

MYTHRA: ANTI-VIRAL 10.10.1000

0001

MYTHRA: ANTI-VIRAL 10.10.1000

MYTHRA: ANTI-VIRAL 10.10.1000

MYTHRA: ANTI-VIRAL 10.10.1000

105 \$: 1993-0020

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SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOA - TCL + TIC's
ANALYSIS

-0003

Page 4 of 7

0004

$$\text{B/N-A} = \text{TCI} + \text{HCO's}$$

JIR # : 3093-0060

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0005

JOB # : 3093-0060

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

0006

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE/PCB
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
S-99	SOIL	01/18/93	01/19/93	01/21/93	02/12/93
S-100					02/10/93
S-100DL					
S-100MS					02/12/93
S-100MSD					02/13/93
S-100MSK					02/10/93
QC CHECK STD					02/12/93
S-101					02/10/93
S-101DL					
S-102					
S-102DL					
CS-93					
CS-93DL					
CS-75		01/19/93	01/21/93	01/22/93	02/11/93
CS-75DL					
S-103					
S-103DL					
CS-51		01/20/93			02/16/93
CS-51DL					02/13/93
CS-50					
CS-50DL					

at 3/4

- 2 -

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

0007

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE/PCB
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
S-115	SOIL	01/20/93	01/21/93	01/22/93	02/13/93
S-115DL					
S-113					
S-113DL					
S-111					02/20/93
S-111DL					02/14/93
CS-49					
CS-49DL					
S-114					02/20/93
S-114DL					02/16/93
S-112					
S-112DL					
FIELD # 1/18	WATER	01/18/93	01/19/93	01/19/93	02/11/93
FIELD # 1/20		01/20/93	01/21/93	01/22/93	02/11/93

SAMPLE PREPARATION AND ANALYSIS SUMMARY

INORGANIC ANALYSIS

308 # : 3093-0066

[illegible]

0009

JOB # : 3093-0060

Furnace

Page 6 of 7

0010

106 R : 3093-0060

Mercury

Page 6 of 7

0011

JOB # : 3093-0060

Page 6 of 7

SAMPLE PREPARATION AND ANALYSIS SUMMARY
TAL METALS
INORGANIC ANALYSIS

IOB # : 3093-0060

ICAP

Page 7 of 7

SAMPLE PREPARATION AND ANALYSIS SUMMARY

JOB # : 3093-0060

Funkel: 71

Page 7 of 7

0015

TAL METALS

308 # : 3093-0060

Furnace - Pb

Page 7 of 7

0017

108 # : 3093-0060

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0018

SDG NARRATIVE

CLIENT:
PROJECT ID:
P.O.#
SDG#:
IEA ID:

ROUX ASSOCIATES
AMTRAK SUNNYSIDE
05526Y
Z0060
30930-0060



IEA

An Aquarion Company

200 Monroe Turnpike
Monroe, Connecticut 06468

Phone 203-261-4458
Fax 203-268-5346

19

30930-0060
ROUX ASSOCIATES

SDG Narrative

Volatile Organics - In order to meet the 7-day from receipt holding time, the field blanks and the trip blank were analyzed along with the soil sample on a soil calibration curve.

Extractions - Sample S-100 for PCB's was inadvertently spiked with the incorrect concentration of the standard solution. The sample was re-extracted on 02/01/93 using the correct solution.

Semi-Volatile Organics - Samples S-101, S-100, S-100 MS, S-100 MSD and S-102 exhibited internal standard area suppression. Samples S-101 and S-102 were reanalyzed with similar results, therefore proving matrix interference. Samples S-100 MS and S-100MSD confirmed the matrix interference for sample S-100. Both analyses have been reported with the reanalysis designated with the suffix "RE".

PCB's - Samples S-100, S-100 MS, S-100 MSD, S-101, CS-75, S-103, CS-51, CS-50, S-115, S-113, S-111, CS-49, S-114 and S-112 required dilutions because of the high concentration of aroclor 1260.

The third peak used for calculation of aroclor 1260 in sample S-112 was outside of RT windows due to matrix interference.

Samples S-102 and CS-43 required dilutions due to the sample matrix. The third peak used for calculation of aroclor 1260 in sample CS-43 was outside of RT windows.

After sample CS-43 was diluted, the aroclor present was indistinguishable on the RTX-35 column, therefore the results reported are from column DB-1701. The third peak of aroclor 1260 was outside of RT windows.

Samples CS-75 and CS-49 were confirmed by GC/MS for aroclor 1260.

There was no aroclor 1242 injected within 72 hours of the QC check standard on column 2, however the aroclors run every 72 hours are not used for quantitation, only for pattern recognition. Since this is a spike sample, aroclor 1242 is a known compound.

Because of the very high concentration of aroclor 1260 in sample S-100 and the dilution required, the spike percent recovery could not be calculated.

All samples with dilution factors of 100 and higher had surrogates diluted out.

In sample CS-50 and CS-50 DL, DCB was lost in matrix and is not reported.

DCB was below advisory QC limits on column 1 in samples FB 011893 and FB 012093 and method blank PBLK40.

DCB was below advisory QC limits on column 2 in sample FB 011893 and method blanks PBLK53, PBLK40 and PBLK51 and on column 1 in sample S-111 DL.

TCX was below advisory QC limits on column 2 in sample S-99 and method blanks PBLK44 and PBLK51.

DCB had high recovery because of interference with aroclors on column 1 in samples CS-43, S-100 MSD, CS-5-1 DL, CS-51, S-115 DL, S-113 and on column 2 in samples S-102, S-100 MS, S-100 MSD, CS-51 DL, CS-51, S-115 DL, S-111 DL, CS-49 and S-112 DL.

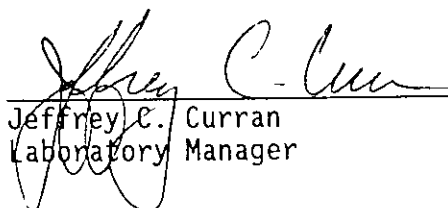
Many results have "P" flags due to the large percent RPD between column concentrations. This is believed to be due to the sample matrix.

Metals - IEC's are electronically employed by the TJA ICAP-61. However, the ICSA is utilized as a monitoring device to detect any additional adjustments that may be required. These modifications are calculated and applied manually. They are so noted in the raw data.

Copper, arsenic and selenium failed the control limits for spike recovery analysis of sample S-100, resulting in three "N" flags. It was noted during sample digestion that the sample contained numerous rocks. A problem with sample homogeneity appears to be the cause for the resultant flags.

No other problems were noted.

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



Jeffrey C. Curran
Laboratory Manager

March 5, 1993
Date

0020

CLIENT CHAINS OF CUSTODY

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK SUNNYSIDE
P.O.#	05526Y
SDG#:	Z0060
IEA ID:	30930-0060

ROUX ASSOCIATES INC 775 PARK AVENUE, SUITE 255 HUNTINGTON, NEW YORK 11743 (516) 673-7200 FAX: (516) 673-7216				ANALYSES				PAGE 1 OF 2		
PROJECT NAME	PROJECT NUMBER	PROJECT LOCATION		SAMPLE MATRIX		TOTAL BOTTLES		NOTES		
AMTRAK, SUNNYSIDE	055267	SUNNYSIDE, QUEENS, N.Y.C.		PCBS						
SAMPLER(S) DANIEL KEOHANE, CHRIS CLARK										
SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
CS-75	1-19-93	1220			✓					008
S-103	1-19-93	1340			✓					009
CS-51	1-20-93	1045			✓					010
CS-50	1-20-93	1105			✓					011
S-115	1-20-93	1145			✓					012
S-113	1-20-93	1200			✓					013
S-111	1-20-93	1220			✓					014
CS-49	1-20-93	1305			✓					015
FIELD BLANK	1-20-93	1330			✓					016
S-114	1-20-93	1410			✓					017
RELINQUISHED BY: (SIGNATURE) Daniel Keohane	FOR Roux Assoc	DATE 1/20/93	TIME 1700	SEAL INTACT Y OR N ✓	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	
COMMENTS ANALYSES N4 DEC ASP CATEGORY B Double extraction for 'S' Samples ONLY IEA, CT.										
DELIVERY METHOD 5965642955 FEDERAL EXPRESS										
ANALYTICAL LABORATORY IEA, CT.										



CHAIN OF CUSTODY

No 01300 Y

ROUX ASSOCIATES INC 775 PARK AVENUE, SUITE 255
HUNTINGTON, NEW YORK 11743
(516) 673-7200 FAX. (516) 673-7216
Consulting Ground-Water
Geologists & Engineers

PAGE 2 OF 2

PROJECT NAME **AMTRAK, SUNNYSIDE** PROJECT NUMBER **055267**
PROJECT LOCATION **SUNNYSIDE, QUEENS N.Y.C.**

SAMPLER(S) **DANIEL KEOHANE / CHOS CLARK, GREGORY**
SAMPLE DESIGNATION/LOCATION **S-112** DATE COLLECTED **1-20-93** TIME COLLECTED **1450**

NOTES **TOTAL BOTTLES**

RECEIVED BY: (SIGNATURE) **Daniel Keohane** FOR **ROUT** SEAL INTACT Y OR N **Y**

RECEIVED BY: (SIGNATURE) **Gregory Clark** FOR **ASAC** SEAL INTACT Y OR N **Y**

RECEIVED BY: (SIGNATURE) **[Signature]** FOR **IEA C7** SEAL INTACT Y OR N **Y**

DELIVERY METHOD **5965642955** COMMENTS **ANALYSE NYDEC ASP CATEGORY B**

FEDERAL EXPRESS

ANALYTICAL LABORATORY **I.E.A., C.T.**

Double extraction for 'S' Samples only.

Date 1-20-93		RECIPIENT'S COPY	
From (Your Name) Please Print Mr. Christopher Clark		To (Recipient's Name) Please Print Sample Control	
Your Phone Number (Very Important) (516) 673-7200		Recipient's Phone Number (Very Important) (203) 261-4458	
Company RCUX ASSOCIATES		Company IEA, Inc.	
Street Address 775 PARK AVE STE 255		Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes) 200 Monroe Turnpike	
City HUNTINGTON	State NY	City Monroe	State CT
ZIP Required 11743		ZIP Required 06468	
YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.) 055264 3017			
PAYMENT ☒ Bill Sender ☐ Bill Recipient's FedEx Acct. No. ☐ Bill 3rd Party FedEx Acct. No. ☐ Bill Credit Card ☐ Cash ☐ Check		IF HOLD FOR PICK-UP, Print FEDEX Address Here Street Address City State ZIP Required	
4 SERVICES (Check only one box) Priority Overnight Standard Overnight OTHER PACKAGING FEDEX LETTER FEDEX PAK FEDEX BOX FEDEX TUBE Economy Two-Day Government Overnight		5 DELIVERY AND SPECIAL HANDLING (Check services required) HOLD FOR PICK-UP DELIVER DANGEROUS GOODS DAY ICE	
(Check only one box) ☐ WEEKDAY ☐ SATURDAY ☒ WEEKDAY ☐ SATURDAY		6 PACKAGES WEIGHT In Pounds Only YOUR DECLARED VALUE (See note) 1 48 3,000 1 48 3,000	
Emp. No. Date Federal Express Use		Base Charges Declared Value Charge Other 1 Other 2 Total Charges	
City State Zip		City State Zip	
Received By:		Date/Time Received FedEx Employee Number	
DIM SHIPMENT (Chargeable Weight)		REVISION 04/6/92	

0025

LABORATORY CHAINS OF CUSTODY

CLIENT:
PROJECT ID:
P.O.#
SDG#:
IEA ID:

ROUX ASSOCIATES
AMTRAK SUNNYSIDE
05526Y
Z0060
30930-0060

0026



an environmental testing company

200 Monroe Turnpike
 Monroe, Connecticut 06468
 (203) 261-4458
 FAX (203) 268-5346

CHAIN OF CUSTODY
 ATOMIC SPECTROSCOPY DEPARTMENT

Job Number 030930 0060 Sample Numbers 001-004

WATER - SOIL - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep	<u>Benjamin E. Caulley</u>	<u>1-28-93</u>	ICP/FLME
	<u>Benjamin E. Caulley</u>	<u>1-28-93</u>	FURN
	<u>Benjamin E. Caulley</u>	<u>1-28-93</u>	MERCURY
	Chemist	Date(s)	

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis	<u>Diane Abate</u>	<u>2/19/93</u>	ICP
			FLAME
	<u>Shirley Michener</u>	<u>2/1-3,5,8/93</u>	FURN
	<u>Benjamin E. Caulley</u>	<u>1-28-93</u>	MERCURY
	Chemist	Date(s)	

I have reviewed and authorize the release of this job:

Complete	<u>Don Hill</u>	<u>2/23/93</u>
	Supervisor	Date

Batch Assignment _____



an environmental testing company

200 Monroe Turnpike
 Monroe, Connecticut 06468
 (203) 261-4458
 FAX (203) 268-5346

0027

CHAIN OF CUSTODY
 ATOMIC SPECTROSCOPY DEPARTMENT

Job Number 030930 0060 Sample Numbers 005

WATER - SOIL - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep	_____	_____	ICP/FLME
	_____	_____	FURN
	_____	_____	MERCURY
	<u>Benjamin D. Cullen</u>	<u>1-28-93</u>	
	Chemist	Date(s)	

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis	_____	_____	ICP
	_____	_____	FLAME
	_____	_____	FURN
	<u>Benjamin D. Cullen</u>	<u>1-28-93</u>	MERCURY
	Chemist	Date(s)	

I have reviewed and authorize the release of this job:

Complete	<u>Donald Hill</u>	<u>2/23/93</u>
	Supervisor	Date

Batch Assignment _____



an environmental testing company

200 Monroe Turnpike
 Monroe, Connecticut 06468
 (203) 261-4458
 FAX (203) 268-5346

0028

CHAIN OF CUSTODY
 ATOMIC SPECTROSCOPY DEPARTMENT

Job Number 030930 0060 Sample Numbers 005 reprep II

WATER - SOIL - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep	_____	_____	ICP/FLME
	_____	_____	FURN
	_____	_____	MERCURY
	<u>Jeff Nae</u>	<u>2/12/93</u>	
	Chemist	Date(s)	

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis	_____	_____	ICP
	_____	_____	FLAME
	_____	_____	FURN
	<u>Jeff Nae</u>	<u>2/12/93</u>	MERCURY
	Chemist	Date(s)	

I have reviewed and authorize the release of this job:

Complete	<u>David N. Hill</u>	<u>2/27/93</u>
	Supervisor	Date

Batch Assignment _____



an environmental testing company

200 Monroe Turnpike
Monroe, Connecticut 06468
(203) 261-4458
FAX (203) 268-5346

0029

CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT

Job Number 0060 Sample Numbers 006

WATER SOIL - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep	<u>Joseph Venezia</u>	<u>1/26/93</u>	ICP/FLME
	<u>Joseph Venezia</u>	<u>1/26/93</u>	FURN
	<u>Benjamin L. Cudde</u>	<u>2/2/93</u>	MERCURY
	Chemist	Date(s)	

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis	<u>Diamatate</u>	<u>2/22/93</u>	ICP
			FLAME
	<u>Shirley Mickens</u>	<u>2/1-3,5/93</u>	FURN
	<u>Benjamin L. Cudde</u>	<u>2/13/93</u>	MERCURY
	Chemist	Date(s)	

I have reviewed and authorize the release of this job:

Complete	<u>David R. Hill</u>	<u>2/25/93</u>
	Supervisor	Date

Batch Assignment

Inventory Number: 6
Seal: present / absent
Chain of Custody: present / absent
Tags: present / absent
Forms: present / absent

IEA, L. CT
Internal Chain of Custody Form

IEA Job #:
Case #:
Airbill #:
Sample #: 1-8
Location:

Sample Custodian: Date/Time:
(signature) (print)

Inventory Number	Removed By (Full Signature)	Date	Time	Reason	Returned By (Full Signature)	Date	Time	Returned To Ref. #
6	Pamela Bell	1/19	4pm	PCB EXT	Used			
5	B. Sullivan	1/19	10:50	BNA EXT	Remana Haligh	1/20	8:00	
5	Remana Haligh	1/21	9:00	PCB EXT	J. K. Sullivan	1/21	7:30	38
6	Remana Haligh	1/21	3:30	BNA EXT	USED			
1-4	Karen Zingewski	1/22	9:30	TS	Karen Zingewski	1/22	9:40	36
6	Joe Venezia	1/23	10:00	Metals Prep	Joe Venezia	1/23	11:00	U.B.
6	Joe Venezia	1/26	10:00	VOA	used			
6	Joe Venezia	1/26	18:00	Metals Prep	Joe Venezia	1/26	19:00	UB
10, 7	L. Sullivan	1/26	18:50	VOA	USED			
4, 5	B. Sullivan	1/28	9:00	Metals prep (1/2 prep)	Remana Haligh	1/28	5:00	SR
5, 6	Bradley B. L. Jr	1/28	9:00	GC SCREENING	Bradley B. L. Jr	1/28	11:00	
4, 6	Mike Crowe	1/29	12:04	BNA Anal	Mike Crowe	1/29	13:55	
6	B. Sullivan	2/1	10:30	1/2 prep	Remana Haligh	2/1	16:00	SR
4, 6	Mike Crowe	2/1	11:20	BNA Anal	Mike Crowe	2/1	15:33	

1/28 5:00 SR
1/28 11:00
1/29 13:55
2/1 16:00 SR
2/1 15:33
2/2 17:00 SR of
2/2 17:00
2/3 5:11
Dean Sullivan 2/3 5:11

ORGANIC DATA

CLIENT:
PROJECT ID:
P.O.#
SDG#:
IEA ID:

ROUX ASSOCIATES
AMTRAK SUNNYSIDE
05526Y
Z0060
30930-0060

0034

VOLATILE DATA

CLIENT:
PROJECT ID:
P.O.#
SDG#:
IEA ID:

ROUX ASSOCIATES
AMTRAK SUNNYSIDE
05526Y
Z0060
30930-0060

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

0035

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	FIELD BLANK	105	113	108		0
02	TRIP BLANK	102	107	106		0
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
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22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS

SMC1 (TOL) = Toluene-d8 (88-110)
 SMC2 (BFB) = Bromofluorobenzene (86-115)
 SMC3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

0036

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Level:(low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBKLG2	101	100	110		0
02	S-99	101	96	113		0
03	S-100	108	96	112		0
04	S-101	113	94	103		0
05	S-100MS	109	101	110		0
06	S-100MSD	114	99	112		0
07	MSBS-100	100	105	110		0
08	QCCHKSTD	103	108	112		0
09	S-102	111	100	117		0
10						
11						
12						
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16						
17						
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19						
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24						
25						
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27						
28						
29						
30						

QC LIMITS

SMC1 (TOL) = Toluene-d8 (84-138)
 SMC2 (BFB) = Bromofluorobenzene (59-113)
 SMC3 (DCE) = 1,2-Dichloroethane-d4 (70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

0037

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix Spike - EPA Sample No.: S-100

Level(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	56	0	96	171	59-172
Trichloroethene	56	0	56	100	62-137
Benzene	56	0	55	98	66-142
Toluene	56	2	49	84	59-139
Chlorobenzene	56	0	51	91	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
1,1-Dichloroethene	56	79	158	8	22	59-172
Trichloroethene	56	50	100	0	24	62-137
Benzene	56	54	108	10	21	66-142
Toluene	56	49	94	11	21	59-139
Chlorobenzene	56	49	98	7	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

142
01/31/93

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

0038

L Name: IEA/CT Contract: _____
Lab Code: IEACT Case No.: 00000 SAS No.: _____ SDG No.: 20000
Matrix Spike - EPA Sample No.: MSBS-100 Level: (low/med) low

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MSB CONCENTRATION (ug/Kg)	MSB % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	80	160*	59-172
Trichloroethene		0	54	108	62-137
Benzene		0	52	104	66-142
Toluene		0	43	82	59-139
Chlorobenzene		0	47	94	60-133

75-125

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
1,1-Dichloroethene					22	59-172
Trichloroethene					24	62-137
Benzene					21	66-142
Toluene					21	59-139
Chlorobenzene					21	60-133

Column to be used to flag recovery and RPD values with an asterisk.

* Values outside of QC limits

PKS 01/29/93

RPD: _____ out of _____ outside limits
Spike Recovery: 1 out of 5 outside limits

COMMENTS: _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKG2

0039

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Lab File ID: G3850.D

Lab Sample ID: VBLKG2

Date Analyzed: 01/26/93

Time Analyzed: 1027

GC Column:007-624 ID: 0.53 (mm)

Heated Purge: (Y/N) Y

Instrument ID: HP5995G

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	S-99	0060001	G3851.D	1123
02	S-100	0060002	G3852.D	1157
03	S-101	0060003	G3853.D	1232
04	S-100MS	0060002MS	G3855.D	1341
05	S-100MSD	0060002MSD	G3856.D	1415
06	MSBS-100	0060002MSB	G3857.D	1450
07	QCCHKSTD	0060002STD	G3858.D	1524
08	S-102	0060004	G3859.D	1559
09	FIELDBLANK	0060006	G3864.D	2006
10	TRIPBLANK	0060007	G3865.D	2041
11				
12				
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28				
29				
30				

COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

0040

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Lab File ID: GB273.D

BFB Injection Date: 01/25/93

Instrument ID: HP5995G

BFB Injection Time: 2302

GC Column: 007-624 ID: 0.53 (mm)

Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.3
75	30.0 - 66.0% of mass 95	45.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.7
173	Less than 2.0% of mass 174	0.4 (0.6)1
174	50.0 - 120.0% of mass 95	73.9
175	4.0 - 9.0% of mass 174	6.0 (8.1)1
176	93.0 - 101.0% of mass 174	71.9 (97.2)1
177	5.0 - 9.0% of mass 176	5.0 (6.9)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	VSTD010	G3842.D	01/25/93	2353
02	VSTD020	VSTD020	G3843.D	01/26/93	0032
03	VSTD050	VSTD050	G3844.D	01/26/93	0106
04	VSTD100	VSTD100	G3845.D	01/26/93	0143
05	VSTD200	VSTD200	G3847.D	01/26/93	0251
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

0041

Lab Name: IEA/CT Contract:
Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060
Lab File ID: GB275.D BFB Injection Date: 01/26/93
Instrument ID: HP5995G BFB Injection Time: 0859
GC Column: 007-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	25.7
75	30.0 - 66.0% of mass 95	52.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	67.5
175	4.0 - 9.0% of mass 174	4.0 (5.0) 1
176	93.0 - 101.0% of mass 174	65.6 (97.3) 1
177	5.0 - 9.0% of mass 176	4.0 (5.2) 2

2.40
0.131/2

5.7
95.8
5.9

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	G3849.D	01/26/93	0933
02	VBLKG2	VBLKG2	G3850.D	01/26/93	1027
03	S-99	0060001	G3851.D	01/26/93	1123
04	S-100	0060002	G3852.D	01/26/93	1157
05	S-101	0060003	G3853.D	01/26/93	1232
06	S-100MS	0060002MS	G3855.D	01/26/93	1341
07	S-100MSD	0060002MSD	G3856.D	01/26/93	1415
08	MSBS-100	0060002MSB	G3857.D	01/26/93	1450
09	QCCHKSTD	0060002STD	G3858.D	01/26/93	1524
10	S-102	0060004	G3859.D	01/26/93	1559
11	FIELDBLANK	0060006	G3864.D	01/26/93	2006
12	TRIPBLANK	0060007	G3865.D	01/26/93	2041
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

INSTRUMENT DETECTION LIMITS

Page 1 of 1

Instrument G
Date: 07/08/92

UNITS: UG/L

IDL

Chloromethane	4
Bromomethane	2
Vinyl Chloride	2
Chloroethane	2
Methylene Chloride	3
Acetone	4
Carbon Disulfide	2
1,1-Dichloroethene	2
1,1-Dichloroethane	2
1,2-Dichloroethene (total)	5
Chloroform	3
1,2-Dichloroethane	3
2-Butanone	2
1,1,1-Trichloroethane	3
Carbon Tetrachloride	3
Vinyl Acetate	2
Bromodichloromethane	3
1,2-Dichloropropane	3
cis-1,3-Dichloropropene	4
Trichloroethene	3
Dibromochloromethane	2
1,1,2-Trichloroethane	3
Benzene	3
trans-1,3-Dichloropropene	1
Bromoform	3
2-Methyl-2-Pentanone	1
2-Hexanone	2
Tetrachloroethene	3
1,1,2,2-Tetrachloroethane	3
Toluene	3
Chlorobenzene	3
Ethylbenzene	3
Styrene	3
Xylene (total)	2

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0043

Lab Name: IEA/CT Contract:
Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060
Lab File ID (Standard): G3849.D Date Analyzed: 01/26/93
Instrument ID: HP5995G Time Analyzed: 0933
GC Column: 007-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
12 HOUR STD	25974	10.84	181237	13.30	143140	20.41
UPPER LIMIT	51948	11.34	362474	13.80	286280	20.91
LOWER LIMIT	12987	10.34	90618	12.80	71570	19.91
EPA SAMPLE No.						
01 VBLKG2	24084	10.84	193377	13.27	151932	20.45
02 S-99	24415	10.81	193980	13.22	142336	20.41
03 S-100	18409	10.82	132558	13.25	94561	20.44
04 S-101	19667	10.82	124451	13.23	77483	20.42
05 S-100MS	20193	10.84	145599	13.27	100777	20.37
06 S-100MSD	19366	10.85	143999	13.31	96727	20.53
07 MSBS-100	23182	10.92	182308	13.35	142171	20.51
08 QCCHKSTD	23017	10.76	178605	13.25	140054	20.48
09 S-102	18671	10.79	147310	13.23	105239	20.53
10 FIELDBLANK	23837	10.85	188674	13.29	135456	20.52
11 TRIPBLANK	23356	10.78	177456	13.27	134384	20.44
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-99

Lab Name: IEA/CT

Contract: 0044

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix: (soil/water) SOIL

Lab Sample ID: 0060001

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: G3851.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: not dec. 9

Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (mL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	11	U
74-83-9-----	Bromomethane	11	U
75-01-4-----	Vinyl Chloride	11	U
75-00-3-----	Chloroethane	11	U
75-09-2-----	Methylene Chloride	10	JB
67-64-1-----	Acetone	11	B
75-15-0-----	Carbon Disulfide	11	U
75-35-4-----	1,1-Dichloroethene	11	U
75-34-3-----	1,1-Dichloroethane	11	U
540-59-0-----	1,2-Dichloroethene (total)	11	U
67-66-3-----	Chloroform	11	U
107-06-2-----	1,2-Dichloroethane	11	U
78-93-3-----	2-Butanone	11	U
71-55-6-----	1,1,1-Trichloroethane	11	U
56-23-5-----	Carbon Tetrachloride	11	U
75-27-4-----	Bromodichloromethane	11	U
78-87-5-----	1,2-Dichloropropane	11	U
10061-01-5-----	cis-1,3-Dichloropropene	11	U
79-01-6-----	Trichloroethene	11	U
124-48-1-----	Dibromochloromethane	11	U
79-00-5-----	1,1,2-Trichloroethane	11	U
71-43-2-----	Benzene	11	U
10061-02-6-----	trans-1,3-Dichloropropene	11	U
75-25-2-----	Bromoform	11	U
108-10-1-----	4-Methyl-2-Pentanone	11	U
591-78-6-----	2-Hexanone	11	U
127-18-4-----	Tetrachloroethene	11	U
79-34-5-----	1,1,2,2-Tetrachloroethane	11	U
108-88-3-----	Toluene	2	JB
108-90-7-----	Chlorobenzene	11	U
100-41-4-----	Ethylbenzene	11	U
100-42-5-----	Styrene	11	U
1330-20-7-----	Xylene (total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-99

0045

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix: (soil/water) SOIL

Lab Sample ID: 0060001

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: G3851.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: not dec. 9

Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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30.				

0046

QUANT REPORT

Operator ID: MSG
Output File: ^G3851::QT
Data File: >G3851::G3
Name: 0060;;;S-99
Misc: 0060001

Quant Rev: 6 Quant Time: 930126 11:52
 Injected at: 930126 11:23
 Dilution Factor: 1.10000
HP5995:G;;;LLS;DF1 ;G1900

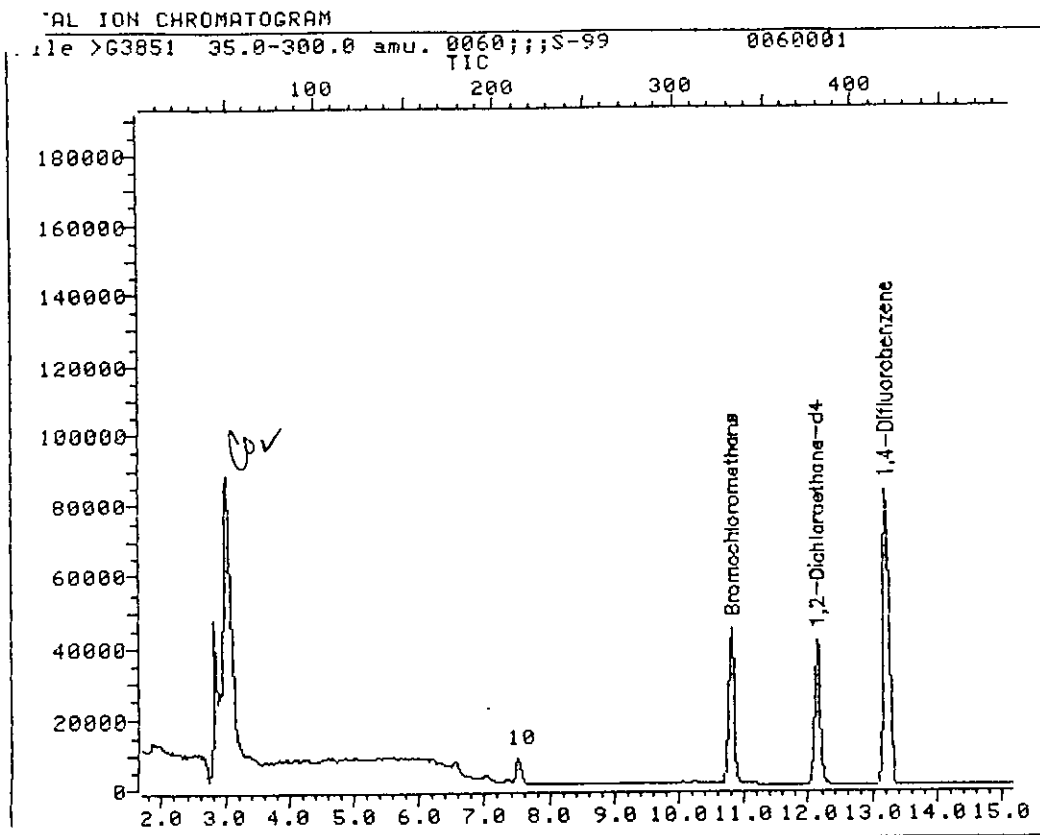
ID File: I_IFGS::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930126 10:13

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.81	127.8	24415	50.00	ug/kg	71
10)	Methylene Chloride	7.53	83.8	7740	9.84	ug/kg	89
13)	Acetone	6.56	42.8	11507	11.51	ug/kg	93
30)	1,2-Dichloroethane-d4	12.14	64.8	96173	61.96	ug/kg	92
34)	*1,4-Difluorobenzene	13.22	113.8	193980	50.00	ug/kg	98
53)	*Chlorobenzene-d5	20.41	116.8	142336	50.00	ug/kg	88
60)	Toluene	17.12	91.0	7922	1.58	ug/kg	94
61)	Toluene-d8	16.92	97.8	199415	55.60	ug/kg	95
91)	Bromofluorobenzene	22.68	94.8	94863	52.85	ug/kg	82

* Compound is ISTD

KW2
1/28/93

0047



Data File: >G3851::G3

Quant Output File: ^G3851::QT

Name: 0060;;;S-99

Misc: 0060001

HP5995:G;;;LLS;DF1 ;G1900

Id File: I_IFGS::N1

Title: PURGEABLE ORGANIC COMPOUNDS

Last Calibration: 930126 10:13

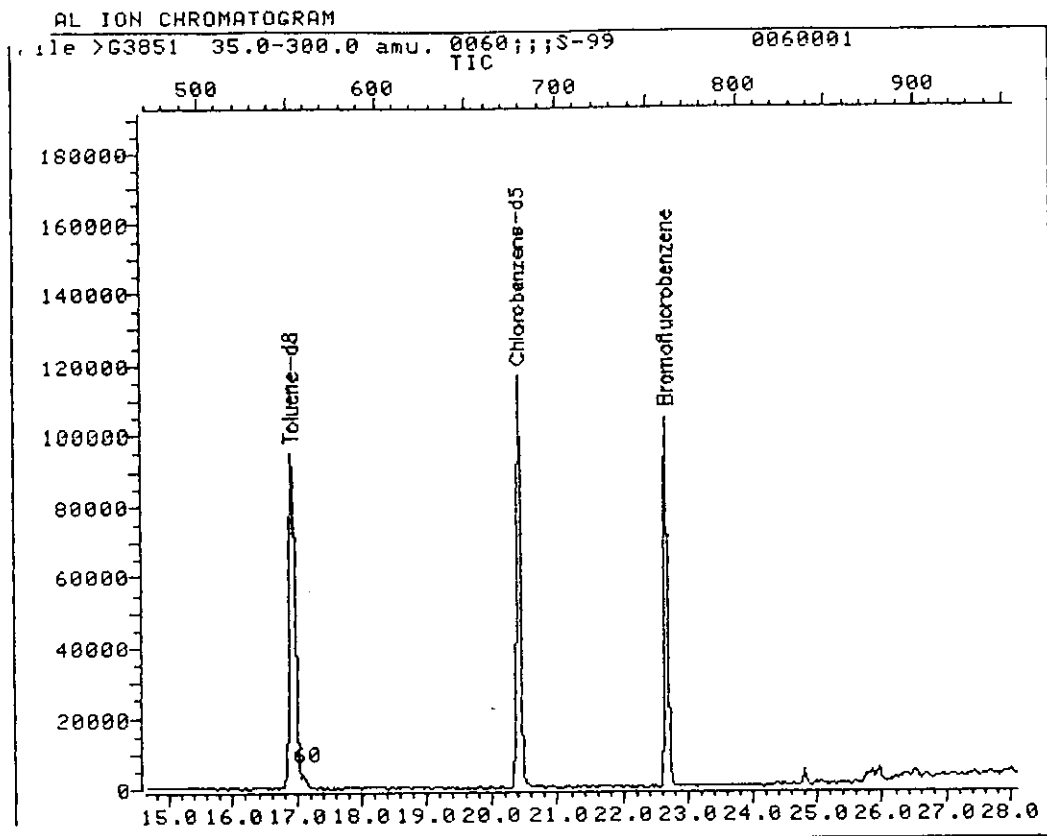
Operator ID: MSG

Quant Time: 930126 11:52

Injected at: 930126 11:23

TIC page 1 of 2

0048



Data File: >G3851::G3

Quant Output File: ^G3851::QT

Name: 0060;;;S-99

Misc: 0060001

HP5995:G;;;LLS;DF1 ;G1900

Id File: I_IFGS::N1

Title: PURGEABLE ORGANIC COMPOUNDS

Last Calibration: 930126 10:13

Operator ID: MSG

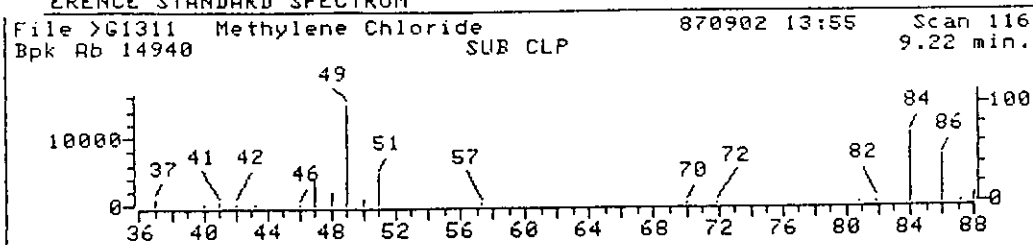
Quant Time: 930126 11:52

Injected at: 930126 11:23

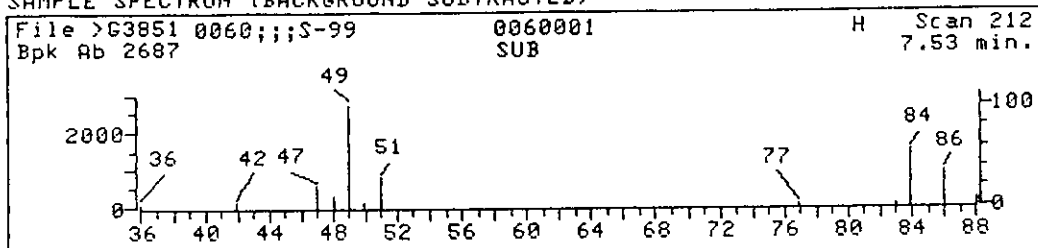
TIC page 2 of 2

0049

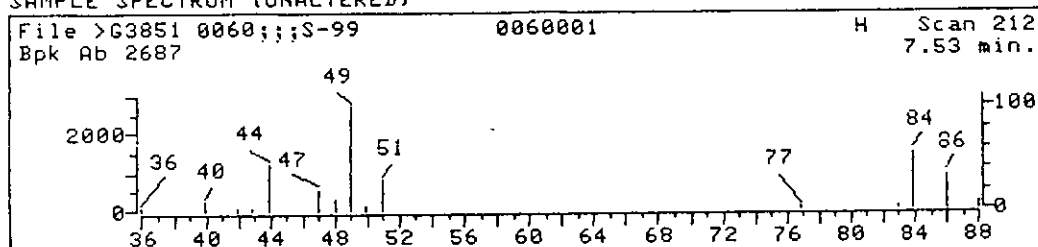
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >G3851::G3

Quant Output File: ^G3851::QT

Name: 0060;;;S-99

Misc: 0060001

HP5995:G;;;LLS;DF1 ;G1900

Quant Time: 930126 11:52

Quant ID File: I_IFGS::N1

Injected at: 930126 11:23

Last Calibration: 930126 10:13

Compound No: 10

Compound Name: Methylene Chloride

Scan Number: 212

Retention Time: 7.53 min.

