-Butyl methyl ether	4.53	73.0	424287	189.79	ug/L
19) Diisopropyl ether	5.32	45.0	836478	211.21	ug/L
20) 1,1-Dichloroethane	5.40	63.0	464378	199.36	ug/L
21) 2-Butanone	6.41	43.0	48016	170.82	ug/L
22) 2,2-Dichloropropane	6.55	77.0	354840M ^{AT}	208.44	ug/L
23) cis-1,2-Dichloroethene	6.65	96.0	250498 ^{AT}	206.73	ug/L
24) Bromochloromethane	7.29	128.0	155935	192.64	ug/L
25) Chloroform	6.99	83.0	506372	205.04	ug/L
26) Dibromofluoromethane	7.44	113.0	452511	204.14	ug/L
27) 1,1,1-Trichloroethane	7.79	97.0	426198	200.25	ug/L
28) 1,2-Dichloroethane-d4	8.46	65.0	242887	184.42	ug/L
32) *1,4-Difluorobenzene	9.28	114.0	161658	50.00	ug/L
33) Carbon Tetrachloride	8.26	117.0	414714	186.22	ug/L
34) 1,1-Dichloropropene	8.11	75.0	331042	183.69	ug/L
35) Benzene	8.61	78.0	599688	189.00	ug/L
36) 1,2-Dichloroethane	8.64	62.0	280000	178.36	ug/L
37) Trichloroethene	9.83	95.0	314921	187.24	ug/L
38) 1,2-Dichloropropane	10.20	63.0	293285M ^{AT}	197.01	ug/L
39) Bromodichloromethane	10.62	83.0	491037 ^{AT}	193.49	ug/L
40) Dibromomethane	10.68	174.0	292790	182.43	ug/L
41) cis-1,3-Dichloropropene	11.70	75.0	392204	203.35	ug/L
42) Vinyl Acetate	11.40	43.0	271360	197.86	ug/L
43) trans-1,3-Dichloropropene	12.65	75.0	313720M ^{AT}	202.76	ug/L

QUANT REPORT

Page 3

Operator ID: KL7127
 Output File: ^A3637::QT
 Data File: >A3637::RS
 Name: INST 59701, USTD200
 Misc: USTD200 ,L,5,5, 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990315 15:44
 Injected at: 990315 15:13
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

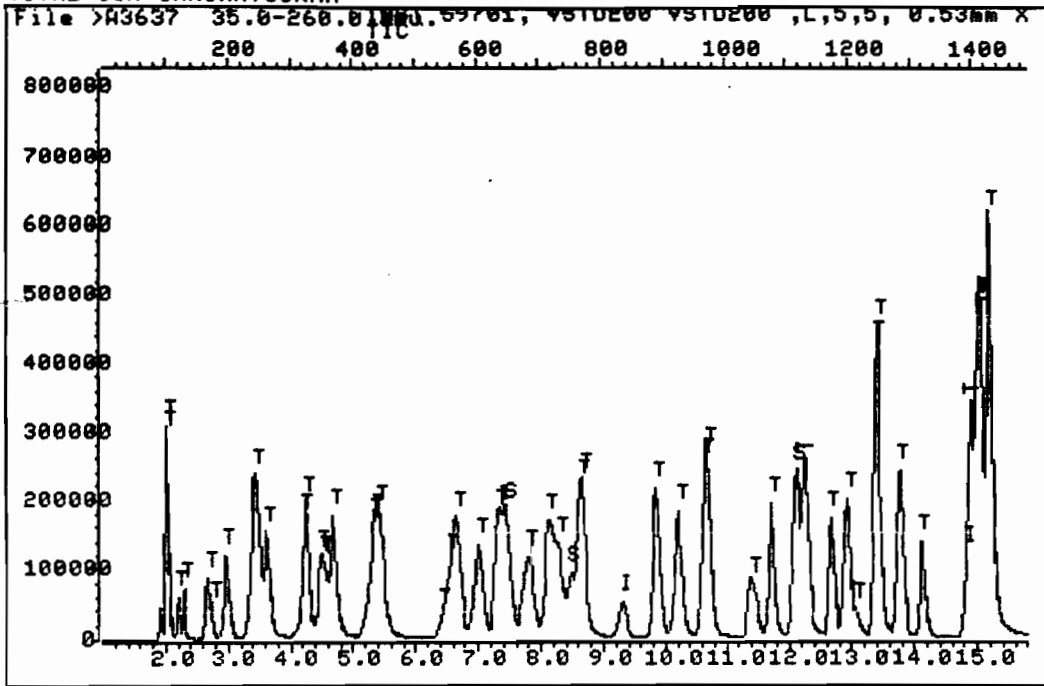
ID File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990217 14:47

Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units	q
91) Hexachlorobutadiene	23.28	225.0	522665	198.12	ug/L	9
92) Naphthalene	23.41	128.0	678924	191.44	ug/L	10
93) 1,2,3-Trichlorobenzene	23.89	180.0	498593M	178.14	ug/L	

* Compound is ISTD

TOTAL ION CHROMATOGRAM

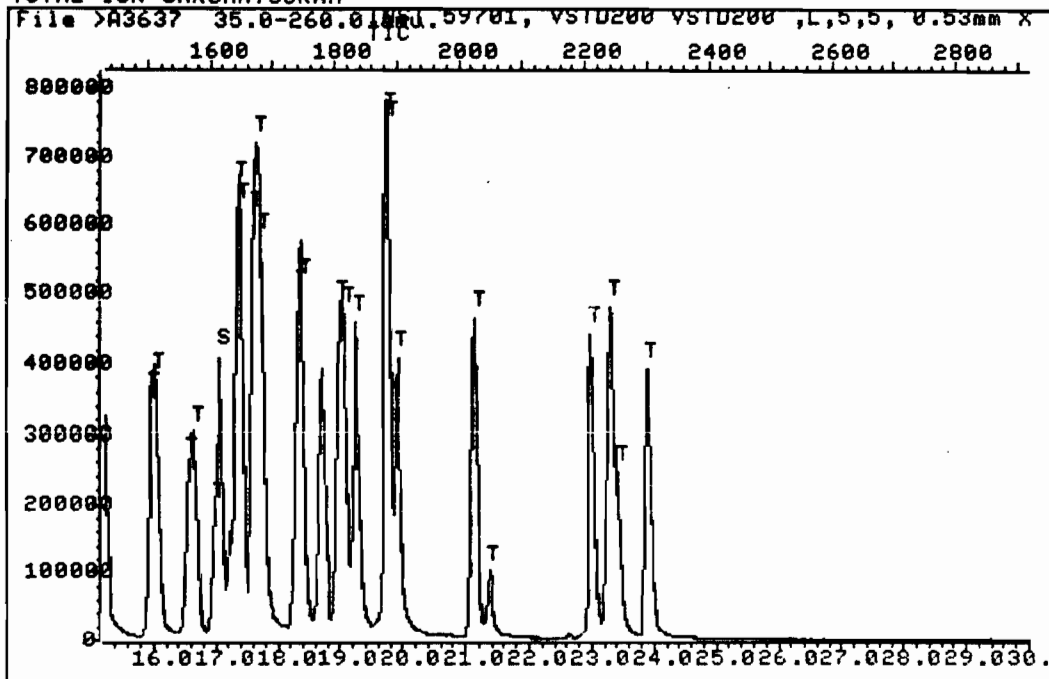


Data File: >A3637::RS Quant Output File: ^A3637::QT
Name: INST 59701, VSTD200 Instrument ID: INST "A"
Misc: VSTD200 ,L,5,5, 0.53mm X 75m DB-624

Id File: ID86AL::RS
Title: Method 8260B IDFILE
Last Calibration: 990217 14:47 Last Qcal Time: <none>

Operator ID: KL7127
Quant Time : 990315 15:44
Injected at: 990315 15:13

TOTAL ION CHROMATOGRAM



Data File: >A3637::RS Quant Output File: ^A3637::QT
Name: INST 59701, USTD200 Instrument ID: INST "A"
Misc: USTD200 ,L,5,5, 0.53mm X 75m DB-624

Id File: ID86AL::RS
Title: Method 8260B IDFILE
Last Calibration: 990217 14:47 Last Qcal Time: <none>

Operator ID: KL7127
Quant Time : 990315 15:44
Injected at: 990315 15:13

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Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 03/16/99
 Contractor: ICM LAB _____ Time: 17:30
 Contract No: _____ Laboratory ID: >R3658
 Instrument ID: 59701 MSD/A _____ Initial Calibration Date: 03/15/99

Minimum RF for SPCC is 0.1 Maximum % Diff for CCC is 20%

Compound	RF	RF	%Diff	CCC	SPCC
Chlorodifluoromethane	.51495	.43276	15.96		
Dichlorodifluoromethane	.37572	.33553	10.70		
Chloromethane	.14370	.12717	11.50	**	
Vinyl Chloride	.16194	.14520	10.34	*	
Bromomethane	.21403	.18746	12.41		
Chloroethane	.11916	.10780	9.54		
Trichlorofluoromethane	.51365	.46896	8.70		
Freon-113	.74109	.62883	15.15		
1,1-Dichloroethene	.50281	.42011	16.45	*	
Carbon Disulfide	.57958	.46882	19.11		
Methylene Chloride	.60387	.36883	38.92		
Acetone	.70484	.60969	13.50		
t-Butyl alcohol	.05028	.04270	15.07		(Conc=125.00)
trans-1,2-Dichloroethene	.32949	.28174	14.49		
Acrolein	.00718	.00710	1.24		(Conc=250.00)
Acrylonitrile	.04929	.06969	41.38		(Conc=250.00)
t-Butyl methyl ether	.72821	.61704	15.27		
Diisopropyl ether	1.26257	1.01814	19.36		
1,1-Dichloroethane	.70713	.58914	16.69	**	
2-Butanone	.08814	.12086	37.13		
2,2-Dichloropropane	.52967	.44426	16.13		
cis-1,2-Dichloroethene	.37593	.31758	15.52		
Bromochloromethane	.24578	.21311	13.29		
Chloroform	.76401	.65204	14.66	*	
Dibromofluoromethane	.70311	.65704	6.55		
1,1,1-Trichloroethane	.63973	.54039	15.53		
1,2-Dichloroethane-df	.38349	.35456	7.54		
EXTRA#1	-	-	-		
EXTRA#2	-	-	-		
EXTRA#3	-	-	-		
Carbon Tetrachloride	.66801	.58872	11.87		
1,1-Dichloropropene	.54072	.44975	16.82		

RF - Response Factor from daily standard file at 50.00 ug/L

RF - Average Response Factor from Initial Calibration Form UI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

QUANT REPORT

Operator ID: AT1446
 Output File: ^A3658::X1
 Data File: >A3658::B1
 Name: INST 59701,USTD050
 Misc: USTD050 ,},},}, 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990316 18:01
 Injected at: 990316 17:30
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990315 18:22

Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units
44) 1,1,2-Trichloroethane	12.91	97.0	71861	47.33	ug/L
45) 2-Chloroethylvinylether	15.18	63.0	24594	93.22	ug/L
46) 1,3-Dichloropropane	13.37	76.0	101560	46.81	ug/L
47) Dibromochloromethane	13.75	129.0	133919	45.15	ug/L
48) Bromoform	16.54	173.0	128482	51.16	ug/L
52) *Chlorobenzene-d5	14.82	117.0	150318	50.00	ug/L
53) 4-Methyl-2-Pentanone	11.43	43.0	102812	65.14	ug/L
54) Toluene-d8	12.09	98.0	192503	52.17	ug/L
55) Toluene	12.23	92.0	110908	47.41	ug/L
56) Tetrachloroethene	13.39	164.0	89524	47.51	ug/L
57) Isopropylbenzene	16.63	105.0	193584	45.42	ug/L
58) 1,1,2,2-Tetrachloroethane	16.97	83.0	124410	59.11	ug/L
59) 2-Hexanone	13.06	43.0	47174	75.01	ug/L
60) 1,2-Dibromoethane	14.11	107.0	107749	52.85	ug/L
61) Chlorobenzene	14.89	112.0	166988	47.59	ug/L
62) 1,1,1,2-Tetrachloroethane	15.00	131.0	92795	48.08	ug/L
63) Ethylbenzene	15.04	91.0	210558	46.04	ug/L
64) m+p-Xylenes	15.18	91.0	428277M	93.87	ug/L
65) o-Xylene	15.96	91.0	203637	46.60	ug/L
66) Styrene	16.02	104.0	151329	45.87	ug/L
67) Bromofluorobenzene	17.06	95.0	193554	49.30	ug/L
68) p-ethyltoluene	17.59	105.0	492630	45.34	ug/L
69) Bromobenzene	17.34	156.0	105367	47.70	ug/L
70) p-diethylbenzene	18.31	119.0	240237M	45.37	ug/L
71) 1,2,3-Trichloropropane	19.25	75.0	86321	67.17	ug/L
72) n-Propylbenzene	17.37	91.0	313904	45.53	ug/L
73) 2-Chlorotoluene	17.63	91.0	243385	46.40	ug/L
74) 1,3,5-Trimethylbenzene	18.36	105.0	217509	45.55	ug/L
75) 4-Chlorotoluene	17.72	91.0	290879	46.39	ug/L
76) tert-Butylbenzene	18.31	119.0	243318	45.55	ug/L
77) 1,2,4-Trimethylbenzene	18.36	105.0	217509	45.55	ug/L
78) sec-Butylbenzene	19.73	105.0	178011M	45.90	ug/L
79) 1,2,4,5-tetramethylbenzene	18.97	119.0	272096	46.45	ug/L
80) p-Isopropyltoluene	21.12	119.0	265577	44.58	ug/L
84) *1,4-Dichlorobenzene-d4	19.19	152.0	121929	50.00	ug/L
85) 1,3-Dichlorobenzene	19.04	146.0	172567	45.51	ug/L
86) 1,4-Dichlorobenzene	19.24	146.0	192373	46.87	ug/L
87) n-Butylbenzene	19.71	92.0	160462	44.23	ug/L
88) 1,2-Dichlorobenzene	19.89	146.0	168933	44.09	ug/L
89) 1,2-Dibromo-3-chloropropane	21.35	157.0	44658	71.08	ug/L
90) 1,2,4-Trichlorobenzene	22.98	180.0	168155	45.55	ug/L

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QUANT REPORT

Page 3

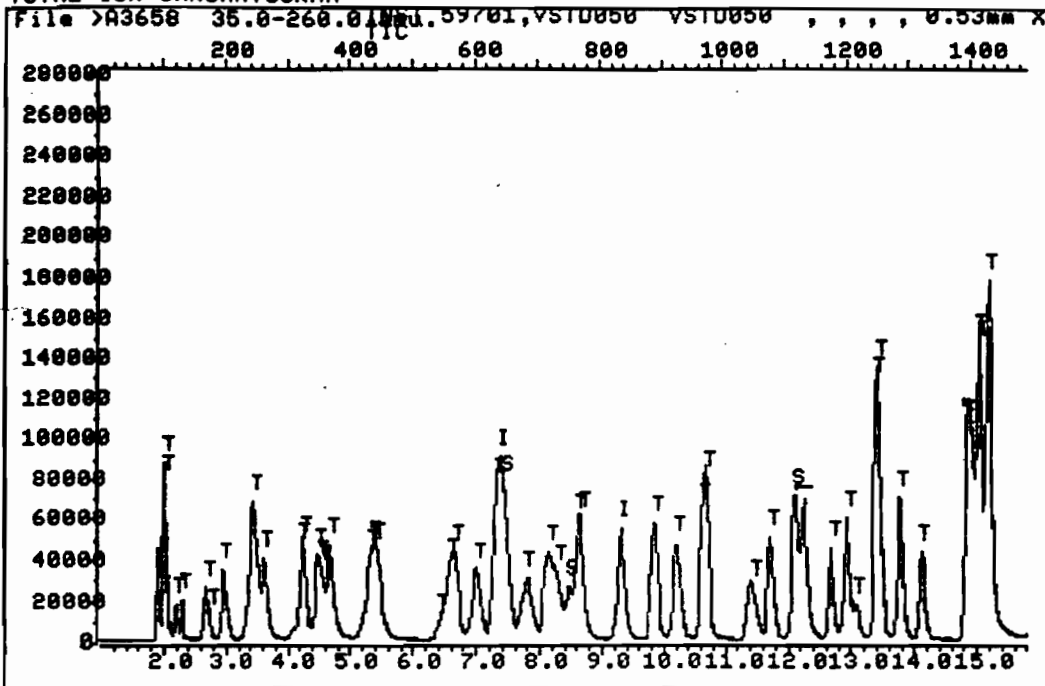
Operator ID: AT1446 Quant Rev: 7 Quant Time: 990316 18:01
 Output File: ^A3658::X1 Injected at: 990316 17:30
 Data File: >A3658::B1 Dilution Factor: 1.00000
 Name: INST 59701,USTD050 Instrument ID: INST "A"
 Misc: USTD050 ,,, , 0.53mm X 75m DB-624

ID File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990315 18:22 Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units
91) Hexachlorobutadiene	23.28	225.0	152138	45.33	ug/L
92) Naphthalene	23.40	128.0	252163	52.56	ug/L
93) 1,2,3-Trichlorobenzene	23.88	180.0	152114	45.44	ug/L

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >A3658::B1

Quant Output File: ^A3658::X1

Name: INST 59701,VSTD050

Instrument ID: INST "A"

Misc: VSTD050 , , , , 0.53mm X 75m DB-624

Id File: ID86AL::RS

Title: Method 8260B IDFILE

Last Calibration: 990315 18:22

Last Qcal Time: <none>

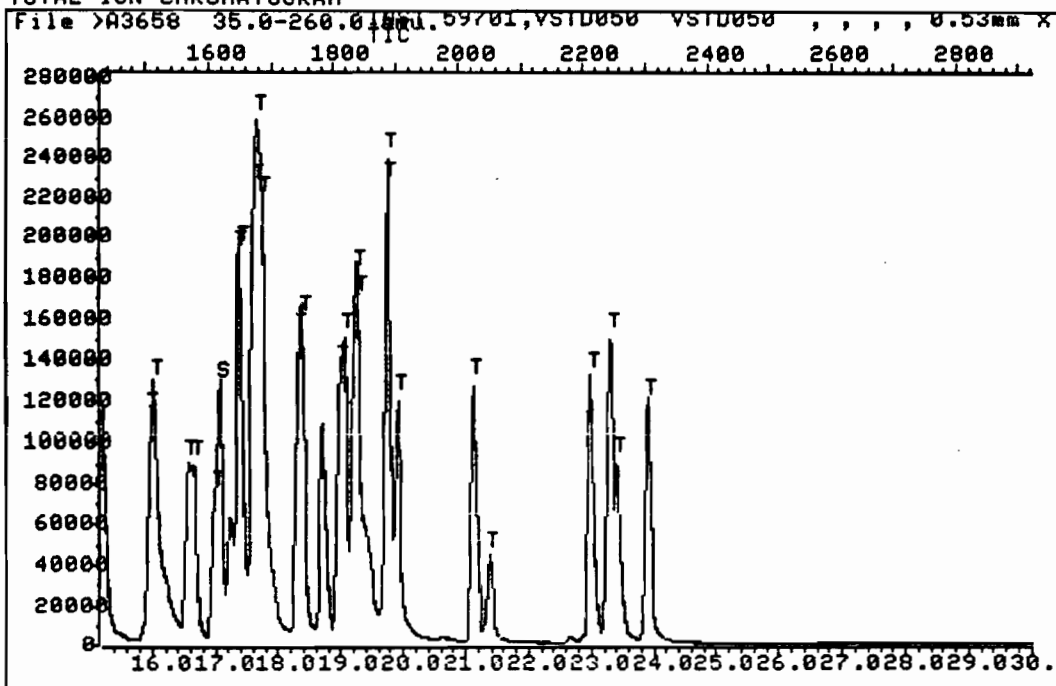
Operator ID: AT1446

Quant Time : 990316 18:01

Injected at: 990316 17:30

Page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >A3658::B1 Quant Output File: ^A3658::X1
Name: INST 59701,USTD050 Instrument ID: INST "A"
Misc: USTD050 , , , , 0.53mm X 75m DB-624

Id File: ID86AL::RS
Title: Method 8260B IDFILE
Last Calibration: 990315 18:22 Last Qcal Time: <none>

Operator ID: AT1446
Quant Time : 990316 18:01
Injected at: 990316 17:30

ANALab, Inc. - Randolph Facility
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
APRIL 1, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

GC/MS INITIAL CALIBRATION SUMMARY
VOLATILE ORGANIC COMPOUNDS

INSTRUMENT ID: 59701
BATCH #: QV5854

THIS INITIAL CALIBRATION APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS

LAB SAMPLE ID DATA FILE ANALYSIS DATE ANALYSIS TIME

VST050	>A3680	03/17/99	13:45
BLANK	>A3681	03/17/99	14:46
QA SAMPLE	>A3682	3/17/99	15:40
BLANK MS	>A3683	3/17/99	16:18
306333MS	>A3685	3/17/99	17:32
306333MSD	>A3686	3/17/99	18:10
306390	>A3688	03/17/99	19:24
306391	>A3689	03/17/99	20:01
306392	>A3690	03/17/99	20:37
306393	>A3691	03/17/99	21:14
306394	>A3692	03/17/99	21:50
306395	>A3693	03/17/99	22:27
306396	>A3694	03/17/99	23:03
306397	>A3695	03/17/99	23:40
306398	>A3696	3/17/99	00:16

INITIAL CALIBRATION

VSTD050	>A3593	03/11/99	09:41
VSTD010	>A3594	03/11/99	10:49
VSTD200	>A3595	03/11/99	11:26
VSTD100	>A3596	03/11/99	12:03
VSTD020	>A3597	03/11/99	12:40

NOTE: The 'Calibration Date' listed on the Initial Calibration Data form reflects the last date that a modification was made to the file, not the date that the Initial Calibration was acquired. The Initial Calibration acquisition dates are on the 'GC/MS Initial Calibration Summary'.