Quant Ion: 83.8

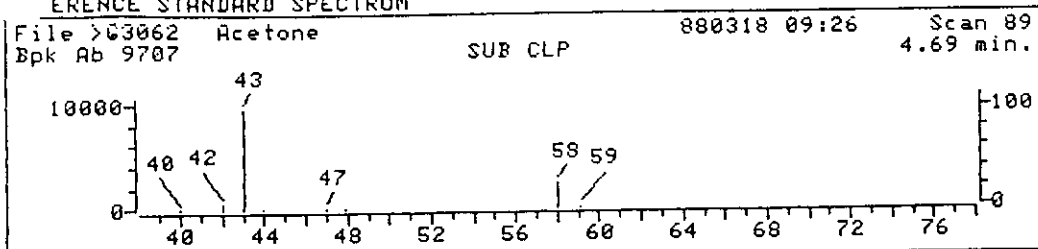
Area: 7740

Concentration: 9.84 ug/kg

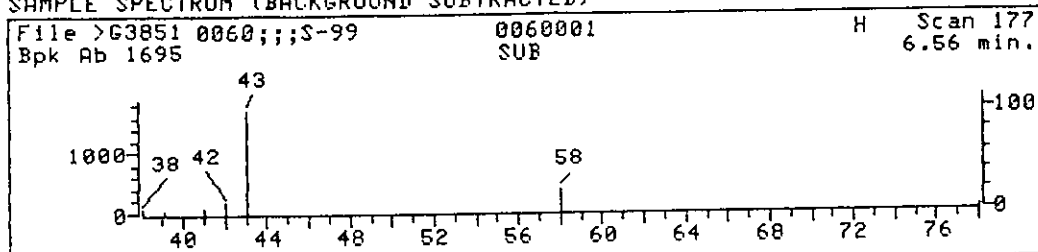
q-value: 89

0050

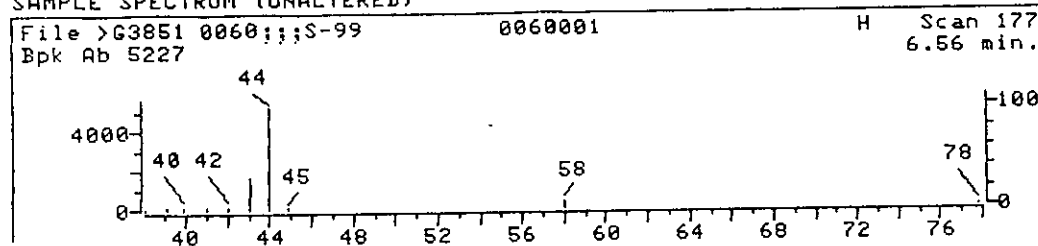
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >G3851::G3

Quant Output File: ^G3851::QT

Name: 0060;;;S-99

HP5995:G;;;LLS;DF1 ;G1900

Misc: 0060001

Quant ID File: I_IFGS::N1

Quant Time: 930126 11:52

Last Calibration: 930126 10:13

Injected at: 930126 11:23

Compound No: 13

Compound Name: Acetone

Scan Number: 177

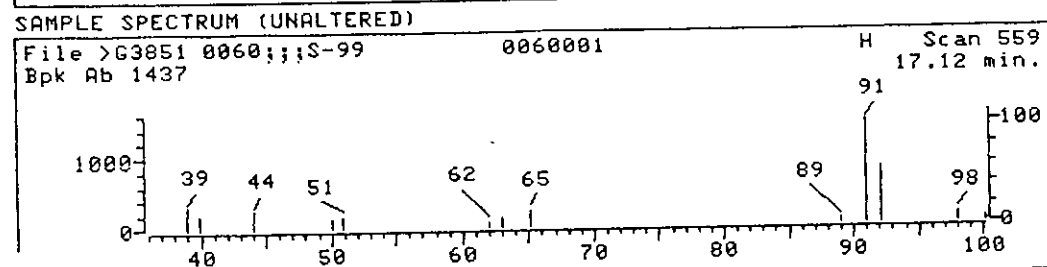
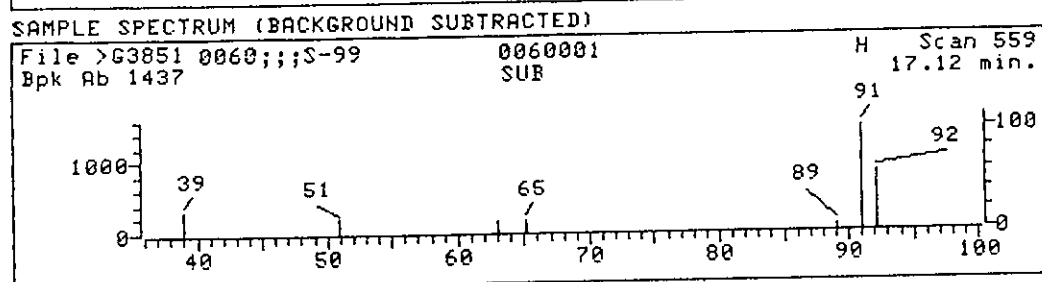
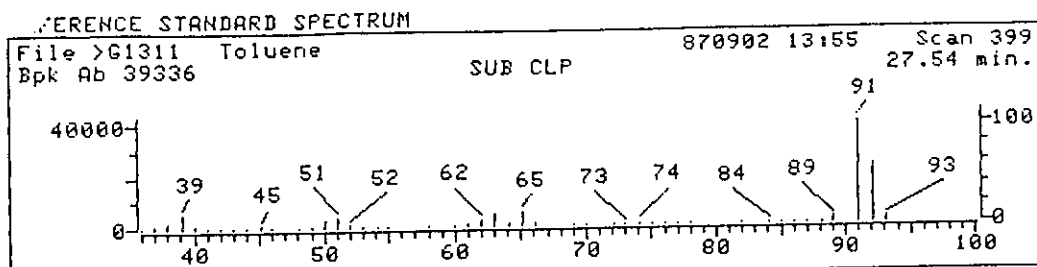
Retention Time: 6.56 min.

Quant Ion: 42.8

Area: 11507

Concentration: 11.51 ug/kg

q-value: 93



Data File: >G3851::G3
Name: 0060;;;S-99
Misc: 0060001
Quant Time: 930126 11:52
Injected at: 930126 11:23

Quant Output File: ^G3851::QT
HP5995:G;;;LLS;DF1 ;G1900
Quant ID File: I_IFGS::N1
Last Calibration: 930126 10:13

Compound No: 60
Compound Name: Toluene
Scan Number: 559
Retention Time: 17.12 min.
Quant Ion: 91.0
Area: 7922
Concentration: 1.58 ug/kg
q-value: 94

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-100

0052

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix: (soil/water) SOIL

Lab Sample ID: 0060002

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: G3852.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: not dec. 11

Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

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

74-87-3	-----Chloromethane	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	11	U
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	7	JB
67-64-1	-----Acetone	27	B
75-15-0	-----Carbon Disulfide	11	U
75-35-4	-----1,1-Dichloroethene	11	U
75-34-3	-----1,1-Dichloroethane	11	U
540-59-0	-----1,2-Dichloroethene (total)	11	U
67-66-3	-----Chloroform	11	U
107-06-2	-----1,2-Dichloroethane	11	U
78-93-3	-----2-Butanone	11	U
71-55-6	-----1,1,1-Trichloroethane	11	U
56-23-5	-----Carbon Tetrachloride	11	U
75-27-4	-----Bromodichloromethane	11	U
78-87-5	-----1,2-Dichloropropane	11	U
10061-01-5	-----cis-1,3-Dichloropropene	11	U
79-01-6	-----Trichloroethene	11	U
124-48-1	-----Dibromochloromethane	11	U
79-00-5	-----1,1,2-Trichloroethane	11	U
71-43-2	-----Benzene	11	U
10061-02-6	-----trans-1,3-Dichloropropene	11	U
75-25-2	-----Bromoform	11	U
108-10-1	-----4-Methyl-2-Pentanone	11	U
591-78-6	-----2-Hexanone	11	U
127-18-4	-----Tetrachloroethene	11	U
79-34-5	-----1,1,2,2-Tetrachloroethane	11	U
108-88-3	-----Toluene	2	JB
108-90-7	-----Chlorobenzene	11	U
100-41-4	-----Ethylbenzene	11	U
100-42-5	-----Styrene	11	U
1330-20-7	-----Xylene (total)	11	U

11/4 U JB

UAD
01/26/93

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. **0053**
S-100

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix: (soil/water) SOIL

Lab Sample ID: 0060002

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: G3852.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: not dec. 11

Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 2
MS 01/29/93

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown ALCOHOL	7.03	9	99
2.	unknown ALKANE	24.87	9	99
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
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30.				

0054

QUANT REPORT

Operator ID: MSG
Output File: ^G3852::QT
Data File: >G3852::G3
Name: 0060;;;S-100
Misc: 0060002

Quant Rev: 6 Quant Time: 930126 12:26
 Injected at: 930126 11:57
 Dilution Factor: 1.12000
HP5995:G;;;LLS;DF1 ;G1900

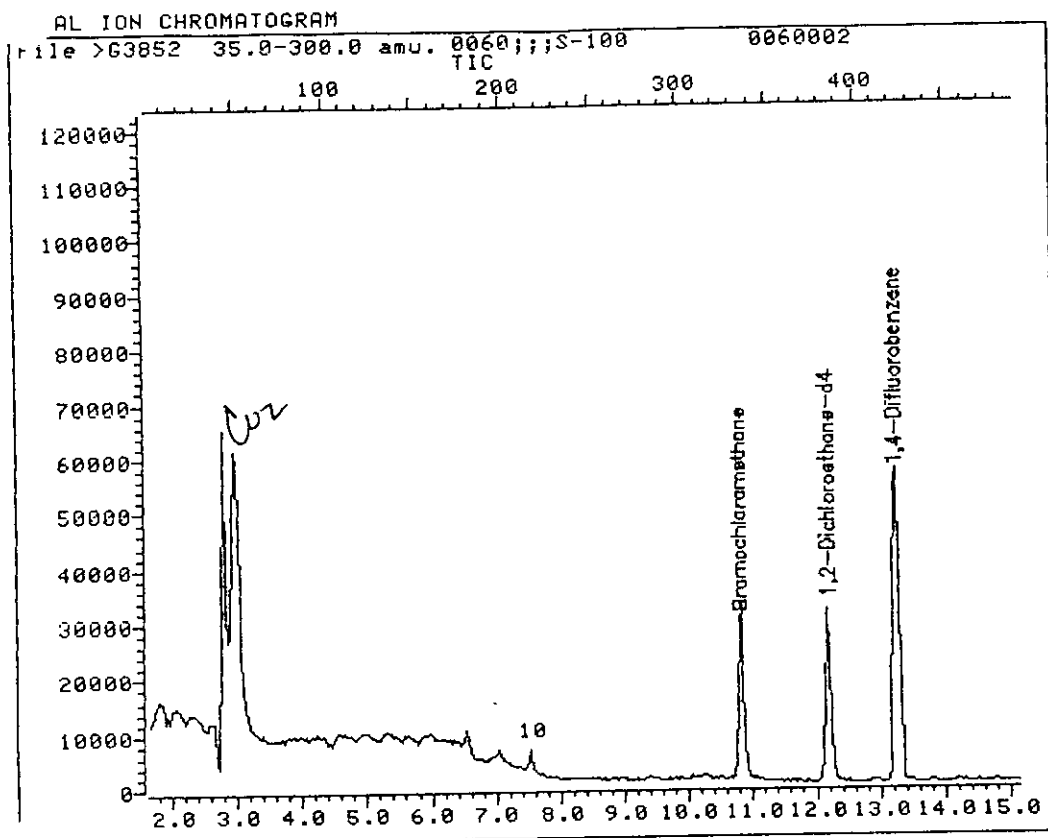
ID File: I_IFGS::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930126 10:13

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.82	127.8	18409	50.00	ug/kg	75
✓10)	Methylene Chloride	7.53	83.8	4058	6.97	ug/kg	90
✓13)	Acetone	6.56	42.8	20223	27.32	ug/kg	97
✓24)	2-Butanone	10.26	43.0	4031	3.91	ug/kg	99
30)	1,2-Dichloroethane-d4	12.20	64.8	72318	62.92	ug/kg	94
34)	*1,4-Difluorobenzene	13.25	113.8	132558	50.00	ug/kg	99
53)	*Chlorobenzene-d5	20.44	116.8	94561	50.00	ug/kg	81
✓60)	Toluene	17.12	91.0	6415	1.96	ug/kg	91
61)	Toluene-d8	16.95	97.8	142076	60.71	ug/kg	97
91)	Bromofluorobenzene	22.68	94.8	63283	54.03	ug/kg	97

Compound is ISTD

KML
1/28/93

0055



Data File: >G3852::G3

Quant Output File: ^G3852::QT

Name: 0060;;;S-100

HP5995:G;;;LLS;DF1 ;G1900

Misc: 0060002

Id File: I_IFGS::N1

Title: PURGEABLE ORGANIC COMPOUNDS

Last Calibration: 930126 10:13

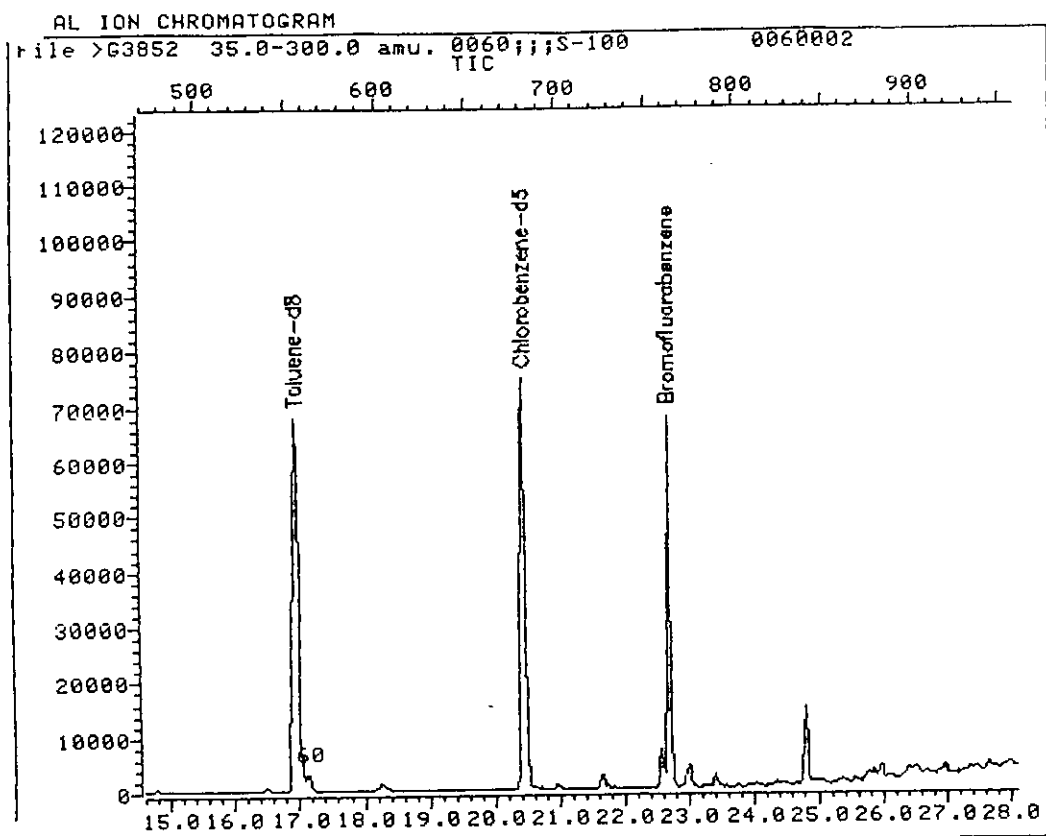
Operator ID: MSG

Quant Time: 930126 12:26

Injected at: 930126 11:57

TIC page 1 of 2

0056



Data File: >G3852::G3

Quant Output File: ^G3852::QT

Name: 0060;;;S-100

Misc: 0060002

HP5995:G;;;LLS;DF1 ;G1900

Id File: I_IFGS::N1

Title: PURGEABLE ORGANIC COMPOUNDS

Last Calibration: 930126 10:13

Operator ID: MSG

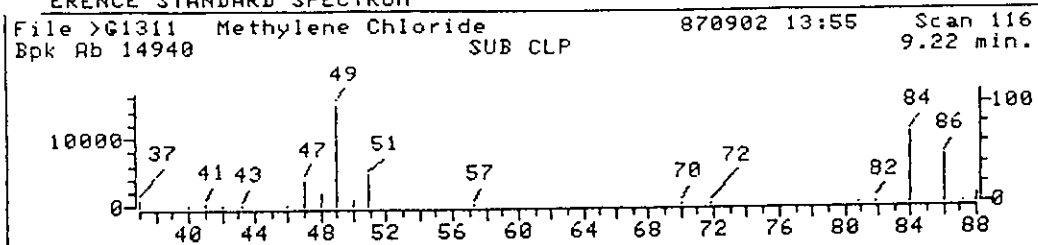
Quant Time: 930126 12:26

Injected at: 930126 11:57

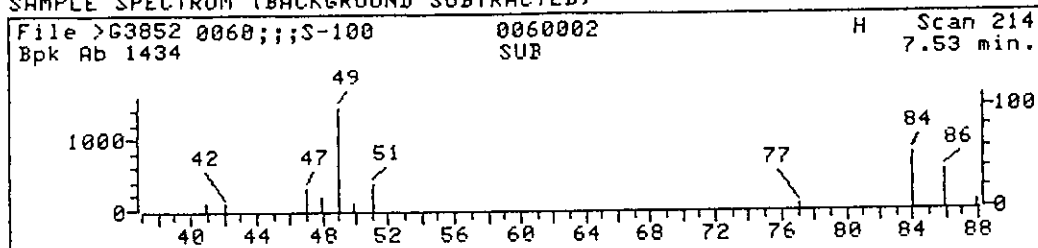
TIC page 2 of 2

0057

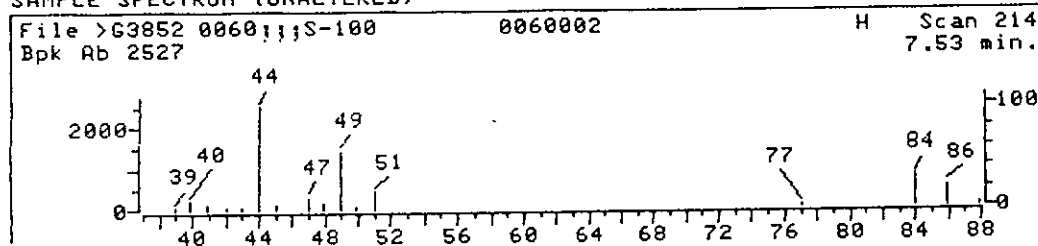
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >G3852::G3

Quant Output File: ^G3852::QT

Name: 0060;;;S-100

Misc: 0060002

HP5995:G;;;LLS;DF1 ;G1900

Quant Time: 930126 12:26

Quant ID File: I_IFGS::N1

Injected at: 930126 11:57

Last Calibration: 930126 10:13

Compound No: 10

Compound Name: Methylene Chloride

Scan Number: 214

Retention Time: 7.53 min.

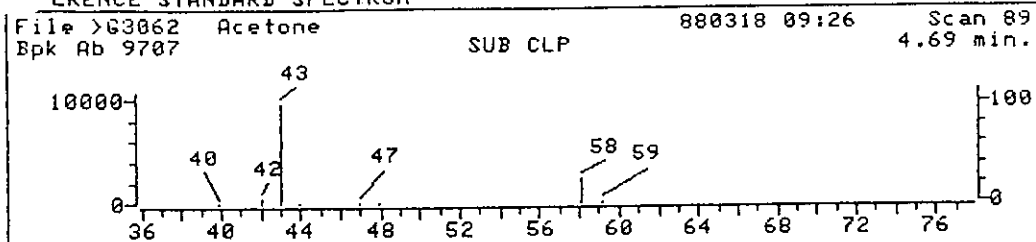
Quant Ion: 83.8

Area: 4058

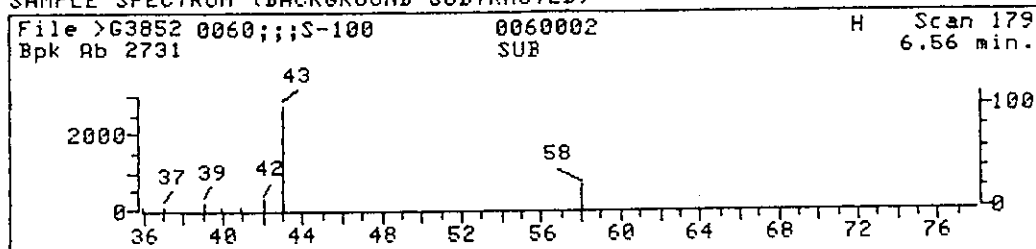
Concentration: 6.97 ug/kg

q-value: 90

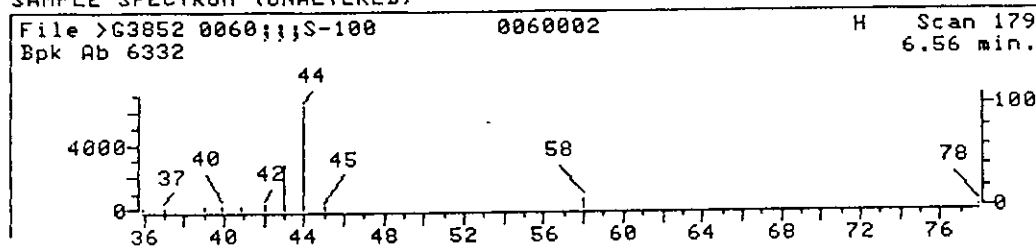
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

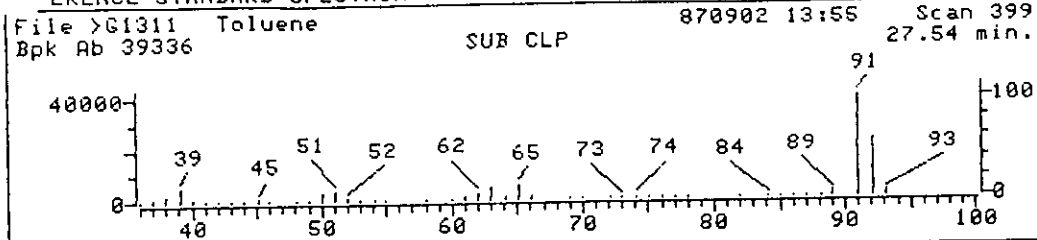


Data File: >G3852::G3
Name: 0060;;;S-100
Misc: 0060002
Quant Time: 930126 12:26
Injected at: 930126 11:57

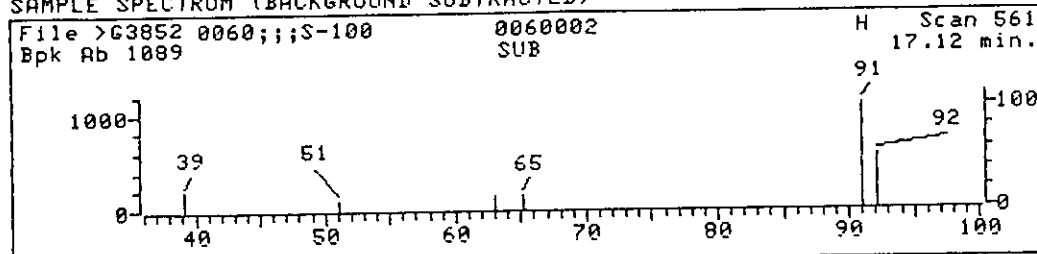
Quant Output File: ^G3852::QT
HP5995:G;;;LLS;DF1 ;G1900
Quant ID File: I_IFGS::N1
Last Calibration: 930126 10:13

Compound No: 13
Compound Name: Acetone
Scan Number: 179
Retention Time: 6.56 min.
Quant Ion: 42.8
Area: 20223
Concentration: 27.32 ug/kg
q-value: 97

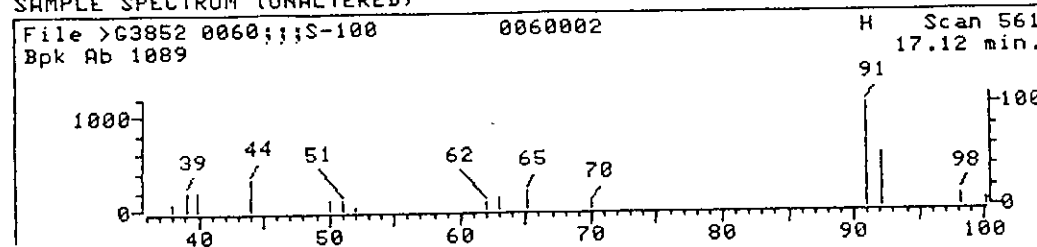
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >G3852::G3
Name: 0060;;;S-100
Misc: 0060002
Quant Time: 930126 12:26
Injected at: 930126 11:57

Quant Output File: ^G3852::QT
HP5995:G;;;LLS;DF1 ;G1900
Quant ID File: I_IFGS::N1
Last Calibration: 930126 10:13

Compound No: 60
Compound Name: Toluene
Scan Number: 561
Retention Time: 17.12 min.
Quant Ion: 91.0
Area: 6415
Concentration: 1.96 ug/kg
q-value: 91

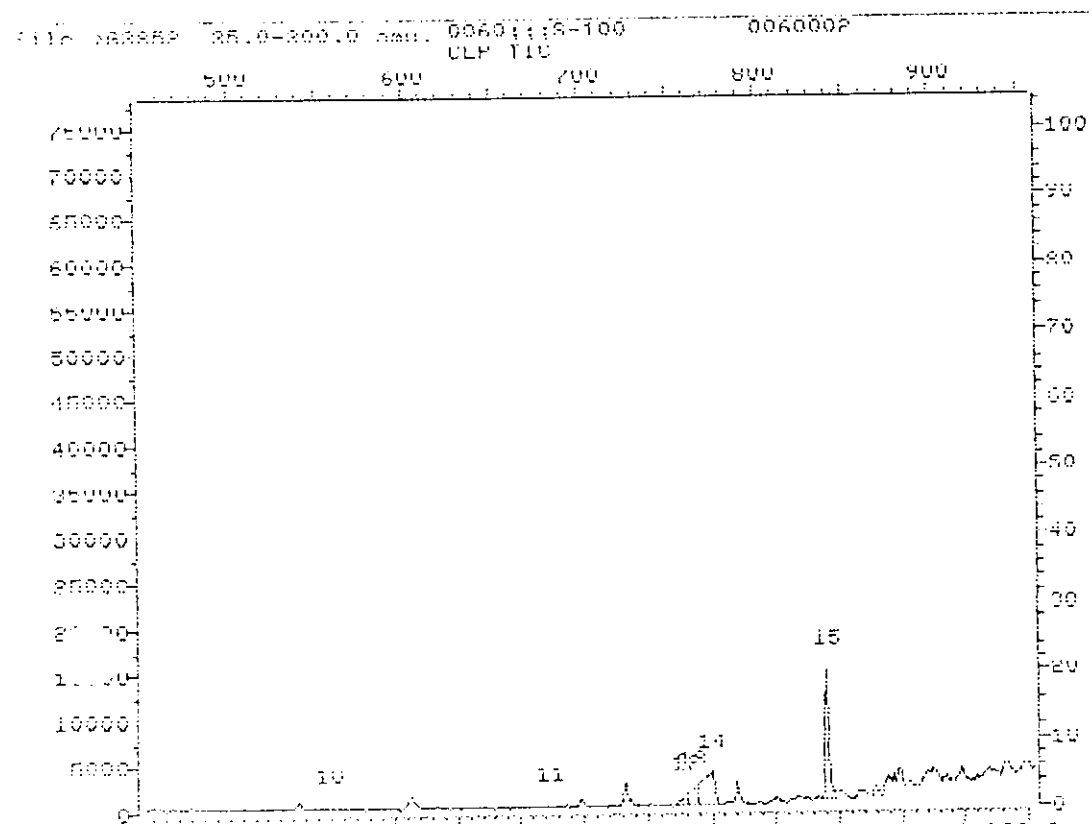
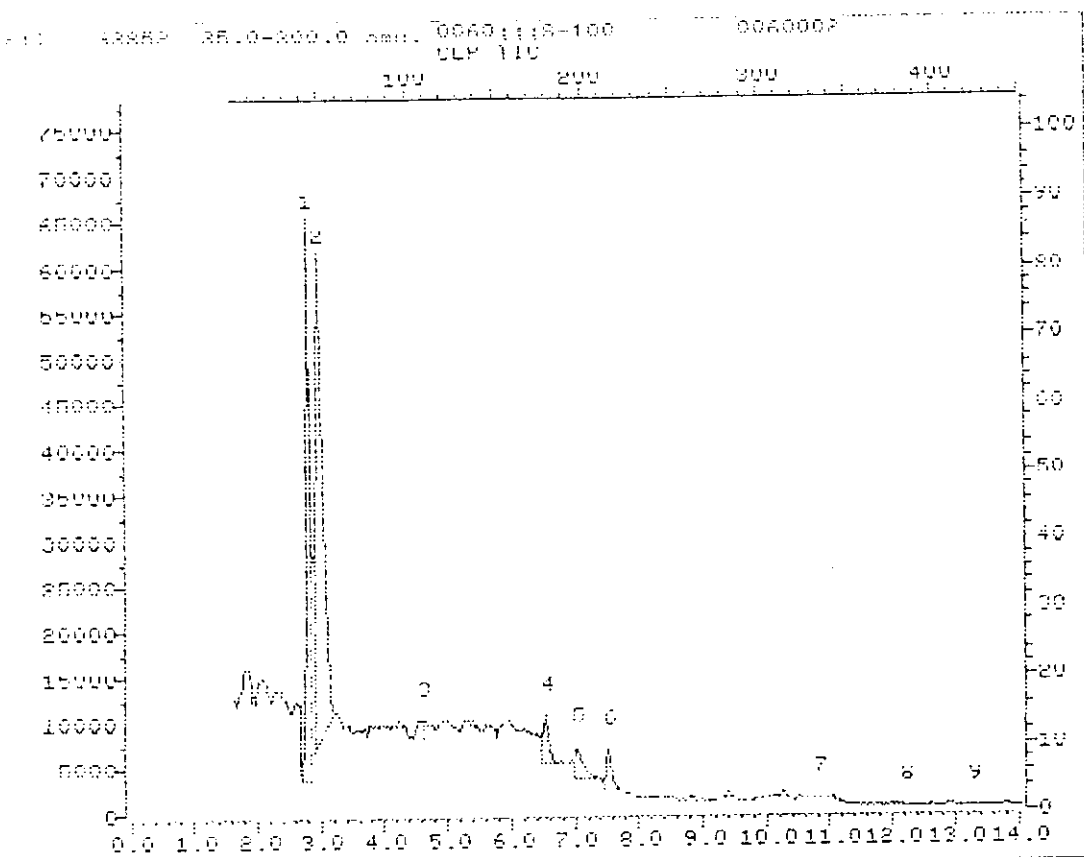
0060

MS Data File header from : 2153852

Sample: 0060111;S-1000 Operator: MSG MS 1/26/93 11:57
File: 00600002 HP599516111LS10F1 ;R1900
Sys. #: 2 MS model: 96 SM/HW rev.: 1A ALS #: 0
Method File: M 100AF Tuning File: 1 R No. of extra records: 2
Source temp.: 224 Analyzer temp.: 240 Transfer line temp.: 185

Chromatographic temperatures :	30.	100.	200.	0.	0.
Chromatographic times, min. :	4.0	0.0	3.8	0.0	0.0
Chromatographic rate, deg/min:	5.0	12.0	0.0	0.0	0.0

0061



S-100

01/20/93

11:57

HP59956

0062

I I D P E A K R E P O R T

PK#	R.T.	Total Area	Est Conc.	Assoc ISTD	DF
1.	2.92	482052.	138.	1.	1.12
2.	2.80	228443.	24.	1.	1.12
3.	2.83	22805.	9.	1.	1.12
15.	24.81	55429.	9.	3.	1.12
16.	4.60	18100.	6.	1.	1.12

I N T E R N A L S T D A R E A R E P O R T

ISTD Compound Name	RI	Area	RI Range	11/51
BROMOCHLOROMETHANE	10.84	123113.	0.88 12.86	9.4
1,4-DICHLOROBENZENE	13.28	359698.	12.06 16.86	2.2
CHLOROBENZENE-D5	20.44	339253.	16.86 24.81	3.6

ISTD peaks found: 3
 Surrogate peaks found: 3
 Quant target peaks expected: 3
 Target peaks matched: 2
 Total IID identified: 5

TIME : 9:27 AM WED., 27 JAN., 1993

S-100
 61/26693
 11:57
 HP5995G

0063

RPN 1005

Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RSH63

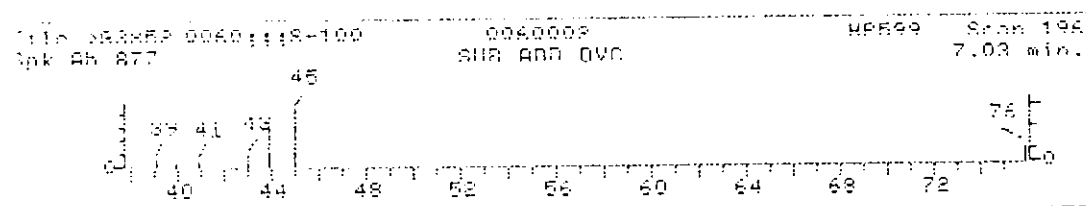
RPN error: -5

ad record length RSH

Sample file: >G3852 Spectrum #: 196

No data base entries were retrieved.

Peak#: 5 Area: 278115. Est Conc: 9. Date: 01/26/93 11:57 Inst: G



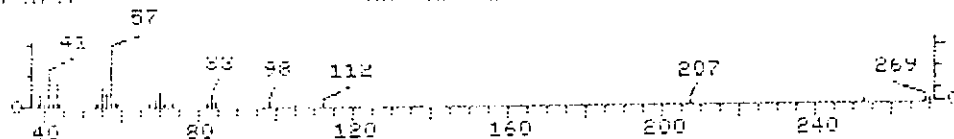
1. 1-Octyn-3-ol, 4-ethyl- (801901) 154 C18H18O
2. 1-Pentene, 4,4-dimethyl- (801901) 98 C7H14
3. Heptane, 2-bromo- (801901) 128 C7H15Br
4. 1-Octanol, 5,2,2-trimethyl-2-(1,3,3-trimethylbutyl)- (901) 270 C18H38O

Sample File: >03852 Spectrum #: 859
 Search speed: 3 Filtering option: S No. of ion ranges searched: 99

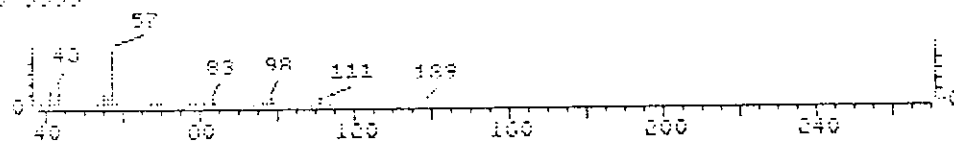
	Peak#	CAS #	CHN #	RMH	K	OK	#SIG	INT	%	CHN	C	H	R	O
1.	41	5827429	8509	"BIGOR	37	49	2	0	100	24	12	12		
2.	52*	262629	1183	"BIGOR	42	34	1	0	86	36	14	24		
3.	51	1974045	1201	"BIGOR	41	43	2	0	70	33	12	14		
4.	51*	36400983	1228	"BIGOR	25	91	2	0	93	35	12	14		

Peak#: 15 Area: 55429. Est Conc: 9. Date: 01/26/93 11:57 Inst: G

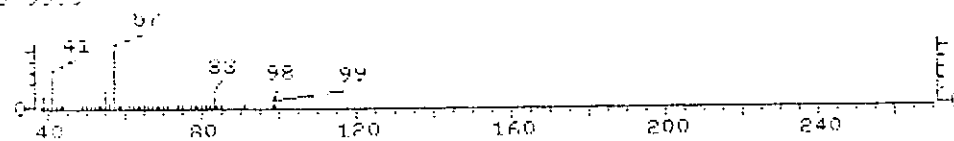
File 003852 0060118-100 0060000 HP599 Scan 859
 Spk AB 0712 SUB ADD DVC 24.81 min.



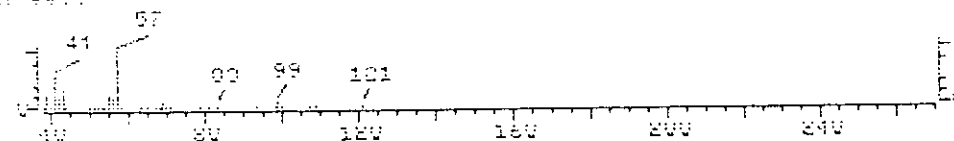
File 001008 1-Octyn 3-ol, 4-ethyl- (801901) Scan 8500
 Spk AB 0000 0.00 min.



File 001008 1-Pentene, 4,4-dimethyl- (801901) Scan 1183
 Spk AB 9999 0.00 min.



File 001008 Heptane, 2-Bromo- (801901) Scan 1891
 Spk AB 9999 0.00 min.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-101

Lab Name: IEA/CT

Contract: 0065

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix: (soil/water) SOIL

Lab Sample ID: 0060003

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: G3853.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: not dec. 14

Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (mL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	6	JB
67-64-1-----	Acetone	19	B
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Dibromochloromethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-Pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	12	U
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-88-3-----	Toluene	1	JB
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	12	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylene (total)	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-101

Lab Name: IEA/CT

Contract: 0066

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix: (soil/water) SOIL

Lab Sample ID: 0060003

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: G3853.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: not dec. 14

Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

0067

QUANT REPORT

Operator ID: MSG
Output File: ^G3853::QT
Data File: >G3853::G3
Name: 0060;;;S-101
Misc: 0060003

Quant Rev: 6 Quant Time: 930126 13:01
 Injected at: 930126 12:32
 Dilution Factor: 1.16000
HP5995:G;;;LLS;DF1 ;G1900

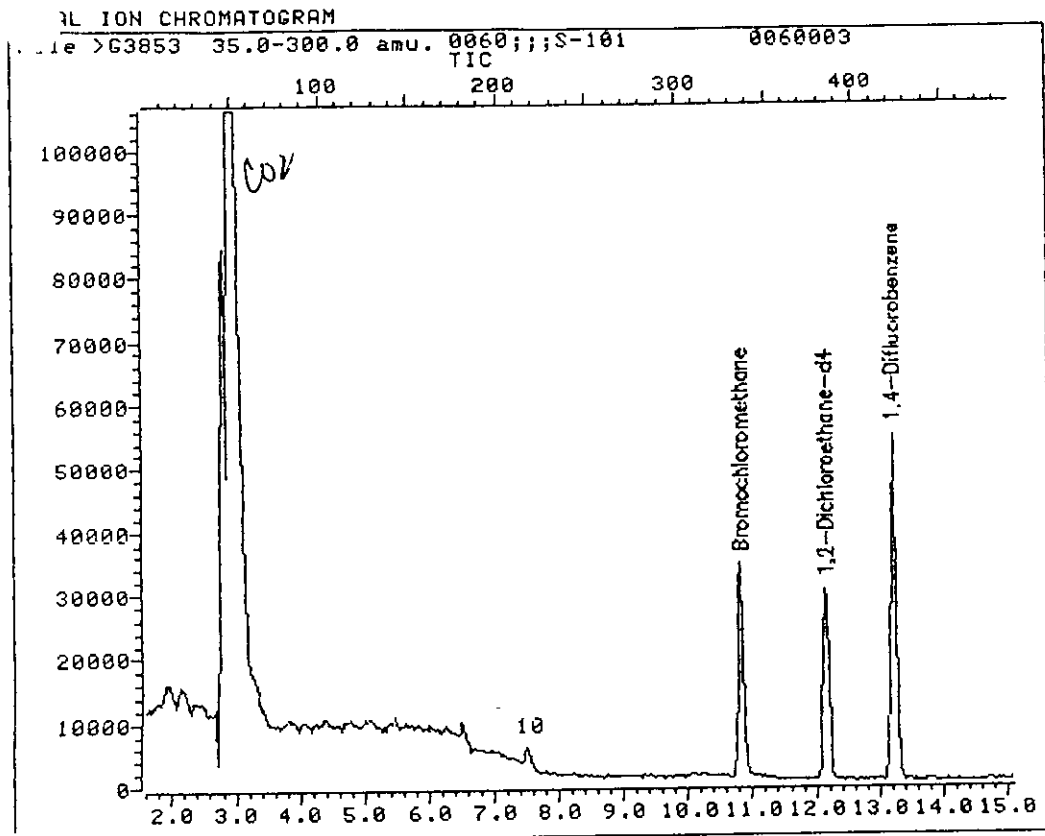
ID File: I_IFGS::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930126 10:13

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.82	127.8	19667	50.00	ug/kg	68
10)	Methylene Chloride	7.51	83.8	3609	6.01	ug/kg	92
13)	Acetone	6.54	42.8	14254	18.67	ug/kg	96
30)	1,2-Dichloroethane-d4	12.15	64.8	70698	59.63	ug/kg	90
34)	*1,4-Difluorobenzene	13.23	113.8	124451	50.00	ug/kg	98
53)	*Chlorobenzene-d5	20.42	116.8	77483	50.00	ug/kg	87
60)	Toluene	17.10	91.0	2895	1.12	ug/kg	90
61)	Toluene-d8	16.93	97.8	121619	65.69	ug/kg	94
91)	Bromofluorobenzene	22.69	94.8	50649	54.66	ug/kg	96

* Compound is ISTD

Km2
1/28/93

0068



Data File: >G3853::G3
Name: 0060;;;S-101
Misc: 0060003

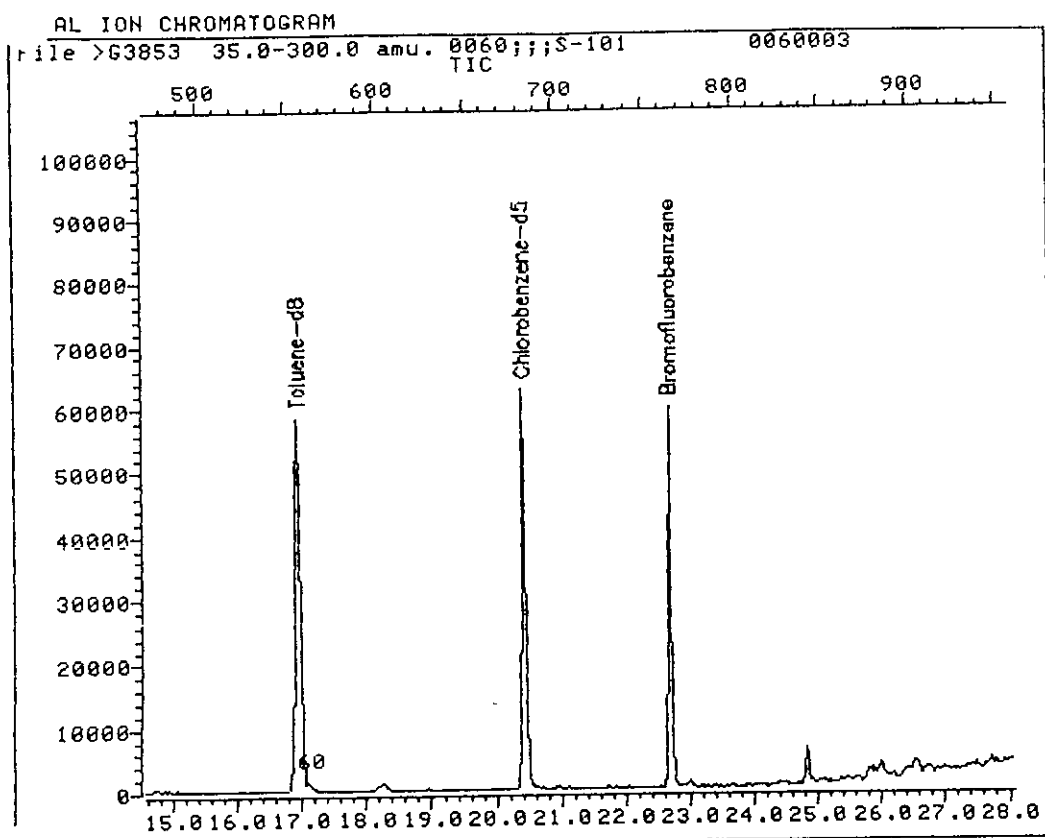
Quant Output File: ^G3853::QT
HP5995:G;;;LLS;DF1 ;G1900

Id File: I_IFGS::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930126 10:13

Operator ID: MSG
Quant Time: 930126 13:01
Injected at: 930126 12:32

TIC page 1 of 2

0069



Data File: >G3853::G3
Name: 0060;;;S-101
Misc: 0060003

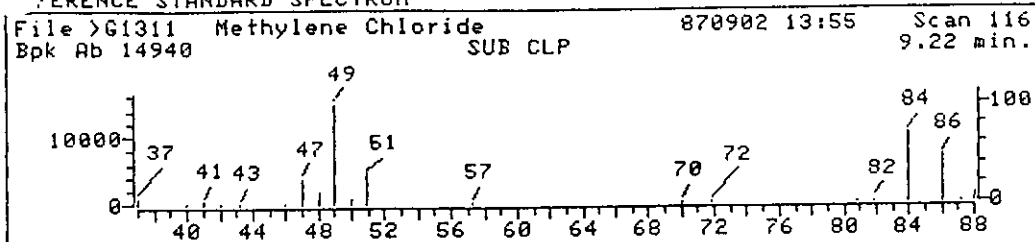
Quant Output File: ^G3853::QT
HP5995:G;;;LLS;DF1 ;G1900

Id File: I_IFGS::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930126 10:13

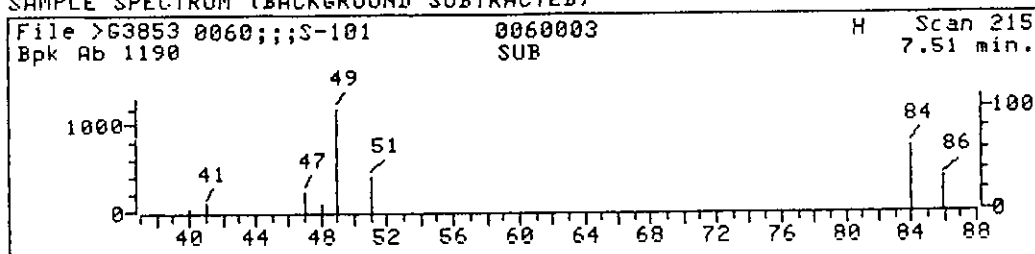
Operator ID: MSG
Quant Time: 930126 13:01
Injected at: 930126 12:32

TIC page 2 of 2

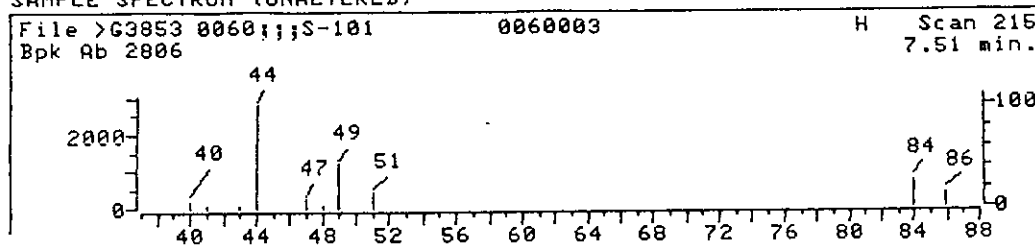
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >G3853::G3

Quant Output File: ^G3853::QT

Name: 0060;;;S-101

Misc: 0060003

HP5995:G;;;LLS;DF1 ;G1900

Quant Time: 930126 13:01

Quant ID File: I_IFGS::N1

Injected at: 930126 12:32

Last Calibration: 930126 10:13

Compound No: 10

Compound Name: Methylene Chloride

Scan Number: 215

Retention Time: 7.51 min.

Quant Ion: 83.8

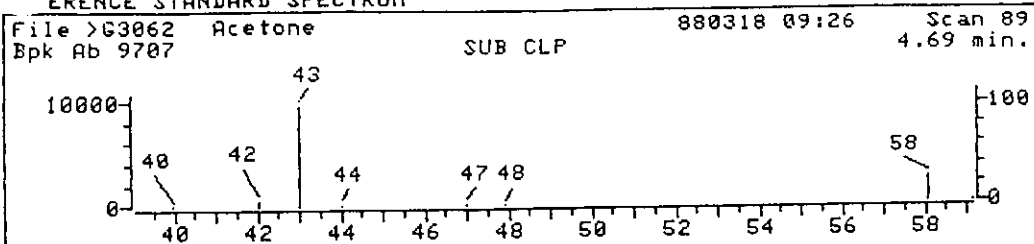
Area: 3609

Concentration: 6.01 ug/kg

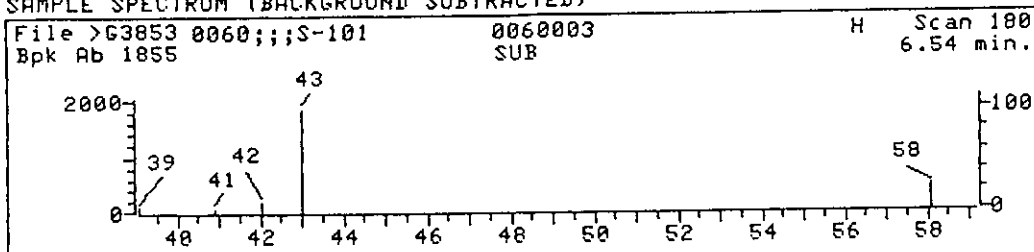
q-value: 92

0071

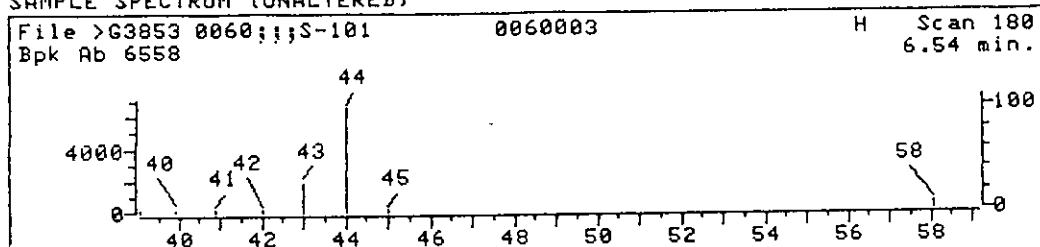
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



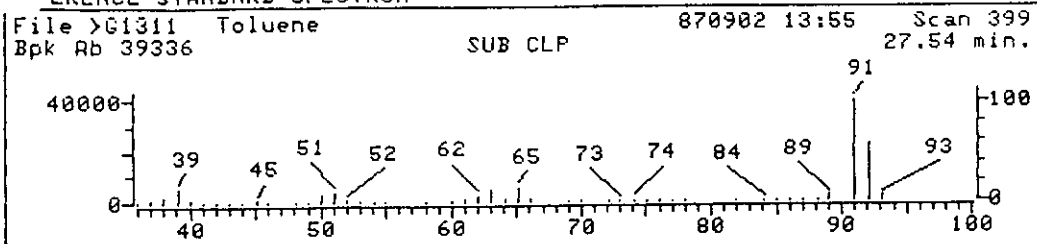
Data File: >G3853::G3
Name: 0060;;;S-101
Misc: 0060003
Quant Time: 930126 13:01
Injected at: 930126 12:32

Quant Output File: ^G3853::QT
HP5995:G;;;LLS;DF1 ;G1900
Quant ID File: I_IFGS::N1
Last Calibration: 930126 10:13

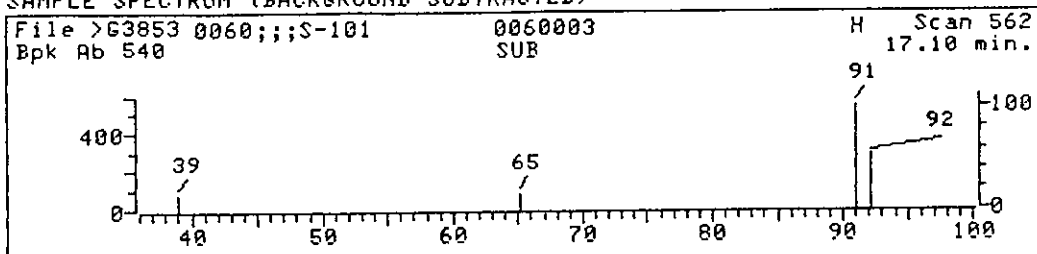
Compound No: 13
Compound Name: Acetone
Scan Number: 180
Retention Time: 6.54 min.
Quant Ion: 42.8
Area: 14254
Concentration: 18.67 ug/kg
q-value: 96

0072

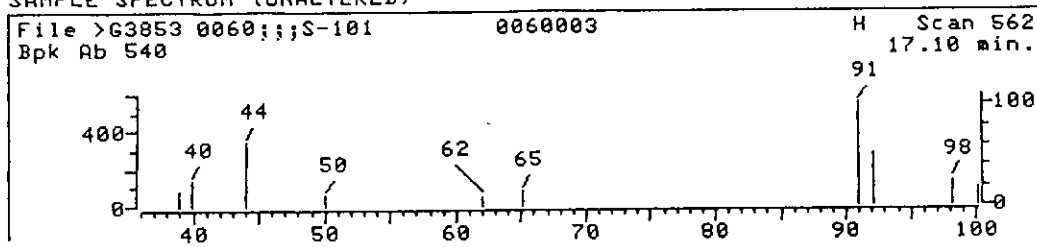
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >G3853::G3
Name: 0060;;;S-101
Misc: 0060003
Quant Time: 930126 13:01
Injected at: 930126 12:32

Quant Output File: ^G3853::QT
HP5995:G;;;LLS;DF1 ;G1900
Quant ID File: I_IFGS::N1
Last Calibration: 930126 10:13

Compound No: 60
Compound Name: Toluene
Scan Number: 562
Retention Time: 17.10 min.
Quant Ion: 91.0
Area: 2895
Concentration: 1.12 ug/kg
q-value: 90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-102

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

0073

Matrix: (soil/water) SOIL

Lab Sample ID: 0060004

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: G3859.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: not dec. 12

Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

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

74-87-3-----	Chloromethane	11	U
74-83-9-----	Bromomethane	11	U
75-01-4-----	Vinyl Chloride	11	U
75-00-3-----	Chloroethane	11	U
75-09-2-----	Methylene Chloride	8	JB
67-64-1-----	Acetone	16	B
75-15-0-----	Carbon Disulfide	11	U
75-35-4-----	1,1-Dichloroethene	11	U
75-34-3-----	1,1-Dichloroethane	11	U
540-59-0-----	1,2-Dichloroethene (total)	11	U
67-66-3-----	Chloroform	11	U
107-06-2-----	1,2-Dichloroethane	11	U
78-93-3-----	2-Butanone	11	U
71-55-6-----	1,1,1-Trichloroethane	11	U
56-23-5-----	Carbon Tetrachloride	11	U
75-27-4-----	Bromodichloromethane	11	U
78-87-5-----	1,2-Dichloropropane	11	U
10061-01-5-----	cis-1,3-Dichloropropene	11	U
79-01-6-----	Trichloroethene	11	U
124-48-1-----	Dibromochloromethane	11	U
79-00-5-----	1,1,2-Trichloroethane	11	U
71-43-2-----	Benzene	11	U
10061-02-6-----	trans-1,3-Dichloropropene	11	U
75-25-2-----	Bromoform	11	U
108-10-1-----	4-Methyl-2-Pentanone	11	U
591-78-6-----	2-Hexanone	11	U
127-18-4-----	Tetrachloroethene	11	U
79-34-5-----	1,1,2,2-Tetrachloroethane	11	U
108-88-3-----	Toluene	11	U
108-90-7-----	Chlorobenzene	11	U
100-41-4-----	Ethylbenzene	11	U
100-42-5-----	Styrene	11	U
1330-20-7-----	Xylene (total)	11	U

240
01/31/93

11.4 U JB

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-102

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

0074

Matrix: (soil/water) SOIL

Lab Sample ID: 0060004

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: G3859.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: not dec. 12

Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

0075

QUANT REPORT

Operator ID: MSG
Output File: ^G3859::QT
Data File: >G3859::G3
Name: 0060;;;S-102
Misc: 0060004

Quant Rev: 6 Quant Time: 930126 16:33
 Injected at: 930126 15:59
 Dilution Factor: 1.14000
HP5995:G;;;LLS;DF1 ;G1900

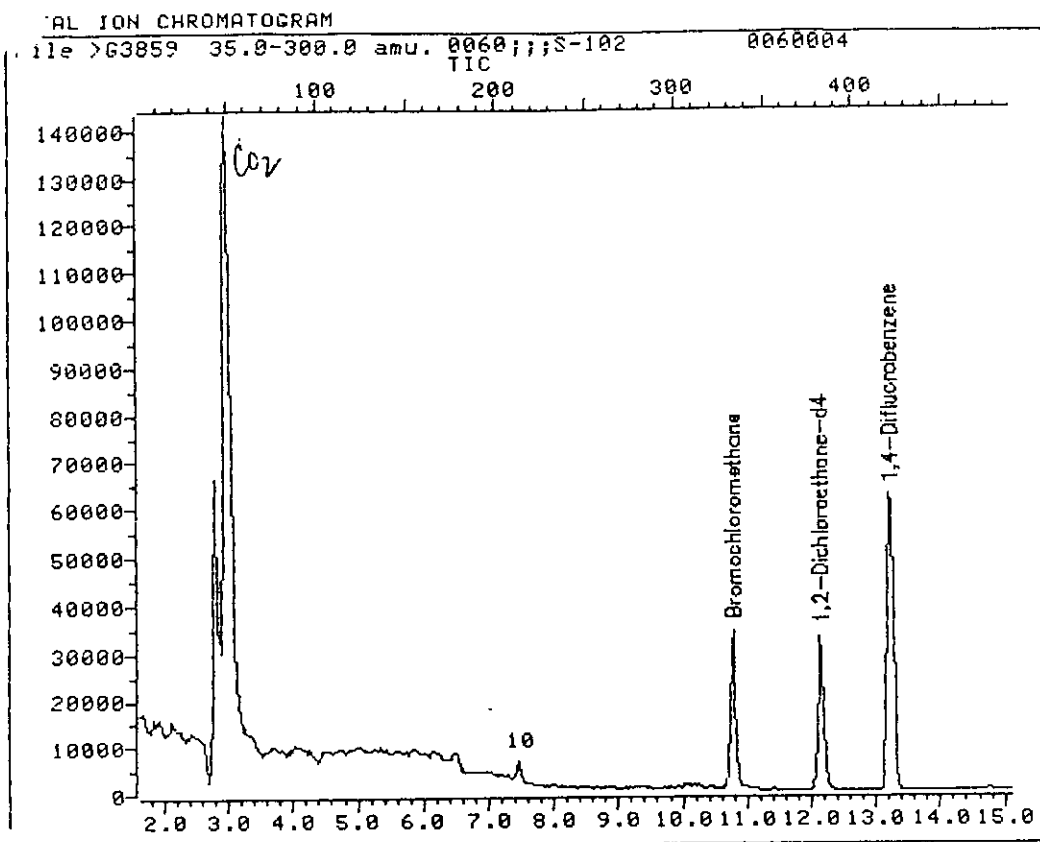
ID File: I_IFGS::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930126 10:13

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.79	127.8	18671	50.00	ug/kg	69
/10)	Methylene Chloride	7.45	83.8	4584	7.90	ug/kg	85
/13)	Acetone	6.48	42.8	12188	16.52	ug/kg	90
/24)	2-Butanone	10.21	43.0	4127	4.02	ug/kg	83
30)	1,2-Dichloroethane-d4	12.15	64.8	76121	66.47	ug/kg	90
34)	*1,4-Difluorobenzene	13.23	113.8	147310	50.00	ug/kg	98
53)	*Chlorobenzene-d5	20.53	116.8	105239	50.00	ug/kg	85
61)	Toluene-d8	16.96	97.8	161352	63.06	ug/kg	94
91)	Bromofluorobenzene	22.88	94.8	72745	56.80	ug/kg	82

* Compound is ISTD

FWZ
1/28/93

0076



Data File: >G3859::G3

Quant Output File: ^G3859::QT

Name: 0060;;;S-102

Misc: 0060004

HP5995:G;;;LLS;DF1 ;G1900

Id File: I_IFGS::N1

Title: PURGEABLE ORGANIC COMPOUNDS

Last Calibration: 930126 10:13

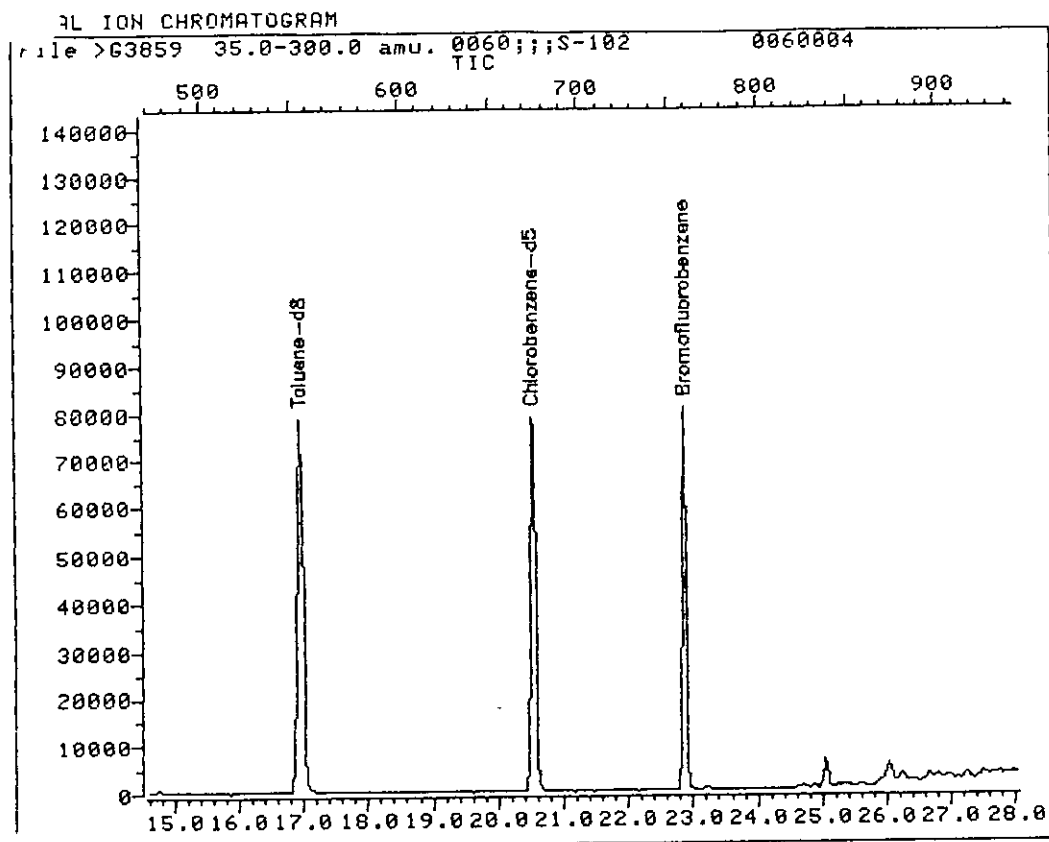
Operator ID: MSG

Quant Time: 930126 16:33

Injected at: 930126 15:59

TIC page 1 of 2

0077



Data File: >G3859::G3

Quant Output File: ^G3859::QT

Name: 0060;;;S-102

HP5995:G;;;LLS;DF1 ;G1900

Misc: 0060004

Id File: I_IFGS::N1

Title: PURGEABLE ORGANIC COMPOUNDS

Last Calibration: 930126 10:13

Operator ID: MSG

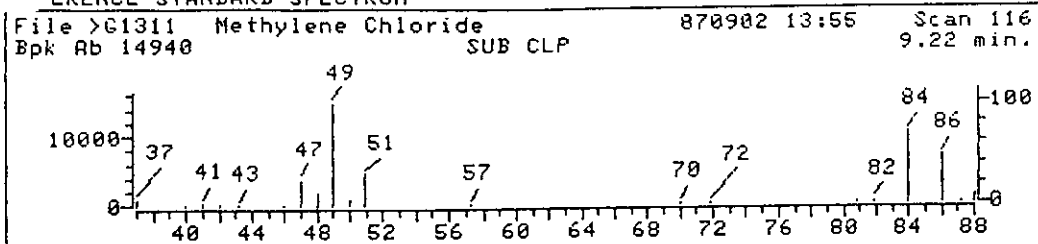
Quant Time: 930126 16:33

Injected at: 930126 15:59

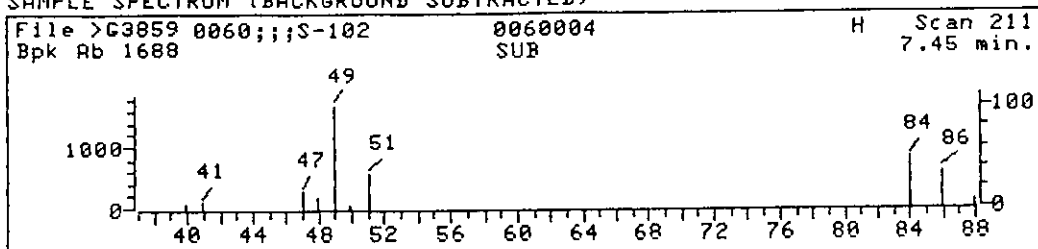
TIC page 2 of 2

0078

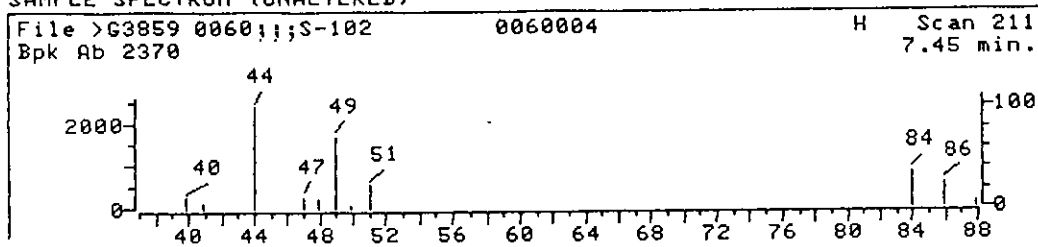
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >G3859::G3

Quant Output File: ^G3859::QT

Name: 0060;;;S-102

Misc: 0060004

HP5995:G;;;LLS;DF1 ;G1900

Quant Time: 930126 16:33

Quant ID File: I_IFGS::N1

Injected at: 930126 15:59

Last Calibration: 930126 10:13

Compound No: 10

Compound Name: Methylene Chloride

Scan Number: 211

Retention Time: 7.45 min.

Quant Ion: 83.8

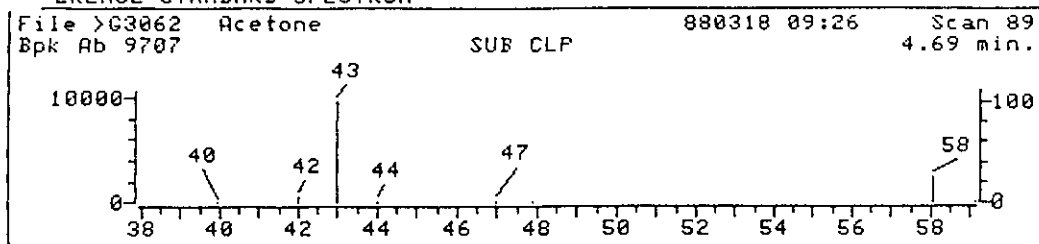
Area: 4584

Concentration: 7.90 ug/kg

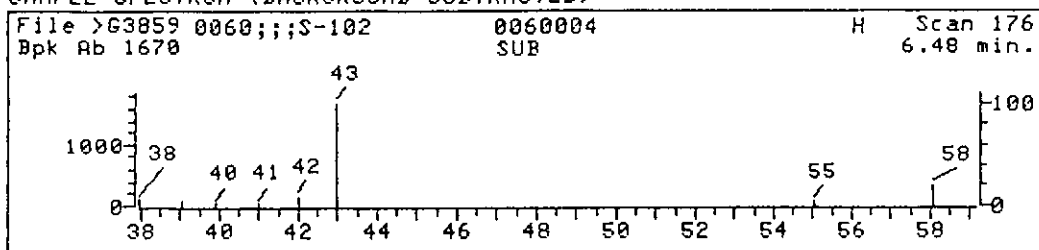
q-value: 85

0079

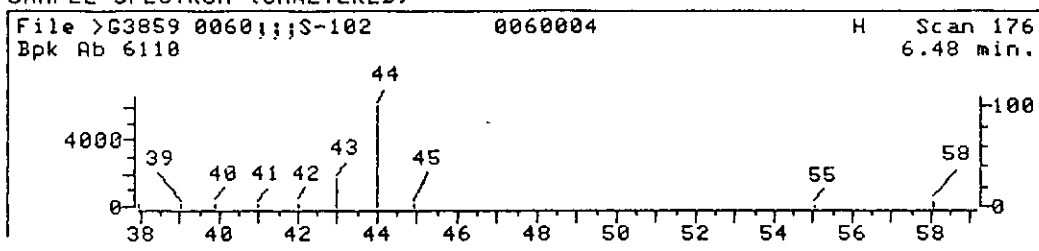
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >G3859::G3

Quant Output File: ^G3859::QT

Name: 0060;;;S-102

Misc: 0060004

HP5995:G;;;LLS;DF1 ;G1900

Quant Time: 930126 16:33

Quant ID File: I_IFGS::N1

Injected at: 930126 15:59

Last Calibration: 930126 10:13

Compound No: 13

Compound Name: Acetone

Scan Number: 176

Retention Time: 6.48 min.