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ALI

Initial Calibration Data

MSL Compound:

Case No: _____ Instrument ID: 59701 MSD/A

Contractor: ICM LAB Calibration Date: 03/11/99

Contract No: _____

Minimum RF for SPCC is 0.1 Maximum % RSD for CCC is 30%

Compound	Laboratory ID: >A3594 >A3597 >A3593 >A3596 >A3595					RF1	RF	% RSD	CCC	SPCC
	RF	RF	RF	RF	RF					
Carbon Tetrachloride	.54230	.58049	.60940	.63030	.64054	.889	.60064	6.641		
1,1-Dichloropropene	.40602	.47679	.42947	.48364	.47144	.873	.45245	7.222		
Benzene	.73146	.82841	.78034	.88143	.86075	.927	.81648	7.464		
1,2-Dichloroethane	.35742	.42930	.39271	.45286	.43634	.930	.41373	9.201		
Trichloroethene	.39018	.45730	.41872	.47977	.46192	1.058	.44319	7.500		
1,2-Dichloropropane	.32192	.41054	.36297	.43075	.40969	1.097	.38917	10.414 *		
Bromodichloromethane	.59303	.70432	.69606	.76464	.75329	1.142	.70237	9.646		
Dibromomethane	.39856	.48430	.43868	.50094	.46802	1.149	.45811	8.831		
cis-1,3-Dichloropropene	.39853	.52190	.47870	.58684	.56937	1.259	.51127	14.829		
Vinyl Acetate	.23558	.40907	.25099	.44343	.37189	1.228	.34218	27.456		
trans-1,3-Dichloropropene	.30181	.43501	.37708	.49240	.47190	1.302	.41576	18.582		
1,1,2-Trichloroethane	.39502	.38670	.32110	.40147	.37584	1.389	.36064	11.433		
2-Chloroethoxyvinylether	.05189	.06913	.06091	.06431	.06663	1.631	.06258	10.699		(Conc=20.0,40.0,100.0,200)
1,3-Dichloropropane	.48472	.54398	.45421	.56178	.51879	1.439	.49508	13.135		
Dibromochloromethane	.56297	.74176	.67140	.79348	.75972	1.481	.70587	12.960		
Bromoform	.44222	.63043	.52330	.68013	.61307	1.781	.58004	16.409	**	
EXTRA#4	-	-	-	-	-	-	-	-		
EXTRA#5	-	-	-	-	-	-	-	-		
EXTRA#6	-	-	-	-	-	-	-	-		
4-Methyl-2-Pentanone	.25718	.44845	.26564	.47300	.41533	.770	.37194	27.093		
Toluene-d8	.82782	1.03962	.90182	1.08590	1.10995	.816	1.00503	11.347		
Toluene	.52613	.65925	.61676	.69176	.69865	.826	.63851	11.070 *		
Tetrachloroethene	.48663	.56392	.54899	.54920	.54813	.904	.53938	5.602		
Isopropylbenzene	.94264	1.19476	1.10402	1.24938	1.23181	1.123	1.14284	10.864		
1,1,2,2-Tetrachloroethane	.44942	.66250	.50265	.66002	.60141	1.145	.57520	16.627	**	
2-Hexanone	.10303	.20829	.10017	.18900	.15839	.881	.15018	31.251		
1,2-Dibromoethane	.43957	.62419	.49870	.63788	.61546	.952	.56316	15.751		
Chlorobenzene	.88527	1.03524	.97095	1.04511	1.04579	1.005	.99645	6.975	**	
1,1,1,2-Tetrachloroethane	.47825	.57203	.55240	.57348	.55916	1.012	.54705	7.212		
Ethylbenzene	1.07816	1.30861	1.22788	1.33786	1.30710	1.014	1.25192	8.417 *		

RF - Response Factor (Subscript is amount in ug/L)

RF1 - Average Relative Retention Time (RF Std/RF) Isd

RF - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*), SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: 59701 MSD/A
 Contractor: ICM LAB Calibration Date: 03/11/99
 Contract No: _____

Minimum RF for SPCC is 0.1 Maximum % RSD for CCC is 30%

Compound	Laboratory ID:					RRT	RF	% RSD	CCC	SPCC
	>A3594	>A3597	>A3593	>A3596	>A3595					
	RF	RF	RF	RF	RF					
	10.00	20.00	50.00	100.00	200.00					
m,p-Xylenes	1.67688	2.04309	1.89551	2.03783	1.98513	1.024	1.92769	7.897		(Conc=20.0,40.0,100.0,200
o-Xylene	1.00985	1.23279	1.14865	1.27137	1.26553	1.076	1.18552	9.266		
Styrene	.74797	.91189	.85099	.95672	.94990	1.081	.88349	9.803		
Bromofluorobenzene	.84251	1.10447	.96017	1.10546	1.06168	1.151	1.01486	11.140		
p-ethyltoluene	2.50743	3.09249	2.96215	3.12789	2.96955	1.187	2.93190	8.471		
Bromobenzene	.55318	.67635	.61303	.65402	.61332	1.170	.62198	7.571		
p-diethylbenzene	1.23719	1.51849	1.42109	1.53817	1.47358	1.235	1.43449	8.216		
1,2,3-Trichloropropane	.30809	.38008	.32717	.34760	.34288	1.343	.34116	7.821		
n-Propylbenzene	1.56353	1.91820	1.81839	1.96006	1.90901	1.172	1.83394	8.708		
2-Chlorotoluene	1.33012	1.44066	1.40758	1.47811	1.39753	1.190	1.41078	3.901		
1,3,5-Trimethylbenzene	1.08826	1.40555	1.26575	1.36652	1.31846	1.239	1.28891	9.605		
4-Chlorotoluene	1.39851	1.84965	1.64323	1.82930	1.70504	1.196	1.68515	10.786		
tert-Butylbenzene	1.24532	1.52524	1.42642	1.53317	1.46940	1.235	1.44053	8.118		
1,2,4-Trimethylbenzene	1.08826	1.40996	1.26575	1.36652	1.31846	1.239	1.28979	9.679		
sec-Butylbenzene	.96846	1.11208	1.03882	1.06272	1.03616	1.332	1.04365	4.974		
1,2,4,5-tetramethylbenzene	1.24263	1.63347	1.56163	1.69749	1.65813	1.271	1.55867	11.771		
p-Isopropyltoluene	1.23079	1.59307	1.50958	1.71661	1.75378	1.425	1.56073	13.373		
EXTRA#7	-	-	-	-	-	-	-	-		
EXTRA#8	-	-	-	-	-	-	-	-		
EXTRA#9	-	-	-	-	-	-	-	-		
1,3-Dichlorobenzene	1.21514	1.39605	1.30403	1.41696	1.33575	.992	1.33380	6.020		
1,4-Dichlorobenzene	1.28168	1.54013	1.41167	1.55168	1.49693	1.003	1.45702	7.673		
n-Butylbenzene	1.06067	1.24098	1.22504	1.31710	1.23939	1.028	1.21664	7.754		
1,2-Dichlorobenzene	1.20749	1.39031	1.25246	1.45856	1.37253	1.037	1.33627	7.741		
1,2-Dibromo-3-chloropropane	.13781	.25694	.17335	.27132	.23933	1.113	.21575	26.639		
1,2,4-Trichlorobenzene	1.13083	1.38842	1.19405	1.45699	1.37451	1.137	1.30896	10.631		
Hexachlorobutadiene	1.09502	1.19120	1.14860	1.26386	1.15478	1.213	1.17069	5.329		
Naphthalene	1.32482	2.09585	1.20011	1.99077	1.66983	1.220	1.65628	23.833		
1,2,3-Trichlorobenzene	1.06317	1.28192	1.00569	1.29855	1.20039	1.244	1.16994	11.176		
2-Methylnaphthalene	-	-	-	-	-	-	-	-		

RF - Response Factor (Subscript is amount in ug/L)

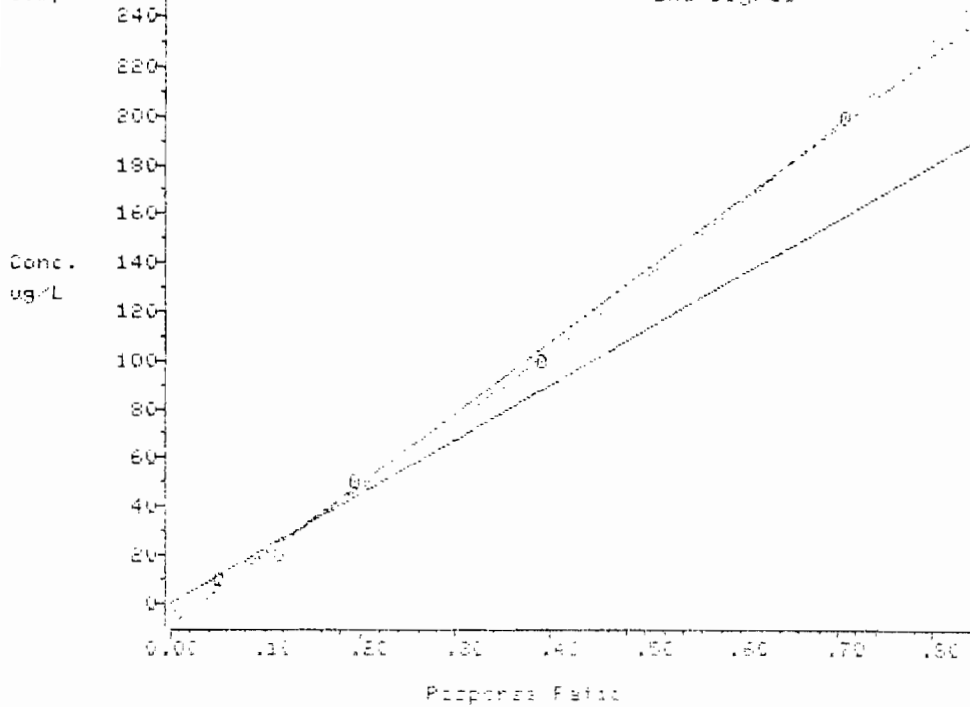
RRT - Average Relative Retention Time (RT Std/RT Istd)

RF - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (***) SPEC - System Performance Check Compounds (***)

Calib File: CA3599::A1 Comp # 5
 Calib Date: 990311 17:54
 Comp: Bromomethane



Compound # 5 Calib File: CA3599::A1

Compound: Bromomethane
 Istd: Pentafluorobenzene

Files: CA3599 CA3597 CA3593 CA3596 CA3598
 Conc: 10.00 20.00 50.00 100.00 200.00
 RF: .125489 .12760 .13409 .19529 .17208

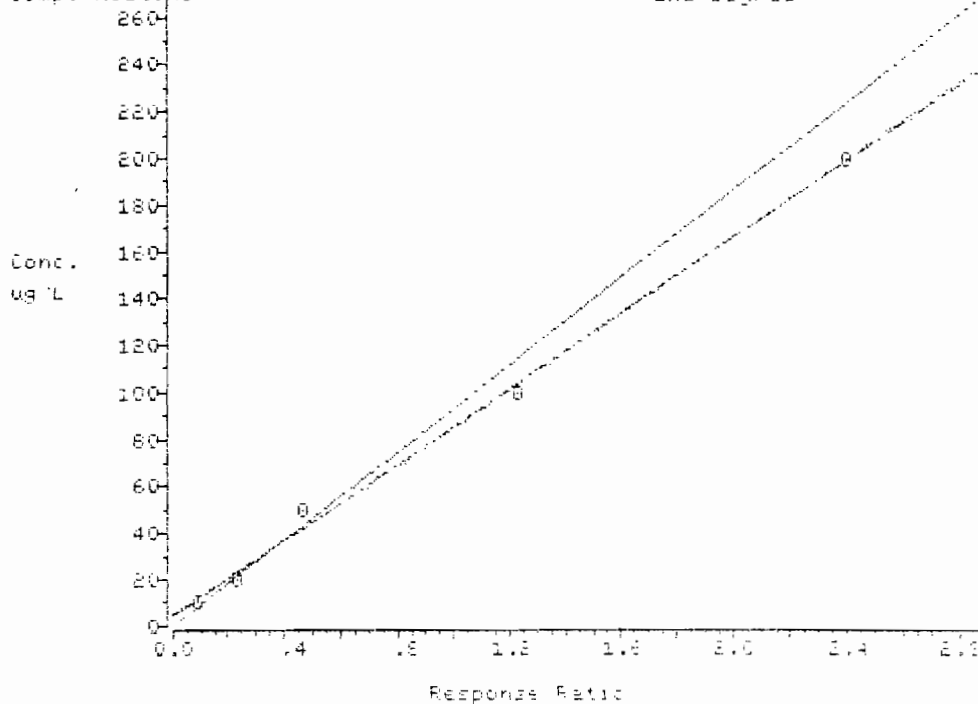
Average of 5 Rfs: .23175 (21.30 % Rsd) R: .0000000 S_y: .0000000
 1st Degree Equation: $y = -.125379 + 5.847854x$
 1st Degree Corr Coef: .9984499 *AT 3/12/11*
 2nd Degree Equation: $y = -.026377 + 4.950742(x) + 1.155344(x^2)$
 2nd Degree Corr Coef: .9990697

In the above equations:

$$y = \frac{\text{Conc Std}}{\text{Conc Istd}} \quad x = \frac{\text{Area Std}}{\text{Area Istd}}$$

Istd Conc for all calibration points is: 50.00

Calib File: CA3593::A1 Comp # 12
 Calib Date: 990311 17:54
 Comp: Acetone



Compound # 12 Calib File: CA3593::A1

Compound: Acetone
 Istd: Pentafluorobenzene

File: CA3594 CA3597 CA3593 CA3596 CA3595
 Conc: 10.00 20.00 50.00 100.00 200.00
 RF: .42305 .57418 .46490 .61632 .59892

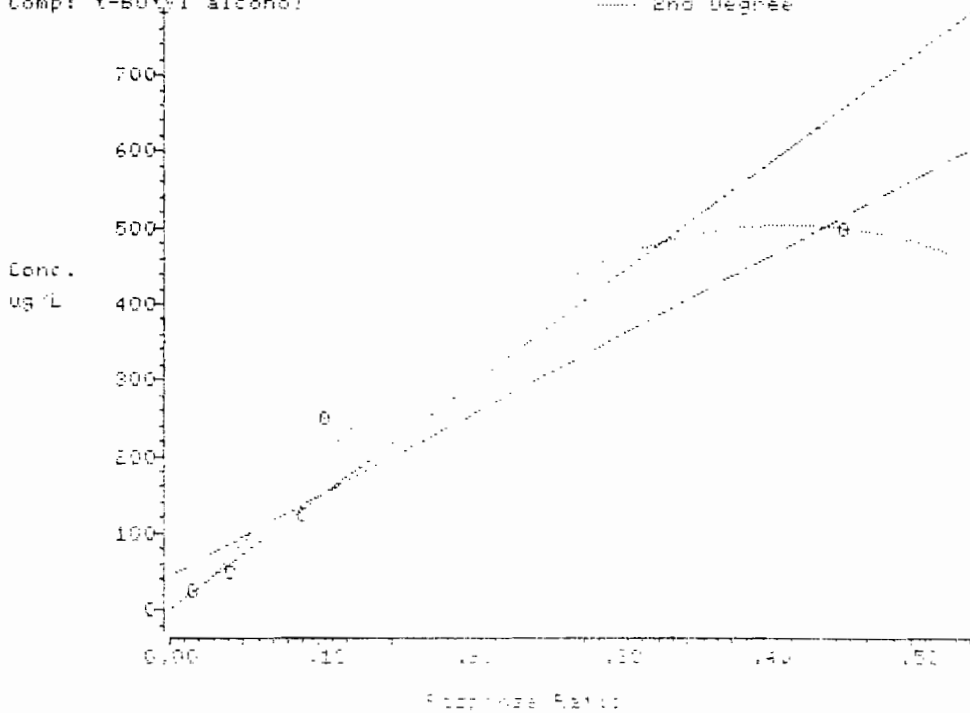
Average of 5 Rfs: .53545 (16.09 % Red) Rv: .0000000 Ry: .0000000
 1st Degree Equation: $y = .0895901 + 1.622735(x)$
 1st Degree Corr Coef: .9980505 *AT 3/11/98*
 2nd Degree Equation: $y = .1029502 + 1.574452(x) + .0193768(x^2)$
 2nd Degree Corr Coef: .9980755

In the above equations:

$$y = \frac{\text{Conc Std}}{\text{Conc Istd}} \quad x = \frac{\text{Area Std}}{\text{Area Istd}}$$

Istd Conc for all calibration points is: 50.00

Calib File: C93593::R1 Comp # 11
 Calib Date: 990311 17:54
 Comp: t-Butyl alcohol



Compound # 13 Calib File: C 7000 111

Compound: t-Butyl alcohol
 Istd: Perfluorobenzene

File: A3594 A3597 A3599 A3600 A3603
 Conc: 25.00 50.00 125.00 250.00 500.00
 RF: .02947 .04143 .03979 .02014 .04811

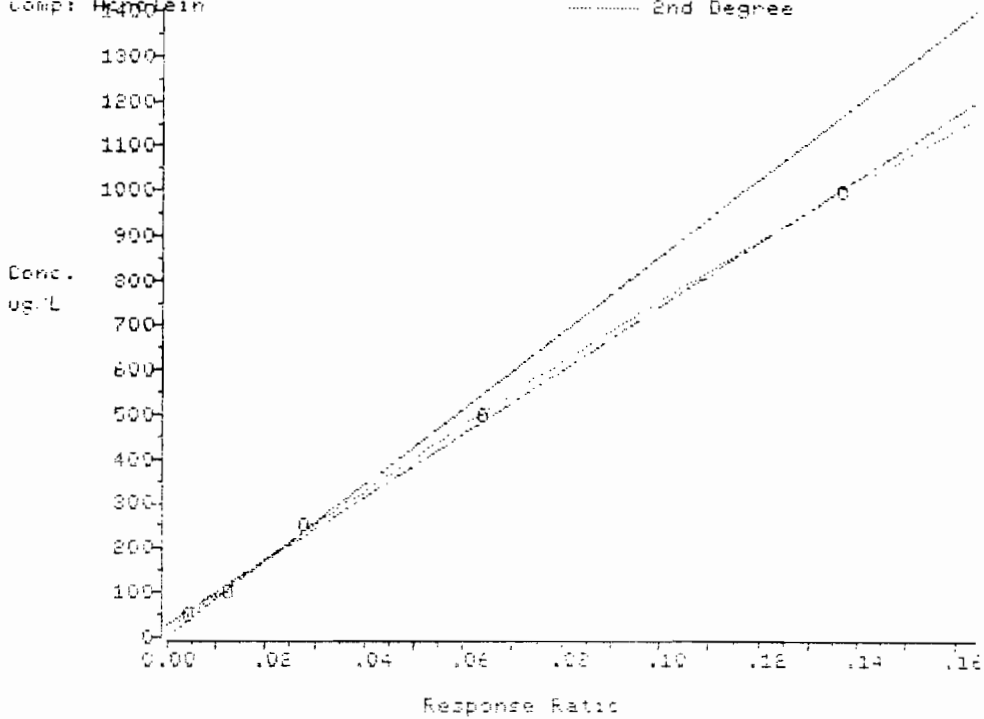
Average of 5 Rfs: .03407 11.14 % Rsd F: .0000000 R_y: .0000000
 1st Degree Equation: $y = .0171929 + 20.78556(x)$
 1st Degree Corr Coef: .9870041
 2nd Degree Equation: $y = -.000000 + 51.07395(x) + -50.8828(x^2)$
 2nd Degree Corr Coef: .992003 *At 3/12/99*

In the above equations:

$$y = \frac{\text{Conc Std}}{\text{Conc Istd}} \quad \text{Area Std} = \frac{\text{Area Istd}}{\text{Conc Istd}}$$

Istd Conc for all calibration points is: 50.00

Calib File: CA3593::A1 Comp # 15
 Usid Date: 990311 17:54
 Comp: Acrolein



Compound # 15 Calib File: CA3593::A1

Compound: Acrolein
 Istd: Pentafluorobenzene

Files: >A3594 >A3597 >A3593 >A3596 >A3595
 Conc: 50.00 100.00 250.00 500.00 1000.0
 Rf: .00411 .00530 .00555 .00542 .00524

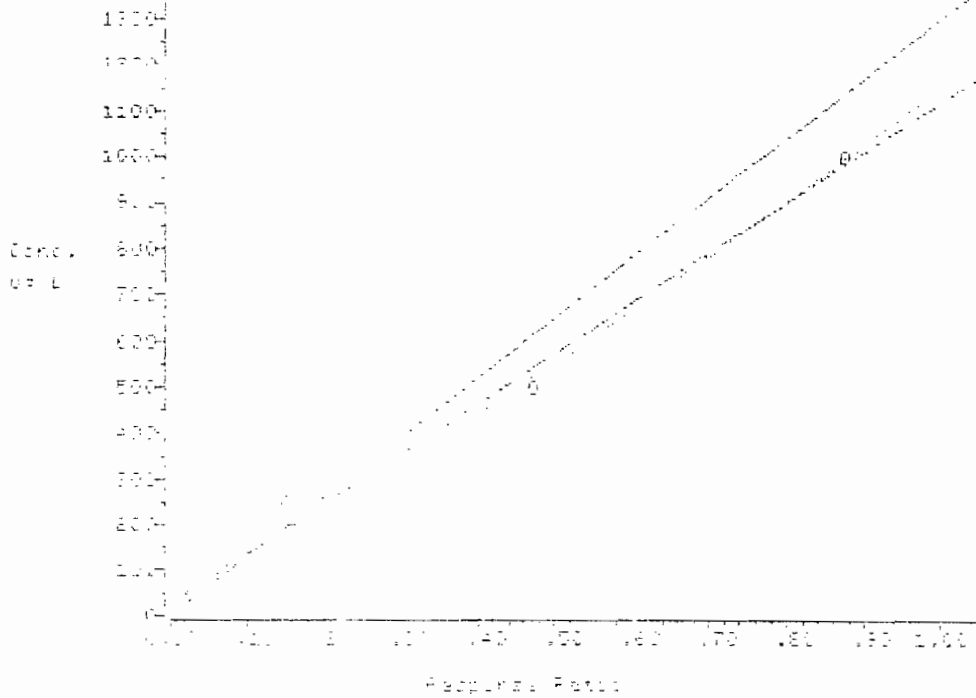
Average of 5 Rfs: .00584 (18.41 % Rsd) Rx: .0000000 Ry: .0000000
 1st Degree Equation: $y = .5593957 + 143.1819(x)$
 1st Degree Corr Coef: .9990460 *PT 3/12/99*
 2nd Degree Equation: $y = .2715299 + 151.9195(x) + -130.732(x^2)$
 2nd Degree Corr Coef: .9995409

In the above equations:

$$y = \frac{\text{Conc Std}}{\text{Conc Istd}} \quad x = \frac{\text{Area Std}}{\text{Area Istd}}$$

Istd Conc for all calibration points is: 50.00

Data File: TA3790100A1 Comp # 16
 Data Date: 06/01/81
 Comp: Polyethylene



Line of Best Fit Data File: TA3790100A1

Computer File Name: TA3790100A1
 Data File: TA3790100A1

File: 40801 40802 40803 40804 40805
 Cond: 50.00 50.00 50.00 50.00 50.00
 Area: 0.0000 0.0000 0.0000 0.0000 0.0000

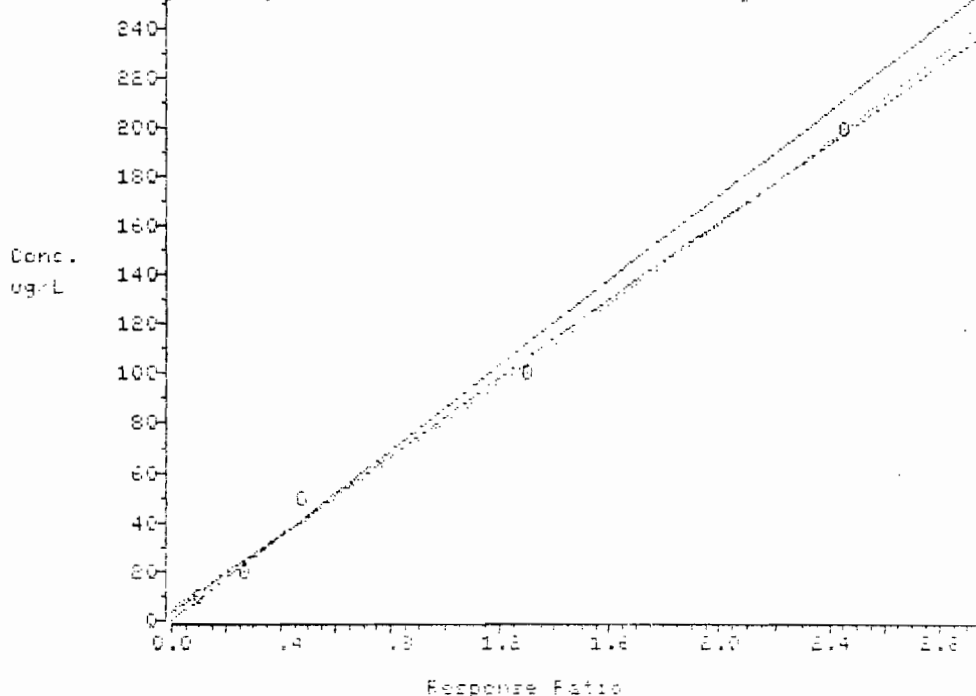
Average of 5 RFs: 0.0000 (24.91 % Fed) F₀: 0.0000000 R₀: 0.0000000
 1st Degree Equation: = .0000000 + 0.000000(x)
 1st Degree Corr. Coef: 0.000000 *R = 3112/59*
 2nd Degree Equation: = .0000000 + 0.000000(x) + 0.000000(x²)
 2nd Degree Corr. Coef: 0.000000

In the above equations:

$$\frac{\text{Cond. Std}}{\text{Cond. Istd}} = \frac{\text{Area Std}}{\text{Area Istd}}$$

Data Cond. for all calibration points is: 50.00

Calib File: CA3593::A1 Comp # 17
 Calib Date: 990311 17:54
 Comp: t-Butyl methyl ether



Compound # 17 Calib File: CA3593::A1

Compound: t-Butyl methyl ether
 Istd: Pentafluorobenzene

File: >A3594 >A3597 >A3593 >A3596 >A3595
 Conc: 10.00 20.00 50.00 100.00 200.00
 Rf: .49604 .86008 .47647 .65073 .61088

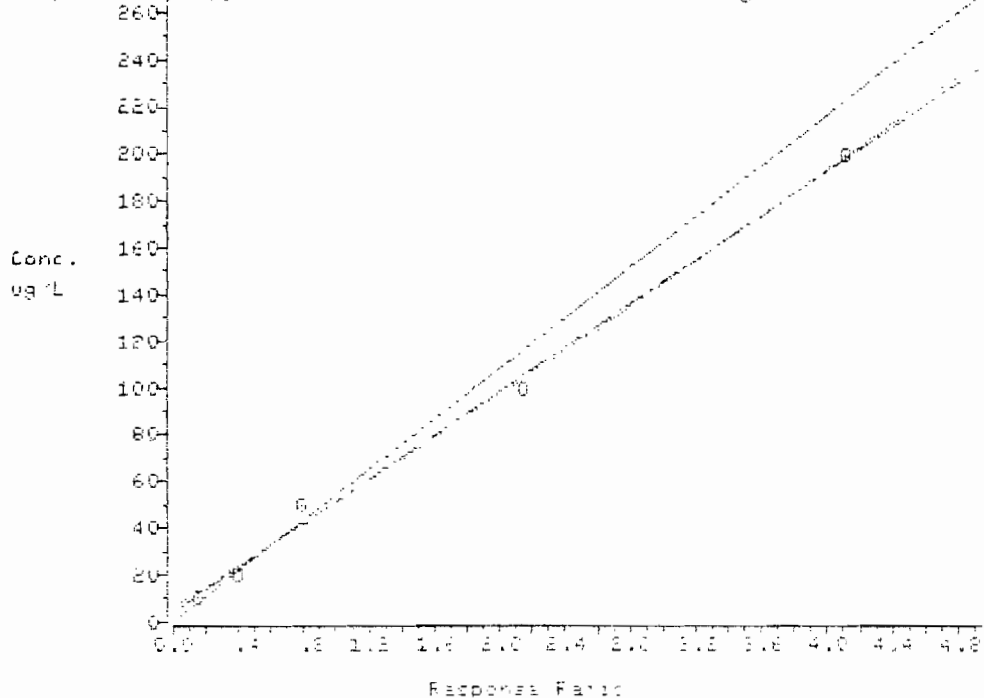
Average of 5 Rfs: .57930 (15.03 % Rsd) Rr: .0000000 Rf: .0000000
 1st Degree Equation: $y = .0591562 + 1.590395(x)$
 1st Degree Corr Coef: .9989641 *AT 3/12/99*
 2nd Degree Equation: $y = .0980899 + 1.457425(x) + .0519386(x^2)$
 2nd Degree Corr Coef: .9971546

In the above equations:

$$y = \frac{\text{Conc Std}}{\text{Conc Istd}} \quad x = \frac{\text{Area Std}}{\text{Area Istd}}$$

Istd Conc for all calibration points is: 50.00

Calib File: CA3593::A1 Comp # 18
 Calib Date: 990311 17:54
 Comp: Diisopropyl ether



Compound # 18 Calib File: CA3593::A1

Compound: Diisopropyl ether
 Istd: Pentafluorobenzene

Files: A3594 A3597 A3592 A3596 A3595
 Conc: 10.00 20.00 50.00 100.00 200.00
 Rf: .73765 .82727 .78416 1.0721 1.0183

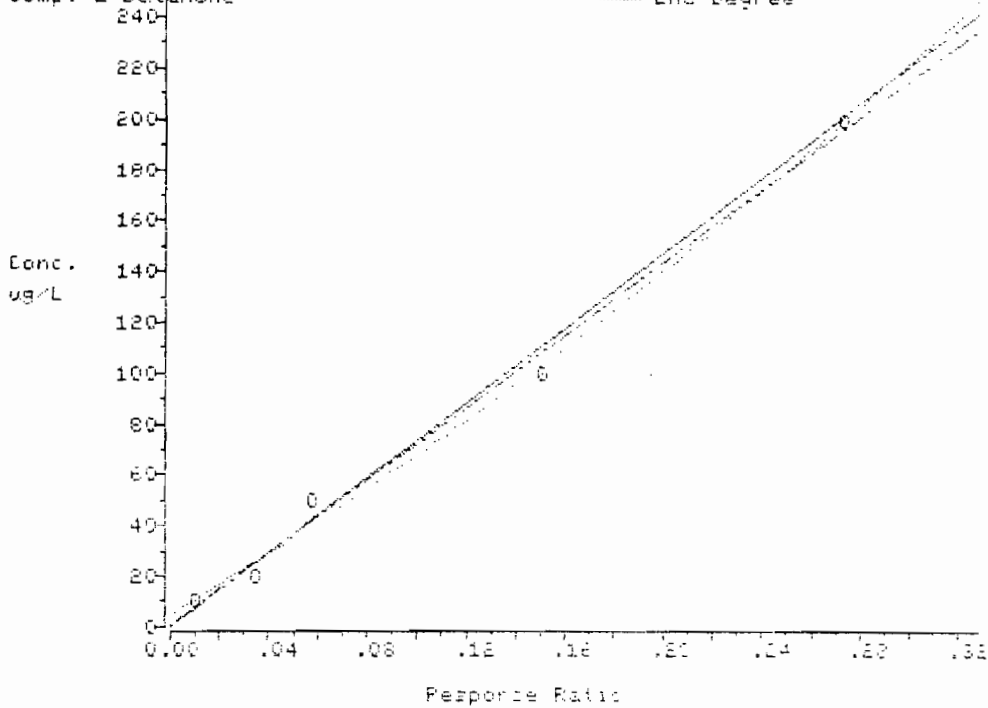
Average of 5 Rfs: .92191 (15.37 % Red): P: .0000000 R: .0000000
 1st Degree Equation: $y = .090250x + .94253289$
 1st Degree Corr Coef: .9975441 AT 3/12/99
 2nd Degree Equation: $y = .114525x + .990980(x) + .0120808(x^2)$
 2nd Degree Corr Coef: .9976281

In the above equations:

$$y = \frac{\text{Conc Std}}{\text{Conc Istd}} \quad x = \frac{\text{Area Std}}{\text{Area Istd}}$$

Istd Conc for all calibration points is: 50.00

Calib File: CA3593::A1 Comp # 20
 Calib Date: 990311 17:54
 Comp: 2-Butanone



Compound # 20 Calib File: CA3593::A1

Compound: 2-Butanone
 Istd: Pentafluorobenzene

File: >A3594 >A3597 >A3593 >A3595 >A3595
 Conc: 10.00 20.00 50.00 100.00 200.00
 Rf: .04928 .06781 .05791 .07559 .06829

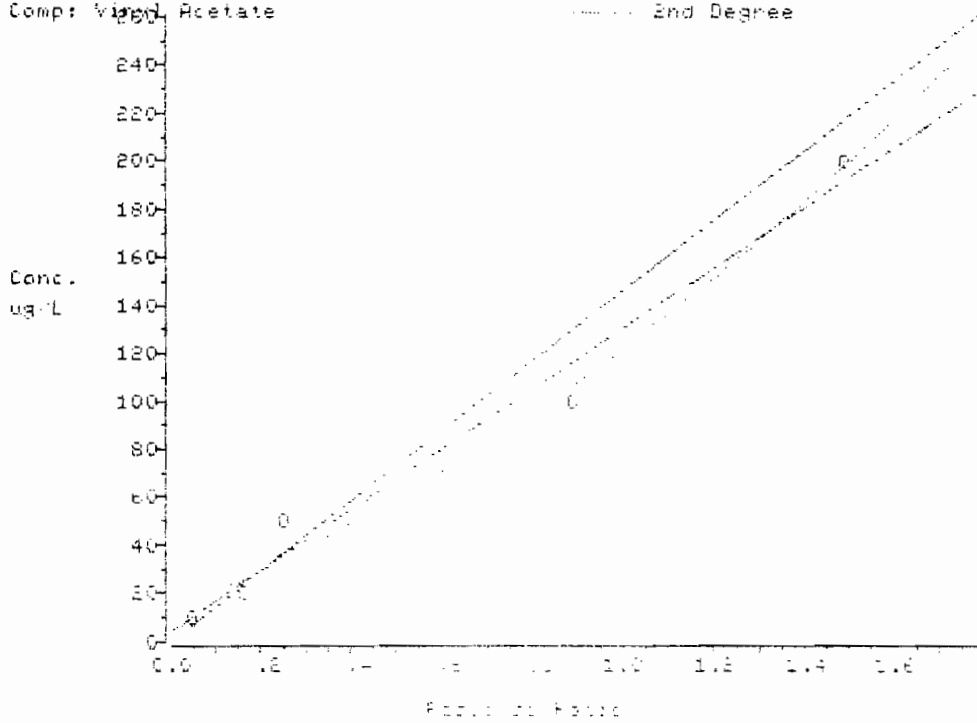
Average of 5 Rfs: .06777 (22.17 % Rsd) R: .0000000 Ry: .0000000
 1st Degree Equation: $y = .0082847 + 14.33655(x)$
 1st Degree Corr Coef: .9959641 *AT 3/12/99*
 2nd Degree Equation: $y = .1002021 + 11.62819(x) + 9.478960(x^2)$
 2nd Degree Corr Coef: .9969654

In the above equations:

Conc Std Area Std
 $y = \frac{\text{Conc Std}}{\text{Conc Istd}}$ $x = \frac{\text{Area Std}}{\text{Area Istd}}$

Istd Conc for all calibration points is: 50.00

Calib File: CA0593::A1 Comp # 40
 Calib Date: 990111 17:54
 Comp: Vinyl Acetate



Compound # 40 Calib File: CA0593::A1

Compound: Vinyl Acetate
 Istd: 1,4-Difluorobenzene

File: >A3E94 >A3E97 >A3E9D >A3E9E >A3E9F
 Conc: 10.00 20.00 50.00 100.00 100.00
 Rf: .23550 .40907 .25099 .44047 .27180

Average of 5 Rfs: .34210 (CV 40 % Red) Rx: .0000000 Ry: .0002000
 1st Degree Equation: $y = .0375481 + 2.521822(x)$
 1st Degree Corr Coef: .9913702
 2nd Degree Equation: $y = .0420039 + 1.568483(x) + .8278149(x^2)$
 2nd Degree Corr Coef: .9900000 AT 3/12/99

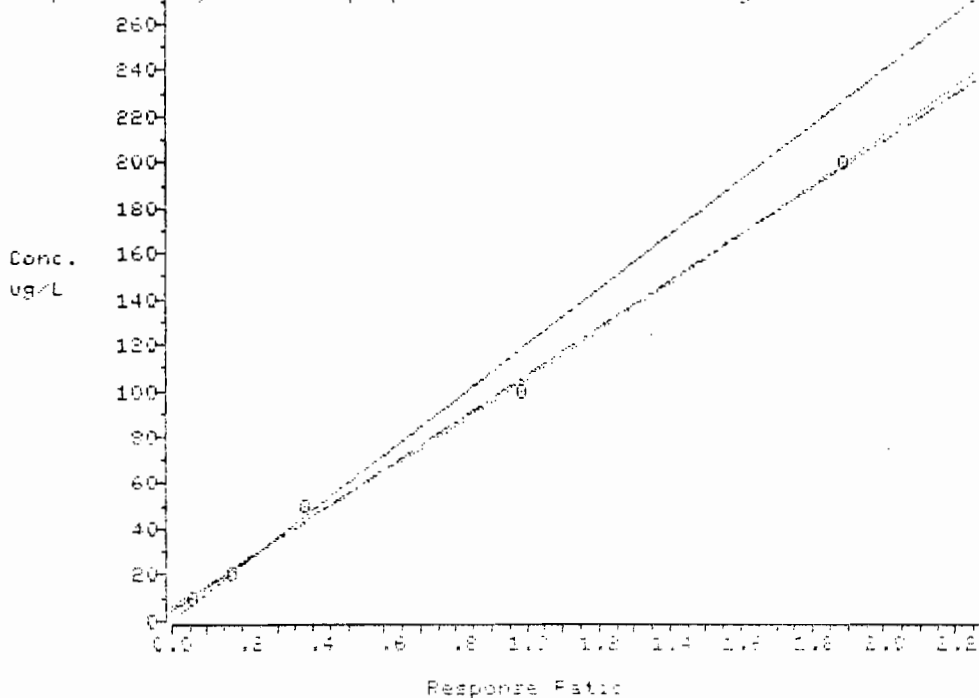
In the above equations:

$$y = \frac{\text{Conc Std}}{\text{Conc Istd}} \quad x = \frac{\text{Area Std}}{\text{Area Istd}}$$

Istd Conc for all calibration points is: 50.00

Calib File: CA3593::A1 Comp # 41
 Calib Date: 990311 17:54
 Comp: trans-1,3-Dichloropropene

— Average RF
 - - - 1st Degree
 2nd Degree



Compound # 4) Calib File: CA3593::A1

Compound: trans-1,3-Dichloropropene
 Istd: 1,4-Difluorobenzene

Files: >A3594 >A3597 >A3593 >A3590 >A3595
 Conc: 10.00 20.00 50.00 100.00 200.00
 Rf: .30191 .43551 .37702 .49240 .47150

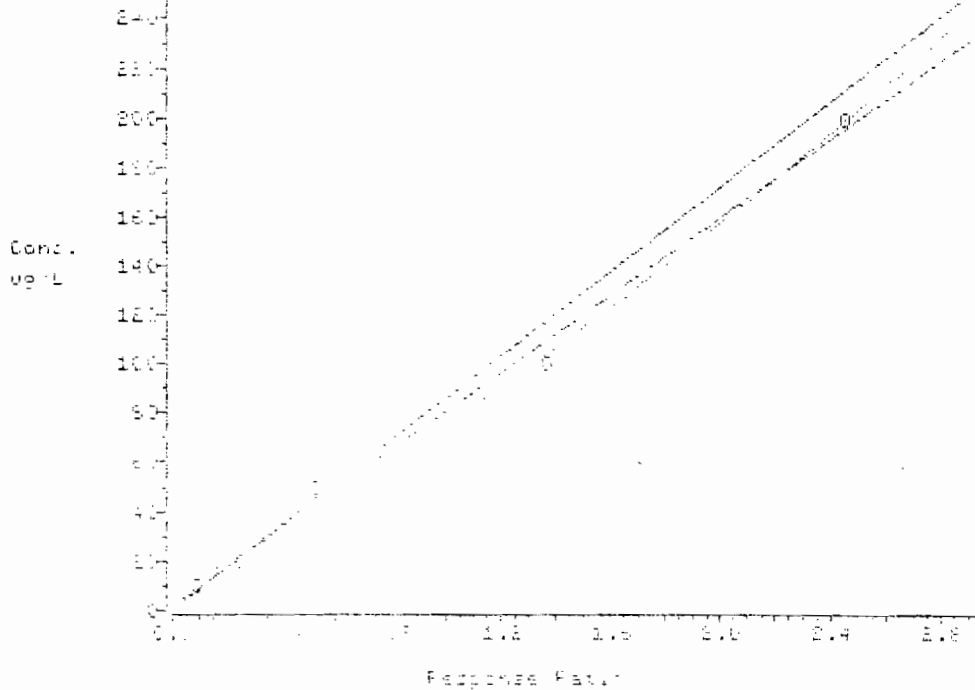
Average of 5 Rfs: .41575 (16.58 % Rsd) Rx: .0000000 Ry: .0000000
 1st Degree Equation: $y = .089584 + 2.052786(x)$
 1st Degree Corr Coef: .9982041 $3/112/1 \uparrow$
 2nd Degree Equation: $y = .1199427 + 1.911527(x) + .0722799(x^2)$
 2nd Degree Corr Coef: .9983420

In the above equations:

$$y = \frac{\text{Conc Std}}{\text{Conc Istd}} \quad x = \frac{\text{Area Std}}{\text{Area Istd}}$$

Istd Conc for all calibration points is: 50.00

Calib File: C03790:1A1 Comp # 46
 Calib Date: 05/11/75
 Comp: Benzofuran



Compound # 46 Calib File: C03790:1A1

Compound: Benzofuran
 ISTD: 1,4-DIBENZOPYRONE

Peak: 0000 0001 0002 0003 0004
 Conc: 50.00 100.00 150.00 200.00 250.00
 Area: 142111 283041 423111 563142 703107

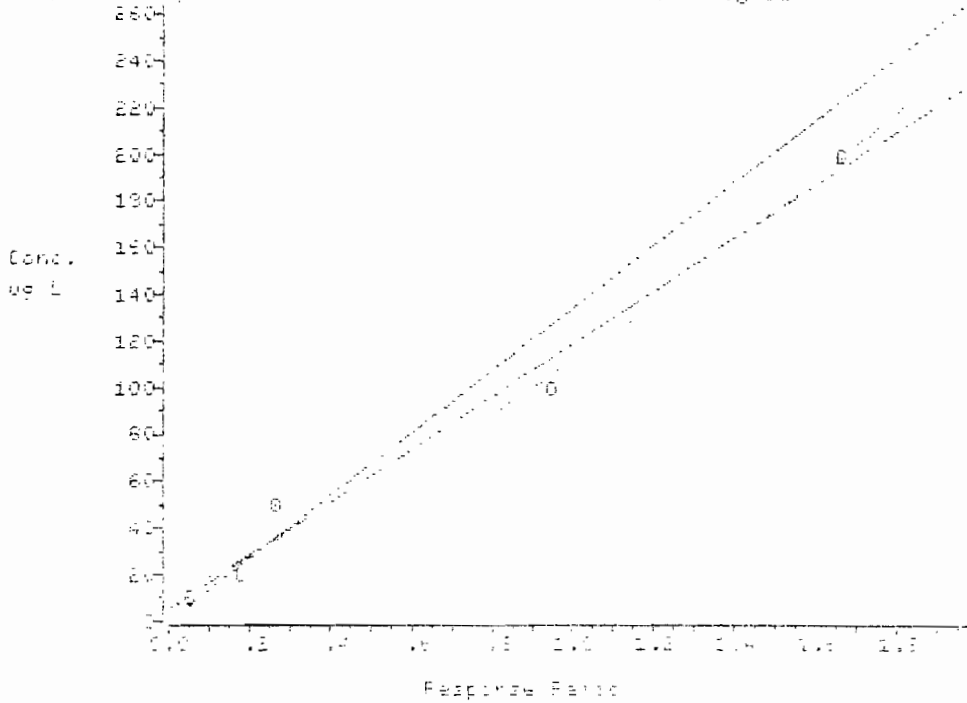
Average of 5 Data: 0.00004 (75.41 % Rad) R_x: 1.0000000 R_y: 1.0000000
 1st Degree Equation: y = 0.000004 + 1.579540(x)
 1st Degree Corr. Coef: 0.999904 3/12/75
 2nd Degree Equation: y = 0.000110 + 1.248420(x) + 0.005072(x²)
 2nd Degree Corr. Coef: 0.999922

In the above equations:

$$y = \frac{\text{Conc. Std}}{\text{Conc. Istd}} = \frac{\text{Area Std}}{\text{Area Istd}}$$

Istd Conc for all calibration points is: 50.00

Calib File: CA3593::R1 Comp # 50
 Calib Date: 890311 17:54
 Comp: 4-Methyl-2-Fentanone



Compound = 50 Calib File: CA3593::R1

Compound: 4-Methyl-2-Fentanone
 Istd: Chlorobenzene-d5

File:	A3594	A3597	A3553	A3551	A0990
Conc:	10.00	20.00	50.00	100.00	100.00
RF:	.25713	.44948	.28884	.47009	.41032

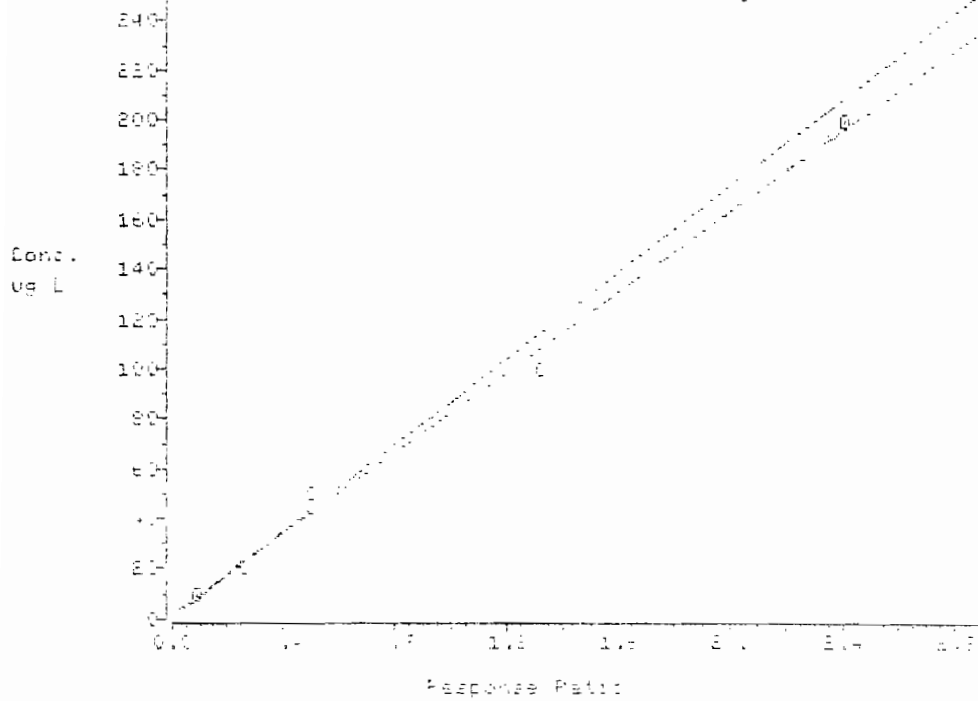
Average of 5 Rfs: .37164 47.65 % RSD R: .0000000 R: .0000000
 1st Degree Equation: $y = .1091934 + 2.072000(x)$
 1st Degree Corr Coef: .9907641 *AT 3/12/95*
 2nd Degree Equation: $y = .2206904 + 1.649859(x) + .3656130(x^2)$
 2nd Degree Corr Coef: .9927200