Quant Ion: 42.8

Area: 12188

Concentration: 16.52 ug/kg

q-value: 90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: IEA/CT

Contract:

Lab Code: IFACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix: (soil/water) WATER

Lab Sample ID: 0060006 0080

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: G3864.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: not dec. _____

Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	4	J
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	B
67-64-1	-----Acetone	9	JB
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10 0.5	U JB
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

LAB 01/31/93

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0081

FIELD BLANK

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix: (soil/water) WATER

Lab Sample ID: 0060006

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: G3864.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: not dec. _____

Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541059	CYCLOTRASILOXANE, HEXAMETHYL	18.31	10	DN
2. 541072	CYCLOTRASILOXANE, OCTAMETHYL	23.12	7	DN
3. _____	UNKNOWN SELOXANE	25.91	7	DN
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
13. _____				
14. _____				
15. _____				
16. _____				
17. _____				
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

0082

QUANT REPORT

Operator ID: MSG
Output File: ^G3864::QT
Data File: >G3864::G3
Name: 0060;;;FIELD BLANK
Misc: 0060006

Quant Rev: 6 Quant Time: 930126 20:36
 Injected at: 930126 20:06
 Dilution Factor: 1.00000
HP5995:G;;;LLS;DF1 ;G1900

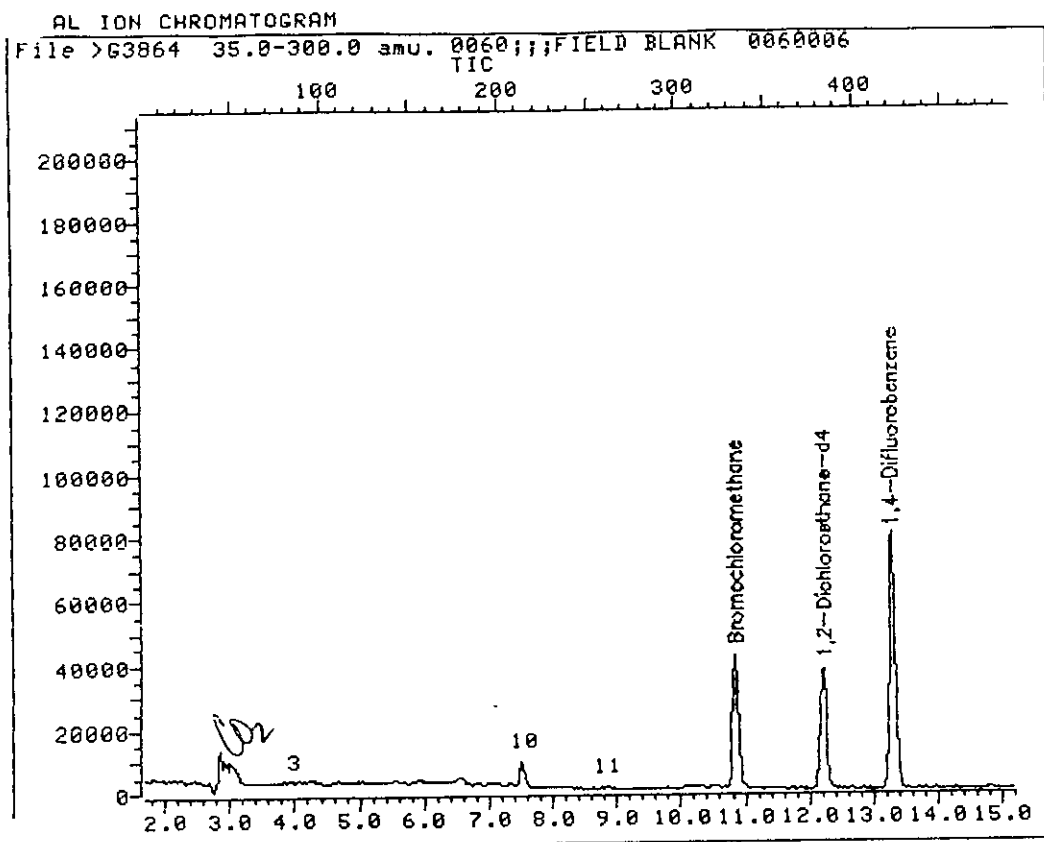
ID File: I_IFGS::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930126 10:13

	Compound	R.T.	Q	ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.85	127.8		23837	50.00	ug/kg	64
3)	Chloromethane	3.97	49.8		2478	4.51	ug/kg	89
10)	Methylene Chloride	7.51	83.8		8495	10.05	ug/kg	89
11)	Acrolein	8.81	55.8		243	472.83	ug/kg	86
13)	Acetone	6.57	42.8		9418	8.77	ug/kg	96
28)	Chloroform	10.91	82.8		3685	2.11	ug/kg	42
30)	1,2-Dichloroethane-d4	12.23	64.8		90410	54.24	ug/kg	90
34)	*1,4-Difluorobenzene	13.29	113.8		188674	50.00	ug/kg	98
53)	*Chlorobenzene-d5	20.52	116.8		135456	50.00	ug/kg	87
60)	Toluene	17.18	91.0		2532	.48	ug/kg	95
61	Toluene-d8	17.02	97.8		198036	52.75	ug/kg	93
91	Bromofluorobenzene	22.81	94.8		106337	56.59	ug/kg	81

* Compound is ISTD

KM2
1/28/93

0 0083



Data File: >G3864::G3
Name: 0060;;;FIELD BLANK
Misc: 0060006

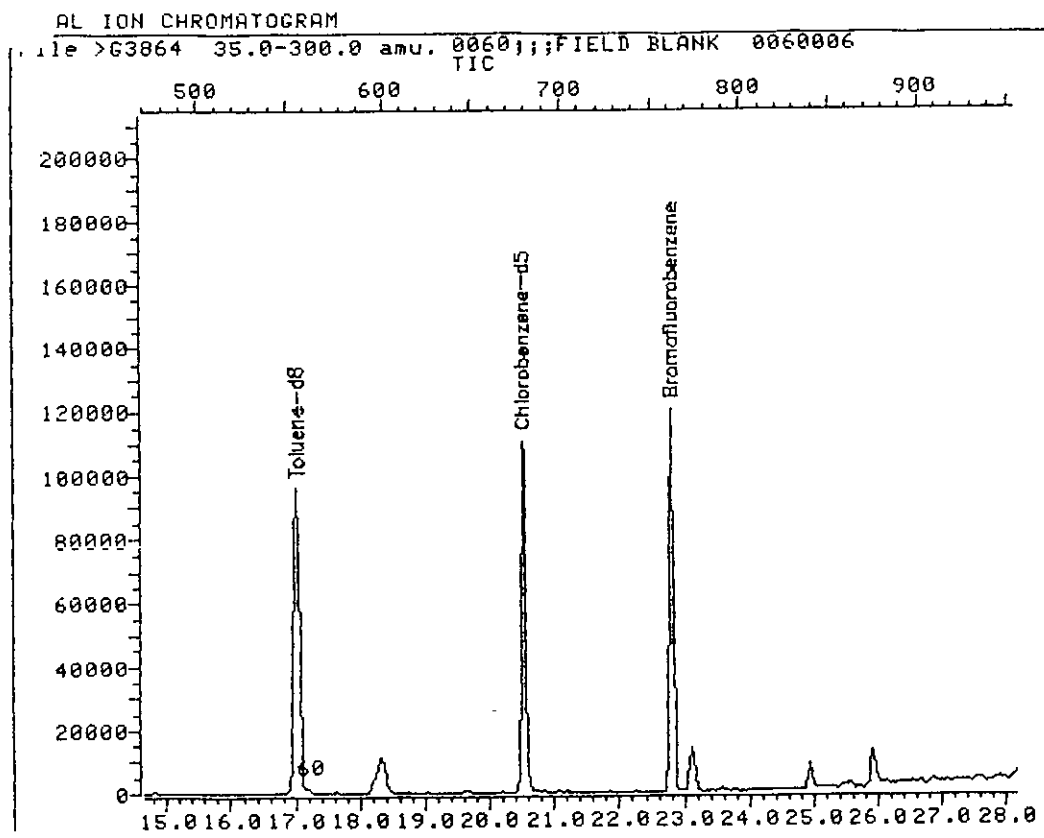
Quant Output File: ^G3864::QT
HP5995:G;;;LLS;DF1 ;G1900

Id File: I_IFGS::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930126 10:13

Operator ID: MSG
Quant Time: 930126 20:36
Injected at: 930126 20:06

TIC page 1 of 2

0084



Data File: >G3864::G3
Name: 0060;;;FIELD BLANK
Misc: 0060006

Quant Output File: ^G3864::QT
HP5995:G;;;LLS;DF1 ;G1900

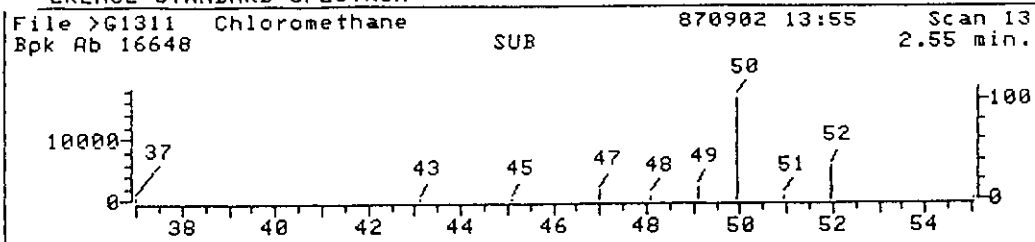
Id File: I_IFGS::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930126 10:13

Operator ID: MSG
Quant Time: 930126 20:36
Injected at: 930126 20:06

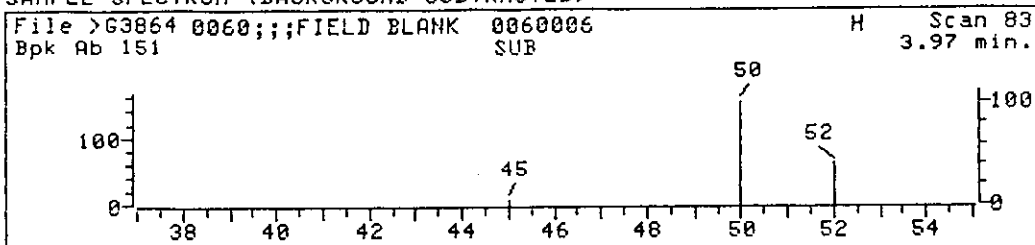
TIC page 2 of 2

0085

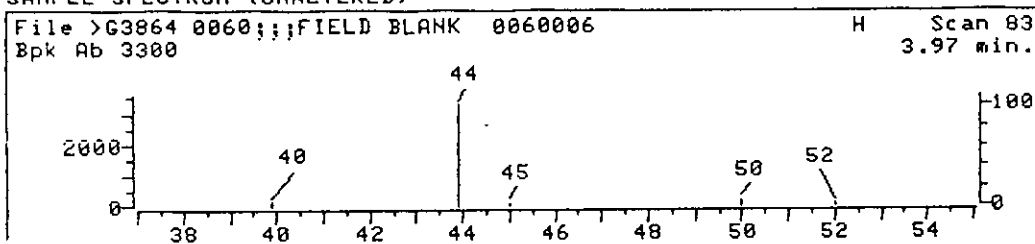
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

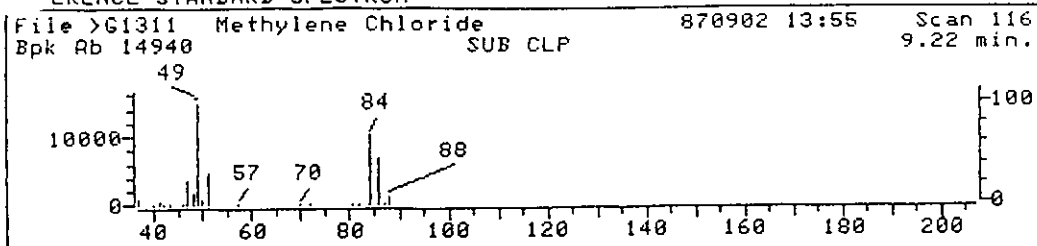


Data File: >G3864::G3
Name: 0060;;;FIELD BLANK
Misc: 0060006
Quant Time: 930126 20:36
Injected at: 930126 20:06

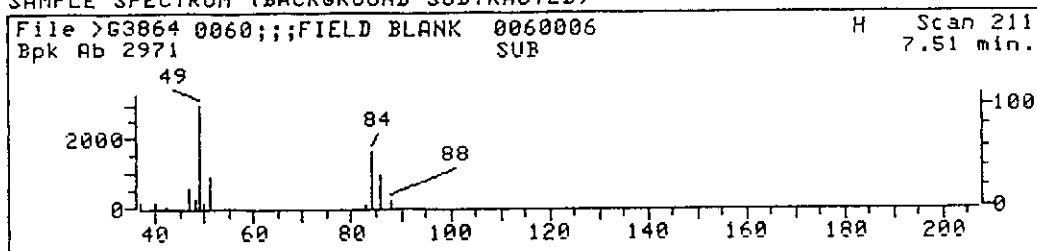
Quant Output File: ^G3864::QT
HP5995:G;;;LLS;DF1 ;G1900
Quant ID File: I_IFGS::N1
Last Calibration: 930126 10:13

Compound No: 3
Compound Name: Chloromethane
Scan Number: 83
Retention Time: 3.97 min.
Quant Ion: 49.8
Area: 2478
Concentration: 4.51 ug/kg
q-value: 89

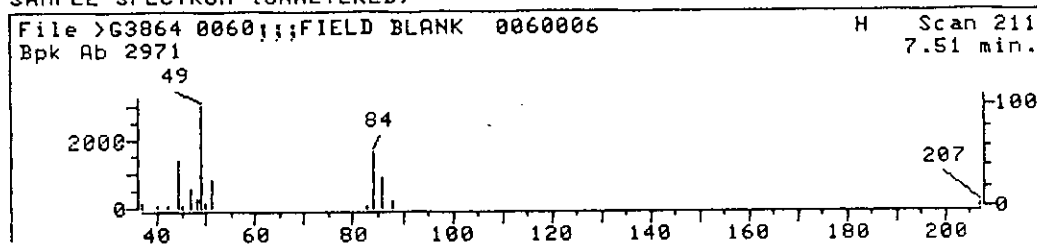
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >G3864::G3

Quant Output File: ^G3864::QT

Name: 0060;;;FIELD BLANK

Misc: 0060006

HP5995:G;;;LLS;DF1 ;G1900

Quant Time: 930126 20:36

Quant ID File: I_IFGS::N1

Injected at: 930126 20:06

Last Calibration: 930126 10:13

Compound No: 10

Compound Name: Methylene Chloride

Scan Number: 211

Retention Time: 7.51 min.

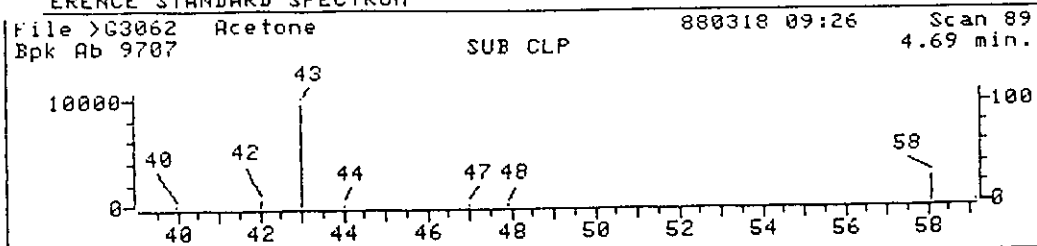
Quant Ion: 83.8

Area: 8495

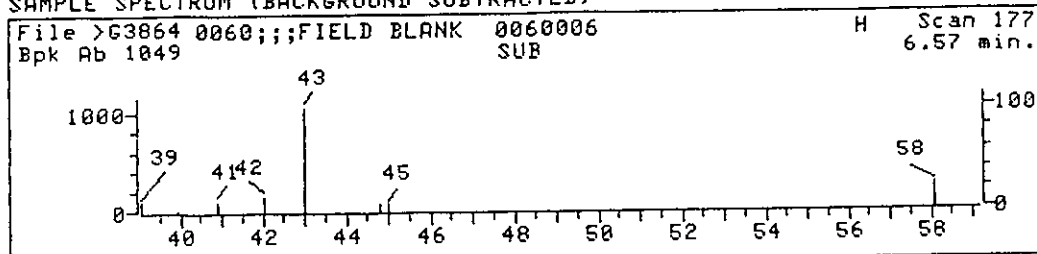
Concentration: 10.05 ug/kg

q-value: 89

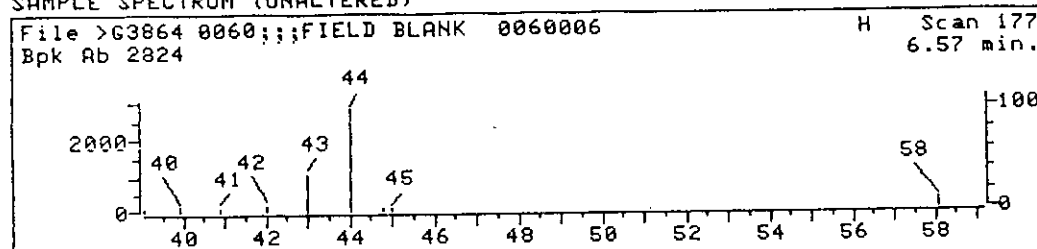
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >G3864::G3
Name: 0060;;;FIELD BLANK
Misc: 0060006
Quant Time: 930126 20:36
Injected at: 930126 20:06

Quant Output File: ^G3864::QT
HP5995:G;;;LLS;DF1 ;G1900
Quant ID File: I_IFGS::N1
Last Calibration: 930126 10:13

Compound No: 13
Compound Name: Acetone
Scan Number: 177
Retention Time: 6.57 min.
Quant Ion: 42.8
Area: 9418
Concentration: 8.77 ug/kg
q-value: 96

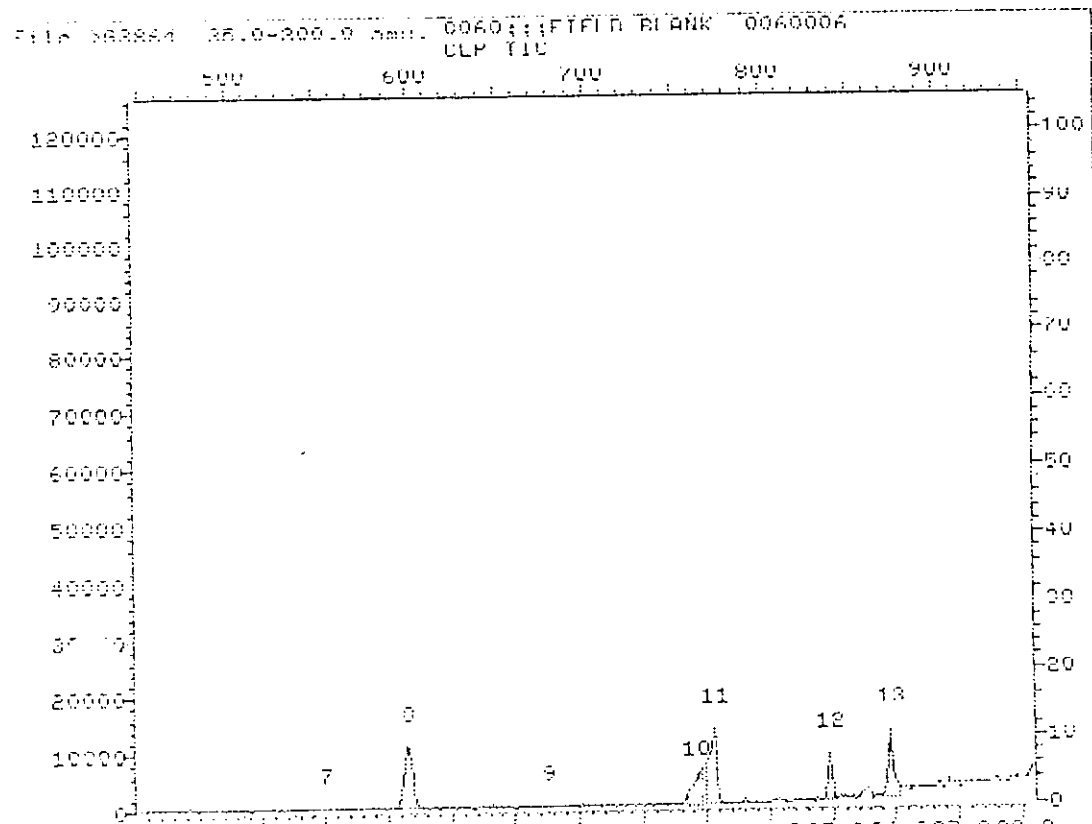
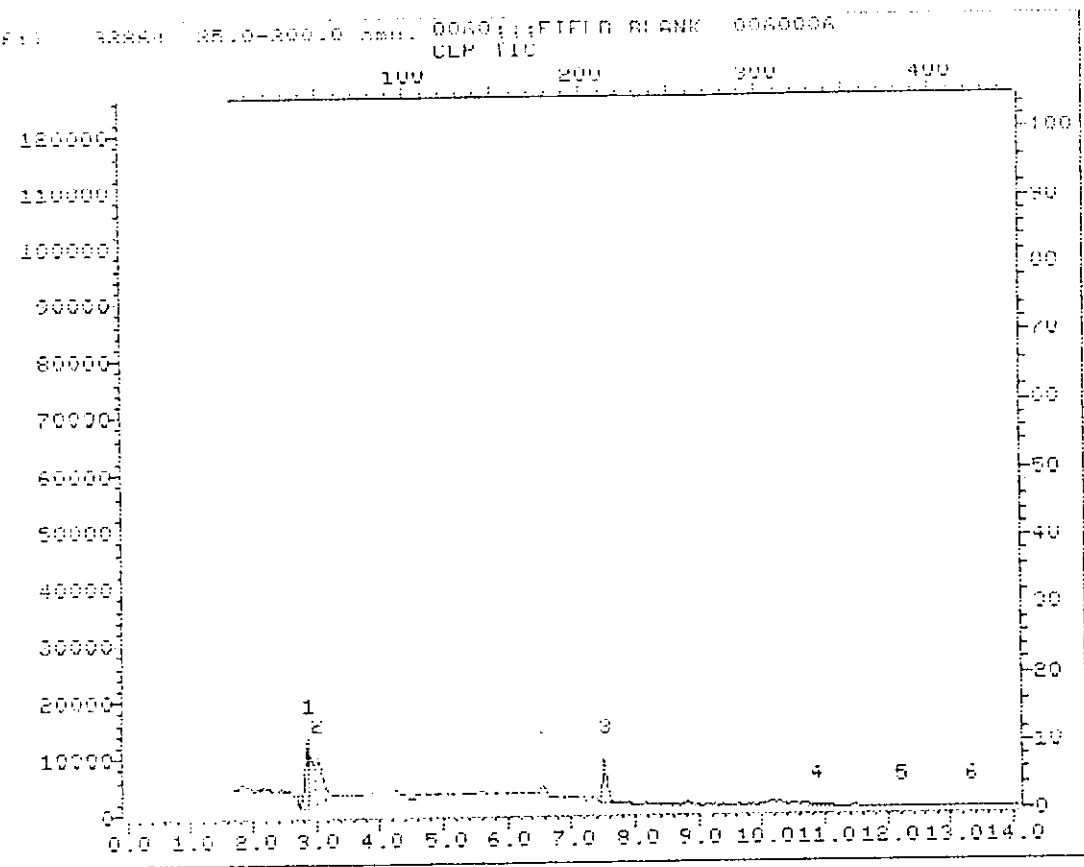
0088

MS Data File header from : >G3864

Sample: 00601111 FIELD BLANK Operator: MSG MS 1/26/93 20:06
 Misc : 00600006 HP5995G1115;DET ;61900
 Sys. #: 2 MS model: 96 SM/RM rev.: 1A AIS #: 0
 Method file: M 00AP Tuning file: T 0 No. of extra records: 2
 Source temp.: 224 Analyzer temp.: 240 Transfer line temp.: 185

Chromatographic temperatures :	30.	100.	200.	0.	0.
Chromatographic times, min. :	4.0	0.0	3.8	0.0	0.0
Chromatographic rate, deg/min:	5.0	12.0	0.0	0.0	0.0

0089



TIC PEAK REPORT

0090

PK#	RT	Total Area	Est Conc.	Assoc STD	DF
1702	2.87	59410.	12.	1.	1.00
2	3.00	59842.	12.	1.	1.00
8.	18.31	1000001.	10.	3.	1.00
11.	23.12	72903.	7.	3.	1.00
13.	25.91	26324.	7.	3.	1.00

INTERNAL STD AREA REPORT

STD Compound Name	RT	Area	RT Range	T1/ST
BROMOCHLOROMETHANE	10.85	244641.	0.00 12.08	10.3
1,4-DICHLOROBENZENE	13.31	515542.	12.08 16.92	2.7
CHLOROBENZENE-D5	20.52	522258.	16.92 25.91	3.9

STD peaks found: 3
Surrogate peaks found: 3
Quant target peaks expected: 5
Target peaks matched: 1
Total TIC identified: 5

TUES : 9:56 AM WED., 27 JAN., 1993

4

Can't interpret this parameter... Perhaps you have mistyped the run string or have forgotten the order of the run string.

```

RPN error for command: RST63
RPN error: -5
id record length RST

```

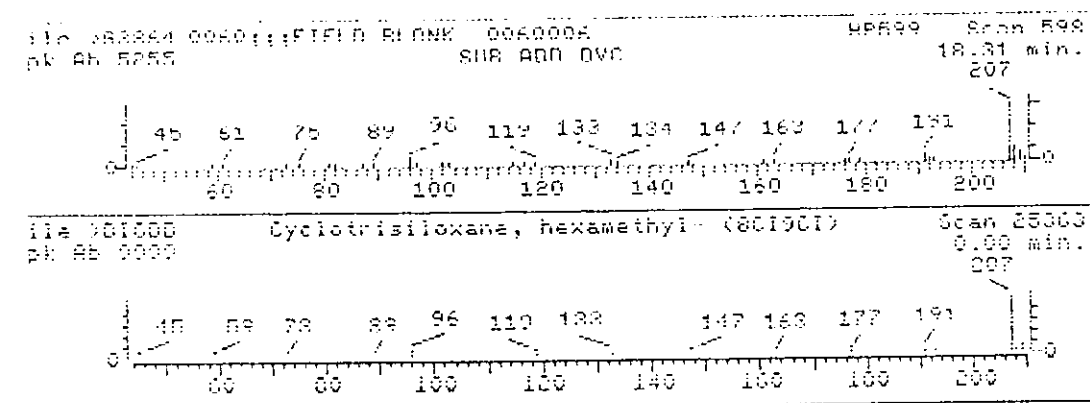
1. Cyclotrisiloxane, hexamethyl- (801911)

222 C6H18O3S13

Sample file: >G3864 Spectrum #: 998
Search speed: 3 Tilting option: S No. of ion ranges searched: 63

	Prob.	CAS #	CON #	RUOT	K	DK	#FLG	THT	%	CON	C 1	R 10
1.	24	541059	25363	"RUGDR	83	26	1	11	88	15	39	41

Peak#: 8 Area: 1000001. Est Conc: 10. Date: 01/26/93 20:06 Inst: G



0092

Interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RSEAS
RPN error: -5
Bad record length RSE

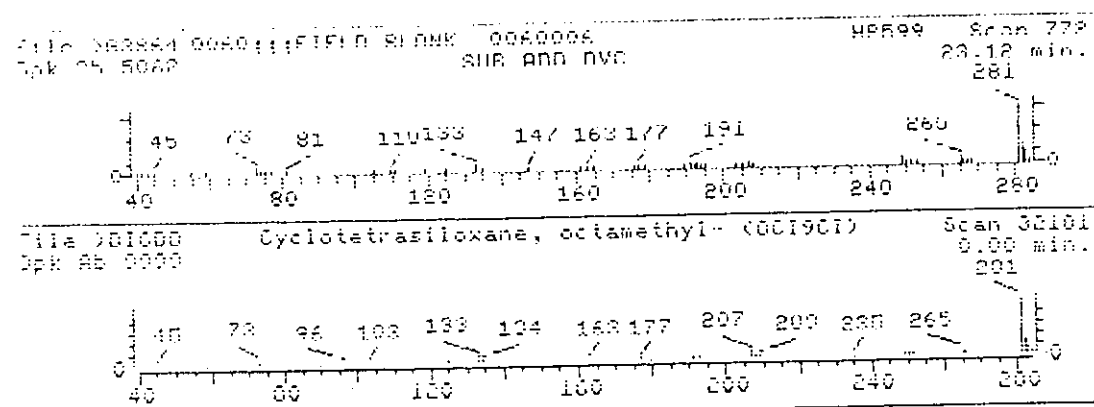
1. Cyclotetrasiloxane, octamethyl- (8C19C1)

296 C8H24O4S14

Sample file: >G3864 Spectrum #: 772
Search speed: 3 Filtering option: S No. of ion ranges searched: 59

Prob.	CAS #	CON #	ROOT	K	OK	#FLG	ILT	%	CUN	C	I	R	IV
1.	83	556672	32181	"R16DR	81	55	2	0	98	1	52	22	

Peak#: 11 Area: 22903. Est Conc: 7. Date: 01/26/93 20:06 Inst: G



0093

Do not interpret this parameter... Perhaps you have mistyped the run string or have forgotten the order of the run string.

RPN error for command: RSH63
RPN error: -5
bad record length RSH

1. 13H-Dibenzof[1,1c]carbazole (801901)

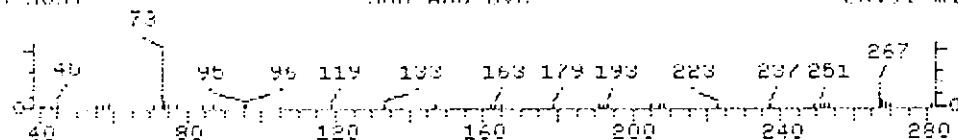
262 C20H13N

Sample File: >63864 Spectrum #: 873
Search speed: 3 Tilting option: S No. of ion ranges searched: 99

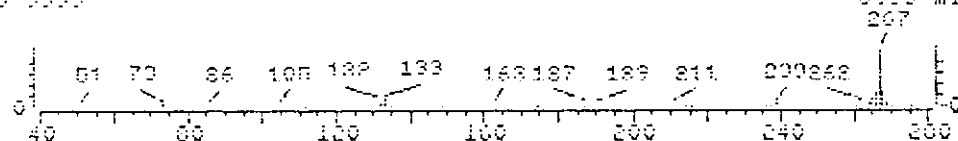
Prob.	CAS #	CON #	RHIT	K	DK	#FLG	TILT	%	CON	C	I	R	IO
1.	35*	239645	30828	"RIGDB	24	84	3	0	38	30	14	12	

Peak#: 13 Area: 26374. Est Conc: 7. Date: 01/26/93 20:06 Inst: G

File 063864 00000111 FIF10 BLANK 0000000A HP599 Scan 873
Spk 15 5051 SUB AND DVC 25.91 min.



File 061088 13H-Dibenzof[1,1c]carbazole (801901) Scan 30078
Spk AB 0000 9.00 min.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLANK

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix: (soil/water) WATER

Lab Sample ID: 0060007

0094

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: G3865.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: not dec. _____

Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	20	B
67-64-1-----	Acetone	8	JB
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	100.6	U JB
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

CHD
01/31/93

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIPBLANK

0095

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix: (soil/water) WATER

Lab Sample ID: 0060007

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: G3865.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: not dec. _____

Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

0096

QUANT REPORT

Operator ID: MSG
Output File: ^G3865::QT
Data File: >G3865::G3
Name: 0060;;;TRIP BLANK
Misc: 0060007

Quant Rev: 6 Quant Time: 930126 21:10
 Injected at: 930126 20:41
 Dilution Factor: 1.00000
HP5995:G;;;LLS;DF1 ;G1900

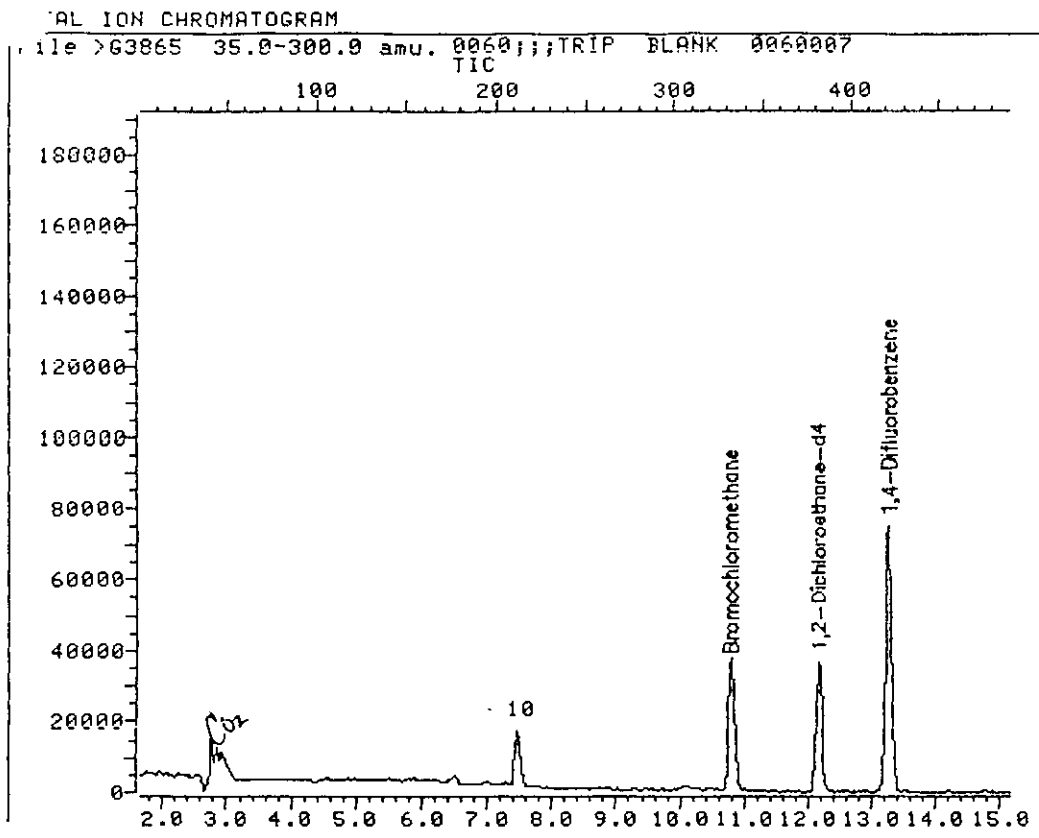
ID File: I_IFGS::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930126 10:13

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *Bromochloromethane	10.78	127.8	23356	50.00	ug/kg	74
✓10) Methylene Chloride	7.47	83.8	16720	20.20	ug/kg	88
✓13) Acetone	6.50	42.8	8956	8.51	ug/kg	98
128) Chloroform	10.09	82.0	3600	2.10	ug/kg	74
30) 1,2-Dichloroethane-d4	12.16	64.8	86382	52.89	ug/kg	93
34) *1,4-Difluorobenzene	13.27	113.8	177456	50.00	ug/kg	95
53) *Chlorobenzene-d5	20.44	116.8	134384	50.00	ug/kg	80
60) Toluene	17.14	91.0	3256	.63	ug/kg	93
61) Toluene-d8	16.97	97.8	189613	50.90	ug/kg	97
91) Bromofluorobenzene	22.68	94.8	99524	53.39	ug/kg	76

Compound is ISTD

RM2
1/28/93

0097



Data File: >G3865::G3
Name: 0060;;;TRIP BLANK
Misc: 0060007

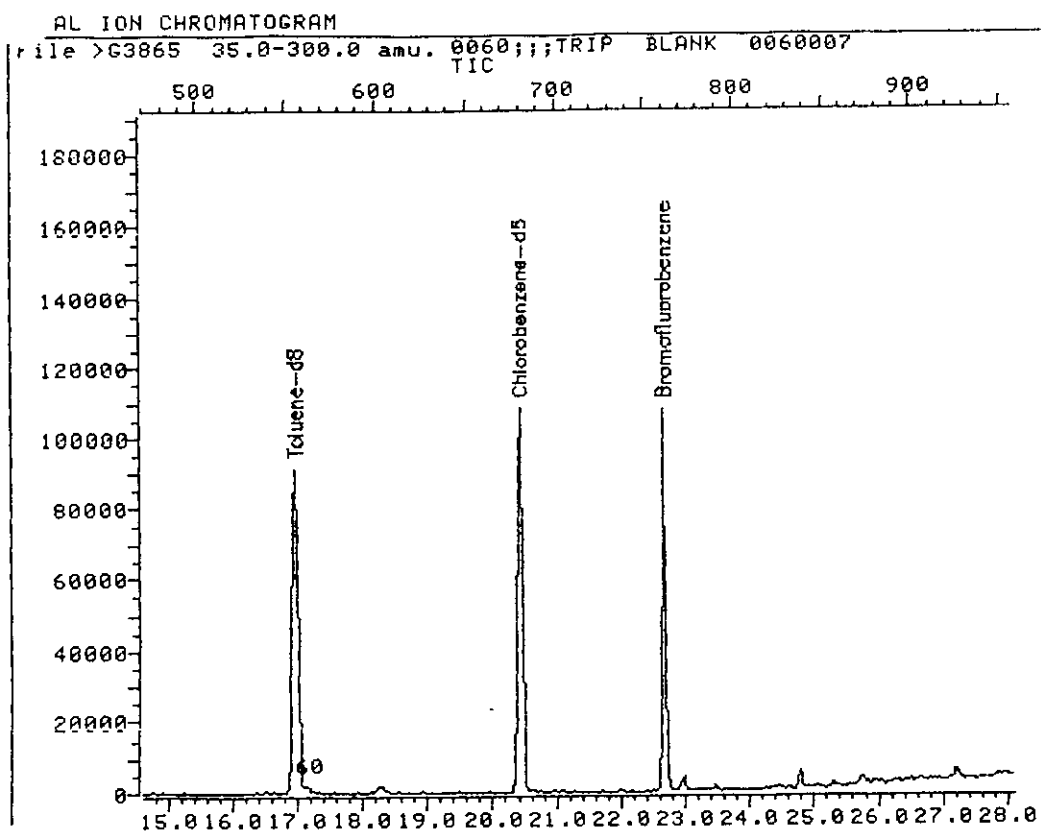
Quant Output File: ^G3865::QT
HP5995:G;;;LLS;DF1 ;G1900

Id File: I_IFGS::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930126 10:13

Operator ID: MSG
Quant Time: 930126 21:10
Injected at: 930126 20:41

TIC page 1 of 2

0098



Data File: >G3865::G3
 Name: 0060;;;TRIP BLANK
 Misc: 0060007

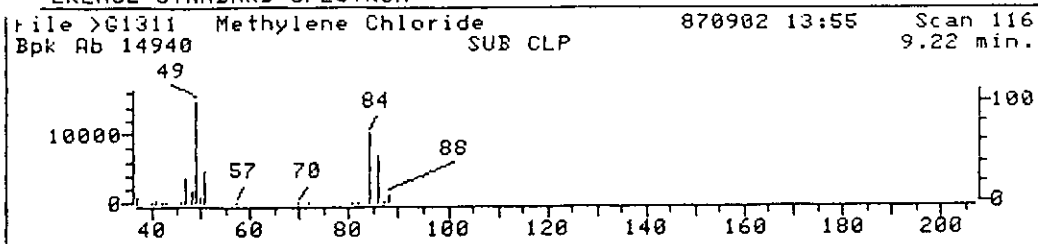
Quant Output File: ^G3865::QT
 HP5995:G;;;LLS;DF1 ;G1900

Id File: I_IFGS::N1
 Title: PURGEABLE ORGANIC COMPOUNDS
 Last Calibration: 930126 10:13

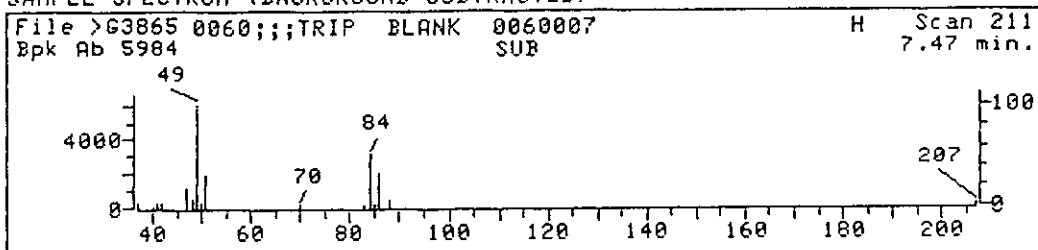
Operator ID: MSG
 Quant Time: 930126 21:10
 Injected at: 930126 20:41

TIC page 2 of 2

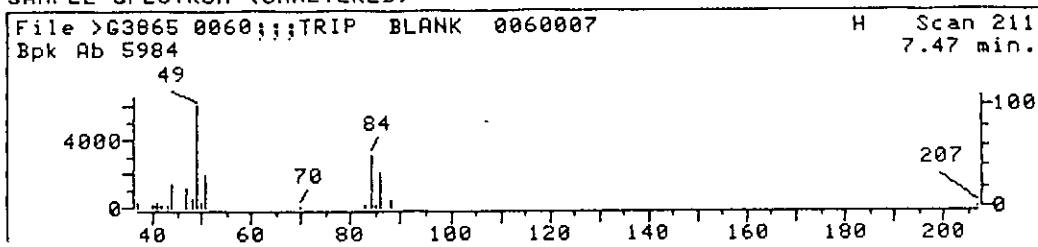
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >G3865::G3

Quant Output File: ^G3865::QT

Name: 0060;;;TRIP BLANK

HP5995:G;;;LLS;DF1 ;G1900

Misc: 0060007

Quant ID File: I_IFGS::N1

Quant Time: 930126 21:10

Last Calibration: 930126 10:13

Injected at: 930126 20:41

Compound No: 10

Compound Name: Methylene Chloride

Scan Number: 211

Retention Time: 7.47 min.