In the above equations:

$$y = \frac{\text{Conc Std}}{\text{Conc Istd}} \quad x = \frac{\text{Area Std}}{\text{Area Istd}}$$

Istd Conc for all calibration points is: 50.00

Calib File: CA3892::41 Comp # 55 ——— Average RF
 Calib Date: 890111 17:54 - - - - - 1st Degree
 Comp: 1,1,2,2-Tetrachloroethane - - - - - 2nd Degree



Compound 4 55 Calib File: CA3892::41

Compound: 1,1,2,2-Tetrachloroethane
 Istd: Chlorobenzene-d5

Files: 43894 40897 43898 40899 47895
 Conc: 10.00 20.00 50.00 100.00 200.00
 RF: .44942 .80157 .50068 .50001 .50114

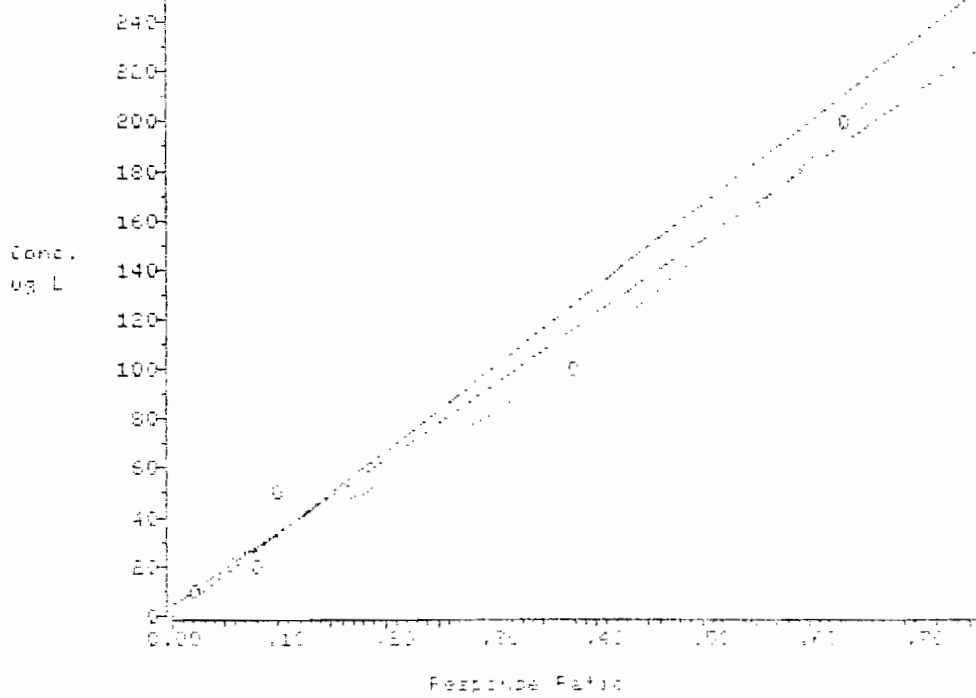
Average of 5 RFs: .57010 (1.83 % RSD) R1: .0000000 R2: .0000000
 1st Degree Equation: $y = .0084031x + 1.0180001$
 1st Degree Corr Coef: .9987367 $3/12/87$
 2nd Degree Equation: $y = .1131928x^2 + 1.3526131x + .1081024$
 2nd Degree Corr Coef: .9979458

In the above equations:

$$y = \frac{\text{Conc Std}}{\text{Conc Istd}} \quad x = \frac{\text{Area Std}}{\text{Area Istd}}$$

Istd Conc for all calibration points is: 50.00

Calib File: CA3592::A1 Comp # 56 — Average RF
 Calib Date: 990311 17:54 — 1st Degree
 Comp: 2-Hexanone — 2nd Degree



Compound # 56 Calib File: CA3592::A1

Compound: 2-Hexanone
 Istd: Chlorobenzene-d5

File: CA3594 CA3597 CA3598 CA3599 CA3600
 Conc: 10.00 20.00 50.00 100.00 200.00
 RF: .10303 .20029 .10017 .11907 .15507

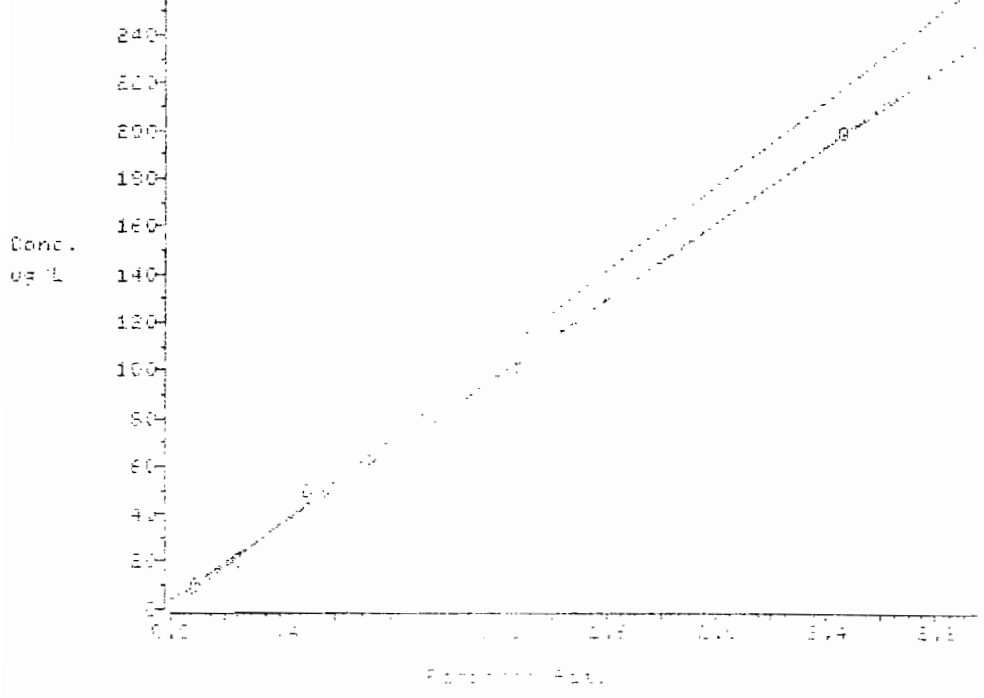
Average of 5 Rfs: .15019 31.23 % Red R: .000030 F: .000000
 1st Degree Equation: $y = .063546x + 5.927950$
 1st Degree Corr Coef: .9964164
 2nd Degree Equation: $y = .251009x + 3.51949(x^2) + 3.702546(x)^2$
 2nd Degree Corr Coef: .9904920 *AT 3/12/95*

In the above equations:

$$y = \frac{\text{Conc Std}}{\text{Conc Istd}} \quad x = \frac{\text{Area Std}}{\text{Area Istd}}$$

Istd Conc for all calibration points is: 50.00

Calib File: C93593:191 Comp # 57 — Average RF
 Calib Date: 980511 10:54 — 1st Degree
 Comp: 1,3-Dibromobenzene — 2nd Degree



Compound # 57 Calib Date: 980511 10:54

Compound: 1,3-Dibromobenzene
 Istd: Chlorobenzene-d1

Files: 142594 13557 11801 11111 10111
 Conc: 10.00 20.00 50.00 100.00 200.00
 RF: .47357 .62418 .49177 .31111 .21341

Average of 5 RFs: .50000000 5.75 % Rsd R: .99999999 R_y: .99999999
 1st Degree Equation: $y = .0010000x - .00000000$
 1st Degree Corr Coef: .99999999 *RF 3/12/5*
 2nd Degree Equation: $y = .0014889x + .0512802(x^2) + .0284142(x^2)$
 2nd Degree Corr Coef: .99999999

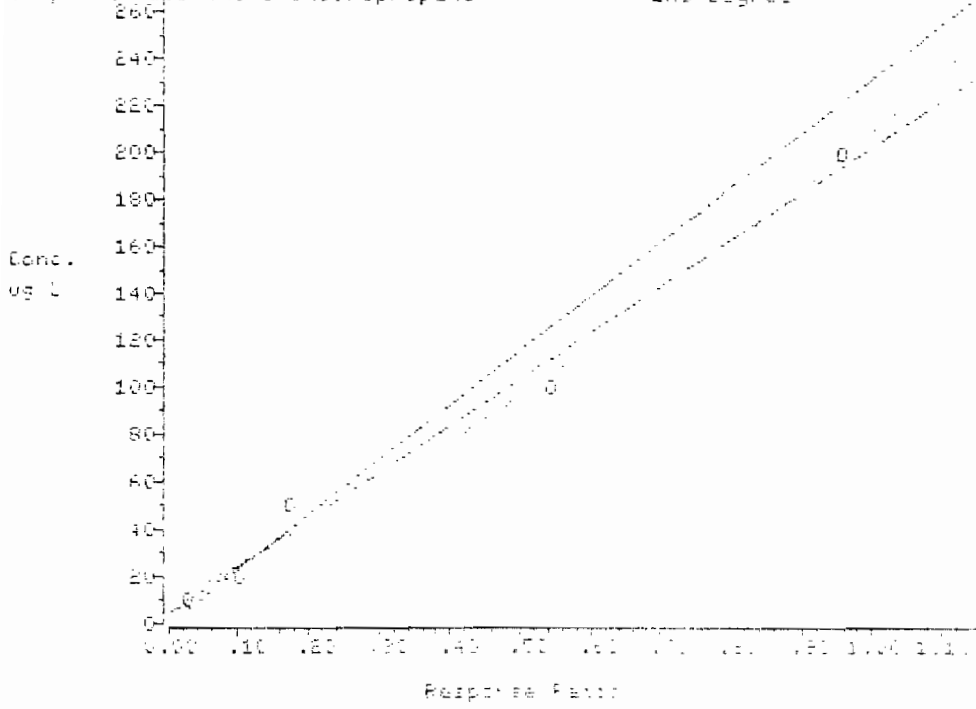
In the above equations:

$$y = \frac{\text{Conc Std}}{\text{Conc Istd}} \quad x = \frac{\text{Area Std}}{\text{Area Istd}}$$

Istd Conc for all calibration points is: 50.00

Calib File: 043593::A1 Comp # 85
 Calib Date: 990811 17:54
 Comp: 1,1-Dibromo-3-chloropropane

— Average RF
 - - - 1st Degree
 2nd Degree



Component # 85 Calib File: 043593::A1

Compound: 1,1-Dibromo-3-chloropropane
 Istd: 1,4-Dichlorobenzene-d4

File:	A3590	A3597	A3598	A3599	A3600
Conc:	10.00	20.00	50.00	100.00	200.00
RF:	.13781	.25884	.17338	.07132	.03807

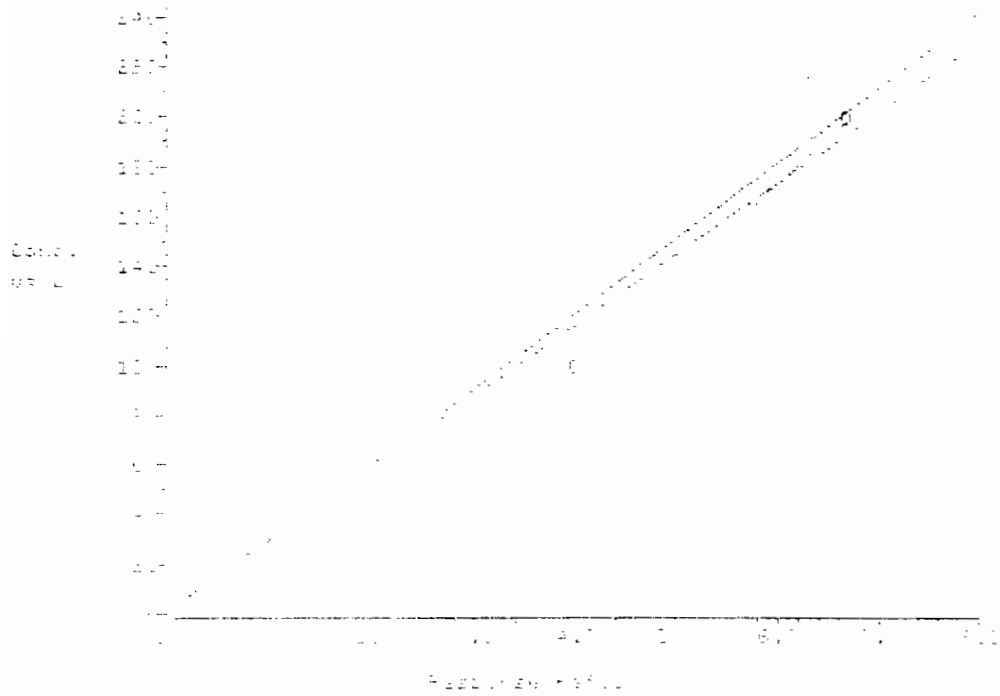
Average of 5 Rfs: .21575 (100.00 % Rsd) F=1.3000000 Rj: .0000000
 1st Degree Equation: $y = .0035075x + 3.977275$
 1st Degree Corr Coef: .9932202 *AT 3/12/99*
 2nd Degree Equation: $y = .1903884 + 2.581681x + 1.007770(x^2)$
 2nd Degree Corr Coef: .9948175

In the above equations:

$$y = \frac{\text{Conc Std}}{\text{Conc Istd}} \quad x = \frac{\text{Area Std}}{\text{Area Istd}}$$

Istd Conc for all calibration points is: 50.00

Call: Title: 0416111111 Comp # 89
 Curve water: 1111111111
 Area: 1111111111



In above equation: $Y = 2.400000000 X + 0.000000000$

1st degree: $Y = 2.400000000 X + 0.000000000$
 2nd degree: $Y = 2.400000000 X + 0.000000000$

1st degree: $Y = 2.400000000 X + 0.000000000$
 2nd degree: $Y = 2.400000000 X + 0.000000000$
 3rd degree: $Y = 2.400000000 X + 0.000000000$

1st degree: $Y = 2.400000000 X + 0.000000000$
 2nd degree: $Y = 2.400000000 X + 0.000000000$
 3rd degree: $Y = 2.400000000 X + 0.000000000$
 4th degree: $Y = 2.400000000 X + 0.000000000$
 5th degree: $Y = 2.400000000 X + 0.000000000$
 6th degree: $Y = 2.400000000 X + 0.000000000$
 7th degree: $Y = 2.400000000 X + 0.000000000$
 8th degree: $Y = 2.400000000 X + 0.000000000$
 9th degree: $Y = 2.400000000 X + 0.000000000$
 10th degree: $Y = 2.400000000 X + 0.000000000$

In the above equations:

Conc. Std Area Std
 w w
 Conc. 1std Area 1std

1std Conc. and all calibration points are: 50.00

QUANT REPORT

Operator ID: AT1446
 Output File: ^A3593::QT
 Data File: >A3593::A1
 Name: INST 59701, USTD050
 Misc: USTD050 ,S,5,5, 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990311 10:42
 Injected at: 990311 09:41
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990218 16:56

Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *Pentafluorobenzene	7.34	168.0	208605	50.00	ug/L	8
2) Chlorodifluoromethane	2.01	51.0	83092	35.23	ug/L	9
3) Dichlorodifluoromethane	2.02	85.0	84612	29.25	ug/L	9
4) Chloromethane	2.21	50.0	29341	29.58	ug/L	10
5) Vinyl Chloride	2.29	62.0	33670	31.52	ug/L	10
6) Bromomethane	2.67	94.0	40488	28.38	ug/L	8
7) Chloroethane	2.74	64.0	25450	38.19	ug/L	10
8) Trichlorofluoromethane	2.99	101.0	115804	41.63	ug/L	9
9) Freon-113	3.44	101.0	134578	44.40	ug/L	7
10) 1,1-Dichloroethene	3.63	61.0	80906	35.66	ug/L	7
11) Carbon Disulfide	4.20	76.0	96141	28.09	ug/L	10
12) Methylene Chloride	4.25	49.0	72857M	39.56	ug/L	
13) Acetone	5.32	43.0	96959	36.84	ug/L	10
14) t-Butyl alcohol	5.33	59.0	18642	96.94	ug/L	10
15) trans-1,2-Dichloroethene	4.68	96.0	57067	41.13	ug/L	9
16) Acrolein	4.52	56.0	5784M	242.87	ug/L	
17) Acrylonitrile	4.47	53.0	31648	170.58	ug/L	9
18) t-Butyl methyl ether	4.52	73.0	99395	37.20	ug/L	9
19) Diisopropyl ether	5.32	45.0	163584M	33.68	ug/L	8
20) 1,1-Dichloroethane	5.41	63.0	116065	42.13	ug/L	9
21) 2-Butanone	6.41	43.0	12080	33.58	ug/L	9
22) 2,2-Dichloropropane	6.55	77.0	91824	49.32	ug/L	9
23) cis-1,2-Dichloroethene	6.64	96.0	62568	43.90	ug/L	9
24) Bromochloromethane	7.30	128.0	43981	46.34	ug/L	8
25) Chloroform	6.98	83.0	135276	46.99	ug/L	8
26) Dibromofluoromethane	7.44	113.0	124448	48.27	ug/L	11
27) 1,1,1-Trichloroethane	7.78	97.0	114347	47.69	ug/L	9
28) 1,2-Dichloroethane-d4	8.45	65.0	62488	40.19	ug/L	8
32) *1,4-Difluorobenzene	9.28	114.0	185307	50.00	ug/L	1
33) Carbon Tetrachloride	8.25	117.0	112940	51.05	ug/L	1
34) 1,1-Dichloropropene	8.11	75.0	79584	42.60	ug/L	1
35) Benzene	8.60	78.0	144602M	43.06	ug/L	1
36) 1,2-Dichloroethane	8.63	62.0	72771M	44.67	ug/L	1
37) Trichloroethene	9.81	95.0	77592	44.56	ug/L	1
38) 1,2-Dichloropropane	10.19	63.0	67261	41.87	ug/L	1
39) Bromodichloromethane	10.60	83.0	128985	49.52	ug/L	1
40) Dibromomethane	10.66	174.0	81290	48.56	ug/L	1
41) cis-1,3-Dichloropropene	11.67	75.0	88707	43.99	ug/L	1
42) Vinyl Acetate	11.37	43.0	46510	30.24	ug/L	1
43) trans-1,3-Dichloropropene	12.63	75.0	69876M	42.90	ug/L	1

AT
3/12/99

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3/12/99

AT
3/12/99

QUANT REPORT

Operator ID: AT1446
 Output File: ^A3593::QT
 Data File: >A3593::A1
 Name: INST 59701, USTD050
 Misc: USTD050 ,S,5,5, 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990311 10:42
 Injected at: 990311 09:41
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990218 16:56

Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units	c
44) 1,1,2-Trichloroethane	12.88	97.0	61355	45.69	ug/L	9
45) 2-Chloroethylvinylether	15.13	63.0	22579	87.20	ug/L	10
46) 1,3-Dichloropropane	13.34	76.0	84169	43.28	ug/L	8
47) Dibromochloromethane	13.72	129.0	124418	48.57	ug/L	9
48) Bromoform	16.50	173.0	98094	45.42	ug/L	9
52) *Chlorobenzene-d5	14.78	117.0	169965M	50.00	ug/L	9
53) 4-Methyl-2-Pentanone	11.37	43.0	45150 ^{3/12}	26.42	ug/L	6
54) Toluene-d8	12.06	98.0	163475 ^{1/11}	40.03	ug/L	9
55) Toluene	12.20	92.0	104828	40.57	ug/L	9
56) Tetrachloroethene	13.36	164.0	93309	45.85	ug/L	9
57) Isopropylbenzene	16.59	105.0	187749	41.67	ug/L	7
58) 1,1,2,2-Tetrachloroethane	16.92	83.0	85433M	37.43	ug/L	8
59) 2-Hexanone	13.03	43.0	17025 ^{3/12}	24.18	ug/L	7
60) 1,2-Dibromoethane	14.08	107.0	84761 ^{1/11}	37.91	ug/L	9
61) Chlorobenzene	14.85	112.0	165011	44.14	ug/L	9
62) 1,1,1,2-Tetrachloroethane	14.96	131.0	93889	47.52	ug/L	9
63) Ethylbenzene	14.99	91.0	208697	43.08	ug/L	9
64) m+p-Xylenes	15.13	91.0	644340	131.90	ug/L	4
65) o-Xylene	15.91	91.0	195128	41.92	ug/L	9
66) Styrene	15.98	104.0	144638	42.71	ug/L	9
67) Bromofluorobenzene	17.01	95.0	163195	40.81	ug/L	9
68) p-ethyltoluene	17.54	105.0	503462	44.64	ug/L	9
69) Bromobenzene	17.30	156.0	104193	45.88	ug/L	9
70) p-diethylbenzene	18.25	119.0	241536M	43.89	ug/L	7
71) 1,2,3-Trichloropropane	19.85	75.0	55608 ^{3/12}	42.44	ug/L	2
72) n-Propylbenzene	17.32	91.0	309063 ^{1/11}	43.07	ug/L	5
73) 2-Chlorotoluene	17.58	91.0	239226	44.40	ug/L	8
74) 1,3,5-Trimethylbenzene	18.31	105.0	215133	43.36	ug/L	5
75) 4-Chlorotoluene	17.68	91.0	279292	43.26	ug/L	6
76) tert-Butylbenzene	18.25	119.0	242443	43.83	ug/L	5
77) 1,2,4-Trimethylbenzene	18.31	105.0	215133	43.34	ug/L	8
78) sec-Butylbenzene	19.68	105.0	176563M	44.79	ug/L	7
79) 1,2,4,5-tetramethylbenzene	18.91	119.0	265423 ^{3/12}	43.90	ug/L	7
80) p-Isopropyltoluene	21.06	119.0	256406 ^{1/11}	42.62	ug/L	7
84) *1,4-Dichlorobenzene-d4	19.14	152.0	129417	50.00	ug/L	9
85) 1,3-Dichlorobenzene	18.99	146.0	168841	43.78	ug/L	1
86) 1,4-Dichlorobenzene	19.19	146.0	183083	43.09	ug/L	1
87) n-Butylbenzene	19.67	92.0	158541	43.02	ug/L	1
88) 1,2-Dichlorobenzene	19.84	146.0	162090	41.89	ug/L	1
89) 1,2-Dibromo-3-chloropropane	21.30	157.0	22435	33.86	ug/L	1
90) 1,2,4-Trichlorobenzene	22.90	180.0	154530	43.57	ug/L	1

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QUANT REPORT

Page 3

Operator ID: AT1446
 Output File: ^A3593::QT
 Data File: >A3593::A1
 Name: INST 59701, USTD050
 Misc: USTD050 ,S,5,5, 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990311 10:42
 Injected at: 990311 09:41
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

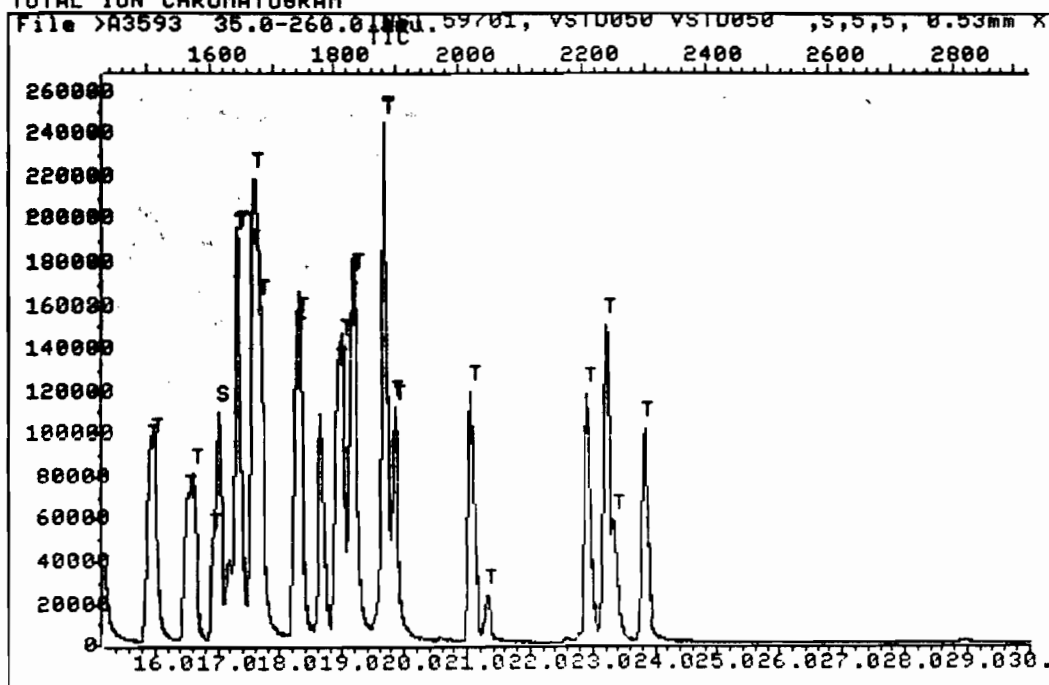
ID File: IDB6AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990218 16:56

Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units
91) Hexachlorobutadiene	23.21	225.0	148648	47.67	ug/L
92) Naphthalene	23.34	128.0	155314	31.13	ug/L
93) 1,2,3-Trichlorobenzene	23.82	180.0	130153	40.22	ug/L

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >A3593::A1
Name: INST 59701, USTD050
Misc: USTD050 ,S,S,S, 0.53mm X 75m DB-624

Quant Output File: ^A3593::QT
Instrument ID: INST "A"

Id File: ID86AS::RS
Title: Method 8260B IDFILE
Last Calibration: 990218 16:56

Last Qcal Time: <none>

Operator ID: AT1446
Quant Time : 990311 10:42
Injected at: 990311 09:41

Page 2 of 2

QUANT REPORT

Operator ID: AT1446 Quant Rev: 7 Quant Time: 990311 11:21
 Output File: A3594::QT Injected at: 990311 10:49
 Data File: A3594::A1 Dilution Factor: 1.00000
 Name: INST 59701, USTD010 Instrument ID: INST "A"
 Misc: USTD010, S,5,5, 0.53mm X 75m DB-624

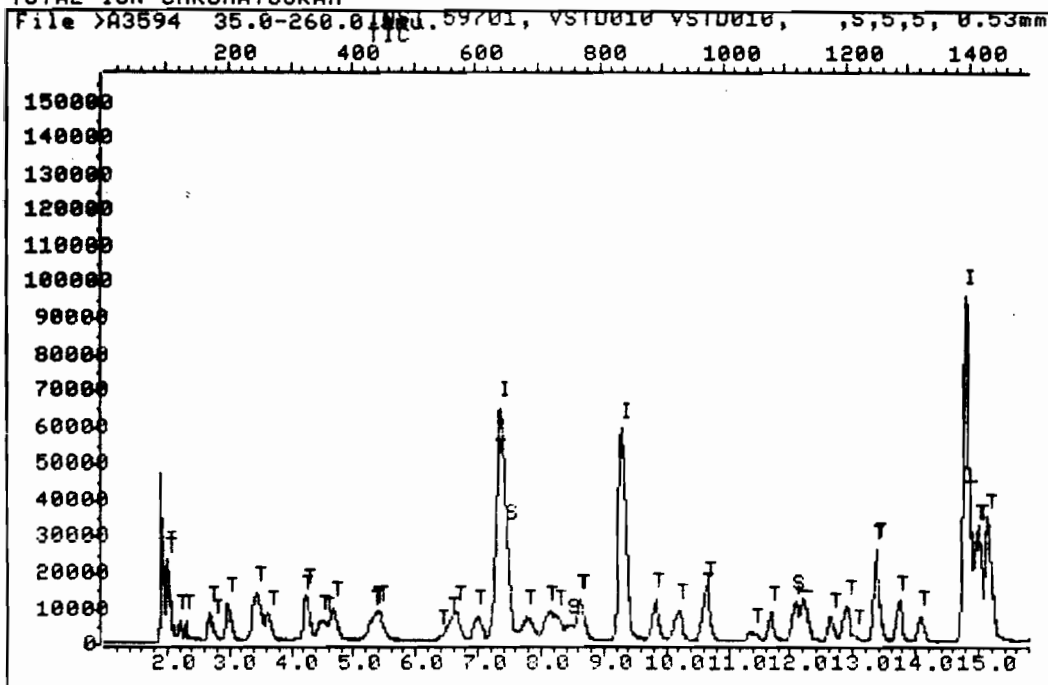
ID File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990218 16:56 Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units
1) *Pentafluorobenzene	7.34	168.0	220586	50.00	ug/L
2) Chlorodifluoromethane	2.00	51.0	16319	6.54	ug/L
3) Dichlorodifluoromethane	2.01	85.0	20660	6.76	ug/L
4) Chloromethane	2.19	50.0	7150M	6.82	ug/L
5) Vinyl Chloride	2.28	62.0	8054M	7.13	ug/L
6) Bromomethane	2.66	94.0	11245	0.00	ug/L
7) Chloroethane	2.73	64.0	6427M	9.12	ug/L
8) Trichlorofluoromethane	2.97	101.0	28904	9.83	ug/L
9) Freon-117	3.43	101.0	26238	8.19	ug/L
10) 1,1-Dichloroethane	3.63	61.0	15860	6.61	ug/L
11) Carbon Disulfide	4.20	76.0	18412	5.09	ug/L
12) Methylene Chloride	4.23	49.0	18800M	9.84	ug/L
13) Heptane	5.33	43.0	18664	6.71	ug/L
14) t-Butyl alcohol	5.32	59.0	3250M	15.98	ug/L
15) trans-1,2-Dichloroethene	4.67	96.0	10747	7.32	ug/L
16) Acrolein	4.48	56.0	907M	59.27	ug/L
17) Acrylonitrile	4.47	53.0	5725M	29.18	ug/L
18) t-Butyl methyl ether	4.53	73.0	21884	7.74	ug/L
19) Diisopropyl ether	5.30	45.0	32543	6.34	ug/L
20) 1,1-Dichloroethane	5.40	63.0	21938	7.53	ug/L
21) 2-Butanone	6.38	43.0	2173M	3.25	ug/L
22) 2,2-Dichloropropane	6.54	77.0	17852	9.07	ug/L
23) cis-1,2-Dichloroethene	6.64	96.0	11819	7.84	ug/L
24) Bromochloromethane	7.28	128.0	7758M	7.73	ug/L
25) Chloroform	6.98	83.0	25518	8.38	ug/L
26) Dibromofluoromethane	7.43	113.0	23778	8.72	ug/L
27) 1,1,1-Trichloroethane	7.76	97.0	21124	8.33	ug/L
28) 1,2-Dichloroethane-d4	8.46	65.0	12220M	7.43	ug/L
32) *1,4-Difluorobenzene	9.27	114.0	199595	50.00	ug/L
33) Carbon Tetrachloride	8.25	117.0	21648	9.08	ug/L
34) 1,1-Dichloropropene	8.10	75.0	16244	8.07	ug/L
35) Benzene	8.60	78.0	29199	8.07	ug/L
36) 1,2-Dichloroethane	8.62	62.0	14268	8.13	ug/L
37) Trichloroethene	9.81	95.0	15895	8.48	ug/L
38) 1,2-Dichloropropane	10.18	63.0	13250	7.66	ug/L
39) Bromodichloromethane	10.59	83.0	23693	8.45	ug/L
40) Dibromomethane	10.65	174.0	15910	8.82	ug/L
41) cis-1,3-Dichloropropene	11.67	75.0	15909	7.32	ug/L
42) Vinyl Acetate	11.41	43.0	9401	5.67	ug/L
43) trans-1,3-Dichloropropene	12.64	75.0	12052M	6.87	ug/L

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AT
3/12/99

TOTAL ION CHROMATOGRAM



Data File: >A3594::A1

Quant Output File: ^A3594::QT

Name: INST 59701, VSTD010

Instrument ID: INST "A"

Misc: VSTD010, ,S,5,5, 0.53mm X 75m DB-624

Id File: ID86AS::RS

Title: Method 8260B IDFILE

Last Calibration: 990218 16:56

Last Qcal Time: <none>

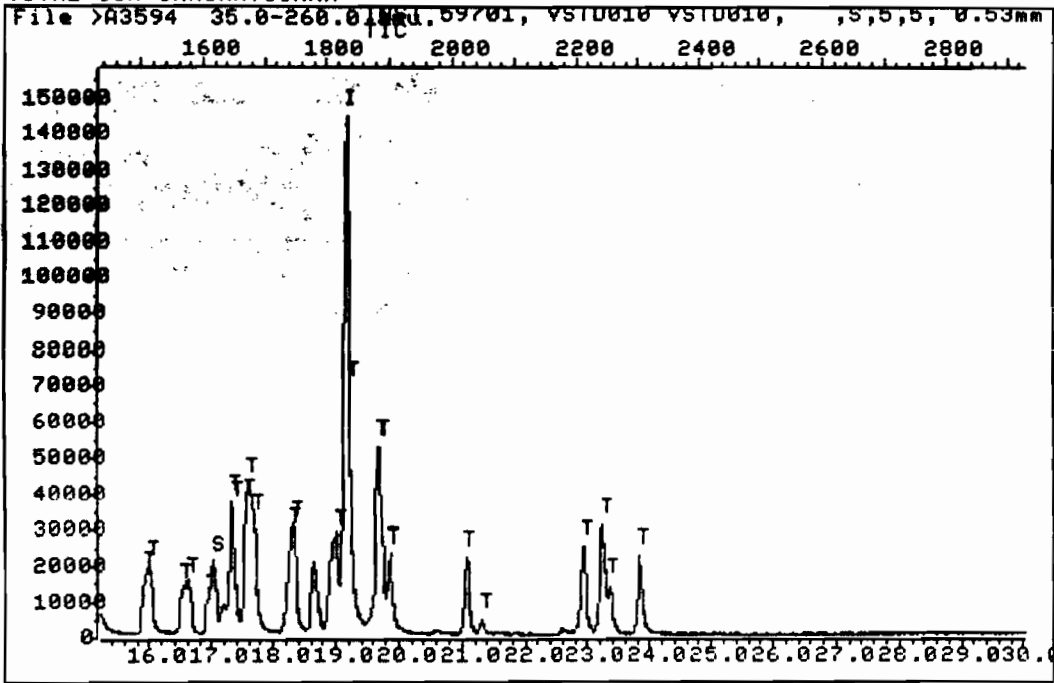
Operator ID: AT1446

Quant Time : 990311 11:21

Injected at: 990311 10:49

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TOTAL ION CHROMATOGRAM



Data File: >A3594::A1 Quant Output File: ^A3594::QT
Name: INST 59701, USTD010 Instrument ID: INST "A"
Misc: USTD010, ,S,5,5, 0.53mm X 75m DB-624

Id File: ID86AS::RS
Title: Method 8260B IDFILE
Last Calibration: 990218 16:56 Last Qcal Time: <none>

Operator ID: AT1446
Quant Time : 990311 11:21
Injected at: 990311 10:49

QUANT REPORT

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Operator ID: AT1446
 Output File: ^A3595::QT
 Data File: >A3595::A1
 Name: INST 59701, USTD200
 Misc: USTD200, S,5,5, 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990311 11:58
 Injected at: 990311 11:26
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: IDB6AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990218 16:56

Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units
1) *Pentafluorobenzene	7.34	168.0	202523	50.00	ug/L
2) Chlorodifluoromethane	1.99	51.0	373539	163.15	ug/L
3) Dichlorodifluoromethane	2.01	85.0	332338	118.36	ug/L
4) Chloromethane	2.19	50.0	119869	124.47	ug/L
5) Vinyl Chloride	2.27	62.0	135195	130.36	ug/L
6) Bromomethane	2.63	94.0	143264	132.30	ug/L
7) Chloroethane	2.71	64.0	97535	150.75	ug/L
8) Trichlorofluoromethane	2.95	101.0	445293	164.89	ug/L
9) Freon-113	3.41	101.0	575889	195.68	ug/L
10) 1,1-Dichloroethene	3.59	61.0	367987M	167.08	ug/L
11) Carbon Disulfide	4.18	76.0	439217	132.18	ug/L
12) Methylene Chloride	4.23	49.0	318090	177.04	ug/L
13) Acetone	5.31	43.0	485182	189.89	ug/L
14) t-Butyl alcohol	5.31	59.0	92070M	493.17	ug/L
15) trans-1,2-Dichloroethene	4.66	96.0	254071	188.60	ug/L
16) Acrolein	4.53	56.0	27717M	1091.30	ug/L
17) Acrylonitrile	4.46	53.0	177163	983.58	ug/L
18) t-Butyl methyl ether	4.51	73.0	496468	191.38	ug/L
19) Diisopropyl ether	5.29	45.0	833037	176.68	ug/L
20) 1,1-Dichloroethane	5.39	63.0	521923	195.12	ug/L
21) 2-Butanone	6.38	43.0	55321	169.46	ug/L
22) 2,2-Dichloropropane	6.53	77.0	406226	224.76	ug/L
23) cis-1,2-Dichloroethene	6.63	96.0	282967	204.50	ug/L
24) Bromochloromethane	7.28	128.0	193999	210.54	ug/L
25) Chloroform	6.97	83.0	596525	213.45	ug/L
26) Dibromofluoromethane	7.43	113.0	551050	220.16	ug/L
27) 1,1,1-Trichloroethane	7.76	97.0	504268	216.61	ug/L
28) 1,2-Dichloroethane-d4	8.43	65.0	292861	194.01	ug/L
32) *1,4-Difluorobenzene	9.27	114.0	192903	50.00	ug/L
33) Carbon Tetrachloride	8.23	117.0	494248	214.59	ug/L
34) 1,1-Dichloropropene	8.09	75.0	363766	187.03	ug/L
35) Benzene	8.59	78.0	664164	190.00	ug/L
36) 1,2-Dichloroethane	8.62	62.0	336682	198.51	ug/L
37) Trichloroethene	339 9.81	95.0	356422	196.63	ug/L
38) 1,2-Dichloropropane	10.16	63.0	316124M	189.05	ug/L
39) Bromodichloromethane	10.59	83.0	581247	214.38	ug/L
40) Dibromomethane	10.65	174.0	361126	207.25	ug/L
41) cis-1,3-Dichloropropene	11.67	75.0	439335	209.27	ug/L
42) Vinyl Acetate	11.39	43.0	286956	179.21	ug/L
43) trans-1,3-Dichloropropene	12.63	75.0	364126M	214.77	ug/L

QUANT REPORT

Operator ID: AT1446 Quant Rev: 7 Quant Time: 990311 11:58
 Output File: ^A3595::QT Injected at: 990311 11:26
 Data File: >A3595::A1 Dilution Factor: 1.00000
 Name: INST 59701, USTD200 Instrument ID: INST "A"
 Misc: USTD200, S,5,5, 0.53mm X 75m DB-624

ID File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990218 16:56 Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units	q
44) 1,1,2-Trichloroethane	12.87	97.0	290001M	207.47	ug/L	
45) 2-Chloroethylvinylether	15.15	63.0	102829	381.50	ug/L	10
46) 1,3-Dichloropropane	13.33	76.0	394132	194.68	ug/L	8
47) Dibromochloromethane	13.72	129.0	586209	219.85	ug/L	9
48) Bromoform	16.50	173.0	473049	210.41	ug/L	9
52) *Chlorobenzene-d5	14.78	117.0	171732M	50.00	ug/L	8
53) 4-Methyl-2-Pentanone	11.39	43.0	285299	165.24	ug/L	7
54) Toluene-d8	12.06	98.0	762453	184.79	ug/L	9
55) Toluene	12.20	92.0	479920	183.84	ug/L	9
56) Tetrachloroethene	13.36	164.0	376529M	183.11	ug/L	
57) Isopropylbenzene	16.59	105.0	846163	185.88	ug/L	7
58) 1,1,2,2-Tetrachloroethane	16.92	83.0	413128	179.13	ug/L	8
59) 2-Hexanone	13.02	43.0	108803	152.94	ug/L	7
60) 1,2-Dibromoethane	14.07	107.0	422775	187.16	ug/L	9
61) Chlorobenzene	14.85	112.0	718380	190.19	ug/L	9
62) 1,1,1,2-Tetrachloroethane	14.96	131.0	384106M	192.40	ug/L	
63) Ethylbenzene	15.00	91.0	897881	183.45	ug/L	9
64) m+p-Xylenes	15.15	91.0	2727287	552.54	ug/L	4
65) o-Xylene	15.90	91.0	869329	184.83	ug/L	9
66) Styrene	15.98	104.0	652516	190.71	ug/L	9
67) Bromofluorobenzene	17.01	95.0	729299	180.48	ug/L	9
68) p-ethyltoluene	17.54	105.0	2039870	179.01	ug/L	9
69) Bromobenzene	17.30	156.0	421304	183.61	ug/L	9
70) p-diethylbenzene	18.25	119.0	1012189M	182.05	ug/L	
71) 1,2,3-Trichloropropane	19.84	75.0	235535	177.90	ug/L	6
72) n-Propylbenzene	17.33	91.0	1311355	180.88	ug/L	9
73) 2-Chlorotoluene	17.59	91.0	960001	180.83	ug/L	8
74) 1,3,5-Trimethylbenzene	18.31	105.0	905688	180.68	ug/L	9
75) 4-Chlorotoluene	17.69	91.0	1171238	179.54	ug/L	8
76) tert-Butylbenzene	18.25	119.0	1009373	180.62	ug/L	9
77) 1,2,4-Trimethylbenzene	18.31	105.0	905688	180.57	ug/L	8
78) sec-Butylbenzene	19.69	105.0	711766M	178.69	ug/L	
79) 1,2,4,5-tetramethylbenzene	18.91	119.0	1139014	186.45	ug/L	7
80) p-Isopropyltoluene	21.06	119.0	1204720	198.20	ug/L	7
84) *1,4-Dichlorobenzene-d4	19.14	152.0	128466	50.00	ug/L	5
85) 1,3-Dichlorobenzene	18.99	146.0	686393	179.31	ug/L	8
86) 1,4-Dichlorobenzene	19.19	146.0	769220	182.37	ug/L	8
87) n-Butylbenzene	19.67	92.0	636879	174.10	ug/L	8
88) 1,2-Dichlorobenzene	19.84	146.0	705296	183.63	ug/L	8
89) 1,2-Dibromo-3-chloropropane	21.30	157.0	122984	186.97	ug/L	8
90) 1,2,4-Trichlorobenzene	22.91	180.0	706313	200.63	ug/L	8

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QUANT REPORT

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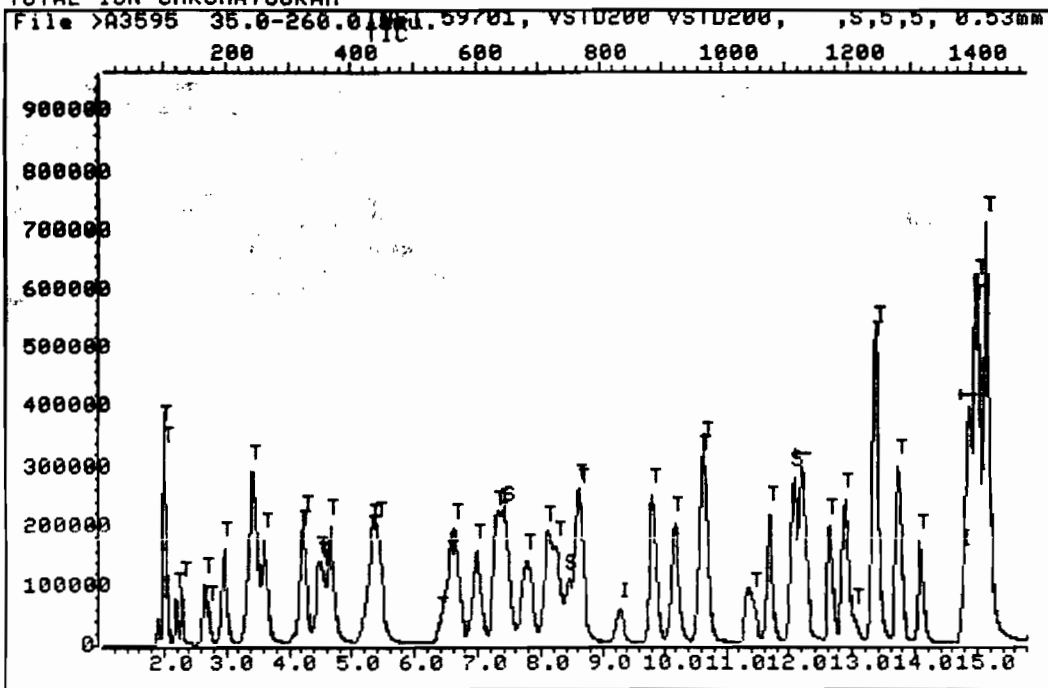
Operator ID: AT1446 Quant Rev: 7 Quant Time: 990311 11:58
 Output File: ^A3595::QT Injected at: 990311 11:26
 Data File: >A3595::A1 Dilution Factor: 1.00000
 Name: INST 59701, USTD200 Instrument ID: INST "A"
 Misc: USTD200, ,S,5,5, 0.53mm X 75m DB-624

ID File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990218 16:56 Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	c
91)	Hexachlorobutadiene	23.21	225.0	593398	191.70	ug/L	9
92)	Naphthalene	23.35	128.0	858067	195.71	ug/L	10
93)	1,2,3-Trichlorobenzene	23.81	180.0	616838	192.05	ug/L	9