Quant Ion: 83.8

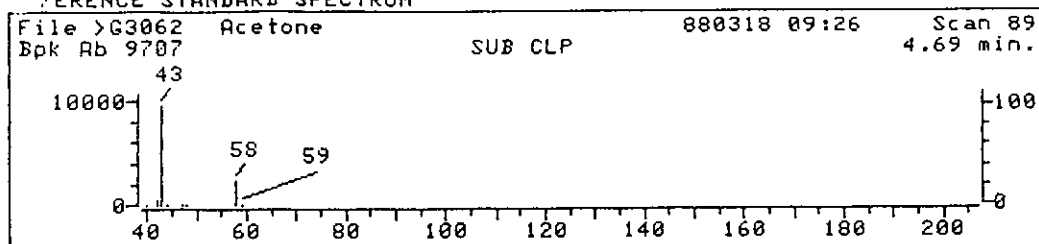
Area: 16720

Concentration: 20.20 ug/kg

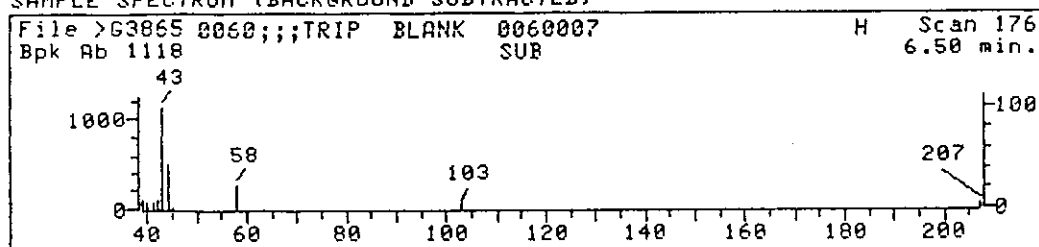
q-value: 88

0. 0100

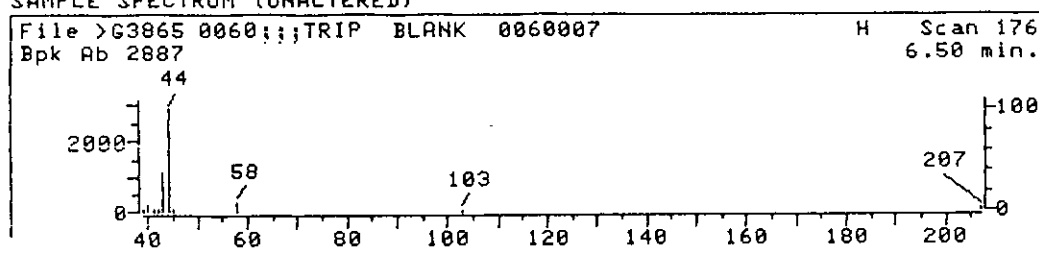
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >G3865::G3
Name: 0060;;;TRIP BLANK
Misc: 0060007
Quant Time: 930126 21:10
Injected at: 930126 20:41

Quant Output File: ^G3865::QT
HP5995:G;;;LLS;DF1 ;G1900
Quant ID File: I_IFGS::N1
Last Calibration: 930126 10:13

Compound No: 13
Compound Name: Acetone
Scan Number: 176
Retention Time: 6.50 min.
Quant Ion: 42.8
Area: 8956
Concentration: 8.51 ug/kg
q-value: 98

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

0101

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Instrument ID: HP5995G

Calibration Date(s): 01/25/93

01/26/93

Heated Purge: (Y/N) Y

Calibration Times: 2353

0251

GC Column:007-624

ID: 0.53 (mm)

LAB FILE ID:		RRF10 =G3842.D		RRF20 =G3843.D			
RRF50 =G3844.D		RRF100=G3845.D		RRF200=G3847.D			
COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Chloromethane	1.881	1.854	1.652	2.168	1.586	1.828	12.5
Bromomethane	* 1.256	1.069	0.888	0.852	0.690	0.951	22.9*<
Vinyl Chloride	* 1.732	1.757	1.681	2.046	1.873	1.818	8.0*
Chloroethane	1.053	1.059	0.920	0.849	0.721	0.920	15.5
Methylene Chloride	2.103	2.789	1.714	1.613	1.387	1.921	28.6
Acetone	4.046	2.026	3.023	1.880	1.522	2.499	41.1
Carbon Disulfide	7.896	7.420	6.879	7.712	7.155	7.412	5.5
1,1-Dichloroethene	* 1.209	1.111	1.109	1.095	0.922	1.089	9.5*
1,1-Dichloroethane	* 4.593	4.282	4.408	5.014	5.120	4.683	7.9*
1,2-Dichloroethene (total)	1.356	1.245	1.257	1.405	1.365	1.326	5.3
Chloroform	* 3.254	3.761	3.836	4.051	3.512	3.683	8.3*
1,2-Dichloroethane	* 6.140	5.250	5.650	6.095	5.916	5.810	6.3*
2-Butanone	3.112	2.378	4.405	2.847	2.724	3.093	25.2
1,1,1-Trichloroethane	* 0.479	0.527	0.533	0.522	0.511	0.514	4.2*
Carbon Tetrachloride	* 0.332	0.324	0.358	0.364	0.373	0.350	6.0*
Bromodichloromethane	* 0.272	0.285	0.318	0.332	0.342	0.310	9.8*
1,2-Dichloropropane	0.387	0.401	0.441	0.461	0.471	0.432	8.5
cis-1,3-Dichloropropene	* 0.313	0.319	0.383	0.390	0.400	0.361	11.5*
Trichloroethene	* 0.307	0.302	0.331	0.337	0.319	0.319	4.7*
Dibromochloromethane	* 0.179	0.182	0.230	0.234	0.233	0.212	13.5*
1,1,2-Trichloroethane	* 0.242	0.233	0.296	0.286	0.270	0.265	10.4*
Benzene	* 1.208	1.210	1.293	1.291	1.184	1.237	4.1*
trans-1,3-Dichloropropene	* 1.250	1.268	1.478	1.507	1.506	1.402	9.4*
Bromoform	* 0.206	0.203	0.282	0.259	0.248	0.240	14.3*
4-Methyl-2-Pentanone	0.795	0.682	1.469	0.960	1.036	0.988	30.6
2-Hexanone	0.601	0.540	1.218	0.723	0.731	0.763	35.0
Tetrachloroethene	* 0.357	0.335	0.389	0.356	0.335	0.354	6.2*
1,1,2,2-Tetrachloroethane	* 0.627	0.584	0.875	0.715	0.738	0.708	15.9*
Toluene	* 1.635	1.555	1.772	1.698	1.806	1.693	6.0*
Chlorobenzene	* 0.972	0.956	1.086	1.015	1.003	1.006	5.0*
Ethylbenzene	* 0.552	0.502	0.608	0.551	0.530	0.549	7.1*
Styrene	* 1.087	1.049	1.189	1.027	0.937	1.058	8.7*
Xylene (total)	0.627	0.581	0.652	0.572	0.517	0.590	8.9
Toluene-d8	1.270	1.305	1.437	1.315	1.470	1.359	6.5
Bromofluorobenzene	* 0.697	0.698	0.762	0.676	0.703	0.707	4.6*
1,2-Dichloroethane-d4	3.218	3.249	2.985	3.179	3.749	3.276	8.7

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

QUANT REPORT

Operator ID: MSG
 Output File: ^G3842::QT
 Data File: >G3842::G3
 Name: ;;VSTD010
 Misc:

Quant Rev: 6 Quant Time: 930126 00:22
 Injected at: 930125 23:53
 Dilution Factor: 1.00000

HP5995:G;;;LLS;DF1 ;G1897

ID File: I_IFGS::N1
 Title: PURGEABLE ORGANIC COMPOUNDS
 Last Calibration: 921228 11:24

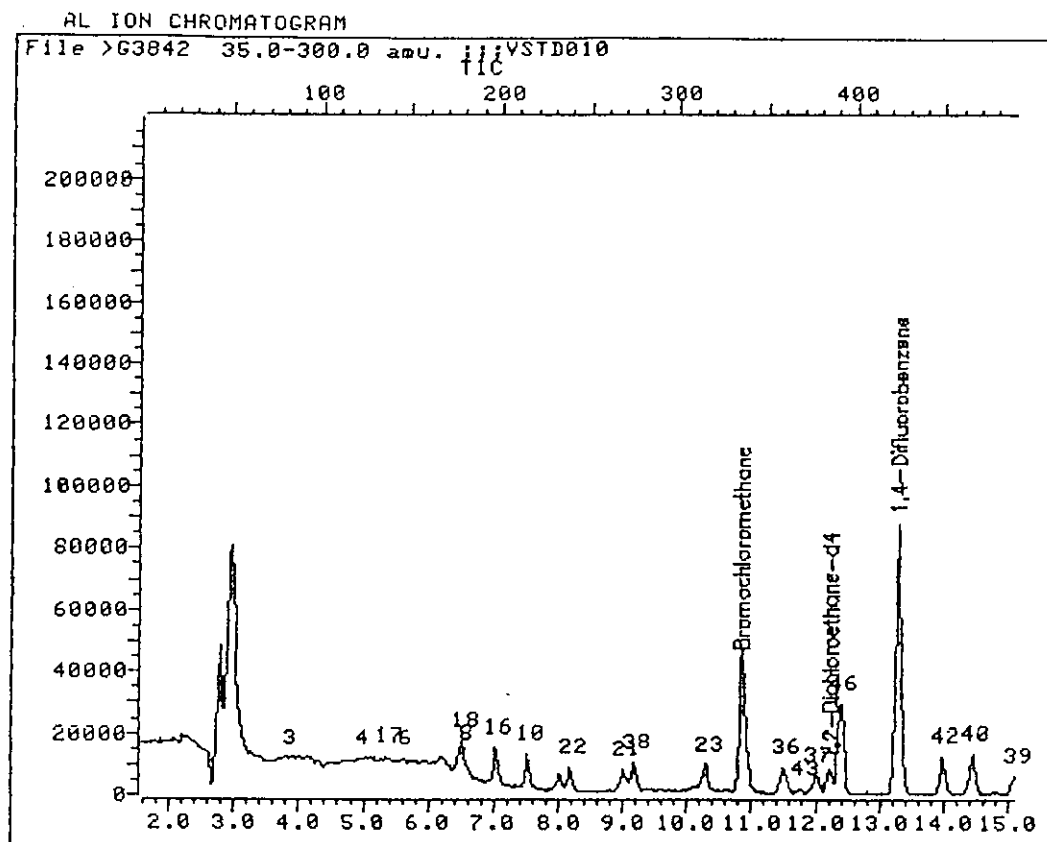
CHD
 01/31/93

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *Bromochloromethane	10.84	127.8	26530	50.00	ug/kg	74
3) Chloromethane	3.84	49.8	9982M	28.65	ug/kg	97
4) Bromomethane	4.98	93.7	6665M	9.87	ug/kg	
5) Vinyl Chloride	4.15	61.8	9188	12.09	ug/kg	91
6) Chloroethane	5.64	63.8	5587M	11.14	ug/kg	84
8) 1,1,2-Trichlorotrifluoroethane	6.55	101.0	16949M	32.85	ug/kg	87
10) Methylene Chloride	7.52	83.8	11160	15.06	ug/kg	89
13) Acetone	6.52	42.8	21467	22.28	ug/kg	99
14) Acrylonitrile	8.02	52.8	13834	44.72	ug/kg	90
16) Carbon Disulfide	7.02	75.8	41896	17.39	ug/kg	99
17) Trichlorofluoromethane	5.36	100.8	7373M	17.82	ug/kg	86
18) 1,1-Dichloroethene	6.50	95.8	6413	9.38	ug/kg	94
21) 1,1-Dichloroethane	9.01	62.8	24368	16.85	ug/kg	96
22) 1,2-Dichloroethene (total)t	8.18	95.8	7733	10.49	ug/kg	94
23) 1,2-Dichloroethene (total)c	10.28	95.8	6654	8.70	ug/kg	97
24) 2-Butanone	10.28	43.0	16510	17.24	ug/kg	92
28) Chloroform	10.95	82.8	17266^	11.54	ug/kg	96
29) 1,2-Dichloroethane	12.41	61.8	32578	11.67	ug/kg	92
30) 1,2-Dichloroethane-d4	12.22	64.8	17076	9.28	ug/kg	85
34) *1,4-Difluorobenzene	13.30	113.8	203521	50.00	ug/kg	97
36) 1,1,1-Trichloroethane	11.50	96.8	19480	5.71	ug/kg	90
37) Carbon Tetrachloride	12.00	116.8	13525	5.29	ug/kg	90
38) Vinyl Acetate	9.18	42.8	51405	10.66	ug/kg	94
39) Bromodichloromethane	15.09	82.8	11067	4.69	ug/kg	91
40) 1,2-Dichloropropane	14.46	62.8	15739	13.52	ug/kg	91
41) cis-1,3-Dichloropropene	16.31	74.8	19619	8.43	ug/kg	97
42) Trichloroethene	13.99	129.8	12492	9.20	ug/kg	95
43) Methyl Methacrylate	11.78	40.9	1056	1056.00	NO CALIB	68
44) Dibromochloromethane	19.11	128.7	7278	3.86	ug/kg	97
45) 1,1,2-Trichloroethane	18.14	96.8	9837	9.82	ug/kg	87
46) Benzene	12.38	77.8	49175	13.43	ug/kg	91
47) trans-1,3-Dichloropropene	17.66	74.8	21362	8.57	ug/kg	95
48) 2-Chloroethylvinylether	15.92	62.8	11084	13.70	ug/kg	82
49) 1,2-Dibromoethane	19.44	106.9	15095	8.59	ug/kg	94
50) Bromoform	22.09	172.6	8376	6.05	ug/kg	97
53) Chlorobenzene-d5	20.41	116.8	159815	50.00	ug/kg	85
54) 4-Methyl-2-Pentanone	16.50	42.8	25408	12.51	ug/kg	94
55) 2-Hexanone	18.67	42.8	19219	10.71	ug/kg	86
56) Tetrachloroethene	18.69	163.7	11396	7.12	ug/kg	95
58) 1,1,2,2-Tetrachloroethane	22.84	82.8	20049	12.34	ug/kg	81
50) Toluene	17.14	91.0	52254	12.00	ug/kg	95

	Compound	R.T.	Q ion	Area	Conc	Units	q
3)	Ethylbenzene	20.71	105.8	17631	11.73	ug/kg	96
4)	Styrene	21.74	103.8	34759	10.53	ug/kg	90
5)	Xylene (total)mp	20.93	105.8	40928	20.65	ug/kg	94
6)	Xylene (total)o	21.68	105.8	20053	10.59	ug/kg	93
1)	1,2,3-Trichloropropane	24.61	74.8	12877	8.15	ug/kg	53
0)	1,3-Dichlorobenzene	24.61	145.8	28982	8.53	ug/kg	93
2)	1,2-Dichlorobenzene	24.47	145.8	29934	8.81	ug/kg	94
1)	Bromofluorobenzene	22.68	94.8	22290	8.40	ug/kg	76

* Compound is ISTD

0104



Data File: >G3842::G3

Quant Output File: ^G3842::QT

Name: ;;;VSTD010

Misc:

HP5995:G;;;LLS;DF1 ;G1897

Id File: I_IFGS::N1

Title: PURGEABLE ORGANIC COMPOUNDS

Last Calibration: 921228 11:24

Operator ID: MSG

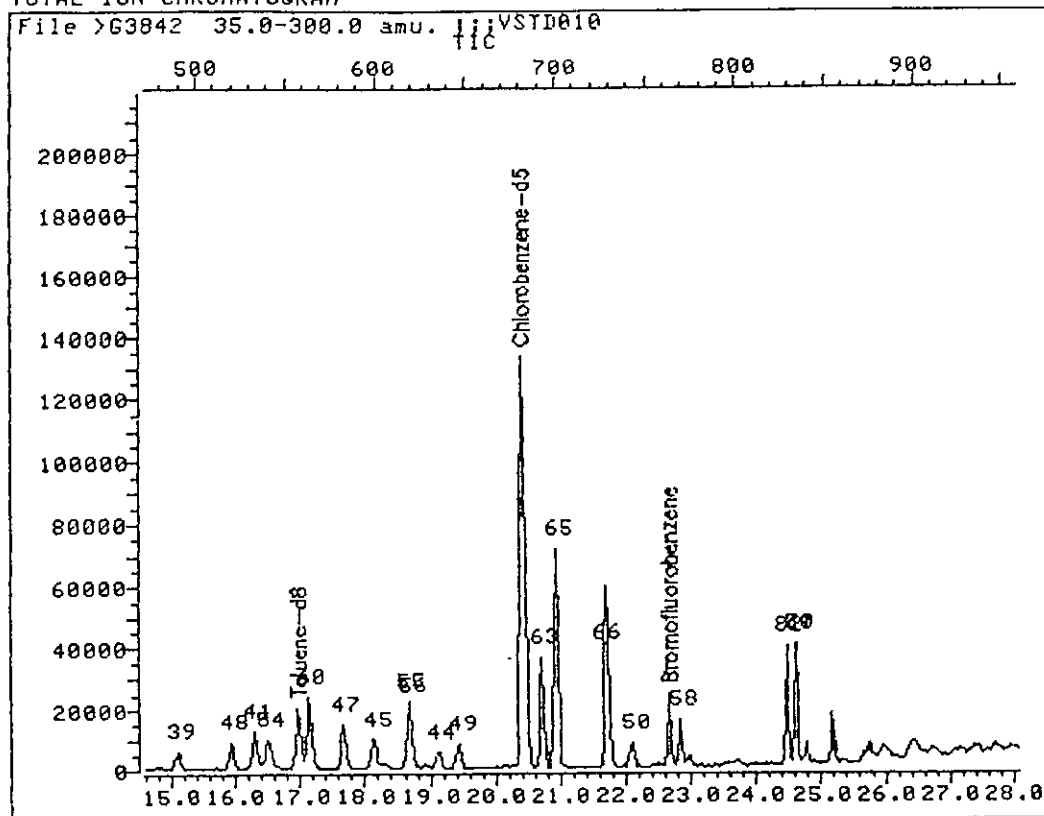
Quant Time: 930126 00:22

Injected at: 930125 23:53

TIC page 1 of 2

0105

TOTAL ION CHROMATOGRAM



Data File: >G3842::G3

Quant Output File: ^G3842::QT

Name: ;;;VSTD010

Misc:

HP5995:G;;;LLS;DF1 ;G1897

Id File: I_IFGS::N1

Title: PURGEABLE ORGANIC COMPOUNDS

Last Calibration: 921228 11:24

Operator ID: MSG

Quant Time: 930126 00:22

Injected at: 930125 23:53

TIC page 2 of 2

QUANT REPORT

Operator ID: MSG
 Output File: ^G3843::QT
 Data File: >G3843::G3
 Name: ;;;USTD020
 Misc:

Quant Rev: 6 Quant Time: 930126 01:01
 Injected at: 930126 00:32
 Dilution Factor: 1.00000

HP5995:G;;;LLS;DF1 ;G1897

ID File: I_IFGS::N1
 Title: PURGEABLE ORGANIC COMPOUNDS
 Last Calibration: 921228 11:24

6140
 01/31/93

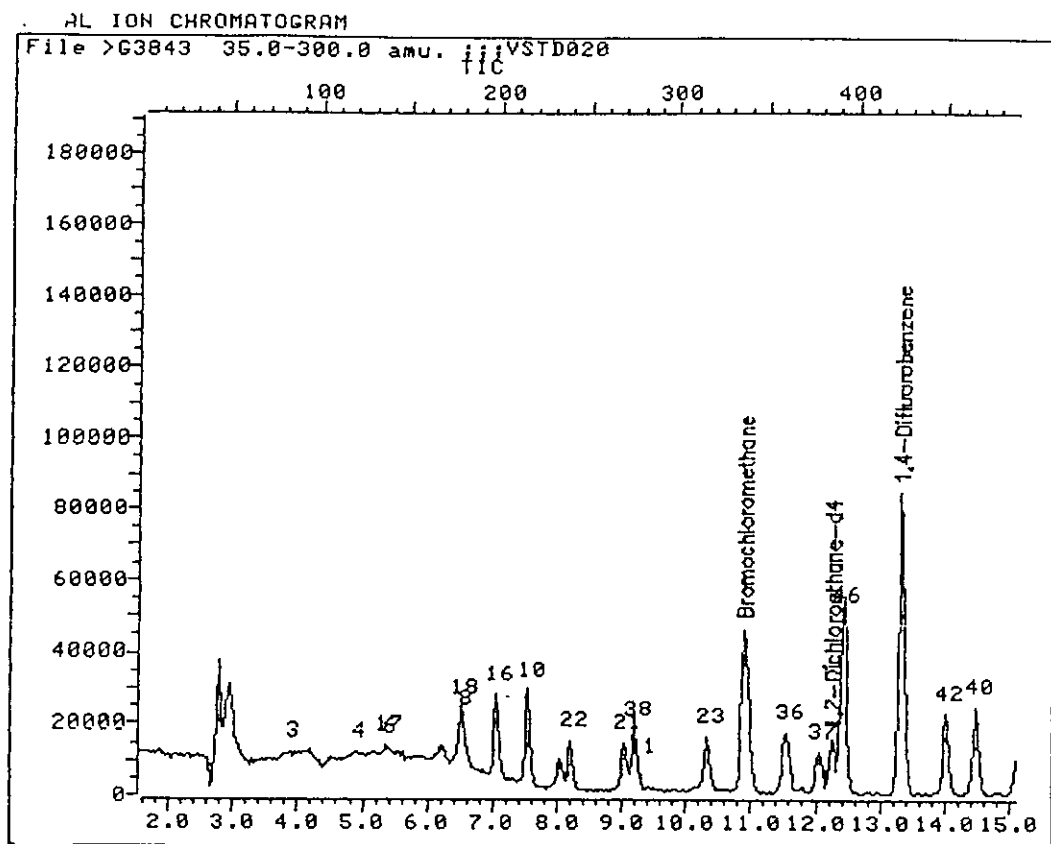
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.89	127.8	26905	50.00	ug/kg	74
3)	Chloromethane	3.90	49.8	19957	56.47	ug/kg	96
4)	Bromomethane	4.92	93.7	11509M	16.80	ug/kg	
5)	Vinyl Chloride	4.15	61.8	18911	24.55	ug/kg	94
6)	Chloroethane	5.39	63.8	11398M	22.40	ug/kg	18
8)	1,1,2-Trichlorotrifluoroethane	6.55	101.0	31180M	59.59	ug/kg	86
10)	Methylene Chloride	7.55	83.8	30016	39.94	ug/kg	92
11)	Acrolein	9.26	55.8	202	202.00	NO CALIB	18
13)	Acetone	6.55	42.8	21800	22.31	ug/kg	97
14)	Acrylonitrile	8.04	52.8	23537	75.03	ug/kg	95
16)	Carbon Disulfide	7.05	75.8	79849	32.69	ug/kg	97
17)	Trichlorofluoromethane	5.36	100.8	15225M	36.29	ug/kg	92
18)	1,1-Dichloroethene	6.50	95.8	11952	17.23	ug/kg	94
21)	1,1-Dichloroethane	9.04	62.8	46083	31.42	ug/kg	97
22)	1,2-Dichloroethene (total)t	8.21	95.8	13683	18.30	ug/kg	97
23)	1,2-Dichloroethene (total)c	10.34	95.8	13113	16.92	ug/kg	95
24)	2-Butanone	10.31	43.0	25597	26.36	ug/kg	90
28)	Chloroform	10.97	82.8	40471	26.66	ug/kg	91
29)	1,2-Dichloroethane	12.44	61.8	56498	19.96	ug/kg	93
30)	1,2-Dichloroethane-d4	12.25	64.8	34963	18.74	ug/kg	89
34)	*1,4-Difluorobenzene	13.32	113.8	193341	50.00	ug/kg	94
36)	1,1,1-Trichloroethane	11.56	96.8	40762	12.58	ug/kg	94
37)	Carbon Tetrachloride	12.05	116.8	25087	10.33	ug/kg	93
38)	Vinyl Acetate	9.21	42.8	92057	20.09	ug/kg	94
39)	Bromodichloromethane	15.12	82.8	22066	9.85	ug/kg	93
40)	1,2-Dichloropropane	14.49	62.8	31025	28.05	ug/kg	92
41)	cis-1,3-Dichloropropene	16.31	74.8	38004	17.18	ug/kg	96
42)	Trichloroethene	14.02	129.8	23363	18.12	ug/kg	94
44)	Dibromochloromethane	19.14	128.7	14087	7.86	ug/kg	98
45)	1,1,2-Trichloroethane	18.14	96.8	18014	18.93	ug/kg	89
46)	Benzene	12.41	77.8	93539	26.88	ug/kg	93
47)	trans-1,3-Dichloropropene	17.69	74.8	41181	17.40	ug/kg	88
48)	2-Chloroethylvinylether	15.95	62.8	20741	26.98	ug/kg	85
49)	1,2-Dibromoethane	19.44	106.9	27582	16.53	ug/kg	93
50)	Bromoform	22.10	172.6	15717	11.96	ug/kg	99
53)	*Chlorobenzene-d5	20.41	116.8	159001	50.00	ug/kg	90
54)	4-Methyl-2-Pentanone	16.53	42.8	43347	21.46	ug/kg	95
55)	2-Hexanone	18.67	42.8	34352	19.24	ug/kg	91
56)	Tetrachloroethene	18.70	163.7	21307	13.39	ug/kg	93
58)	1,1,2,2-Tetrachloroethane	22.87	82.8	37165	22.99	ug/kg	88
60)	Toluene	17.17	91.0	98914	22.84	ug/kg	94
		17.00	87.8	82823	19.77	ug/kg	94

0. 0107

	Compound	R.T.	Q ion	Area	Conc	Units	q
53)	Ethylbenzene	20.71	105.8	31924	21.34	ug/kg	96
54)	Styrene	21.74	103.8	66704	20.31	ug/kg	94
55)	Xylene (total)mp	20.94	105.8	76812	38.95	ug/kg	93
56)	Xylene (total)o	21.71	105.8	36932	19.60	ug/kg	98
71)	1,2,3-Trichloropropane	24.64	74.8	23244	14.79	ug/kg	54
30)	1,3-Dichlorobenzene	24.64	145.8	50694	14.99	ug/kg	96
32)	1,2-Dichlorobenzene	24.50	145.8	54973	16.26	ug/kg	90
91)	Bromofluorobenzene	22.68	94.8	44420	16.82	ug/kg	96

* Compound is ISTD

0108



Data File: >G3843::G3

Quant Output File: ^G3843::QT

Name: ;;;VSTD020

Misc:

HP5995:G;;;LLS;DF1 ;G1897

Id File: I_IFGS::N1

Title: PURGEABLE ORGANIC COMPOUNDS

Last Calibration: 921228 11:24

Operator ID: MSG

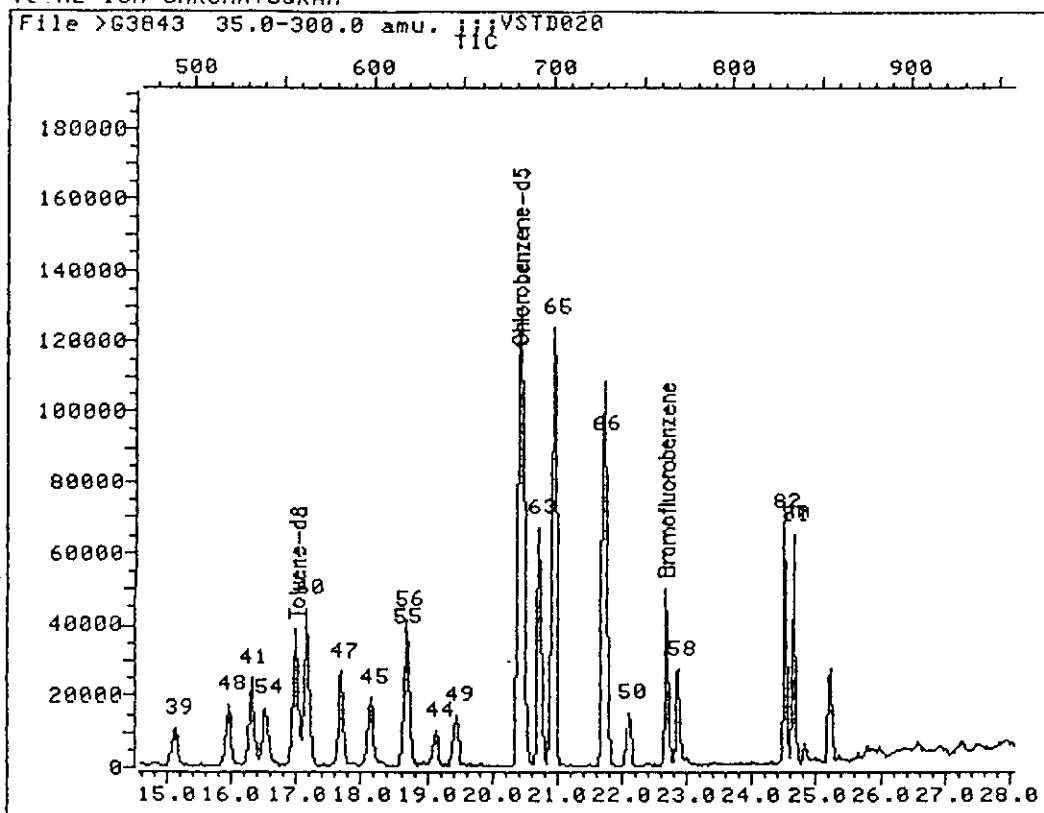
Quant Time: 930126 01:01

Injected at: 930126 00:32

TIC page 1 of 2

0109

TOTAL ION CHROMATOGRAM



Data File: >G3843::G3

Quant Output File: ^G3843::QT

Name: ;;;VSTD020

Misc:

HP5995:G;;;LLS;DF1 ;G1897

Id File: I_IFGS::N1

Title: PURGEABLE ORGANIC COMPOUNDS

Last Calibration: 921228 11:24

Operator ID: MSG

Quant Time: 930126 01:01

Injected at: 930126 00:32

TIC page 2 of 2

0110

QUANT REPORT

Operator ID: MSG Quant Rev: 6 Quant Time: 930126 01:35
 Output File: ^G3844::QT Injected at: 930126 01:06
 Data File: >G3844::G3 Dilution Factor: 1.00000
 Name: ;;;USTD050
 Misc: HP5995;G;;;LLS;DF1 ;G1897

ID File: I_IFGS::N1
 Title: PURGEABLE ORGANIC COMPOUNDS
 Last Calibration: 921228 11:24