* Compound is ISTD

TOTAL ION CHROMATOGRAM



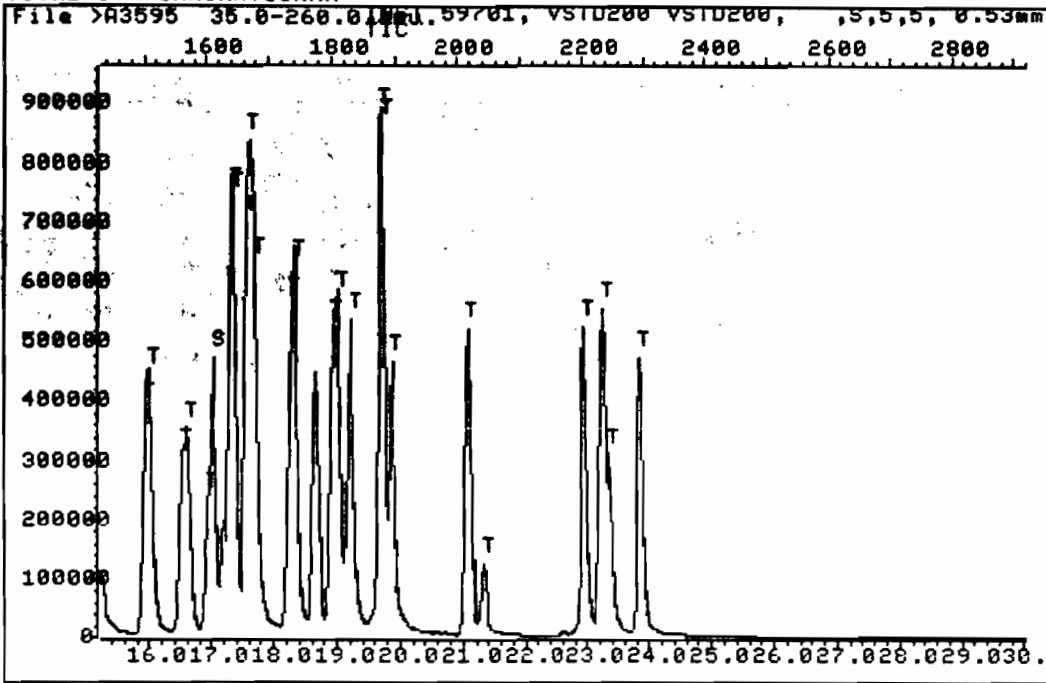
Data File: >A3595::A1 Quant Output File: ^A3595::QT
Name: INST 59701, USTD200 Instrument ID: INST "A"
Misc: USTD200, ,S,5,5, 0.53mm X 75m DB-624

Id File: ID86AS::RS
Title: Method 8260B IDFILE
Last Calibration: 990218 16:56 Last Qcal Time: <none>

Operator ID: AT1446
Quant Time : 990311 11:58
Injected at: 990311 11:26

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TOTAL ION CHROMATOGRAM



Data File: >A3595::A1
Name: INST 59701, USTD200
Misc: USTD200, S,5,5, 0.53mm X 75m DB-624

Quant Output File: ^A3595::QT
Instrument ID: INST "A"

Id File: ID86AS::RS
Title: Method 8260B IDFILE
Last Calibration: 990218 16:56

Last Qcal Time: <none>

Operator ID: AT1446
Quant Time : 990311 11:58
Injected at: 990311 11:26

QUANT REPORT

Operator ID: AT1446 Quant Rev: 7 Quant Time: 990311 12:35
 Output File: ^A3596::QT Injected at: 990311 12:03
 Data File: >A3596::A1 Dilution Factor: 1.00000
 Name: INST 59701, USTD100 Instrument ID: INST "A"
 Misc: USTD100, S,5,5, 0.53mm X 75m DB-624

ID File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990218 16:56 Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units	c
1) *Pentafluorobenzene	7.32	168.0	207091	50.00	ug/L	9
2) Chlorodifluoromethane	1.99	51.0	186221	79.54	ug/L	9
3) Dichlorodifluoromethane	2.00	85.0	159337	55.49	ug/L	9
4) Chloromethane	2.18	50.0	58585	59.49	ug/L	10
5) Vinyl Chloride	2.27	62.0	66313	62.53	ug/L	10
6) Bromomethane	2.63	94.0	80882M	68.16	ug/L	E
7) Chloroethane	2.71	64.0	479133	72.42	ug/L	10
8) Trichlorofluoromethane	2.95	101.0	214642	77.73	ug/L	9
9) Freon-113	3.41	101.0	280653	93.26	ug/L	7
10) 1,1-Dichloroethene	3.59	61.0	186186	82.67	ug/L	E
11) Carbon Disulfide	4.18	76.0	213409	62.81	ug/L	10
12) Methylene Chloride	4.22	49.0	163141	88.92	ug/L	7
13) Acetone	5.29	43.0	255268	97.70	ug/L	10
14) t-Butyl alcohol	5.28	59.0	21576	113.02	ug/L	10
15) trans-1,2-Dichloroethene	4.65	96.0	125693	91.25	ug/L	E
16) Acrolein	4.54	56.0	13298M	526.53	ug/L	
17) Acrylonitrile	4.45	53.0	97898M	531.53	ug/L	9
18) t-Butyl methyl ether	4.50	73.0	269520	101.60	ug/L	9
19) Diisopropyl ether	5.30	45.0	444048M	92.10	ug/L	
20) 1,1-Dichloroethane	5.38	63.0	256414	93.75	ug/L	9
21) 2-Butanone	6.40	43.0	31308	92.46	ug/L	9
22) 2,2-Dichloropropane	6.54	77.0	194314	105.14	ug/L	9
23) cis-1,2-Dichloroethene	6.63	96.0	142854	100.96	ug/L	9
24) Bromochloromethane	7.27	128.0	96953	102.90	ug/L	7
25) Chloroform	6.98	83.0	291619	102.04	ug/L	9
26) Dibromofluoromethane	7.41	113.0	270268	105.60	ug/L	14
27) 1,1,1-Trichloroethane	7.76	97.0	240397M	100.99	ug/L	
28) 1,2-Dichloroethane-d4	8.43	65.0	146736M	95.06	ug/L	
32) *1,4-Difluorobenzene	9.26	114.0	190441	50.00	ug/L	
33) Carbon Tetrachloride	8.24	117.0	240102	105.60	ug/L	
34) 1,1-Dichloropropene	8.09	75.0	184211	95.94	ug/L	
35) Benzene	8.59	78.0	335719	97.28	ug/L	
36) 1,2-Dichloroethane	8.62	62.0	172487	103.01	ug/L	
37) Trichloroethene	9.80	95.0	182734	102.11	ug/L	
38) 1,2-Dichloropropane	10.16	63.0	164064	99.38	ug/L	
39) Bromodichloromethane	10.59	83.0	291239	108.81	ug/L	
40) Dibromomethane	10.64	174.0	190798	110.91	ug/L	
41) cis-1,3-Dichloropropene	11.67	75.0	223517	107.84	ug/L	
42) Vinyl Acetate	11.38	43.0	168895	106.84	ug/L	1
43) trans-1,3-Dichloropropene	12.62	75.0	1187546M	112.05	ug/L	

3/12/97

QUANT REPORT

Operator ID: AT1446 Quant Rev: 7 Quant Time: 990311 12:35
 Output File: ^A3596::QT Injected at: 990311 12:03
 Data File: >A3596::A1 Dilution Factor: 1.00000
 Name: INST 59701, USTD100 Instrument ID: INST "A"
 Misc: USTD100, ,S,5,5, 0.53mm X 75m DB-624

ID File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990218 16:56 Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units
44) 1,1,2-Trichloroethane	12.87	97.0	154057	111.64	ug/L
45) 2-Chloroethylvinylether	15.14	63.0	48992	184.11	ug/L
46) 1,3-Dichloropropane	13.34	76.0	213972	107.06	ug/L
47) Dibromochloromethane	13.72	129.0	302223	114.81	ug/L
48) Bromoform	16.51	173.0	260952	117.57	ug/L
52) *Chlorobenzene-d5	14.78	117.0	177724	50.00	ug/L
53) 4-Methyl-2-Pentanone	11.38	43.0	168158	94.11	ug/L
54) Toluene-d8	12.06	98.0	386002	90.40	ug/L
55) Toluene	12.20	92.0	245884	91.01	ug/L
56) Tetrachloroethene	13.37	164.0	195229M	91.74	ug/L
57) Isopropylbenzene	16.60	105.0	440891 ^{3/12}	93.59	ug/L
58) 1,1,2,2-Tetrachloroethane	16.92	83.0	234602	98.29	ug/L
59) 2-Hexanone	13.03	43.0	67180	91.25	ug/L
60) 1,2-Dibromoethane	14.07	107.0	226734	96.99	ug/L
61) Chlorobenzene	14.85	112.0	371481	95.03	ug/L
62) 1,1,1,2-Tetrachloroethane	14.97	131.0	203814	98.65	ug/L
63) Ethylbenzene	14.99	91.0	475539	93.88	ug/L
64) m+p-Xylenes	15.14	91.0	1448683	283.61	ug/L
65) o-Xylene	15.90	91.0	451907	92.84	ug/L
66) Styrene	15.98	104.0	340063	96.04	ug/L
67) Bromofluorobenzene	17.00	95.0	392934	93.96	ug/L
68) p-ethyltoluene	17.54	105.0	1111803	94.27	ug/L
69) Bromobenzene	17.29	156.0	232471	97.90	ug/L
70) p-diethylbenzene	18.25	119.0	543896M	94.53	ug/L
71) 1,2,3-Trichloropropane	19.85	75.0	123553 ^{3/12}	90.17	ug/L
72) n-Propylbenzene	17.32	91.0	696699	92.86	ug/L
73) 2-Chlorotoluene	17.58	91.0	525391	94.92	ug/L
74) 1,3,5-Trimethylbenzene	18.31	105.0	485728	93.64	ug/L
75) 4-Chlorotoluene	17.68	91.0	650222	96.31	ug/L
76) tert-Butylbenzene	18.25	119.0	544963	94.23	ug/L
77) 1,2,4-Trimethylbenzene	18.31	105.0	485728	93.58	ug/L
78) sec-Butylbenzene	19.69	105.0	377743M	91.63	ug/L
79) 1,2,4,5-tetramethylbenzene	18.92	119.0	603368	95.44	ug/L
80) p-Isopropyltoluene	21.06	119.0	610164M	97.00	ug/L
84) *1,4-Dichlorobenzene-d4	19.14	152.0	129794 ^{3/12}	50.00	ug/L
85) 1,3-Dichlorobenzene	19.00	146.0	367826	95.10	ug/L
86) 1,4-Dichlorobenzene	19.20	146.0	402798	94.52	ug/L
87) n-Butylbenzene	19.67	92.0	341904	92.51	ug/L
88) 1,2-Dichlorobenzene	19.85	146.0	378626	97.57	ug/L
89) 1,2-Dibromo-3-chloropropane	21.30	157.0	70431	105.98	ug/L
90) 1,2,4-Trichlorobenzene	22.91	180.0	378218	106.33	ug/L

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QUANT REPORT

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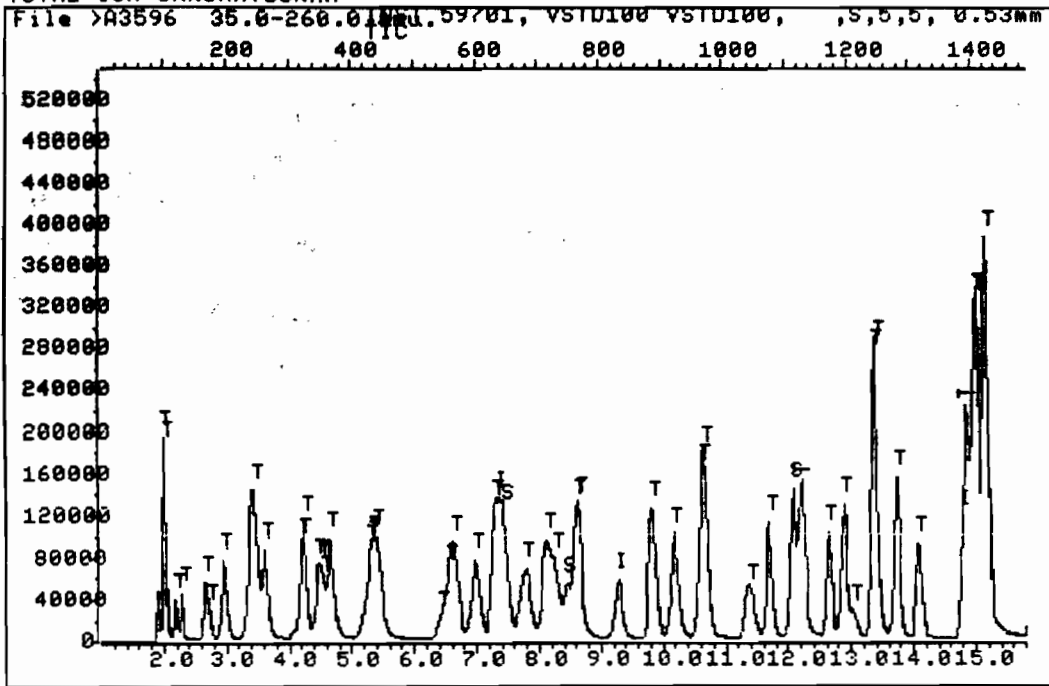
Operator ID: AT1446 Quant Rev: 7 Quant Time: 990311 12:35
 Output File: ^A3596::QT Injected at: 990311 12:03
 Data File: >A3596::A1 Dilution Factor: 1.00000
 Name: INST 59701, USTD100 Instrument ID: INST "A"
 Misc: USTD100, ,S,5,5, 0.53mm X 75m DB-624

ID File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990218 16:56 Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units	q
91) Hexachlorobutadiene	23.22	225.0	328083	104.90	ug/L	9
92) Naphthalene	23.35	128.0	516781	114.67	ug/L	10
93) 1,2,3-Trichlorobenzene	23.82	180.0	337087	103.88	ug/L	9

* Compound is ISTD

TOTAL ION CHROMATOGRAM

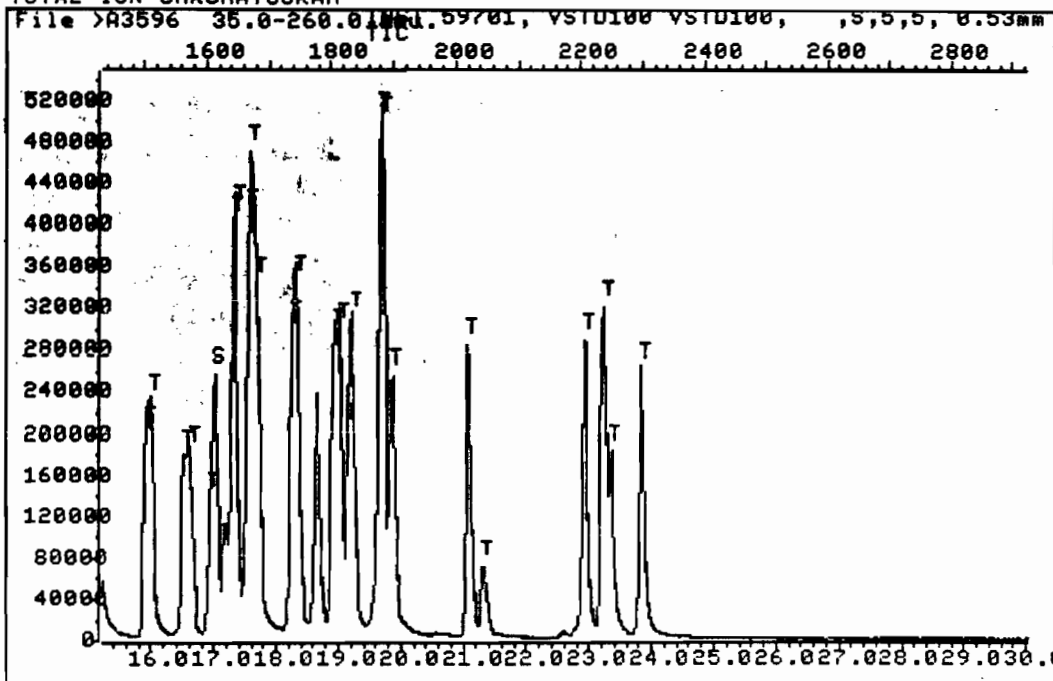


Data File: >A3596::A1 Quant Output File: ^A3596::QT
Name: INST 59701, VSTD100 Instrument ID: INST "A"
Misc: USTD100, ,S,5,5, 0.53mm X 75m DB-624

Id File: ID86AS::RS
Title: Method 8260B IDFILE
Last Calibration: 990218 16:56 Last Qcal Time: <none>

Operator ID: AT1446
Quant Time : 990311 12:35
Injected at: 990311 12:03

TOTAL ION CHROMATOGRAM



Data File: >A3596::A1 Quant Output File: ^A3596::QT
Name: INST 59701, USTD100 Instrument ID: INST "A"
Misc: USTD100, ,S,5,5, 0.53mm X 75m DB-624

Id File: ID86AS::RS
Title: Method 8260B IDFILE
Last Calibration: 990218 16:56 Last Qcal Time: <none>

Operator ID: AT1446
Quant Time : 990311 12:35
Injected at: 990311 12:03

QUANT REPORT

Operator ID: AT1446 Quant Rev: 7 Quant Time: 990311 13:11
 Output File: ^A3597::QT Injected at: 990311 12:40
 Data File: >A3597::A1 Dilution Factor: 1.00000
 Name: INST 59701, USTD020 Instrument ID: INST "A"
 Misc: USTD020, ,S,5,5, 0.53mm X 75m DB-624

ID File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990218 16:56 Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *Pentafluorobenzene	7.31	168.0	211867	50.00	ug/L	9
2) Chlorodifluoromethane	1.97	51.0	35984	15.02	ug/L	9
3) Dichlorodifluoromethane	1.98	85.0	34531	11.76	ug/L	9
4) Chloromethane	2.17	50.0	12993	12.90	ug/L	10
5) Vinyl Chloride	2.24	62.0	14088	12.99	ug/L	10
6) Bromomethane	2.62	94.0	24378	12.38	ug/L	8
7) Chloroethane	2.69	64.0	10550	15.59	ug/L	10
8) Trichlorofluoromethane	2.93	101.0	46818	16.57	ug/L	8
9) Freon-113	3.37	101.0	54744	17.78	ug/L	7
10) 1,1-Dichloroethene	3.57	61.0	35537	15.42	ug/L	7
11) Carbon Disulfide	4.16	76.0	40262	11.58	ug/L	10
12) Methylene Chloride	4.20	49.0	35445M	19.08	ug/L	
13) Acetone	5.29	43.0	48660	18.20	ug/L	10
14) t-Butyl alcohol	5.29	59.0	8777M	44.94	ug/L	
15) trans-1,2-Dichloroethene	4.64	96.0	23612	16.75	ug/L	8
16) Acrolein	4.49	56.0	2670M	125.28	ug/L	
17) Acrylonitrile	4.42	53.0	18916	100.39	ug/L	9
18) t-Butyl methyl ether	4.47	73.0	55965	20.62	ug/L	9
19) Diisopropyl ether	5.27	45.0	83668	16.96	ug/L	7
20) 1,1-Dichloroethane	5.37	63.0	49049	17.53	ug/L	9
21) 2-Butanone	6.37	43.0	7442M	19.20	ug/L	
22) 2,2-Dichloropropane	6.51	77.0	35438M	18.74	ug/L	9
23) cis-1,2-Dichloroethene	6.61	96.0	26563	18.35	ug/L	8
24) Bromochloromethane	7.24	128.0	18525	19.22	ug/L	5
25) Chloroform	6.95	83.0	55105	18.85	ug/L	9
26) Dibromofluoromethane	7.40	113.0	51360	19.61	ug/L	10
27) 1,1,1-Trichloroethane	7.76	97.0	45410	18.65	ug/L	7
28) 1,2-Dichloroethane-d4	8.41	65.0	28885	18.29	ug/L	9
32) *1,4-Difluorobenzene	9.26	114.0	197106	50.00	ug/L	9
33) Carbon Tetrachloride	8.24	117.0	45767	19.45	ug/L	9
34) 1,1-Dichloropropene	8.07	75.0	37118	18.68	ug/L	8
35) Benzene	8.59	78.0	65314	18.29	ug/L	9
36) 1,2-Dichloroethane	8.60	62.0	33847	19.53	ug/L	9
37) Trichloroethene	9.80	95.0	36059	19.47	ug/L	9
38) 1,2-Dichloropropane	10.16	63.0	32368	18.94	ug/L	9
39) Bromodichloromethane	10.57	83.0	55530	20.04	ug/L	9
40) Dibromomethane	10.64	174.0	38190	21.45	ug/L	6
41) cis-1,3-Dichloropropene	11.66	75.0	41228	19.22	ug/L	9
42) Vinyl Acetate	11.37	43.0	32252	19.71	ug/L	10
43) trans-1,3-Dichloropropene	12.61	75.0	34337M	19.82	ug/L	

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AT
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QUANT REPORT

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Operator ID: AT1446 Quant Rev: 7 Quant Time: 990311 13:11
 Output File: ^A3597::QT Injected at: 990311 12:40
 Data File: >A3597::A1 Dilution Factor: 1.00000
 Name: INST 59701, USTD020 Instrument ID: INST "A"
 Misc: USTD020, ,S,5,5, 0.53mm X 75m DB-624

ID File: ID86AS::RS

Title: Method 8260B IDFILE

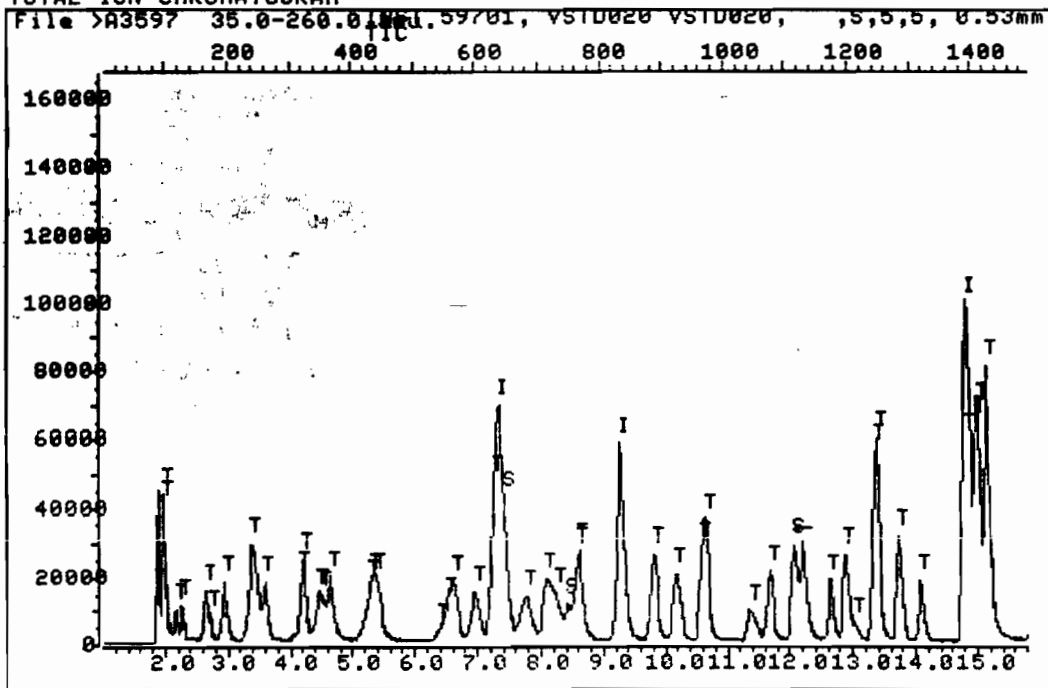
Last Calibration: 990218 16:56

Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units
91)	Hexachlorobutadiene	23.21	225.0	65707	19.77	ug/L
92)	Naphthalene	23.34	128.0	115608	20.26	ug/L
93)	1,2,3-Trichlorobenzene	23.82	180.0	70711	20.51	ug/L

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >A3597::A1

Quant Output File: ^A3597::QT

Name: INST 59701, USTD020

Instrument ID: INST "A"

Misc: USTD020, ,S,5,5, 0.53mm X 75m DB-624

Id File: ID86AS::RS

Title: Method 8260B IDFILE

Last Calibration: 990218 16:56

Last Qcal Time: <none>

Operator ID: AT1446

Quant Time : 990311 13:11

Injected at: 990311 12:40

Page 1 of 2

ANALab, Inc. - Randolph Facility
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APRIL 1, 1999

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

GC/MS CONTINUING CALIBRATION SUMMARY
VOLATILE ORGANIC COMPOUNDS

INSTRUMENT ID: 59701
BATCH #: QV5854

THIS CONTINUING CALIBRATION APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS

LAB SAMPLE ID	DATA FILE	ANALYSIS DATE	ANALYSIS TIME
VST050	>A3680	03/17/99	13:45
BLANK	>A3681	03/17/99	14:46
QA SAMPLE	>A3682	3/17/99	15:40
BLANK MS	>A3683	3/17/99	16:18
306333MS	>A3685	3/17/99	17:32
306333MSD	>A3686	3/17/99	18:10
306390	>A3688	03/17/99	19:24
306391	>A3689	03/17/99	20:01
306392	>A3690	03/17/99	20:37
306393	>A3691	03/17/99	21:14
306394	>A3692	03/17/99	21:50
306395	>A3693	03/17/99	22:27
306396	>A3694	03/17/99	23:03
306397	>A3695	03/17/99	23:40
306398	>A3696	3/17/99	00:16
FROM INITIAL CALIBRATION			
VSTD050	>A3593	03/11/99	09:41
VSTD010	>A3594	03/11/99	10:49
VSTD200	>A3595	03/11/99	11:26
VSTD100	>A3596	03/11/99	12:03
VSTD020	>A3597	03/11/99	12:40

NOTE: The 'Initial Calibration Date' listed on the Continuing Calibration Check form reflects the last date a modification was made to the file, not the date that the Initial Calibration was acquired. The Initial Calibration acquisition dates are on the 'GC/MS Continuing Calibration Summary'.

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ALI

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 03/17/99
 Contractor: ICM LAB Time: 13:45
 Contract No: _____ Laboratory ID: >A3680
 Instrument ID: 59701 MSD/A Initial Calibration Date: 03/11/99

Minimum RF for SPCC is 0.1 Maximum % Diff for CCC is 20%

Compound	RF	RF	%Diff	CCC	SPCC
Chlorodifluoromethane	.42071	.50587	20.24		
Dichlorodifluoromethane	.41526	.35593	14.29		
Chloromethane	.14909	.12706	14.78	**	
Vinyl Chloride	.16744	.15088	9.89	*	
Bromomethane	.22175	.18798	7.83		
Chloroethane	.12565	.11259	10.39		
Trichlorofluoromethane	.56613	.50365	11.04		
Freon-113	.65487	.77006	17.59		
1,1-Dichloroethene	.41409	.48768	17.77	*	
Carbon Disulfide	.48215	.55398	14.90		
Methylene Chloride	.39604	.53121	34.13		
Acetone	.53545	.64500	14.71		
t-Butyl alcohol	.03459	.04865	126.09		(Conc=125.00)
trans-1,2-Dichloroethene	.28258	.33222	17.57		
Acrolein	.00584	.00790	27.56		(Conc=250.00)
Acrylonitrile	.03839	.05072	23.57		(Conc=250.00)
t-Butyl methyl ether	.57930	.66933	12.76		
Diisopropyl ether	.92191	1.14647	18.45		
1,1-Dichloroethane	.57916	.70079	21.00	**	
2-Butanone	.06777	.09828	41.47		
2,2-Dichloropropane	.44672	.51682	15.69		
cis-1,2-Dichloroethene	.31510	.36574	16.07		
Bromochloromethane	.21577	.25739	19.29		
Chloroform	.66352	.78203	17.86	*	
Dibromofluoromethane	.61487	.72222	17.46		
1,1,1-Trichloroethane	.55314	.65244	17.95		
1,2-Dichloroethane-d4	.32664	.39682	21.49		
EXTRA#1	-	-	-		
EXTRA#2	-	-	-		
EXTRA#3	-	-	-		
Carbon Tetrachloride	.60064	.68632	14.27		
1,1-Dichloropropene	.45245	.52533	16.11		

RF - Response Factor from daily standard file at 50.00 ug/L

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 03/17/99
 Contractor: ICM LAB _____ Time: 13:45
 Contract No: _____ Laboratory ID: >A3680
 Instrument ID: 59701 MSD/A _____ Initial Calibration Date: 03/11/99

Minimum RF for SPCC is 0.1 Maximum % Diff for CCC is 20%

Compound	RF	RF	%Diff	CCC	SPCC
Benzene	.81648	.93872	14.97		
1,2-Dichloroethane	.41373	.48986	18.40		
Trichloroethene	.44319	.49017	10.60		
1,2-Dichloropropane	.38917	.45454	16.80	*	
Bromodichloromethane	.70237	.83690	19.15		
Dibromomethane	.45811	.54968	19.77		
cis-1,3-Dichloropropene	.51127	.59275	15.94		
Vinyl Acetate	.34218	.40426	3.95		
trans-1,3-Dichloropropene	.41576	.47892	7.77		
1,1,2-Trichloroethane	.36064	.42314	17.33		
2-Chloroethylvinylether	.06258	.07779	24.30		(Conc=100.00)
1,3-Dichloropropane	.49508	.59335	19.85		
Dibromochloromethane	.70587	.81256	15.11		
Bromoform	.58004	.71769	17.34	**	
EXTRA#4	-	-	-		
EXTRA#5	-	-	-		
EXTRA#6	-	-	-		
4-Methyl-2-Pentanone	.37194	.45749	15.47		
Toluene-d8	1.00503	1.12624	12.06		
Toluene	.63851	.72286	13.21	*	
Tetrachloroethene	.53938	.59296	9.93		
Isopropylbenzene	1.14284	1.30835	14.48		
1,1,2,2-Tetrachloroethane	.57520	.70129	17.39	**	
2-Hexanone	.15018	.18605	18.40		
1,2-Dibromoethane	.56316	.65451	11.31		
Chlorobenzene	.99645	1.13163	13.57	**	
1,1,1,2-Tetrachloroethane	.54705	.64587	18.06		
Ethylbenzene	1.25192	1.44548	15.46	*	
m,p-Xylenes	1.92769	2.21414	14.86		(Conc=100.00)
o-Xylene	1.18552	1.35404	14.22		
Styrene	.88349	1.02760	16.31		
Bromofluorobenzene	1.01486	1.20976	19.20		

RF - Response Factor from daily standard file at 50.00 ug/L

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 03/17/99
 Contractor: ICM LAB _____ Time: 13:45
 Contract No: _____ Laboratory ID: >A3680
 Instrument ID: 59701 MS0/A _____ Initial Calibration Date: 03/11/99

Minimum RF for SPCC is 0.1 Maximum % Diff for CCC is 20%

Compound	RF	RF	%Diff	CCC	SPCC
p-ethyltoluene	2.93190	3.45250	17.76		
Bromobenzene	.62198	.70894	13.98		
p-diethylbenzene	1.43449	1.67560	16.81		
1,2,3-Trichloropropane	.34116	.41110	20.50		
n-Propylbenzene	1.83384	2.12985	16.14		
2-Chlorotoluene	1.41078	1.64309	16.47		
1,3,5-Trimethylbenzene	1.28891	1.51015	17.16		
4-Chlorotoluene	1.68515	1.91953	13.91		
tert-Butylbenzene	1.44003	1.67864	16.57		
1,2,4-Trimethylbenzene	1.28979	1.51015	17.08		
sec-Butylbenzene	1.04365	1.25408	20.16		
1,2,4,5-tetranethylbenzene	1.55867	1.87538	20.32		
p-Isopropyltoluene	1.56073	1.87312	20.02		
EXTRA#7	-	-	-		
EXTRA#8	-	-	-		
EXTRA#9	-	-	-		
1,3-Dichlorobenzene	1.33380	1.47375	10.49		
1,4-Dichlorobenzene	1.45702	1.64550	12.94		
n-Butylbenzene	1.21664	1.40016	15.08		
1,2-Dichlorobenzene	1.33627	1.46085	9.32		
1,2-Dibromo-3-chloropropane	.21575	.24598	6.14		
1,2,4-Trichlorobenzene	1.30896	1.37367	4.94		
Hexachlorobutadiene	1.17069	1.19101	1.74		
Naphthalene	1.65628	1.70559	.32		
1,2,3-Trichlorobenzene	1.16994	1.19426	2.08		
2-Methylnaphthalene	-	-	-		
1,3-Dimethylnaphthalene	-	-	-		
EXTRA#10	-	-	-		
EXTRA#11	-	-	-		
EXTRA#12	-	-	-		

RF - Response Factor from daily standard file at 50.00 ug/L

RF - Average Response Factor from Initial Calibration Form UI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

QUANT REPORT

Operator ID: KL7127
 Output File: ^A3680::X1
 Data File: >A3680::B1
 Name: INST 59701 USTD050
 Misc: USTD050,S,5,5 ,0.53mm x75m db-624

Quant Rev: 7 Quant Time: 990317 14:16
 Injected at: 990317 13:45
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990312 14:07

Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *Pentafluorobenzene	7.36	168.0	174662	50.00	ug/L	94
2) Chlorodifluoromethane	2.02	51.0	88357	60.12	ug/L	97
3) Dichlorodifluoromethane	2.03	85.0	62168	42.86	ug/L	93
4) Chloromethane	2.21	50.0	22192	42.61	ug/L	100
5) Vinyl Chloride	2.30	62.0	26353	45.06	ug/L	100
6) Bromomethane	2.67	94.0	32676	45.43	ug/L	87
7) Chloroethane	2.75	64.0	19666	44.80	ug/L	100
8) Trichlorofluoromethane	2.99	101.0	87968	44.48	ug/L	93
9) Freon-113	3.44	101.0	134501	58.80	ug/L	78
10) 1,1-Dichloroethene	3.63	61.0	85179	58.89	ug/L	80
11) Carbon Disulfide	4.22	76.0	96760	57.45	ug/L	100
12) Methylene Chloride	4.26	49.0	92782	67.07	ug/L	75
13) Acetone	5.34	43.0	112657	56.81	ug/L	100
14) t-Butyl alcohol	5.33	59.0	21245	234.33	ug/L	100
15) trans-1,2-Dichloroethene	4.68	96.0	58027	58.78	ug/L	87
16) Acrolein	4.54	56.0	6902M	311.37	ug/L	
17) Acrylonitrile	4.47	53.0	44294 ^{3/17/99}	304.22	ug/L	98
18) t-Butyl methyl ether	4.53	73.0	116906 ^{5/5}	56.18	ug/L	96
19) Diisopropyl ether	5.34	45.0	200245	58.55	ug/L	76
20) 1,1-Dichloroethane	5.43	63.0	122402	60.50	ug/L	99
21) 2-Butanone	6.41	43.0	17165	70.86	ug/L	95
22) 2,2-Dichloropropane	6.57	77.0	90269	57.85	ug/L	93
23) cis-1,2-Dichloroethene	6.66	96.0	63881	58.04	ug/L	90
24) Bromochloromethane	7.31	128.0	44956	59.64	ug/L	69
25) Chloroform	7.00	83.0	136591M	58.93	ug/L	98
26) Dibromofluoromethane	7.45	113.0	126145 ^{3/17/99}	58.73	ug/L	100
27) 1,1,1-Trichloroethane	7.80	97.0	113956 ^{5/5}	58.98	ug/L	77
28) 1,2-Dichloroethane-d4	8.47	65.0	69310	60.74	ug/L	91
32) *1,4-Difluorobenzene	9.30	114.0	166045	50.00	ug/L	98
33) Carbon Tetrachloride	8.27	117.0	113960	57.13	ug/L	99
34) 1,1-Dichloropropene	8.15	75.0	87229	58.05	ug/L	92
35) Benzene	8.63	78.0	155870	57.49	ug/L	98
36) 1,2-Dichloroethane	8.65	62.0	81339	59.20	ug/L	99
37) Trichloroethene	9.84	95.0	81391	55.30	ug/L	95
38) 1,2-Dichloropropane	10.20	63.0	75474	58.40	ug/L	98
39) Bromodichloromethane	10.62	83.0	138963	59.58	ug/L	98
40) Dibromomethane	10.69	174.0	91106	59.88	ug/L	63
41) cis-1,3-Dichloropropene	11.71	75.0	98423	57.97	ug/L	96
42) Vinyl Acetate	11.44	43.0	67126	48.96	ug/L	100
43) trans-1,3-Dichloropropene	12.67	75.0	79523M ^{AT}	53.64	ug/L	

3/17/99

QUANT REPORT

Operator ID: KL7127
 Output File: ^A3680::X1
 Data File: >A3680::B1
 Name: INST 59701 USTD050
 Misc: USTD050,S,5,5 ,0.53mm x75m db-624

Quant Rev: 7 Quant Time: 990317 14:16
 Injected at: 990317 13:45
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990312 14:07

Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	1,1,2-Trichloroethane	12.92	97.0	70260	58.67	ug/L	90
45)	2-Chloroethylvinylether	15.19	63.0	25832	124.30	ug/L	100
46)	1,3-Dichloropropane	13.38	76.0	98523	59.92	ug/L	85
47)	Dibromochloromethane	13.76	129.0	134921	57.56	ug/L	92
48)	Bromoform	16.55	173.0	119169	58.56	ug/L	96
52)	*Chlorobenzene-d5	14.82	117.0	153205	50.00	ug/L	92
53)	4-Methyl-2-Pentanone	11.44	43.0	70089	57.44	ug/L	70
54)	Toluene-d8	12.10	98.0	172546	56.03	ug/L	92
55)	Toluene	12.24	92.0	110746	56.61	ug/L	94
56)	Tetrachloroethene	13.40	164.0	90845	54.97	ug/L	95
57)	Isopropylbenzene	16.64	105.0	200445	57.24	ug/L	77
58)	1,1,2,2-Tetrachloroethane	16.98	83.0	107441	58.57	ug/L	84
59)	2-Hexanone	13.08	43.0	28504	59.27	ug/L	85
60)	1,2-Dibromoethane	14.12	107.0	100274	55.36	ug/L	98
61)	Chlorobenzene	14.89	112.0	173371	56.78	ug/L	94
62)	1,1,1,2-Tetrachloroethane	15.01	131.0	98950	59.03	ug/L	94
63)	Ethylbenzene	15.05	91.0	221454	57.73	ug/L	96
64)	m+p-Xylenes	15.19	91.0	678436	114.86	ug/L	46
65)	o-Xylene	15.96	91.0	207446	57.11	ug/L	96
66)	Styrene	16.04	104.0	157434	58.16	ug/L	93
67)	Bromofluorobenzene	17.07	95.0	185341	59.60	ug/L	99
68)	p-ethyltoluene	17.60	105.0	528941	58.88	ug/L	98
69)	Bromobenzene	17.36	156.0	108613	56.99	ug/L	97
70)	p-diethylbenzene	18.31	119.0	256711M	58.40	ug/L	
71)	1,2,3-Trichloropropane	19.92	75.0	62983	60.25	ug/L	63
72)	n-Propylbenzene	17.38	91.0	326304	58.07	ug/L	95
73)	2-Chlorotoluene	17.64	91.0	251729	58.23	ug/L	84
74)	1,3,5-Trimethylbenzene	18.37	105.0	231362	58.58	ug/L	91
75)	4-Chlorotoluene	17.74	91.0	294082	56.95	ug/L	85
76)	tert-Butylbenzene	18.31	119.0	257176	58.28	ug/L	91
77)	1,2,4-Trimethylbenzene	18.37	105.0	231362	58.54	ug/L	86
78)	sec-Butylbenzene	19.76	105.0	192132M	60.08	ug/L	
79)	1,2,4,5-tetramethylbenzene	18.98	119.0	287318	60.16	ug/L	72
80)	p-Isopropyltoluene	21.14	119.0	286971	60.01	ug/L	71
84)	*1,4-Dichlorobenzene-d4	19.20	152.0	121711	50.00	ug/L	94
85)	1,3-Dichlorobenzene	19.06	146.0	179372	55.25	ug/L	87
86)	1,4-Dichlorobenzene	19.26	146.0	200275	56.47	ug/L	84
87)	n-Butylbenzene	19.74	92.0	170415	57.54	ug/L	85
88)	1,2-Dichlorobenzene	19.91	146.0	177802	54.66	ug/L	84
89)	1,2-Dibromo-3-chloropropane	21.37	157.0	29939	53.18	ug/L	93
90)	1,2,4-Trichlorobenzene	22.99	180.0	167191	52.47	ug/L	99

QUANT REPORT

Page 3

Operator ID: KL7127
 Output File: ^A3680::X1
 Data File: >A3680::B1
 Name: INST 59701 USTD050
 Misc: USTD050,S,5,5 ,0.53mm x75m db-624

Quant Rev: 7 Quant Time: 990317 14:16
 Injected at: 990317 13:45
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: ID86AS::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990312 14:07

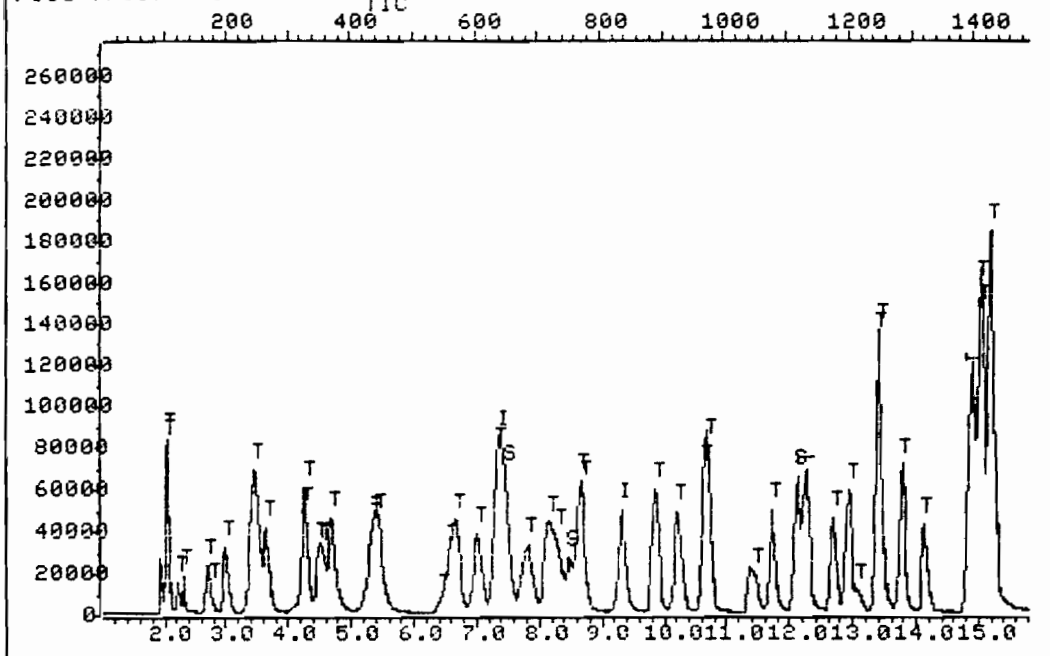
Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
91)	Hexachlorobutadiene	23.29	225.0	144959	50.87	ug/L	96
92)	Naphthalene	23.42	128.0	207589	50.72	ug/L	100
93)	1,2,3-Trichlorobenzene	23.90	180.0	145354	51.04	ug/L	97

* Compound is ISTD

TOTAL ION CHROMATOGRAM

File >A3680 35.0-260.01801.59701 VSTD050 VSTD050,S,5,5 ,0.53mm x75



Data File: >A3680::B1

Quant Output File: ^A3680::X1

Name: INST 59701 USTD050

Instrument ID: INST "A"

Misc: USTD050,S,5,5 ,0.53mm x75m db-624

Id File: ID86AS::RS

Title: Method 8260B IDFILE

Last Calibration: 990312 14:07

Last Qcal Time: <none>

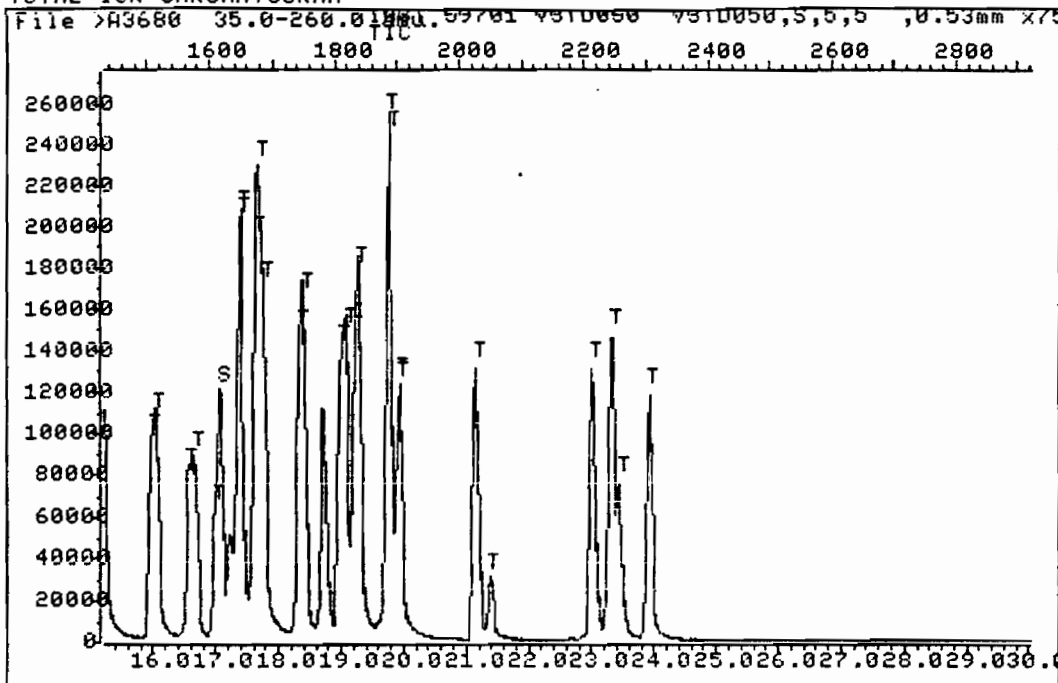
Operator ID: KL7127

Quant Time : 990317 14:16

Injected at: 990317 13:45

Page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >A3680::B1

Quant Output File: ^A3680::X1

Name: INST 59701 USTD050

Instrument ID: INST "A"