LWD
 01/31/13

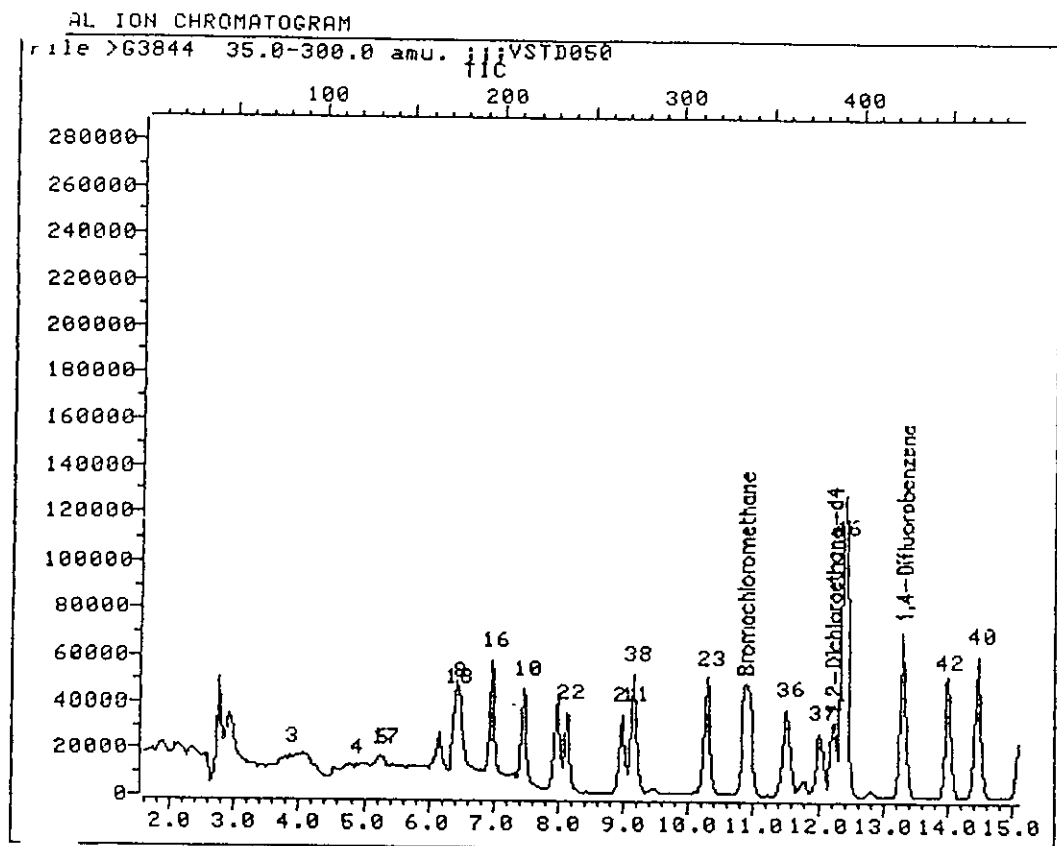
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.86	127.8	25072	50.00	ug/kg	79
3)	Chloromethane	3.87	49.8	41416	125.76	ug/kg	98
4)	Bromomethane	4.87	93.7	22265M	34.88	ug/kg	86
5)	Vinyl Chloride	4.06	61.8	42140	58.69	ug/kg	98
6)	Chloroethane	5.28	63.8	23061M	48.64	ug/kg	99
8)	1,1,2-Trichlorotrifluoroethane	6.47	101.0	70909M	145.44	ug/kg	85
10)	Methylene Chloride	7.46	83.8	42966	61.34	ug/kg	89
11)	Acrolein	9.12	55.8	376	376.00	NO CALIB	73
13)	Acetone	6.50	42.8	75789	83.22	ug/kg	96
14)	Acrylonitrile	7.99	52.8	107274	366.95	ug/kg	94
16)	Carbon Disulfide	6.97	75.8	172481	75.76	ug/kg	98
17)	Trichlorofluoromethane	5.28	100.8	33314M	85.20	ug/kg	98
18)	1,1-Dichloroethene	6.41	95.8	27801	43.01	ug/kg	89
21)	1,1-Dichloroethane	8.98	62.8	110514	80.87	ug/kg	94
22)	1,2-Dichloroethene (total)t	8.13	95.8	33198	47.66	ug/kg	98
23)	1,2-Dichloroethene (total)c	10.28	95.8	29823	41.28	ug/kg	96
24)	2-Butanone	10.28	43.0	110444	122.05	ug/kg	93
28)	Chloroform	10.95	82.8	96187	68.00	ug/kg	97
29)	1,2-Dichloroethane	12.41	61.8	141652	53.69	ug/kg	98
30)	1,2-Dichloroethane-d4	12.22	64.8	74829	43.04	ug/kg	90
34)	*1,4-Difluorobenzene	13.33	113.8	168801	50.00	ug/kg	97
36)	1,1,1-Trichloroethane	11.53	96.8	89917	31.79	ug/kg	95
37)	Carbon Tetrachloride	12.03	116.8	60374	28.47	ug/kg	95
38)	Vinyl Acetate	9.15	42.8	273265	68.31	ug/kg	94
39)	Bromodichloromethane	15.12	82.8	53633	27.41	ug/kg	93
40)	1,2-Dichloropropane	14.46	62.8	74361	76.99	ug/kg	94
41)	cis-1,3-Dichloropropene	16.31	74.8	99525	51.54	ug/kg	97
42)	Trichloroethene	13.99	129.8	55854	49.62	ug/kg	96
44)	Dibromochloromethane	19.14	128.7	38800	24.80	ug/kg	93
45)	1,1,2-Trichloroethane	18.14	96.8	50049	60.26	ug/kg	92
46)	Benzene	12.39	77.8	218186	71.82	ug/kg	91
47)	trans-1,3-Dichloropropene	17.69	74.8	104755	50.70	ug/kg	89
48)	2-Chloroethylvinylether	15.95	62.8	64120	95.53	ug/kg	79
49)	1,2-Dibromoethane	19.44	106.9	77273	53.04	ug/kg	93
50)	Bromoform	22.10	172.6	47624	41.51	ug/kg	98
53)	Chlorobenzene-d5	20.44	116.8	132056	50.00	ug/kg	82
54)	4-Methyl-2-Pentanone	16.53	42.8	194035	115.65	ug/kg	93
55)	2-Hexanone	18.67	42.8	160901	108.50	ug/kg	95
56)	Tetrachloroethene	18.70	163.7	51349	38.84	ug/kg	89
58)	1,1,2,2-Tetrachloroethane	22.87	82.8	115521	86.03	ug/kg	83
59)	Toluene	17.17	91.0	233941	65.03	ug/kg	92
60)		16.87	82.8	189774	54.44	ug/kg	94

0. 0111

Compound		R.T.	Q ion	Area	Conc	Units	q
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33)	Ethylbenzene	20.71	105.8	80255	64.60	ug/kg	96
34)	Styrene	21.74	103.8	156949	57.55	ug/kg	92
35)	Xylene (total)mp	20.94	105.8	180326	110.09	ug/kg	94
36)	Xylene (total)o	21.71	105.8	86124	55.02	ug/kg	94
39)	Isopropylbenzene	22.40	104.8	1285	71.58	ug/kg	88
41)	1,2,3-Trichloropropane	24.64	74.8	54209	41.53	ug/kg	53
40)	1,3-Dichlorobenzene	24.64	145.8	123008	43.80	ug/kg	95
42)	1,2-Dichlorobenzene	24.50	145.8	129340	46.05	ug/kg	94
41)	Bromofluorobenzene	22.68	94.8	100583	45.86	ug/kg	98

* Compound is ISTD

0 0112



Data File: >G3844::G3

Quant Output File: ^G3844::QT

Name: ;;;VSTD050

Misc:

HP5995:G;;;LLS;DF1 ;G1897

Id File: I_IFGS::N1

Title: PURGEABLE ORGANIC COMPOUNDS

Last Calibration: 921228 11:24

Operator ID: MSG

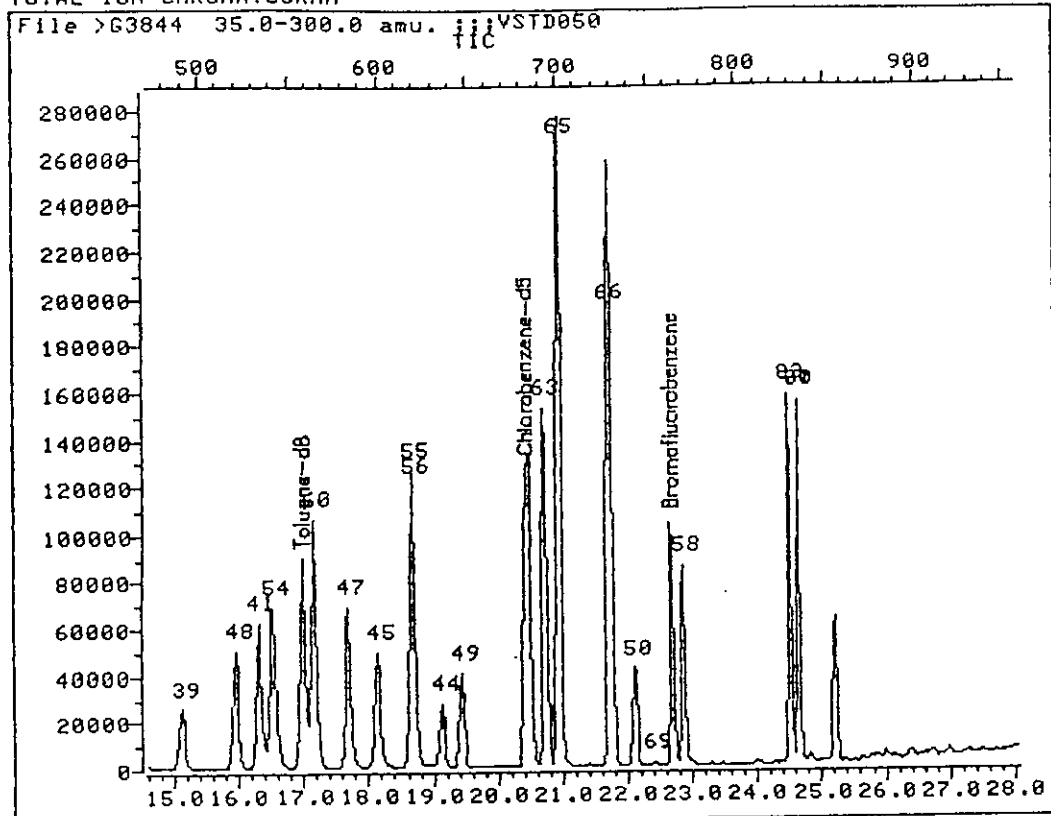
Quant Time: 930126 01:35

Injected at: 930126 01:06

TIC page 1 of 2

0113

TOTAL ION CHROMATOGRAM



Data File: >G3844::G3

Name: ;;;VSTD050

Misc:

Quant Output File: ^G3844::QT

HP5995:G;;;LLS;DF1 ;G1897

Id File: I_IFGS::N1

Title: PURGEABLE ORGANIC COMPOUNDS

Last Calibration: 921228 11:24

Operator ID: MSG

Quant Time: 930126 01:35

Injected at: 930126 01:06

TIC page 2 of 2

0114

QUANT REPORT

Operator ID: MSG Quant Rev: 6 Quant Time: 930126 02:12
 Output File: ^G3845::QT Injected at: 930126 01:43
 Data File: >G3845::G3 Dilution Factor: 1.00000
 Name: ;;;VSTD100
 Misc: HP5995:G;;;LLS;DF1 ;G1897

ID File: I_IFGS::N1
 Title: PURGEABLE ORGANIC COMPOUNDS
 Last Calibration: 921228 11:24

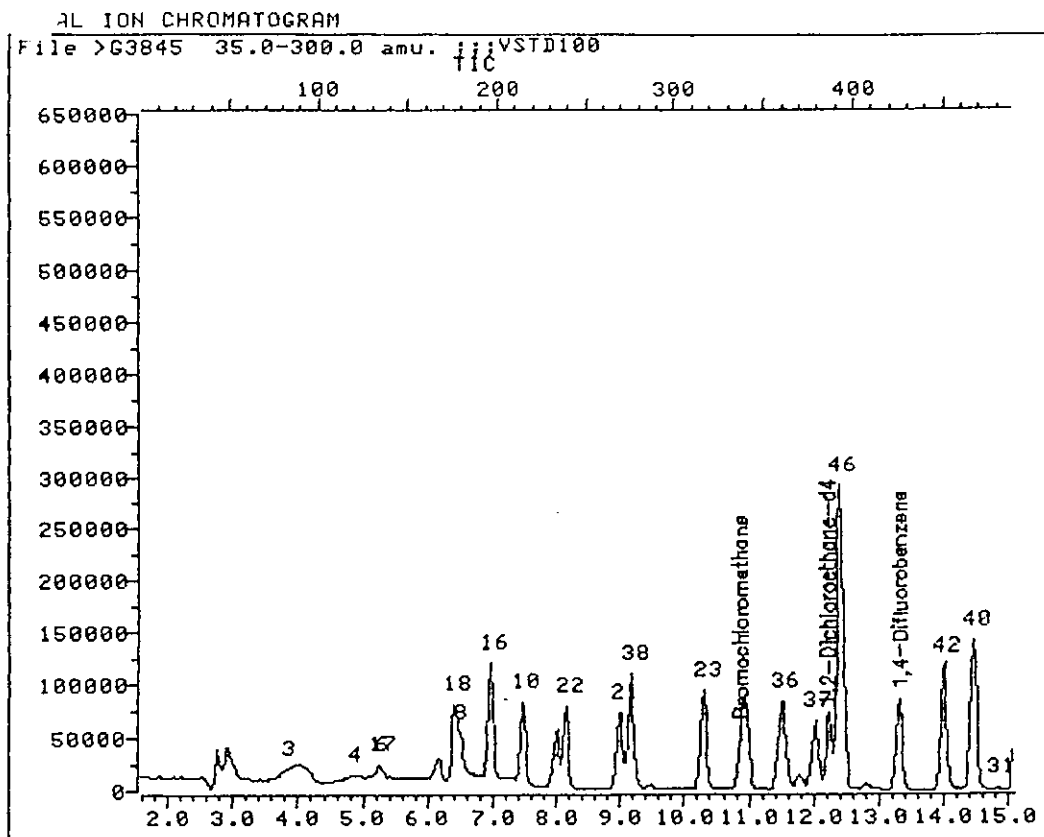
L-40
01/31/93

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *Bromochloromethane	10.87	127.8	25988	50.00	ug/kg	65
3) Chloromethane	3.84	49.8	112662	330.05	ug/kg	98
4) Bromomethane	4.87	93.7	44275M	66.92	ug/kg	85
5) Vinyl Chloride	4.06	61.8	106326	142.88	ug/kg	97
6) Chloroethane	5.25	63.8	44150M	89.84	ug/kg	58
8) 1,1,2-Trichlorotrifluoroethane	6.50	101.0	155743M	308.18	ug/kg	89
10) Methylene Chloride	7.46	83.8	83859	115.51	ug/kg	91
13) Acetone	6.50	42.8	97701	103.50	ug/kg	98
14) Acrylonitrile	8.02	52.8	152220	502.34	ug/kg	94
16) Carbon Disulfide	6.97	75.8	400852	169.87	ug/kg	99
17) Trichlorofluoromethane	5.25	100.8	69050M	170.37	ug/kg	98
18) 1,1-Dichloroethene	6.41	95.8	56906	84.94	ug/kg	90
11) 1,1-Dichloroethane	9.01	62.8	260607	183.98	ug/kg	96
12) 1,2-Dichloroethene (total)t	8.16	95.8	74184	102.74	ug/kg	96
13) 1,2-Dichloroethene (total)c	10.31	95.8	71919	96.05	ug/kg	94
14) 2-Butanone	10.31	43.0	147972	157.75	ug/kg	91
18) Chloroform	10.95	82.8	210548	143.60	ug/kg	95
9) 1,2-Dichloroethane	12.41	61.8	316799	115.85	ug/kg	99
0) 1,2-Dichloroethane-d4	12.22	64.8	165237	91.68	ug/kg	89
1) Dibromomethane	14.82	92.9	1036	81.94	ug/kg	97
4) *1,4-Difluorobenzene	13.33	113.8	193236	50.00	ug/kg	97
6) 1,1,1-Trichloroethane	11.50	96.8	201881	62.35	ug/kg	97
7) Carbon Tetrachloride	12.03	116.8	140600	57.92	ug/kg	91
8) Vinyl Acetate	9.18	42.8	570385	124.56	ug/kg	93
9) Bromodichloromethane	15.10	82.8	128500	57.37	ug/kg	93
0) 1,2-Dichloropropane	14.46	62.8	178304	161.27	ug/kg	91
1) cis-1,3-Dichloropropene	16.31	74.8	232222	105.05	ug/kg	97
2) Trichloroethene	13.99	129.8	130099	100.96	ug/kg	93
4) Dibromochloromethane	19.14	128.7	90561	50.56	ug/kg	99
5) 1,1,2-Trichloroethane	18.14	96.8	110421	116.13	ug/kg	94
6) Benzene	12.41	77.8	498966	143.48	ug/kg	91
7) trans-1,3-Dichloropropene	17.67	74.8	244607	103.41	ug/kg	93
8) 2-Chloroethylvinylether	15.95	62.8	129287	168.26	ug/kg	80
9) 1,2-Dibromoethane	19.44	106.9	160322	96.13	ug/kg	96
0) Bromoform	22.10	172.6	100069	76.18	ug/kg	99
3) *Chlorobenzene-d5	20.41	116.8	155995	50.00	ug/kg	86
4) -Methyl-2-Pentanone	16.50	42.8	299644	151.19	ug/kg	92
5) 2-Hexanone	18.67	42.8	225533	128.74	ug/kg	97
5) Tetrachloroethene	18.70	163.7	111138	71.17	ug/kg	90
3) 1,1,2,2-Tetrachloroethane	22.85	82.8	223004	140.59	ug/kg	86
1) Toluene	12.17	91.0	529778	124.66	ug/kg	93

	Compound	R.T.	Q ion	Area	Conc	Units	q
63)	Ethylbenzene	20.72	105.8	171946	117.16	ug/kg	98
64)	Styrene	21.74	103.8	320478	99.48	ug/kg	85
65)	Xylene (total)mp	20.94	105.8	366897	189.62	ug/kg	93
66)	Xylene (total)o	21.71	105.8	178477	96.53	ug/kg	86
69)	Isopropylbenzene	22.40	104.8	2539	119.73	ug/kg	94
71)	1,2,3-Trichloropropane	24.50	74.8	114188	74.05	ug/kg	53
80)	1,3-Dichlorobenzene	24.64	145.8	252768	76.19	ug/kg	89
82)	1,2-Dichlorobenzene	24.48	145.8	263041	79.29	ug/kg	89
90)	Pentachloroethane	23.95	167.0	1225	1225.00	NO CALIB	81
91)	Bromofluorobenzene	22.68	94.8	210809	81.37	ug/kg	79

* Compound is ISTD

0116



Data File: >G3845::G3

Quant Output File: ^G3845::QT

Name: ;;;VSTD100

Misc:

HP5995;G;;;LLS;DF1 ;G1897

Id File: I_IFGS::N1

Title: PURGEABLE ORGANIC COMPOUNDS

Last Calibration: 921228 11:24

Operator ID: MSG

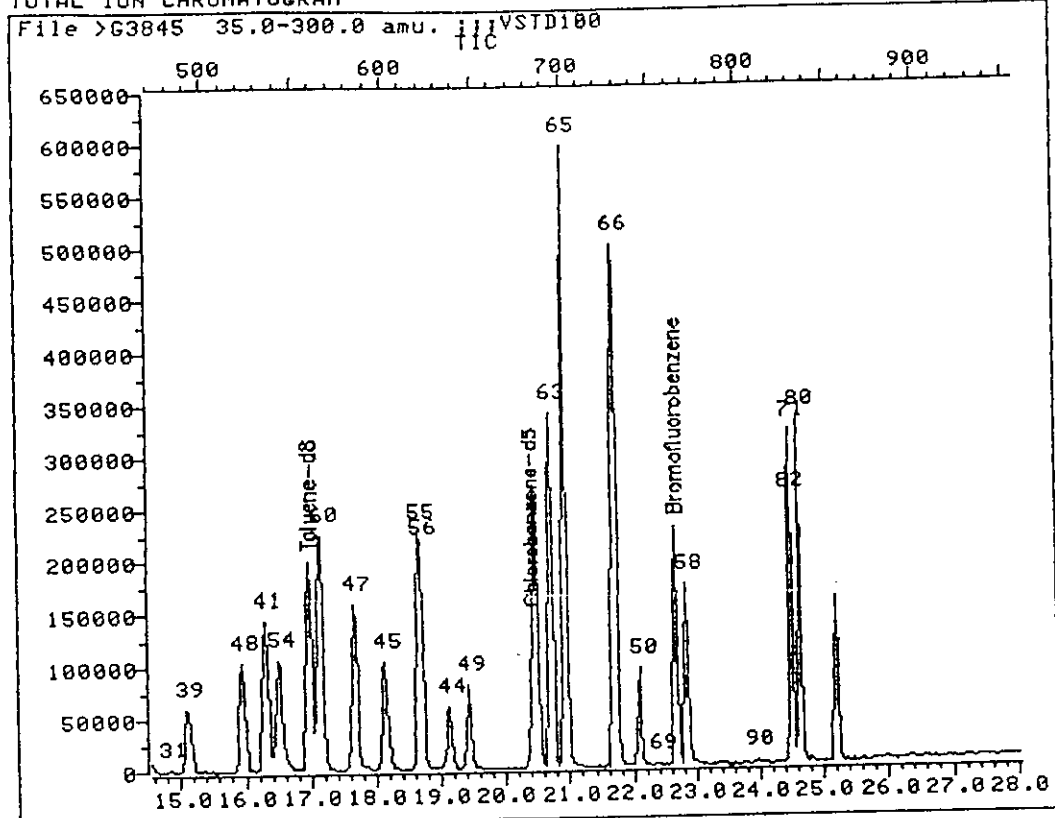
Quant Time: 930126 02:12

Injected at: 930126 01:43

TIC page 1 of 2

0117

TOTAL ION CHROMATOGRAM



Data File: >G3845::G3
Name: ;;;VSTD100
Misc:

Quant Output File: ^G3845::QT
HP5995:G;;;LLS;DF1 ;G1897

Id File: I_IFGS::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 921228 11:24

Operator ID: MSG
Quant Time: 930126 02:12
Injected at: 930126 01:43

TIC page 2 of 2

QUANT REPORT

Operator ID: MSG Quant Rev: 6 Quant Time: 930126 07:50
 Output File: ^G3847::QT Injected at: 930126 02:51
 Data File: >G3847::G3 Dilution Factor: 1.00000
 Name: ;;;USTD200
 Misc: HP5995:G;;;LLS;DF1 ;G1897

ID File: I_IFGS::N1
 Title: PURGEABLE ORGANIC COMPOUNDS
 Last Calibration: 921228 11:24

LWD
 01/31/93

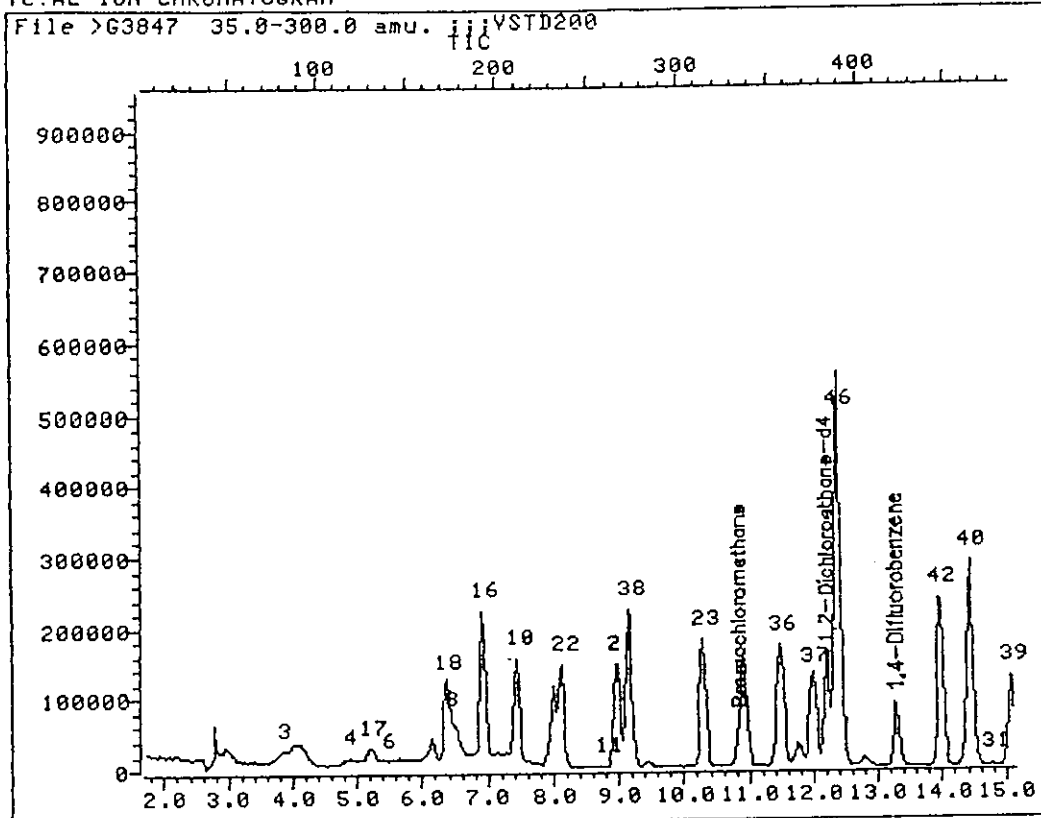
Compound	R.T.	Q ion	Area	Conc	Units	q
1) *Bromochloromethane	10.84	127.8	26116	50.00	ug/kg	70
3) Chloromethane	3.87	49.8	165651	482.91	ug/kg	91
4) Bromomethane	4.89	93.7	72071M	108.39	ug/kg	87
5) Vinyl Chloride	4.12	61.8	195632	261.59	ug/kg	99
6) Chloroethane	5.47	63.8	75292M	152.47	ug/kg	62
8) 1,1,2-Trichlorotrifluoroethane	6.44	101.0	96728	190.46	ug/kg	84
10) Methylene Chloride	7.44	83.8	144914	198.63	ug/kg	86
11) Acrolein	8.79	55.8	345	345.00	NO CALIB	74
13) Acetone	6.52	42.8	158989	167.61	ug/kg	97
14) Acrylonitrile	7.99	52.8	306236	1005.65	ug/kg	96
16 Carbon Disulfide	6.91	75.8	747443	315.20	ug/kg	99
17 Trichlorofluoromethane	5.20	100.8	52304	128.42	ug/kg	93
18) 1,1-Dichloroethene	6.36	95.8	96306	143.05	ug/kg	90
19) 3-Chloro-1-Propene	7.44	40.9	11559^11559	11559.00	NO CALIB	60
21) 1,1-Dichloroethane	8.99	62.8	534830	375.73	ug/kg	96
22) 1,2-Dichloroethene (total)t	8.13	95.8	136671	188.35	ug/kg	94
23) 1,2-Dichloroethene (total)c	10.29	95.8	148517	197.37	ug/kg	96
24) 2-Butanone	10.31	43.0	284542	301.87	ug/kg	90
28) Chloroform	10.92	82.8	366893	249.01	ug/kg	99
29) 1,2-Dichloroethane	12.41	61.8	618004	224.89	ug/kg	98
30) 1,2-Dichloroethane-d4	12.19	64.8	391656	216.25	ug/kg	93
31) Dibromomethane	14.79	92.9	1227	96.57	ug/kg	93
34) *1,4-Difluorobenzene	13.27	113.8	202762	50.00	ug/kg	99
36) 1,1,1-Trichloroethane	11.47	96.8	414795	122.09	ug/kg	94
37) Carbon Tetrachloride	11.97	116.8	302385	118.71	ug/kg	88
38) Vinyl Acetate	9.15	42.8	1234712	256.97	ug/kg	93
39) Bromodichloromethane	15.07	82.8	277487	118.07	ug/kg	94
40) 1,2-Dichloropropane	14.43	62.8	381678	329.00	ug/kg	93
41) cis-1,3-Dichloropropene	16.28	74.8	499142	215.18	ug/kg	97
42) Trichloroethene	13.96	129.8	258450	191.15	ug/kg	94
44) Dibromochloromethane	19.14	128.7	189147	100.63	ug/kg	97
45) 1,1,2-Trichloroethane	18.12	96.8	218982	219.48	ug/kg	91
46) Benzene	12.36	77.8	960489	263.22	ug/kg	91
47) trans-1,3-Dichloropropene	17.67	74.8	513118	206.74	ug/kg	87
48) 2-Chloroethylvinylether	15.93	62.8	291318	361.33	ug/kg	79
49) 1,2-Dibromoethane	19.45	106.9	343906	196.52	ug/kg	94
0 Bromoform	22.10	172.6	201176	145.96	ug/kg	97
1) Butyl Acetate	18.67	55.8	3377	3377.00	NO CALIB	59
3) *Chlorobenzene-d5	20.41	116.8	153613	50.00	ug/kg	90
4) 4-Methyl-2-Pentanone	16.51	42.8	636393	326.07	ug/kg	90
5) 2-Hexanone	18.67	42.8	448874	260.21	ug/kg	94
6) 2-Pentanone	18.70	143.7	206066	136.00	ug/kg	88

	Compound	R.T.	Q ion	Area	Conc	Units	q
60)	Toluene	17.14	91.0	1109827	265.21	ug/kg	98
61)	Toluene-d8	16.95	97.8	903357	222.80	ug/kg	94
62)	Chlorobenzene	20.50	111.8	616389	212.09	ug/kg	86
63)	Ethylbenzene	20.72	105.8	325875	225.49	ug/kg	98
64)	Styrene	21.77	103.8	575715	181.48	ug/kg	84
65)	Xylene (total)mp	20.94	105.8	626337	328.72	ug/kg	92
66)	Xylene (total)o	21.71	105.8	317672	174.47	ug/kg	89
69)	Isopropylbenzene	22.40	104.8	5126	245.48	ug/kg	93
71)	1,2,3-Trichloropropane	24.67	74.8	219805	144.76	ug/kg	54
74)	4-Chlorotoluene	23.12	90.8	1161	1161.00	NO CALIB	70
80)	1,3-Dichlorobenzene	24.53	145.8	478304	146.41	ug/kg	85
81)	1,4-Dichlorobenzene	24.67	145.8	469371	146.87	ug/kg	84
82)	1,2-Dichlorobenzene	24.53	145.8	478304	146.41	ug/kg	85
90)	Pentachloroethane	23.98	167.0	2609	2609.00	NO CALIB	75
91)	Bromofluorobenzene	22.71	94.8	431861	169.29	ug/kg	80

* Compound is ISTD

0 0120

TOTAL ION CHROMATOGRAM



Data File: >G3847::G3

Quant Output File: ^G3847::QT

Name: ;;;VSTD200

Misc:

HP5995:G;;;LLS;DF1 ;G1897

Id File: I_IFGS::N1

Title: PURGEABLE ORGANIC COMPOUNDS

Last Calibration: 921228 11:24

Operator ID: MSG

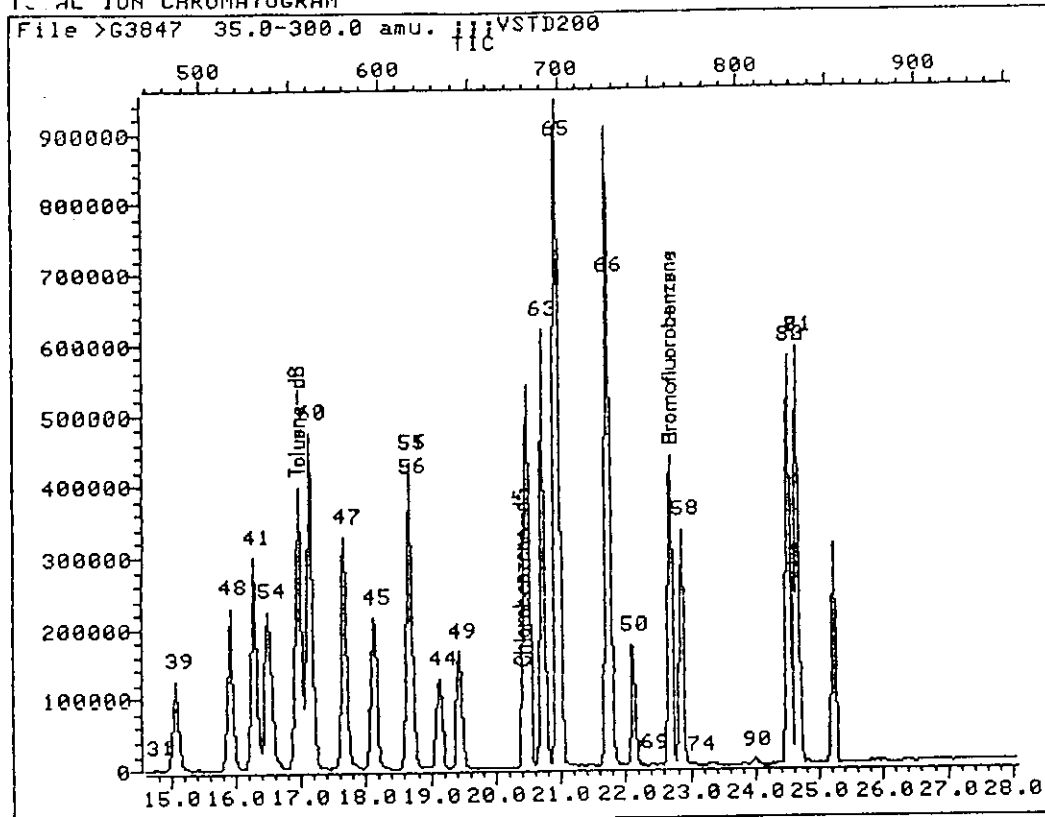
Quant Time: 930126 07:50

Injected at: 930126 02:51

TIC page 1 of 2

0121

TOTAL ION CHROMATOGRAM



Data File: >G3847::G3

Quant Output File: ^G3847::QT

Name: ;;;VSTD200

Misc:

HP5995:G;;;LLS;DF1 ;G1897

Id File: I_IFGS::N1

Title: PURGEABLE ORGANIC COMPOUNDS

Last Calibration: 921228 11:24

Operator ID: MSG

Quant Time: 930126 07:50

Injected at: 930126 02:51

TIC page 2 of 2

7A
VOLATILE CONTINUING CALIBRATION CHECK

0122

Lab Name: IEA/CT Contract:
Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060
Instrument ID: HP5995G Calibration Date: 01/26/93 Time: 0933
Lab File ID: G3849.D Init. Calibration Date(s): 01/25/93 01/26/93
Heated Purge: (Y/N) Y Init. Calibration Times: 2353 ... 0251
GC Column: 007-624 ID: 0.53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	1.828	1.152		37.0	
Bromomethane	0.951	1.040	0.100	-9.4	25.0
Vinyl Chloride	1.818	1.582	0.100	13.0	25.0
Chloroethane	0.920	1.055		-14.6	
Methylene Chloride	1.921	1.772		7.8	
Acetone	2.499	2.252		9.9	
Carbon Disulfide	7.412	7.373		0.5	
1,1-Dichloroethene	1.089	1.174	0.100	-7.8	25.0
1,1-Dichloroethane	4.683	4.386	0.200	6.4	25.0
1,2-Dichloroethene (total)	1.326	1.310		1.2	
Chloroform	3.683	3.670	0.200	0.3	25.0
1,2-Dichloroethane	5.810	6.070	0.100	-4.5	25.0
2-Butanone	3.093	3.132		-1.3	
1,1,1-Trichloroethane	0.514	0.536	0.100	-4.1	25.0
Carbon Tetrachloride	0.350	0.386	0.100	-10.1	25.0
Bromodichloromethane	0.310	0.337	0.200	-8.6	25.0
1,2-Dichloropropane	0.432	0.425		1.7	
cis-1,3-Dichloropropene	0.361	0.382	0.200	-5.8	25.0
Trichloroethene	0.319	0.324	0.300	-1.6	25.0
Dibromochloromethane	0.212	0.234	0.100	-10.6	25.0
1,1,2-Trichloroethane	0.265	0.291	0.100	-9.7	25.0
Benzene	1.237	1.276	0.500	-3.2	25.0
trans-1,3-Dichloropropene	1.402	1.536	0.100	-9.6	25.0
Bromoform	0.240	0.272	0.100	-13.6	25.0
4-Methyl-2-Pentanone	0.988	1.027		-3.9	
2-Hexanone	0.763	0.807		-5.8	
Tetrachloroethene	0.354	0.362	0.200	-2.1	25.0
1,1,2,2-Tetrachloroethane	0.708	0.790	0.500	-11.6	25.0
Toluene	1.693	1.935	0.400	-14.3	25.0
Chlorobenzene	1.006	1.047	0.500	-4.0	25.0
Ethylbenzene	0.549	0.547	0.100	0.3	25.0
Styrene	1.058	1.099	0.300	-3.9	25.0
Xylene (total)	0.590	0.638	0.300	-8.2	25.0
Toluene-d8	1.359	1.386		-1.9	
Bromofluorobenzene	0.707	0.694	0.200	1.9	25.0
1,2-Dichloroethane-d4	3.276	3.496		-6.7	

All other compounds must meet a minimum RRF of 0.010.