Misc: USTD050,S,5,5 ,0.53mm x75m db-624

Id File: ID86AS::RS

Title: Method 8260B IDFILE

Last Calibration: 990312 14:07

Last Qcal Time: <none>

Operator ID: KL7127

Quant Time : 990317 14:16

Injected at: 990317 13:45

Page 2 of 2

QUANT REPORT

Page 1

Operator ID: AT1446
 Output File: ^A3667::X1
 Data File: >A3667::C1
 Name: INST 59701, SAMPLE
 Misc: 306187MS ,L,5,5, 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990316 23:35
 Injected at: 990316 23:04
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

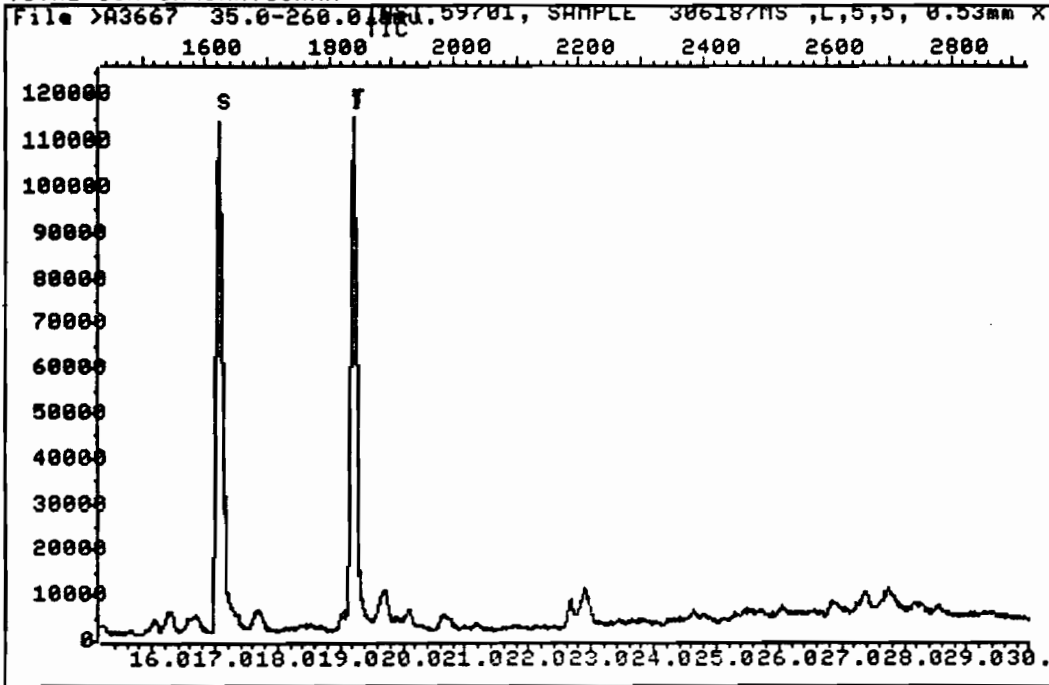
ID File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990315 18:22

Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units	
1) *Pentafluorobenzene	7.31	168.0	163195	50.00	ug/L	\$
6) Bromomethane	2.63	94.0	1058	1.51	ug/L	\$
10) 1,1-Dichloroethene	3.58	61.0	86197	52.52	ug/L	\$
12) Methylene Chloride	4.21	49.0	11917	6.05	ug/L	\$
26) Dibromofluoromethane	7.41	113.0	127049	55.36	ug/L	10
28) 1,2-Dichloroethane-d4	8.43	65.0	67199	53.69	ug/L	\$
32) *1,4-Difluorobenzene	9.27	114.0	154718	50.00	ug/L	\$
35) Benzene	8.59	78.0	176442	58.50	ug/L	\$
37) Trichloroethene	9.81	95.0	78762	48.93	ug/L	\$
52) *Chlorobenzene-d5	14.82	117.0	154685	50.00	ug/L	\$
54) Toluene-d8	12.09	98.0	172434	45.41	ug/L	\$
55) Toluene	12.22	92.0	104391	43.37	ug/L	\$
61) Chlorobenzene	14.88	112.0	154011	42.65	ug/L	\$
67) Bromofluorobenzene	17.06	95.0	171381	42.42	ug/L	\$
71) 1,2,3-Trichloropropane	19.20	75.0	12067	9.12	ug/L	\$
84) *1,4-Dichlorobenzene-d4	19.19	152.0	115640	50.00	ug/L	\$

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >A3667::C1 Quant Output File: ^A3667::X1
Name: INST 59701, SAMPLE Instrument ID: INST "A"
Misc: 306187MS ,L,5,5, 0.53mm X 75m DB-624

Id File: ID86AL::RS
Title: Method 8260B IDFILE
Last Calibration: 990315 18:22 Last Qcal Time: <none>

Operator ID: AT1446
Quant Time : 990316 23:35
Injected at: 990316 23:04

QUANT REPORT

Page 1

Operator ID: AT1446
 Output File: ^A3668::X1
 Data File: >A3668::C1
 Name: INST 59701, SAMPLE
 Misc: 306187MSD,L,5,5, 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990317 00:12
 Injected at: 990316 23:41
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990315 18:22

Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	c
1)	*Pentafluorobenzene	7.28	168.0	160148	50.00	ug/L	9
6)	Bromomethane	2.61	94.0	1828	2.67	ug/L	9
10)	1,1-Dichloroethene	3.56	61.0	86709	53.84	ug/L	8
12)	Methylene Chloride	4.18	49.0	10778	5.57	ug/L	7
13)	Acetone	4.74	43.0	11769	5.21	ug/L	10
26)	Dibromofluoromethane	7.39	113.0	120959	53.71	ug/L	10
28)	1,2-Dichloroethane-d4	8.40	65.0	64361	52.40	ug/L	8
32)	*1,4-Difluorobenzene	9.26	114.0	150543	50.00	ug/L	9
35)	Benzene	8.57	78.0	174153	59.35	ug/L	9
37)	Trichloroethene	9.80	95.0	78384	50.04	ug/L	9
52)	*Chlorobenzene-d5	14.81	117.0	152316	50.00	ug/L	9
54)	Toluene-d8	12.08	98.0	170482	45.60	ug/L	9
55)	Toluene	12.22	92.0	105403	44.47	ug/L	9
61)	Chlorobenzene	14.88	112.0	152651	42.93	ug/L	9
67)	Bromofluorobenzene	17.06	95.0	170433	42.84	ug/L	9
84)	*1,4-Dichlorobenzene-d4	19.19	152.0	111511	50.00	ug/L	9

* Compound is ISTD

AT 3-17-99

ANALab, INC.
 1152 ROUTE 10
 Randolph, NJ 07869
 973-584-0330, FAX: 973-584-0515

Certified for: NJ, PA, DE, CT, NY(DOH)
 NJ #14116 NY #11376
 US EPA CLP Lab

QUALITY ASSURANCE DATA
 GC/MS VOLATILE QA SAMPLE

QV5845
 Method: 8260B
 Matrix: water
 Data File: >A3662 3/16/99

Initial wt/vol: 5 ml
 Final vol: 5 mls
 Unit: ug/l

COMPOUND NAME	CONC ADDED	CONC FOUND	%REC	QC Limits
Chloromethane	10	11.32	113.2	55 - 120
Bromomethane	10	12.3	123	55 - 120
Vinyl Chloride	10	11.24	112.4	55 - 120
Chloroethane	10	10.6	106	55 - 120
Methylen Chloride	10	8.58	85.8	55 - 120
Carbon Disulfide	10	10.69	106.9	55 - 120
Acetone	10	8.21	82.1	55 - 120
1,1-Dichloroethene	10	11.59	115.9	55 - 120
1,1-Dichloroethane	10	11.34	113.4	55 - 120
1,2-Dichloroethene-trans	10	11.16	111.6	55 - 120
1,2-Dichloroethene-cis	10	11.03	110.3	55 - 120
Chloroform	10	12.01	120.1	55 - 120
1,2-Dichloroethane	10	14.51	145.1	55 - 120
1,1,1-Trichloroethane	10	11.59	115.9	55 - 120
Carbon Tetrachloride	10	11.91	119.1	55 - 120
1,2-Dichloropropane	10	11.71	117.1	55 - 120
cis-1,3-Dichloropropene	10	11.02	110.2	55 - 120
Trichloroethene	10	11.85	118.5	55 - 120
Dibromochloromethane	10	14.64	146.4	55 - 120
1,1,2-Trichloroethane	10	17.32	173.2	55 - 120
Benzene	10	11.64	116.4	55 - 120
trans-1,3-Dichloropropene	10	12.68	126.8	55 - 120
1,1,2,2-Tetrachloroethane	10	26.45	264.5	55 - 120
Toluene	10	8.92	89.2	55 - 120
Chlorobenzene	10	10.02	100.2	55 - 120
Ethylbenzene	10	9.67	96.7	55 - 120
Styrene	10	9.49	94.9	55 - 120
Xylene p+m	20	18.4	92	55 - 120
Xylene o	10	9.38	93.8	55 - 120

QUANT REPORT

Operator ID: AT1446
 Output File: ^A3662::X1
 Data File: >A3662::B1
 Name: INST 59701, QA
 Misc: QA SAMPLE, , , 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990316 20:30
 Injected at: 990316 19:59
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990315 18:22

Last Qcal Time: <none>

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *Pentafluorobenzene	7.32	168.0	168934	50.00	ug/L	92
2) Chlorodifluoromethane	1.99	51.0	20432	11.74	ug/L	97
3) Dichlorodifluoromethane	2.00	85.0	15473	12.19	ug/L	99
4) Chloromethane	2.19	50.0	5496M	11.32	ug/L	
5) Vinyl Chloride	2.27	62.0	6152M	11.24	ug/L	
6) Bromomethane	2.63	94.0	8896	12.30	ug/L	89
7) Chloroethane	2.71	64.0	4267M	10.60	ug/L	
8) Trichlorofluoromethane	2.94	101.0	20322	11.71	ug/L	86
9) Freon-113	3.41	101.0	30127	12.03	ug/L	78
10) 1,1-Dichloroethene	3.60	61.0	19694	11.59	ug/L	87
11) Carbon Disulfide	4.19	76.0	20939	10.69	ug/L	100
12) Methylene Chloride	4.22	49.0	17508M	8.58	ug/L	
13) Acetone	5.32	43.0	195403/12	8.21	ug/L	100
15) trans-1,2-Dichloroethene	4.65	96.0	12425	11.16	ug/L	87
17) Acrylonitrile	4.45	53.0	53675	322.30	ug/L	91
18) t-Butyl methyl ether	4.51	73.0	38350	15.59	ug/L	97
19) n-Butyl methyl ether	5.32	45.0	46500	10.90	ug/L	78
20) 1,1-Dichloroethane	5.39	63.0	27083	11.34	ug/L	99
21) 2-Butanone	6.40	43.0	22863	76.78	ug/L	96
22) 2,2-Dichloropropane	6.50	77.0	19455	10.87	ug/L	89
23) cis-1,2-Dichloroethene	6.64	96.0	14008	11.03	ug/L	96
24) Bromochloromethane	7.27	128.0	11077	13.34	ug/L	72
25) Chloroform	6.97	83.0	31009	12.01	ug/L	96
26) Dibromofluoromethane	7.43	113.0	29260	12.32	ug/L	100
27) 1,1,1-Trichloroethane	7.75	97.0	25042	11.59	ug/L	74
28) 1,2-Dichloroethane-d4	8.44	65.0	19163	14.79	ug/L	89
32) *1,4-Difluorobenzene	9.28	114.0	156562	50.00	ug/L	97
33) Carbon Tetrachloride	8.25	117.0	24916	11.91	ug/L	96
34) 1,1-Dichloropropene	8.09	75.0	19394	11.45	ug/L	83
35) Benzene	8.59	78.0	35509	11.64	ug/L	99
36) 1,2-Dichloroethane	8.64	62.0	21565	14.51	ug/L	94
37) Trichloroethene	9.83	95.0	19306	11.85	ug/L	93
38) 1,2-Dichloropropane	10.18	63.0	17510	11.71	ug/L	92
39) Bromodichloromethane	10.60	83.0	31581	12.30	ug/L	99
40) Dibromomethane	10.66	174.0	28075	17.40	ug/L	62
41) cis-1,3-Dichloropropene	11.68	75.0	21649	11.02	ug/L	94
42) Vinyl Acetate	11.42	43.0	58558	40.22	ug/L	100
43) trans-1,3-Dichloropropene	12.66	75.0	19993M	12.68	ug/L	
44) 1,1,2-Trichloroethane	12.91	97.0	22526	17.32	ug/L	89
45) 2-Chloroethylvinylether	17.62	63.0	9847	43.57	ug/L	100

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QUANT REPORT

Operator ID: AT1446
 Output File: ^A3662::X1
 Data File: >A3662::R1
 Name: INST 59701, QA
 Misc: QA SAMPLE, , , 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990316 20:30
 Injected at: 990316 19:59
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

ID File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990315 18:22

Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
46)	1,3-Dichloropropane	13.36	76.0	29551	15.90	ug/L	84
	1,1-Dichloroethane	13.75	129.0	37185	14.64	ug/L	95
48)	Bromofluorobenzene	16.54	173.0	50594	23.52	ug/L	95
52)	*Chlorobenzene-d5	14.81	117.0	168868	50.00	ug/L	94
53)	4-Methyl-2-Pentanone	11.42	43.0	60128	33.91	ug/L	73
54)	Toluene-d8	12.08	98.0	38391M	9.26	ug/L	
55)	Toluene	12.23	92.0	23438	8.92	ug/L	98
56)	Tetrachloroethene	13.39	164.0	21055	9.95	ug/L	97
57)	Isopropylbenzene	16.63	105.0	43364	9.06	ug/L	77
58)	1,1,2,2-Tetrachloroethane	16.96	83.0	62524	26.45	ug/L	82
59)	2-Hexanone	13.05	43.0	35681	50.51	ug/L	81
60)	1,2-Dibromoethane	14.11	107.0	37447	16.35	ug/L	99
61)	Chlorobenzene	14.88	112.0	39481	10.02	ug/L	96
62)	1,1,1,2-Tetrachloroethane	15.00	131.0	22301M	10.28	ug/L	
63)	Ethylbenzene	15.03	91.0	49665	9.67	ug/L	96
64)	m+p-Xylenes	15.18	91.0	94291M	18.40	ug/L	
65)	o-Xylene	15.94	91.0	46046	9.38	ug/L	94
66)	Styrene	16.02	104.0	35189	9.49	ug/L	93
67)	Bromofluorobenzene	17.04	95.0	49691	11.27	ug/L	97
68)	p-ethyltoluene	17.58	105.0	40426^	3.31	ug/L	93
69)	Bromobenzene	17.34	156.0	26184	10.55	ug/L	97
70)	p-diethylbenzene	18.30	119.0	57012M	9.58	ug/L	
71)	1,2,3-Trichloropropane	19.89	75.0	14900	10.32	ug/L	65
72)	n-Propylbenzene	17.36	91.0	73328	9.47	ug/L	95
73)	2-Chlorotoluene	17.63	91.0	57554	9.77	ug/L	81
74)	1,3,5-Trimethylbenzene	18.36	105.0	52009	9.70	ug/L	94
75)	4-Chlorotoluene	17.72	91.0	69616	9.88	ug/L	85
76)	tert-Butylbenzene	18.30	119.0	57539	9.59	ug/L	92
77)	1,2,4-Trimethylbenzene	18.36	105.0	52009	9.70	ug/L	83
78)	sec-Butylbenzene	19.74	105.0	44414M	10.19	ug/L	
79)	1,2,4,5-tetramethylbenzene	18.97	119.0	62515	9.50	ug/L	70
80)	p-Isopropyltoluene	21.12	119.0	59085	8.83	ug/L	72
84)	*1,4-Dichlorobenzene-d4	19.19	152.0	115625	50.00	ug/L	92
85)	1,3-Dichlorobenzene	19.25	146.0	46599	12.96	ug/L	84
86)	1,4-Dichlorobenzene	19.25	146.0	46599	11.97	ug/L	84
87)	n-Butylbenzene	19.72	92.0	37634	10.94	ug/L	85
88)	1,2-Dichlorobenzene	19.90	146.0	43973	12.10	ug/L	85
89)	1,2-Dibromo-3-chloropropane	21.37	157.0	35260	59.18	ug/L	93
90)	1,2,4-Trichlorobenzene	22.98	180.0	43559	12.44	ug/L	97
91)	Hexachlorobutadiene	23.28	225.0	37172	11.68	ug/L	98
92)	Naphthalene	23.41	128.0	119535	37.27	ug/L	100

QUANT REPORT

Page 3

Operator ID: AT1446
 Output File: ^A3662::X1
 Data File: >A3662::B1
 Name: INST 59701, QA
 Misc: QA SAMPLE, , , 0.53mm X 75m DB-624

Quant Rev: 7 Quant Time: 990316 20:30
 Injected at: 990316 19:59
 Dilution Factor: 1.00000
 Instrument ID: INST "A"

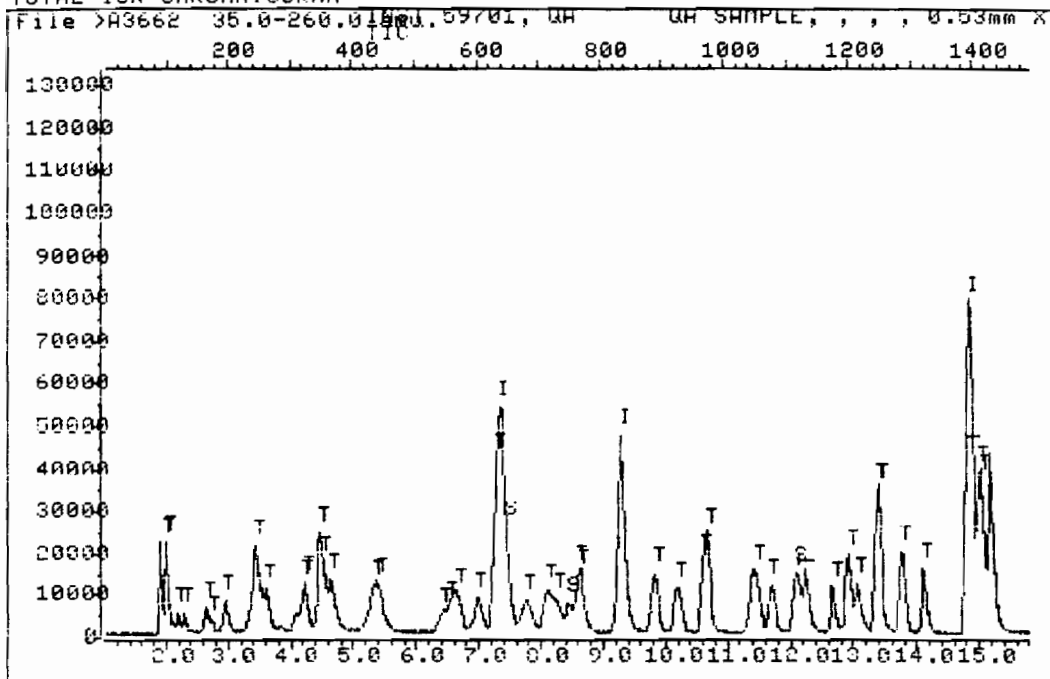
ID File: ID86AL::RS
 Title: Method 8260B IDFILE
 Last Calibration: 990315 18:22

Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
93)	1,2,3-Trichlorobenzene	23.90	180.0	45833	14.44	ug/L	96

Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >A3662::R1

Quant Output File: ^A3662::X1

Inst: INST 59701, QA

Instrument ID: INST "A"

Misc: QA SAMPLE, , , 0.53mm X 75m DB-624

Int File: ID86AL::RS

Title: Method 8260B IDFILE

Last Calibration: 990315 18:22

Last Qcal Time: <none>

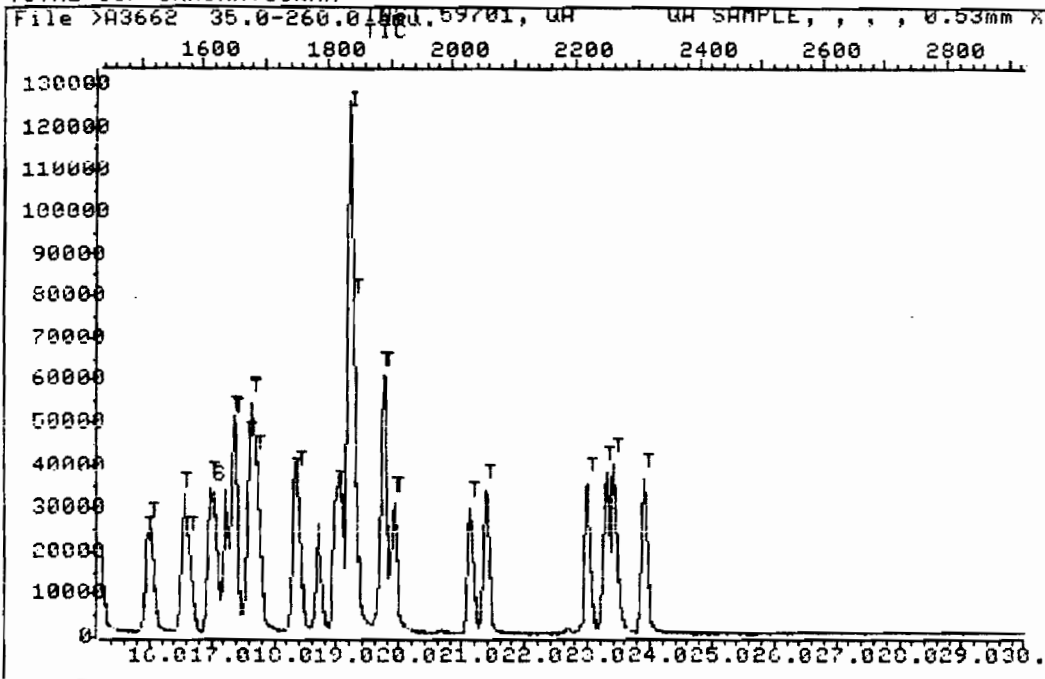
Operator ID: AT1446

Quant Time : 990316 20:30

Injected at: 990316 19:59

Page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >A3662::B1

Quant Output File: ^A3662::X1

Name: INST 59701, QA

Instrument ID: INST "A"

Misc: QA SAMPLE, , , 0.53mm X 75m DB-624

Id File: ID86AL::RS

Title: Method 8260B IDFILE

Last Calibration: 990315 18:22

Last Qual Time: <none>

Operator ID: AT1446

Quant Time : 990316 20:30

Injected at: 990316 19:59

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