QUANT REPORT

Operator ID: MSG Quant Rev: 6 Quant Time: 930126 10:02
 Output File: ^G3849::QT Injected at: 930126 09:33
 Data File: >G3849::G3 Dilution Factor: 1.00000
 Name: ;;;USTD050
 Misc: HP5995:G;;;LLS;DF1 ;G1900

ID File: I_IFGS::N1
 Title: PURGEABLE ORGANIC COMPOUNDS
 Last Calibration: 921228 11:24

MM 1/26/93

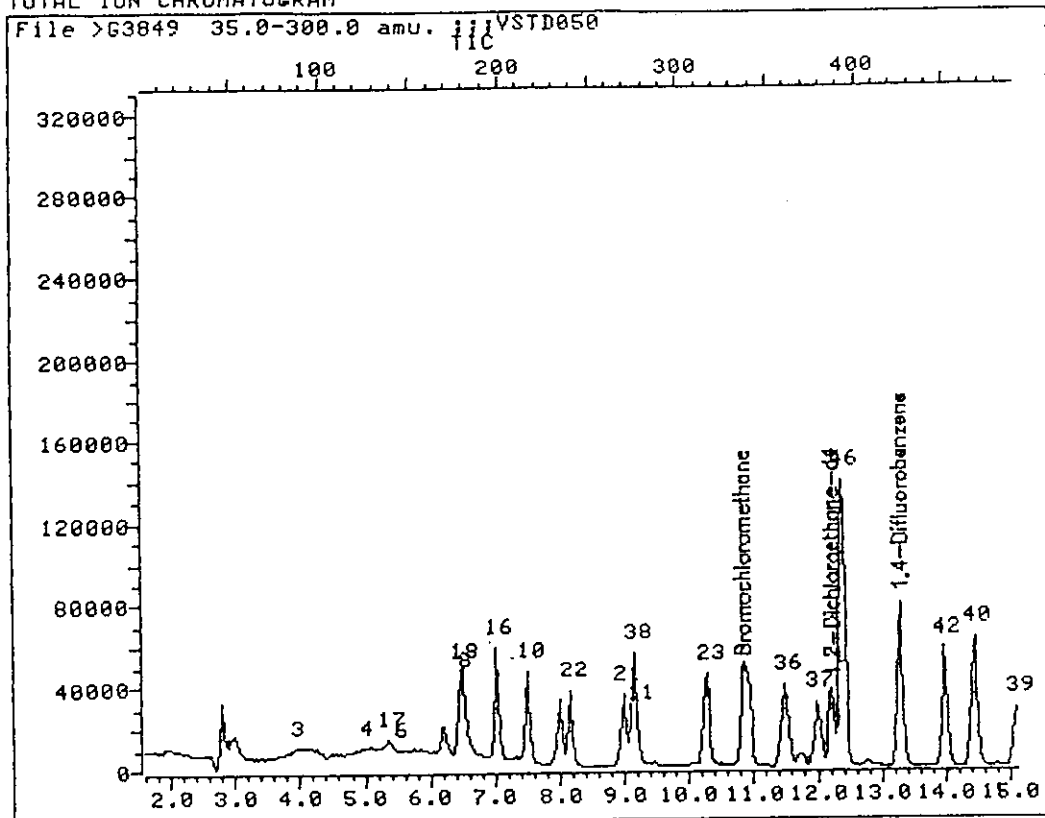
Compound	R.T.	Q	ion	Area	Conc	Units	q
1) *Bromochloromethane	10.84	127.8		25974	50.00	ug/kg	78
3) Chloromethane	3.93	49.8		29922	87.71	ug/kg	97
4) Bromomethane	5.00	93.7		27024M	40.87	ug/kg	73
5) Vinyl Chloride	4.17	61.8		41094	55.25	ug/kg	97
6) Chloroethane	5.53	63.8		27397M	55.78	ug/kg	63
8) 1,1,2-Trichlorotrifluoroethane	6.52	101.0		45902	90.88	ug/kg	91
10) Methylene Chloride	7.49	83.8		46033	63.44	ug/kg	93
11) Acrolein	9.21	55.8		56	56.00	NO CALIB	1
13) Acetone	6.52	42.8		58496	62.00	ug/kg	98
14) Acrylonitrile	7.99	52.8		82350	271.91	ug/kg	96
16) Carbon Disulfide	7.02	75.8		191503	81.20	ug/kg	99
17) Trichlorofluoromethane	5.34	100.8		16723	41.28	ug/kg	96
18) 1,1-Dichloroethene	6.47	95.8		30483	45.53	ug/kg	89
21) 1,1-Dichloroethane	8.98	62.8		113914	80.46	ug/kg	98
22) 1,2-Dichloroethene (total)t	8.16	95.8		34504	47.81	ug/kg	96
23) 1,2-Dichloroethene (total)c	10.28	95.8		33555	44.84	ug/kg	96
24) 2-Butanone	10.26	43.0		81361	86.79	ug/kg	91
28) Chloroform	10.92	82.8		95337	65.06	ug/kg	98
29) 1,2-Dichloroethane	12.41	61.8		157671	57.69	ug/kg	94
30) 1,2-Dichloroethane-d4	12.22	64.8		90815	50.42	ug/kg	92
34) *1,4-Difluorobenzene	13.30	113.8		181237	50.00	ug/kg	99
36) 1,1,1-Trichloroethane	11.50	96.8		97054	31.96	ug/kg	94
37) Carbon Tetrachloride	12.00	116.8		69873	30.69	ug/kg	93
38) Vinyl Acetate	9.15	42.8		284243	66.18	ug/kg	94
39) Bromodichloromethane	15.09	82.8		61019	29.05	ug/kg	93
40) 1,2-Dichloropropane	14.46	62.8		76980	74.24	ug/kg	89
41) cis-1,3-Dichloropropene	16.28	74.8		106570	51.40	ug/kg	98
42) Trichloroethene	13.99	129.8		58765	48.62	ug/kg	95
44) Dibromochloromethane	19.14	128.7		42444	25.26	ug/kg	96
45) 1,1,2-Trichloroethane	18.14	96.8		52740	59.14	ug/kg	94
46) Benzene	12.38	77.8		231336	70.93	ug/kg	90
47) trans-1,3-Dichloropropene	17.66	74.8		116952	52.72	ug/kg	93
48) 2-Chloroethylvinylether	15.92	62.8		61154	84.86	ug/kg	85
49) 1,2-Dibromoethane	19.44	106.9		78369	50.10	ug/kg	94
50) Bromoform	22.10	172.6		49347	40.06	ug/kg	97
53) *Chlorobenzene-d5	20.41	116.8		143140	50.00	ug/kg	88
54) 4-Methyl-2-Pentanone	16.50	42.8		146981	80.82	ug/kg	94
55) 2-Hexanone	18.67	42.8		115480	71.84	ug/kg	95
56) Tetrachloroethene	18.70	163.7		51789	36.14	ug/kg	92
58) 1,1,2,2-Tetrachloroethane	22.84	82.8		113113	77.71	ug/kg	86
60) Toluene	17.14	91.0		276979	71.03	ug/kg	95
	16.27	27.8		198322	52.51	ug/kg	94

	Compound	R.T.	Q ion	Area	Conc	Units	q
63)	Ethylbenzene	20.71	105.8	78321	58.16	ug/kg	97
64)	Styrene	21.74	103.8	157379	53.24	ug/kg	89
65)	Xylene (total)mp	20.93	105.8	184394	103.85	ug/kg	94
66)	Xylene (total)o	21.71	105.8	91362	53.85	ug/kg	91
71)	1,2,3-Trichloropropane	24.61	74.8	55792	39.43	ug/kg	53
80)	1,3-Dichlorobenzene	24.61	145.8	131259	43.12	ug/kg	97
82)	1,2-Dichlorobenzene	24.47	145.8	140231	46.07	ug/kg	94
91)	Bromofluorobenzene	22.68	94.8	99286	41.77	ug/kg	83

* Compound is ISTD

0 0125

TOTAL ION CHROMATOGRAM



Data File: >G3849::G3

Quant Output File: ^G3849::QT

Name: ;;;VSTD050

Misc:

HP5995:G;;;LLS;DF1 ;G1900

Id File: I_IFGS::N1

Title: PURGEABLE ORGANIC COMPOUNDS

Last Calibration: 921228 11:24

Operator ID: MSG

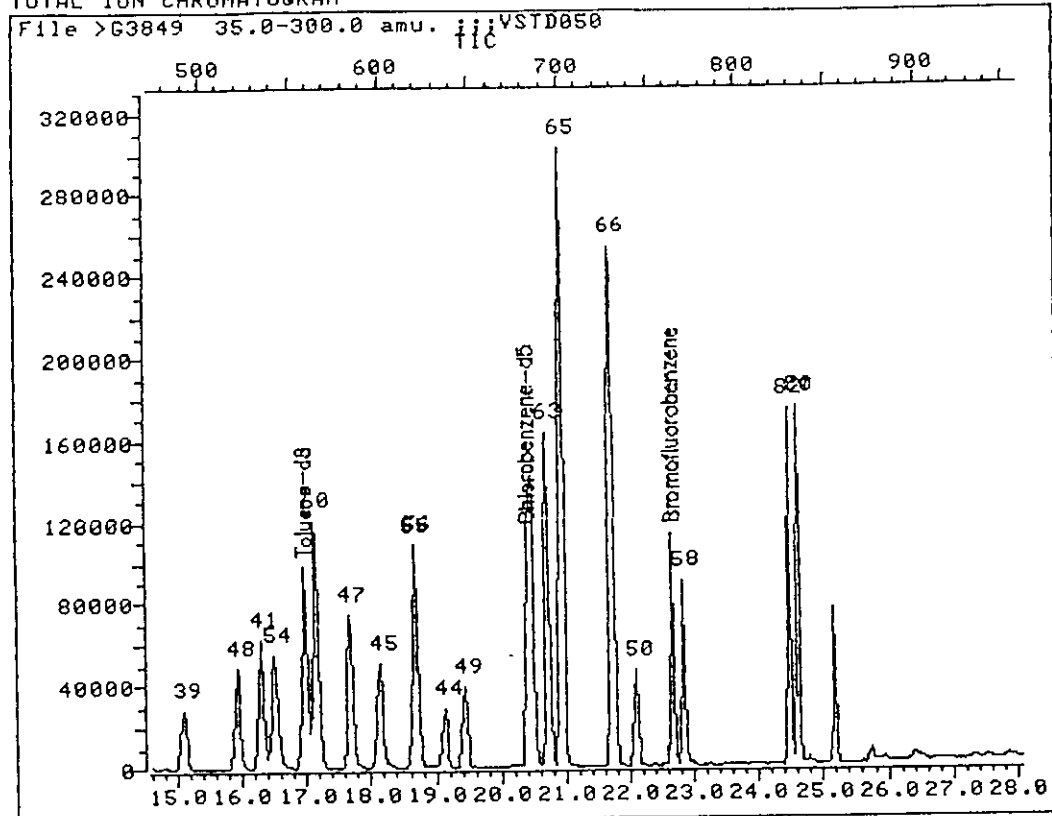
Quant Time: 930126 10:02

Injected at: 930126 09:33

TIC page 1 of 2

0126

TOTAL ION CHROMATOGRAM



Data File: >G3849::G3

Quant Output File: ^G3849::QT

Name: ;;;VSTD050

Misc:

HP5995:G;;;LLS;DF1 ;G1900

Id File: I_IFGS::N1

Title: PURGEABLE ORGANIC COMPOUNDS

Last Calibration: 921228 11:24

Operator ID: MSG

Quant Time: 930126 10:02

Injected at: 930126 09:33

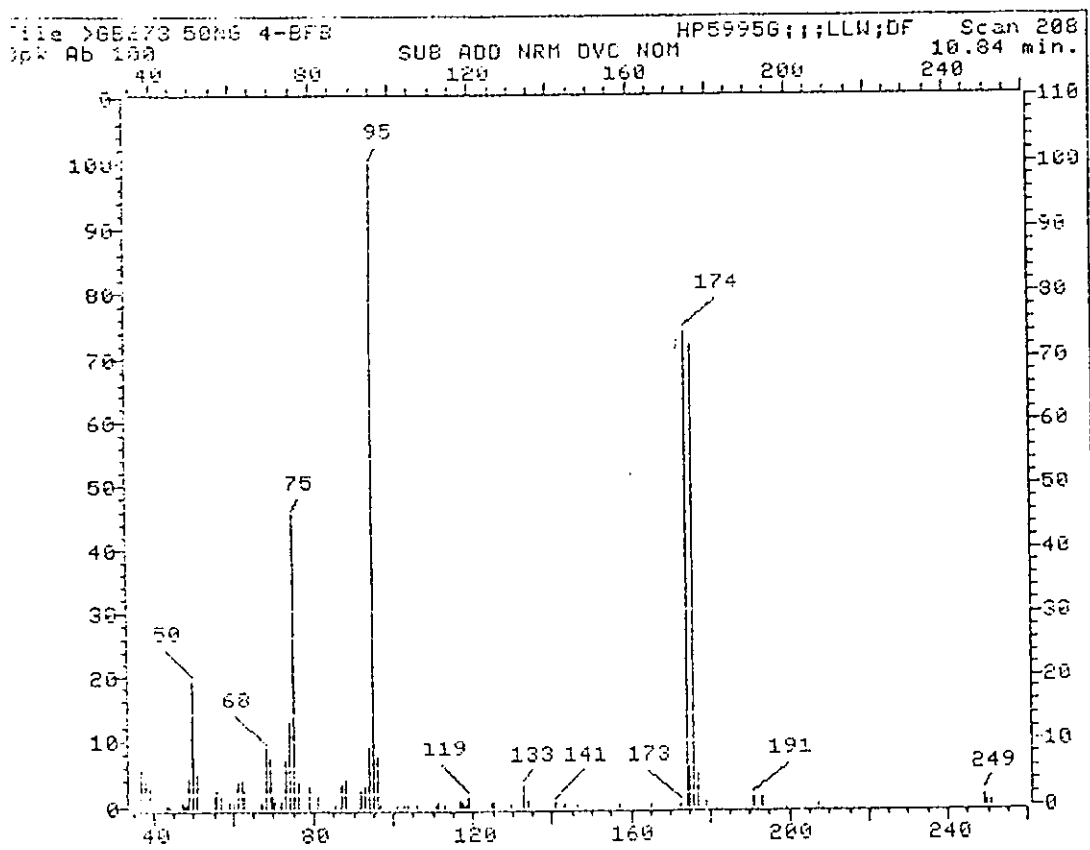
TIC page 2 of 2

0127

MS data file header from : >G68273

Sample: 50NG 4-BFB Operator: MSG MS 1/25/93 23:02
Misc : HP5995G;;;LLW;DF1 ;G1899
Sys. #: 2 MS model: 96 SW/HW rev.: 1A ALS #: 0
Method file: M_GBCP Tuning file: T_G No. of extra records: 2
Source temp.: 224 Analyzer temp.: 240 Transfer line temp.: 185

Chromatographic temperatures :	50.	180.	0.	0.	0.
Chromatographic times, min. :	1.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	12.0	0.0	0.0	0.0	0.0

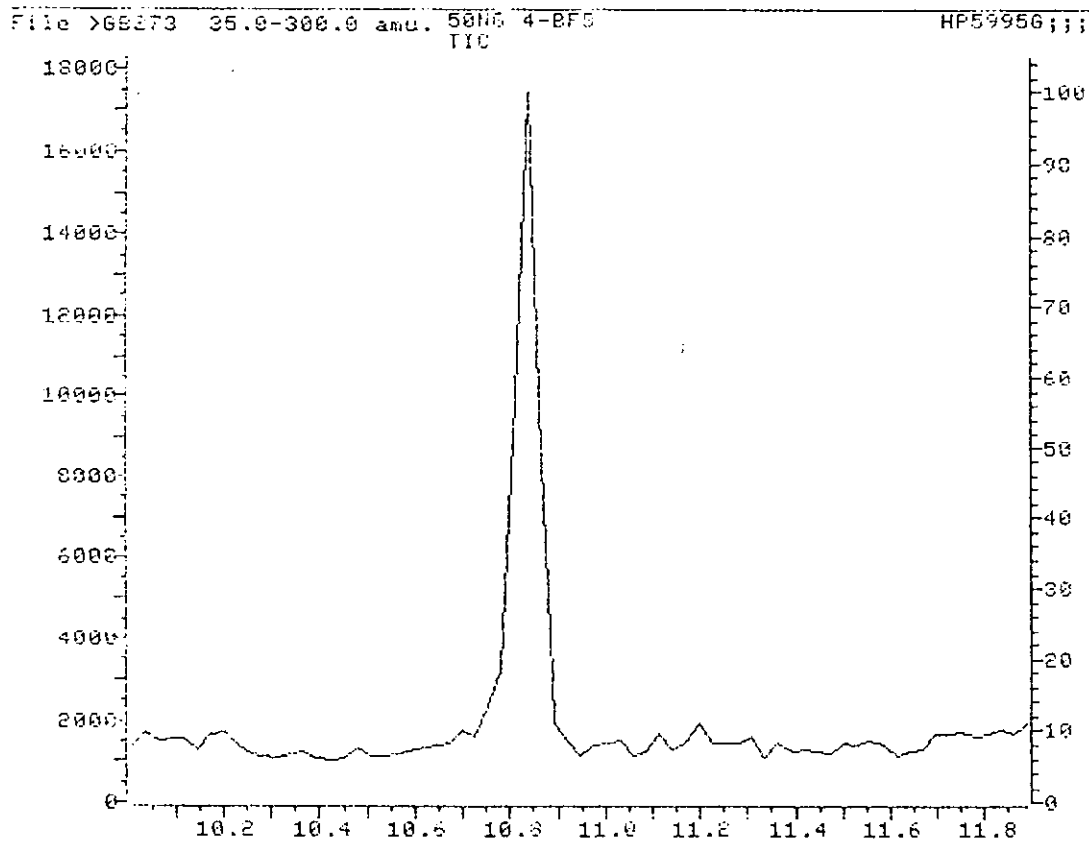


0129

MS data file header from : >G8273

Sample: 50NG 4-BFB Operator: MSG MS 1/25/93 23:02
Misc : HP5995G;;;LLW;DF1 ;G1899
Sys. #: 2 MS model: 96 SW/HW rev.: 1A ALS #: 0
Method file: M_G8CP Tuning file: T_G No. of extra records: 2
Source temp.: 224 Analyzer temp.: 240 Transfer line temp.: 185

Chromatographic temperatures :	50.	180.	0.	0.	0.
Chromatographic times, min. :	1.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	12.0	0.0	0.0	0.0	0.0

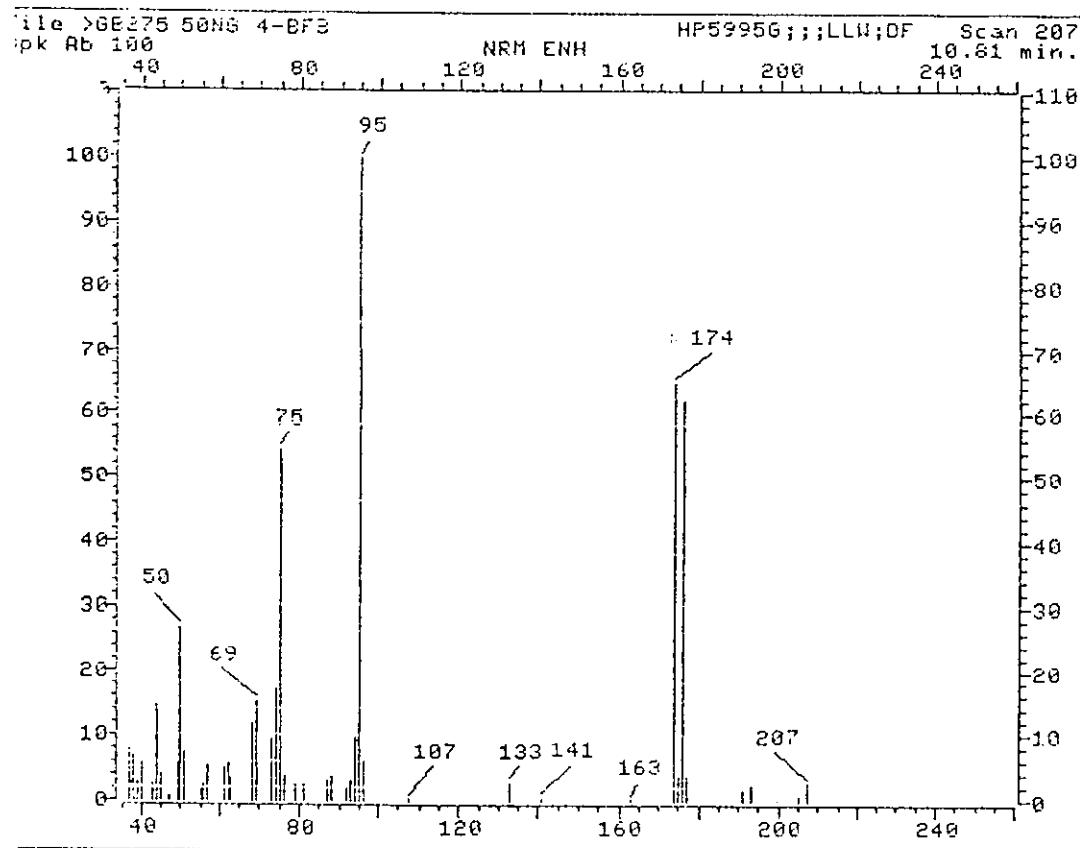


0130

MS data file header from : >GE275

Sample: 50NG 4-BFB Operator: MSB MS 1/26/93 8:59
 Misc : HP5995G;;;LLN;DF1 ;G1900
 Sys. #: 2 MS model: 96 SW/HW rev.: 1A ALS #: 0
 Method file: M_GBCP Tuning file: T_G No. of extra records: 2
 Source temp.: 224 Analyzer temp.: 240 Transfer line temp.: 185

Chromatographic temperatures : 50. 180. 0. 0. 0.
 Chromatographic times, min. : 1.0 0.0 0.0 0.0 0.0
 Chromatographic rate, deg/min: 12.0 0.0 0.0 0.0 0.0

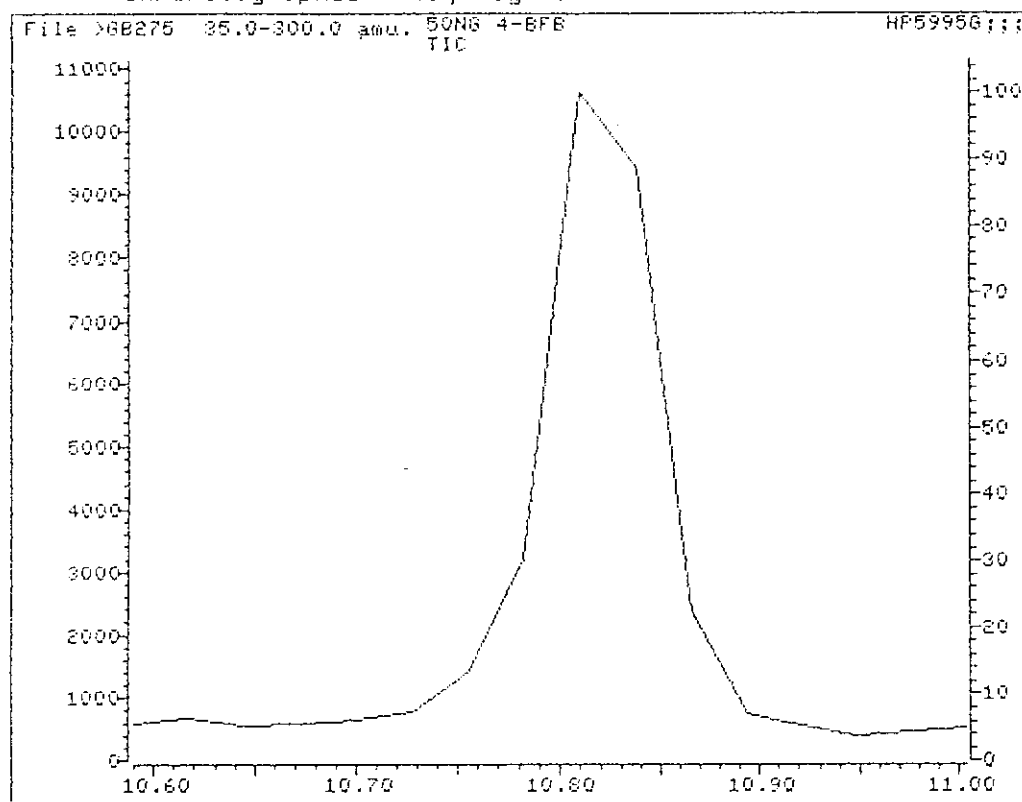


MS data file header from : >6B275

Sample: SONG 4-BFB Operator: MS6 MS 1/26/93 8:59
Misc : HP5995G::LLW:DF1 :01900
Sys. #: 2 MS model: 95 SW/HW rev.: 1A ALS # : 0
Method file: M_6BOP Tuning file: T_6 No. of extra records: 2
Source temp.: 224 Analyzer temp.: 240 Transfer line temp.: 185

0132

Chromatographic temperatures : 50. 180. 0. 0. 0.
Chromatographic times, min. : 1.0 0.0 0.0 0.0 0.0
Chromatographic rate, deg/min: 12.0 0.0 0.0 0.0 0.0



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKG2

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKG2

0133

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: G3850.D

Level: (low/med) LOW

Date Received: / /

% Moisture: not dec. 0

Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (mL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	8	J
67-64-1-----	Acetone	10	
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10.2	U J
71-55-6-----	1,1,1-Trichloroethane	100.6	U J
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	2	J
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

LHD
01/31/93

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBKKG2

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z00600134

Matrix: (soil/water) SOIL

Lab Sample ID: VBKKG2

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: G3850.D

Level: (low/med) LOW

Date Received: / /

% Moisture: not dec. 0

Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

0135

QUANT REPORT

Operator ID: MSG
 Output File: ^G3850::QT
 Data File: >G3850::G3
 Name: ;;;UBLKG2
 Misc:

Quant Rev: 6 Quant Time: 930126 10:56
 Injected at: 930126 10:27
 Dilution Factor: 1.00000
 HP5995:G;;;LLS;DF1 ;G1900

ID File: I_IFGS::N1
 Title: PURGEABLE ORGANIC COMPOUNDS
 Last Calibration: 930126 10:13

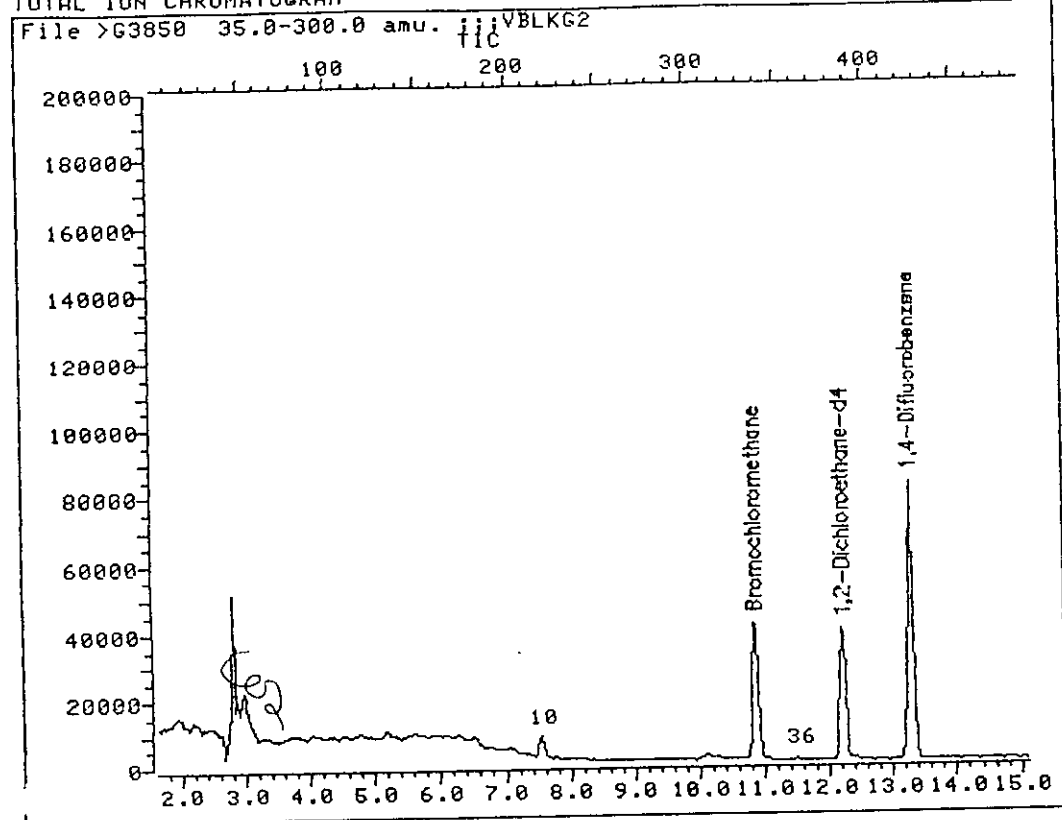
Compound	R.T.	Q	ion	Area	Conc	Units	q
1) *Bromochloromethane	10.84	127.8		24084	50.00	ug/kg	79
10) Methylene Chloride	7.52	83.8		7040	8.25	ug/kg	96
13) Acetone	6.55	42.8		11489	10.59	ug/kg	96
24) 2-Butanone	10.29	43.8		3476	2.38	ug/kg	95
28) Chloroform	10.92	82.8		1501^	.85	ug/kg	42
30) 1,2-Dichloroethane-d4	12.19	64.8		92902	55.16	ug/kg	91
34) *1,4-Difluorobenzene	13.27	113.8		193377	50.00	ug/kg	99
36) 1,1,1-Trichloroethane	11.50	96.8		1341	.65	ug/kg	89
53) *Chlorobenzene-d5	20.45	116.8		151932	50.00	ug/kg	83
58) 2-Hexanone	10.60	42.8		1573	.64	ug/kg	98
60) Toluene	17.14	91.0		13467	2.29	ug/kg	91
61) Toluene-d8	16.97	97.8		213292	50.65	ug/kg	94
62) Chlorobenzene	20.50	111.8		1126^	.35	ug/kg	60
64) Styrene	21.75	103.8		1109	.33	ug/kg	81
30) 1,3-Dichlorobenzene	24.65	145.8		1501	.54	ug/kg	89
32) 1,2-Dichlorobenzene	24.65	145.8		1501	.50	ug/kg	89
91) Bromofluorobenzene	22.72	94.8		105219	49.92	ug/kg	79

* Compound is ISTD

11/1
1/26/93

0136

TOTAL ION CHROMATOGRAM



Data File: >G3850::G3

Quant Output File: ^G3850::QT

Name: ;;;VBLKG2

HP5995:G;;;LLS;DF1 ;G1900

Misc:

Id File: I_IFGS::N1

Title: PURGEABLE ORGANIC COMPOUNDS

Last Calibration: 930126 10:13

Operator ID: MSG

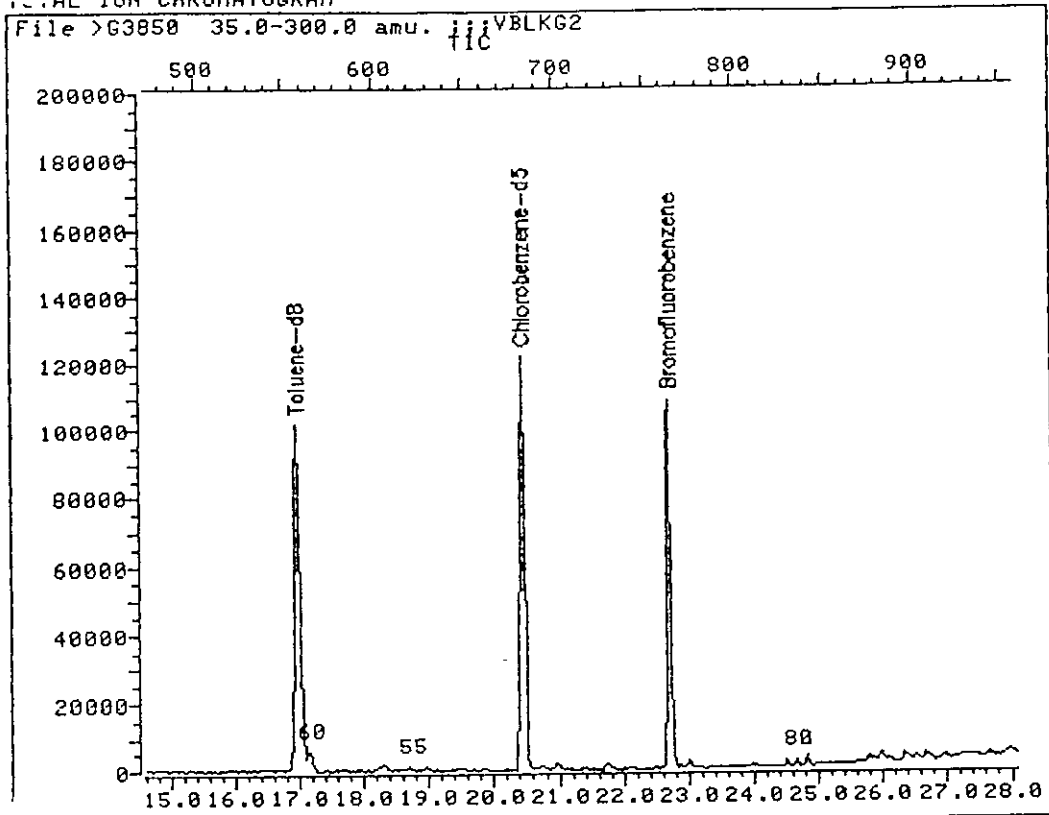
Quant Time: 930126 10:56

Injected at: 930126 10:27

TIC page 1 of 2

0137

TOTAL ION CHROMATOGRAM



Data File: >G3850::G3

Quant Output File: ^G3850::QT

Name: ;;;VBLKG2

Misc:

HP5995:G;;;LLS;DF1 ;G1900

Id File: I_IFGS::N1

Title: PURGEABLE ORGANIC COMPOUNDS

Last Calibration: 930126 10:13

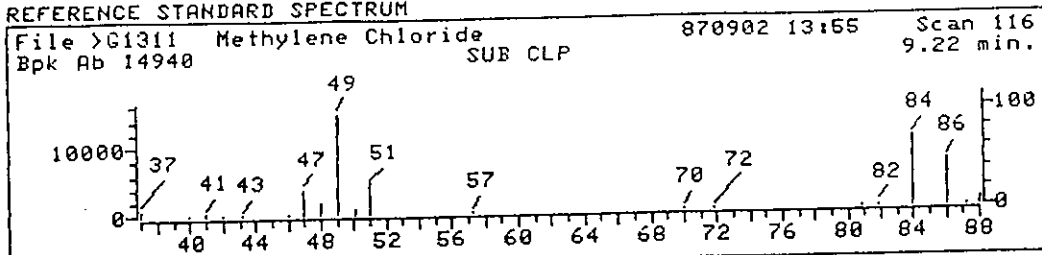
Operator ID: MSG

Quant Time: 930126 10:56

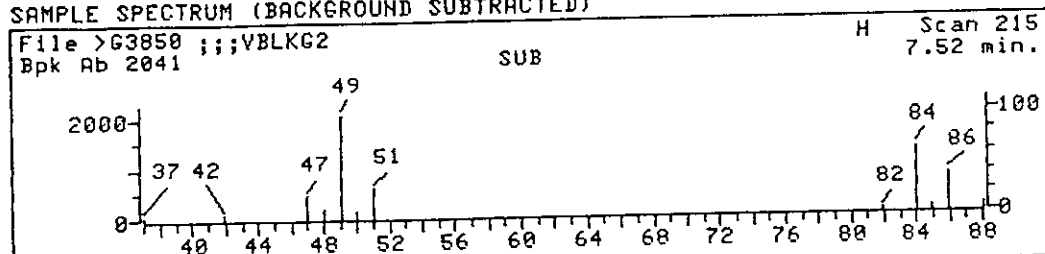
Injected at: 930126 10:27

TIC page 2 of 2

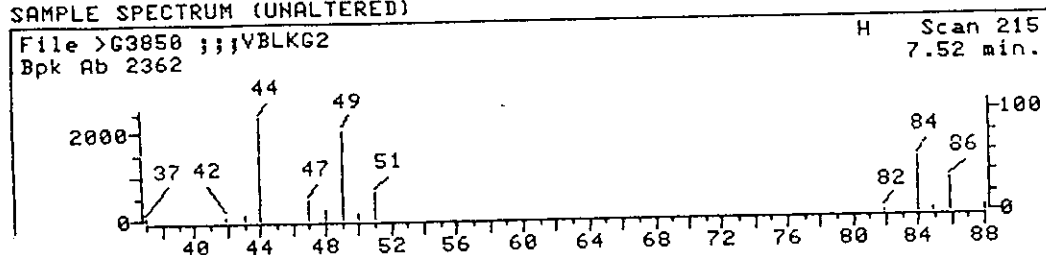
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >G3850::G3

Quant Output File: ^G3850::QT

Name: ;;;VBLKG2

HP5995:G;;;LLS;DF1 ;G1900

Misc:

Quant ID File: I_IFGS::N1

Quant Time: 930126 10:56

Last Calibration: 930126 10:13

Injected at: 930126 10:27

Compound No: 10

Compound Name: Methylene Chloride

Scan Number: 215

Retention Time: 7.52 min.

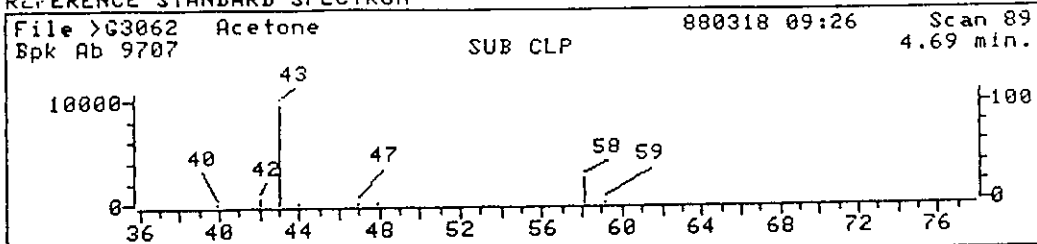
Quant Ion: 83.8

Area: 7040

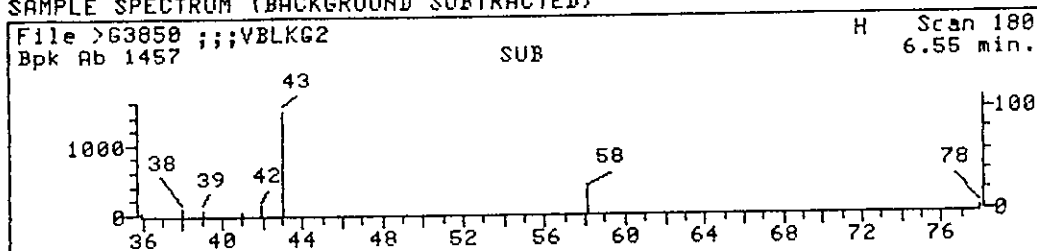
Concentration: 8.25 ug/kg

q-value: 96

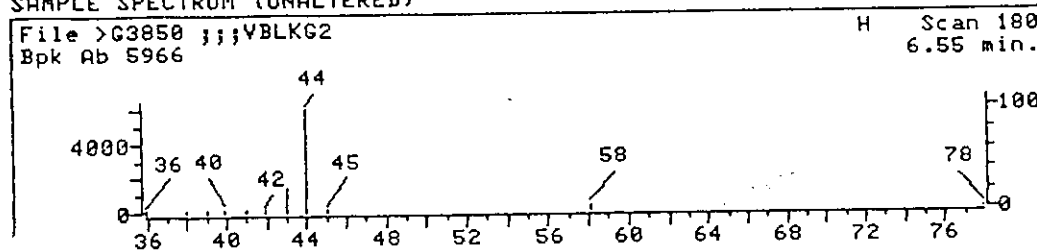
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >G3850::G3

Quant Output File: ^G3850::QT

Name: ;;;VBLKG2

Misc:

HP5995:G;;;LLS;DF1 ;G1900

Quant Time: 930126 10:56

Quant ID File: I_IFGS::N1

Injected at: 930126 10:27

Last Calibration: 930126 10:13

Compound No: 13

Compound Name: Acetone

Scan Number: 180

Retention Time: 6.55 min.

Quant Ion: 42.8

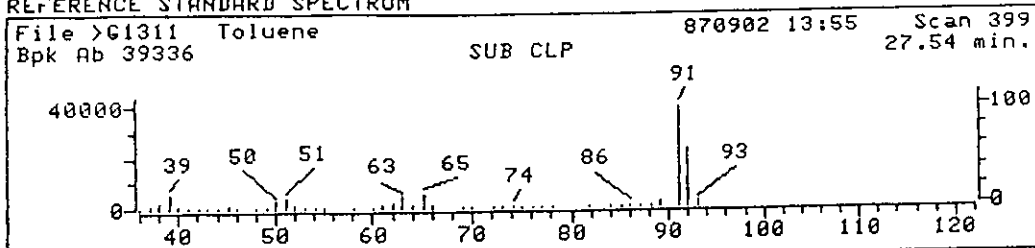
Area: 11489

Concentration: 10.59 ug/kg

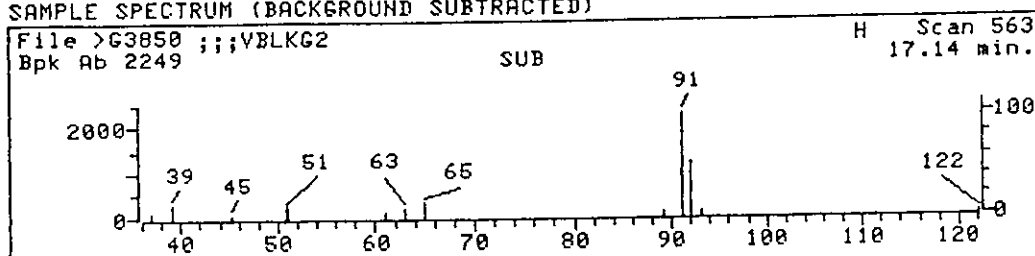
q-value: 96

0 0140

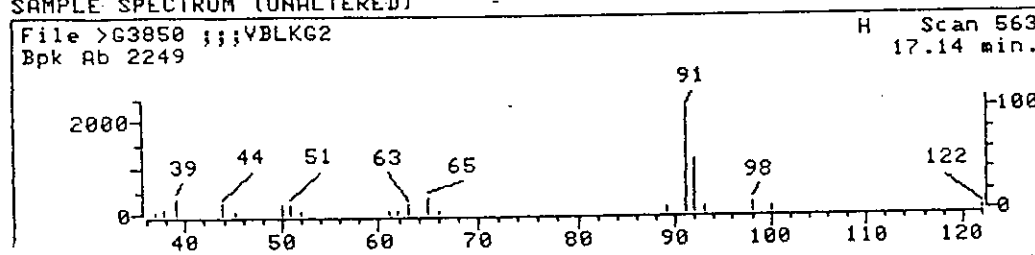
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >G3850::G3

Name: ;;;VBLKG2

Misc:

Quant Time: 930126 10:56

Injected at: 930126 10:27

Quant Output File: ^G3850::QT

HP5995:G;;;LLS;DF1 ;G1900

Quant ID File: I_IFGS::N1

Last Calibration: 930126 10:13

Compound No: 60

Compound Name: Toluene

Scan Number: 563

Retention Time: 17.14 min.

Quant Ion: 91.0

Area: 13467

Concentration: 2.29 ug/kg

q-value: 91

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MSBS-100

0141

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix: (soil/water) SOIL

Lab Sample ID: 0060002MSB

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: G3857.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: not dec. 0

Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

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

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	9	JB
67-64-1-----	Acetone	11 10	JB
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	80	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	102	U JB
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	54	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	52	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	43	B
108-90-7-----	Chlorobenzene	47	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

PAS
01/29/93
LWP
01/31/93

0142

QUANT REPORT

Operator ID: MSC
 Output File: ^G3857::QT
 Data File: >G3857::G3
 Name: 0060;;;MSB S-100
 Misc: 0060002MSB

Quant Rev: 6 Quant Time: 930126 15:19
 Injected at: 930126 14:50
 Dilution Factor: 1.00000

HP5995:G;;;LLS;DF1 ;G1900

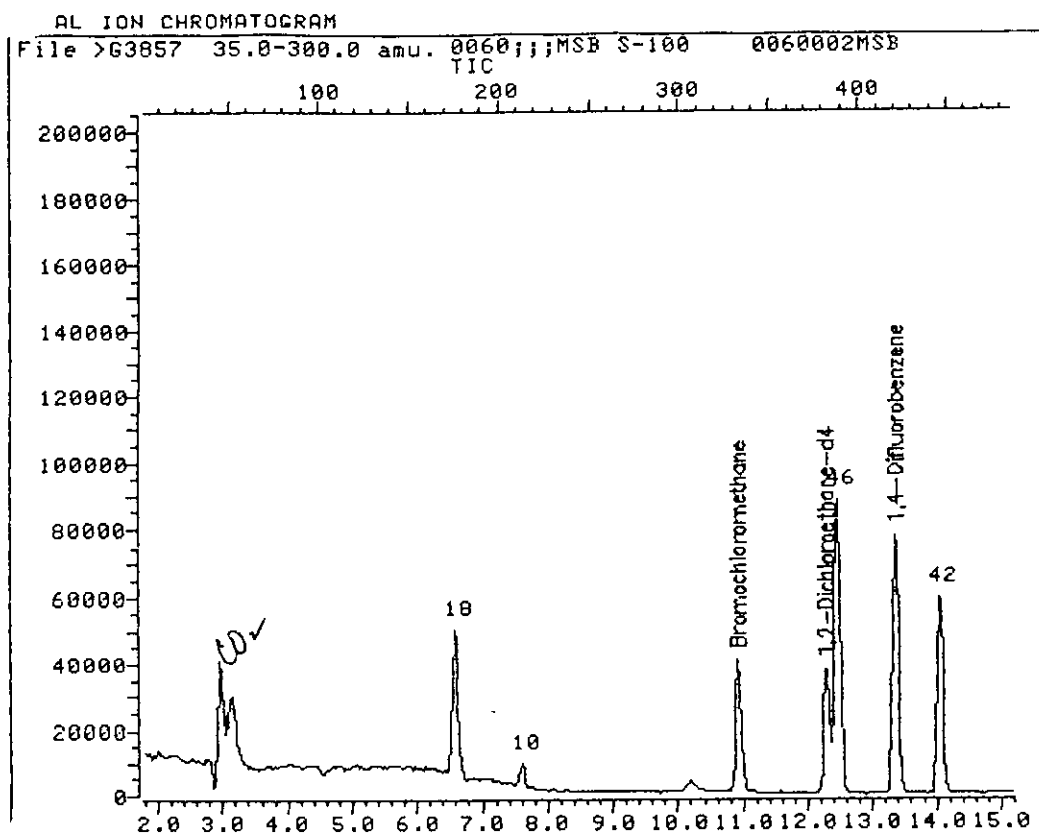
ID File: I_IFGS::N1
 Title: PURGEABLE ORGANIC COMPOUNDS
 Last Calibration: 930126 10:13

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.92	127.8	23182	50.00	ug/kg	76
10)	Methylene Chloride	7.60	83.8	7135	8.68	ug/kg	85
10)	Acetone	6.63	42.8	11130	10.66	ug/kg	91
18)	1,1-Dichloroethene	6.58	95.8	43553	80.04	ug/kg	87
24)	2-Butanone	10.37	43.8	4276	2.94	ug/kg	87
30)	1,2-Dichloroethane-d4	12.27	64.8	89545	55.24	ug/kg	89
34)	*1,4-Difluorobenzene	13.35	113.8	182308	50.00	ug/kg	96
42)	Trichloroethene	14.04	129.8	64436	54.50	ug/kg	95
46)	Benzene	12.47	77.8	240800	51.74	ug/kg	94
53)	*Chlorobenzene-d5	20.51	116.8	142171	50.00	ug/kg	84
60)	Toluene	17.19	91.0	238330	43.32	ug/kg	95
6)	Toluene-d8	17.03	97.8	197756	50.18	ug/kg	95
62)	Chlorobenzene	20.57	111.8	139631	46.92	ug/kg	92
91)	Bromofluorobenzene	22.80	94.8	103771	52.61	ug/kg	78

* Compound is ISTD

KM2
1/28/93

0143



Data File: >G3857::G3
Name: 0060;;;MSB S-100
Misc: 0060002MSB

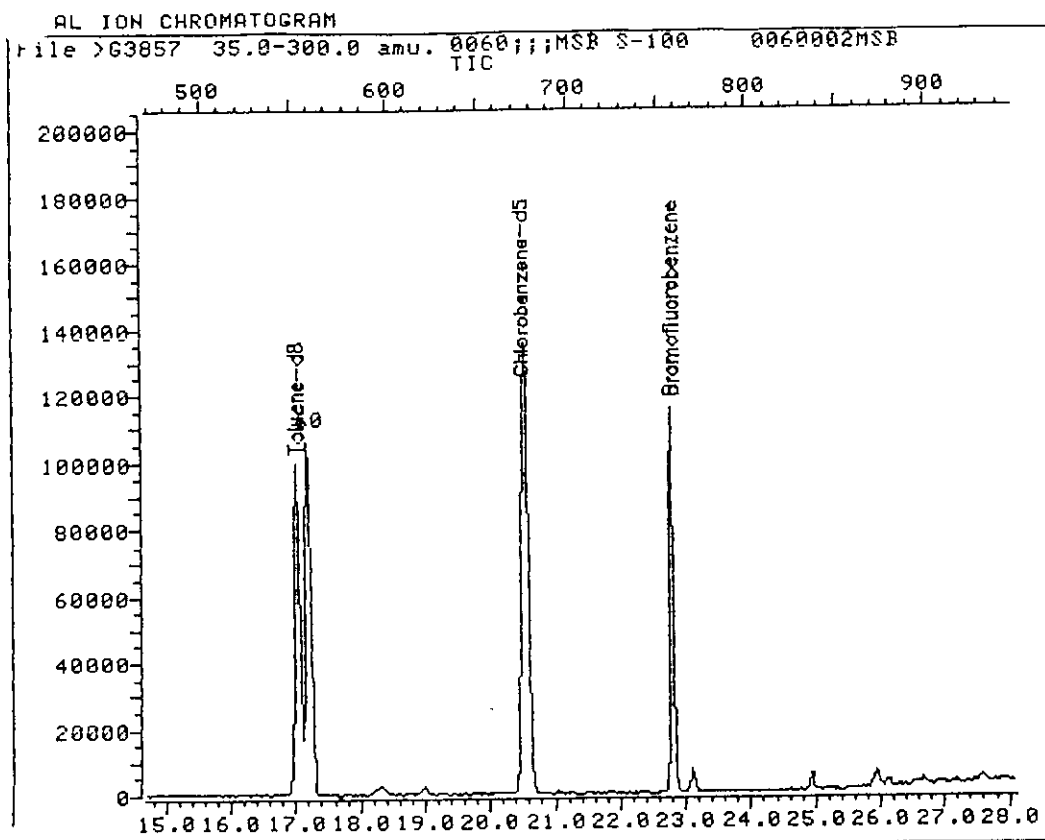
Quant Output File: ^G3857::QT
HP5995:G;;;LLS;DF1 ;G1900

Id File: I_IFGS::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930126 10:13

Operator ID: MSC
Quant Time: 930126 15:19
Injected at: 930126 14:50

TIC page 1 of 2

0144



Data File: >G3857::G3
 Name: 0060;;;MSB S-100
 Misc: 0060002MSB

Quant Output File: ^G3857::QT
 HP5995:G;;;LLS;DF1 ;G1900

Id File: I_IFGS::N1
 Title: PURGEABLE ORGANIC COMPOUNDS
 Last Calibration: 930126 10:13

Operator ID: MSC
 Quant Time: 930126 15:19
 Injected at: 930126 14:50

TIC page 2 of 2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-100MS

0145

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix: (soil/water) SOIL

Lab Sample ID: 0060002MS

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: G3855.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: not dec. 11

Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (mL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	11	U
74-83-9-----	Bromomethane	11	U
75-01-4-----	Vinyl Chloride	11	U
75-00-3-----	Chloroethane	11	U
75-09-2-----	Methylene Chloride	15	B
67-64-1-----	Acetone	9	JB
75-15-0-----	Carbon Disulfide	11	U
75-35-4-----	1,1-Dichloroethene	96	
75-34-3-----	1,1-Dichloroethane	11	U
540-59-0-----	1,2-Dichloroethene (total)	11	U
67-66-3-----	Chloroform	11	U
107-06-2-----	1,2-Dichloroethane	11	U
78-93-3-----	2-Butanone	4	JB
71-55-6-----	1,1,1-Trichloroethane	1	JB
56-23-5-----	Carbon Tetrachloride	11	U
75-27-4-----	Bromodichloromethane	11	U
78-87-5-----	1,2-Dichloropropane	11	U
10061-01-5-----	cis-1,3-Dichloropropene	11	U
79-01-6-----	Trichloroethene	56	
124-48-1-----	Dibromochloromethane	11	U
79-00-5-----	1,1,2-Trichloroethane	11	U
71-43-2-----	Benzene	55	
10061-02-6-----	trans-1,3-Dichloropropene	11	U
75-25-2-----	Bromoform	11	U
108-10-1-----	4-Methyl-2-Pentanone	11	U
591-78-6-----	2-Hexanone	11	U
127-18-4-----	Tetrachloroethene	11	U
79-34-5-----	1,1,2,2-Tetrachloroethane	11	U
108-88-3-----	Toluene	49	
108-90-7-----	Chlorobenzene	51	
100-41-4-----	Ethylbenzene	11	U
100-42-5-----	Styrene	11	U
1330-20-7-----	Xylene (total)	11	U

0146

QUANT REPORT

Operator ID: MSC
 Output File: ^G3855::QT
 Data File: >G3855::G3
 Name: 0060;;;S-100MS
 Misc: 0060002MS

Quant Rev: 6 Quant Time: 930126 14:13
 Injected at: 930126 13:41
 Dilution Factor: 1.12000
 HP5995:G;;;LLS;DF1 ;G1900

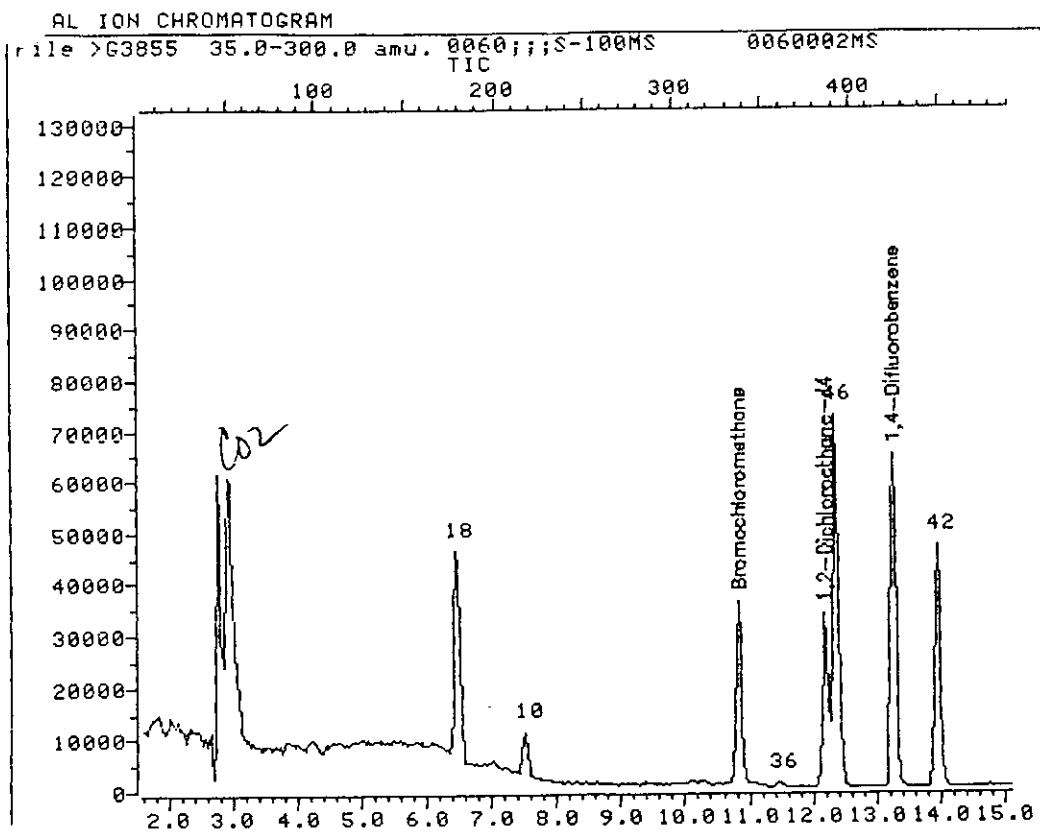
ID File: I_IFGS::N1
 Title: PURGEABLE ORGANIC COMPOUNDS
 Last Calibration: 930126 10:13

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *Bromochloromethane	10.84	127.8	20193	50.00	ug/kg	69
/10) Methylene Chloride	7.52	83.8	9349	14.63	ug/kg	87
/13) Acetone	6.53	42.8	7374	9.08	ug/kg	87
/18) 1,1-Dichloroethene	6.47	95.8	40618	95.98	ug/kg	92
/24) 2-Butanone	10.29	43.0	4279	3.79	ug/kg	98
28) Chloroform	10.92	82.8	1237	.93	ug/kg	58
30) 1,2-Dichloroethane-d4	12.19	64.8	77616	61.56	ug/kg	92
34) *1,4-Difluorobenzene	13.27	113.8	145599	50.00	ug/kg	98
/36) 1,1,1-Trichloroethane	11.47	96.8	1570	1.13	ug/kg	91
/42) Trichloroethene	13.96	129.8	47524	56.37	ug/kg	95
/46) Benzene	12.36	77.8	182942	55.12	ug/kg	95
5. *Chlorobenzene-d5	20.37	116.8	100777	50.00	ug/kg	87
/60) Toluene	17.11	91.0	171669	49.30	ug/kg	96
61) Toluene-d8	16.95	97.8	152023	60.95	ug/kg	93
/62) Chlorobenzene	20.46	111.8	95852	50.89	ug/kg	88
91) Bromofluorobenzene	22.64	94.8	70893	56.79	ug/kg	92

* Compound is ISTD

KM2
1/28/93

0147



Data File: >G3855::G3
Name: 0060;;;S-100MS
Misc: 0060002MS

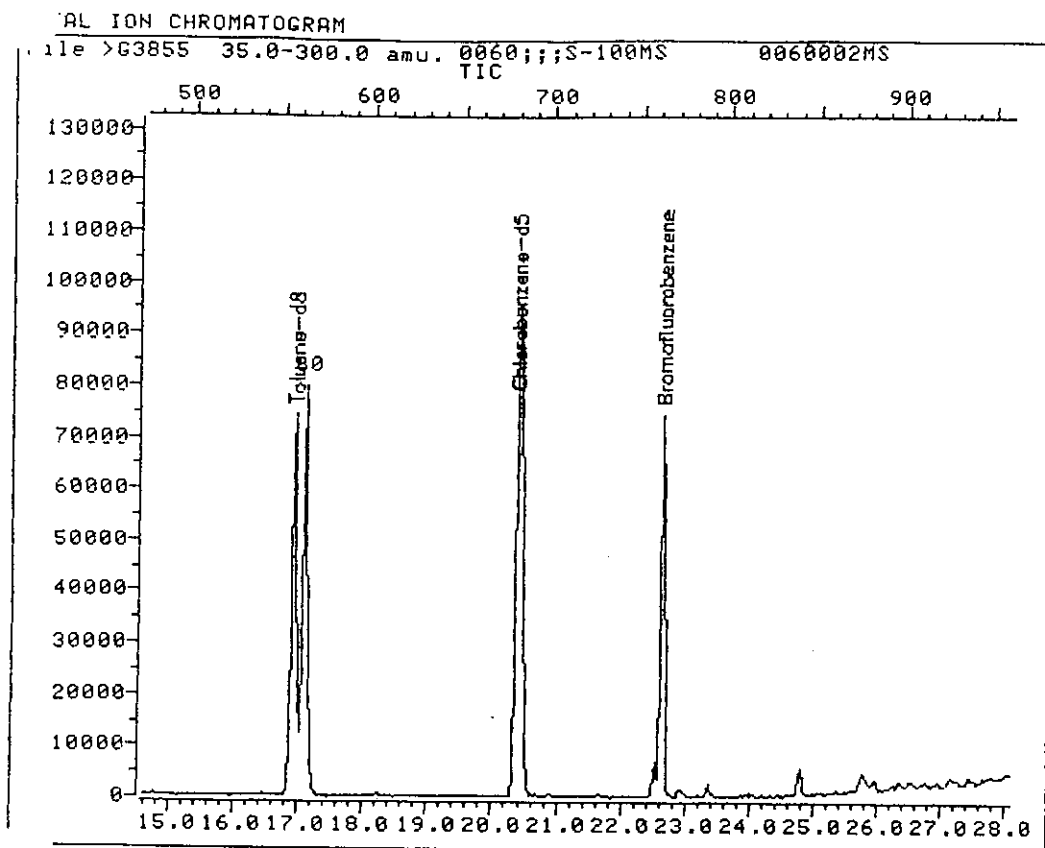
Quant Output File: ^G3855::QT
HP5995:G;;;LLS;DF1 ;G1900

Id File: I_IFGS::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930126 10:13

Operator ID: MSC
Quant Time: 930126 14:13
Injected at: 930126 13:41

TIC page 1 of 2

0148



Data File: >G3855::G3
 Name: 0060;;;S-100MS
 Misc: 0060002MS

Quant Output File: ^G3855::QT
 HP5995:G;;;LLS;DF1 ;G1900

Id File: I_IFGS::N1
 Title: PURGEABLE ORGANIC COMPOUNDS
 Last Calibration: 930126 10:13

Operator ID: MSC
 Quant Time: 930126 14:13
 Injected at: 930126 13:41

TIC page 2 of 2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-100MSD **0149**

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix: (soil/water) SOIL

Lab Sample ID: 0060002MSD

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: G3856.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: not dec. ~~0~~ ||

LHD
02/24/93

Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

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

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	13 12	B
67-64-1	-----Acetone	13 11	B
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	89 79	
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	6 5	JB
71-55-6	-----1,1,1-Trichloroethane	1	JB
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	57 50	
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	61 54	
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	55 49	
108-90-7	-----Chlorobenzene	55 49	
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

LHD
02/24/93

0150

QUANT REPORT

Operator ID: MSC
 Output File: ^G3856::QT
 Data File: >G3856::G3
 Name: 0060;;;S-100MSD
 Misc: 0060002MSD

Quant Rev: 6 Quant Time: 930126 14:53
 Injected at: 930126 14:15
 Dilution Factor: 1.12000
 HP5995;G;;;LLS;DF1 ;G1900

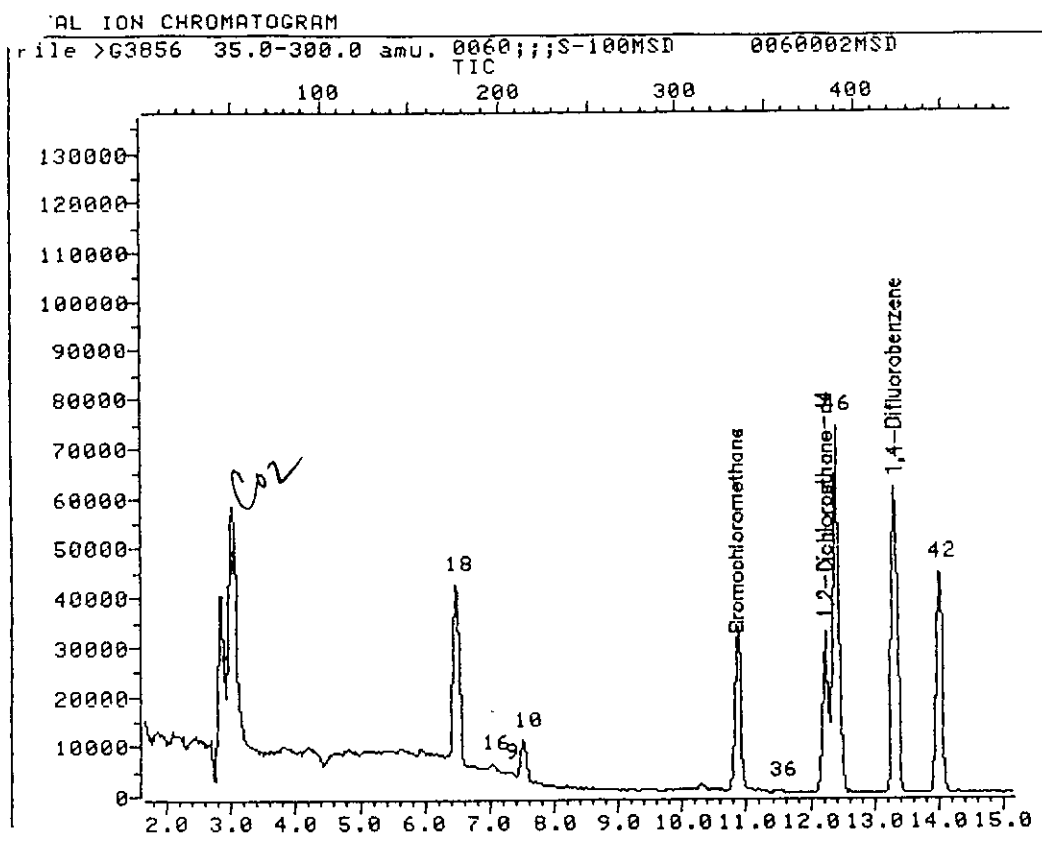
ID File: I_IFGS::N1
 Title: PURGEABLE ORGANIC COMPOUNDS
 Last Calibration: 930126 10:13

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.85	127.8	19366	50.00	ug/kg	79
9)	Ethyl Acetate	7.34	43.0	3529	3529.00	NO CALIB	81
10)	Methylene Chloride	7.53	83.8	8097	13.21	ug/kg	90
13)	Acetone	6.54	42.8	9840	12.63	ug/kg	97
16)	Carbon Disulfide	7.03	75.0	1331	.52	ug/kg	61
18)	1,1-Dichloroethene	6.48	95.8	36111	88.98	ug/kg	88
24)	2-Butanone	10.30	43.0	6189	5.71	ug/kg	89
28)	Chloroform	10.96	82.8	1216^	.96	ug/kg	67
30)	1,2-Dichloroethane-d4	12.23	64.8	75924	62.79	ug/kg	92
34)	*1,4-Difluorobenzene	13.31	113.8	143999	50.00	ug/kg	99
36)	1,1,1-Trichloroethane	11.51	96.8	1558	1.13	ug/kg	91
4)	Trichloroethene	14.00	129.8	47154	56.56	ug/kg	94
46)	Benzene	12.40	77.8	199646	60.83	ug/kg	95
53)	*Chlorobenzene-d5	20.53	116.8	96727	50.00	ug/kg	84
60)	Toluene	17.18	91.0	182999	54.75	ug/kg	94
61)	Toluene-d8	16.98	97.8	153484	64.12	ug/kg	95
62)	Chlorobenzene	20.58	111.8	99951	55.29	ug/kg	93
91)	Bromofluorobenzene	22.85	94.8	66328	55.36	ug/kg	82

* Compound is ISTD

KMZ
1/28/93

0151



Data File: >G3856::G3
Name: 0060;;;S-100MSD
Misc: 0060002MSD

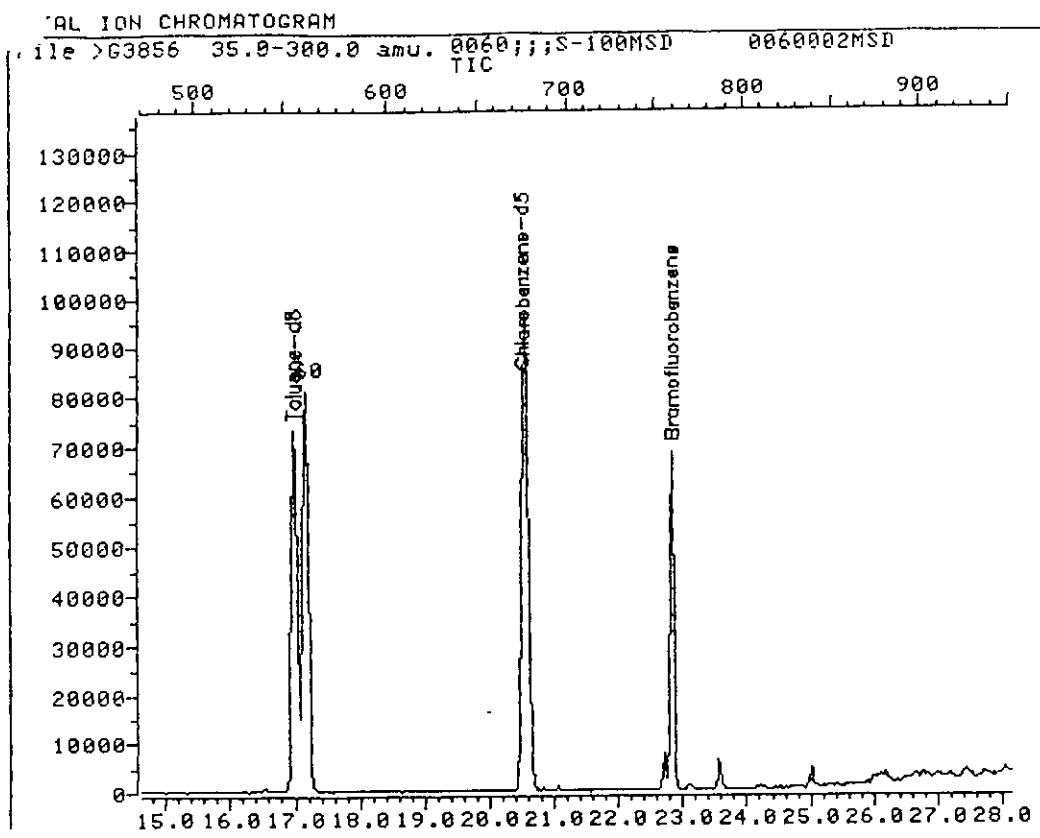
Quant Output File: ^G3856::QT
HP5995:G;;;LLS;DF1 ;G1900

Id File: I_IFGS::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930126 10:13

Operator ID: MSC
Quant Time: 930126 14:53
Injected at: 930126 14:15

TIC page 1 of 2

0152



Data File: >G3856::G3

Quant Output File: ^G3856::QT

Name: 0060;;;S-100MSD

Misc: 0060002MSD

HP5995:G;;;LLS;DF1 ;G1900

Id File: I_IFGS::N1

Title: PURGEABLE ORGANIC COMPOUNDS

Last Calibration: 930126 10:13

Operator ID: MSC

Quant Time: 930126 14:53

Injected at: 930126 14:15

TIC page 2 of 2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

QCCHKSTD

0153

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix: (soil/water) SOIL

Lab Sample ID: 0060002STD

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: G3858.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: not dec. 0

Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

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

74-87-3-----	Chloromethane	46	
74-83-9-----	Bromomethane	36	
75-01-4-----	Vinyl Chloride	47	
75-00-3-----	Chloroethane	42	
75-09-2-----	Methylene Chloride	44	B
67-64-1-----	Acetone	70	B
75-15-0-----	Carbon Disulfide	41	
75-35-4-----	1,1-Dichloroethene	41	
75-34-3-----	1,1-Dichloroethane	53	
540-59-0-----	1,2-Dichloroethene (total)	95	
67-66-3-----	Chloroform	44	
107-06-2-----	1,2-Dichloroethane	53	
78-93-3-----	2-Butanone	71	B
71-55-6-----	1,1,1-Trichloroethane	46	B
56-23-5-----	Carbon Tetrachloride	44	
75-27-4-----	Bromodichloromethane	48	
78-87-5-----	1,2-Dichloropropane	52	
10061-01-5-----	cis-1,3-Dichloropropene	74	
79-01-6-----	Trichloroethene	54	
124-48-1-----	Dibromochloromethane	49	
79-00-5-----	1,1,2-Trichloroethane	6	J
71-43-2-----	Benzene	49	
10061-02-6-----	trans-1,3-Dichloropropene	19	
75-25-2-----	Bromoform	50	
108-10-1-----	4-Methyl-2-Pentanone	61	
591-78-6-----	2-Hexanone	55	
127-18-4-----	Tetrachloroethene	49	
79-34-5-----	1,1,2,2-Tetrachloroethane	46	
108-88-3-----	Toluene	43	B
108-90-7-----	Chlorobenzene	49	
100-41-4-----	Ethylbenzene	49	
100-42-5-----	Styrene	50	
1330-20-7-----	Xylene (total)	48	

QUANT REPORT

Operator ID: MSC
 Output File: ^G3858::QT
 Data File: >G3858::G3
 Name: 0060;;;STD S-100
 Misc: 0060002STD

Quant Rev: 6 Quant Time: 930126 15:54
 Injected at: 930126 15:24
 Dilution Factor: 1.00000
 HP5995:G;;;LLS;DF1 ;G1900

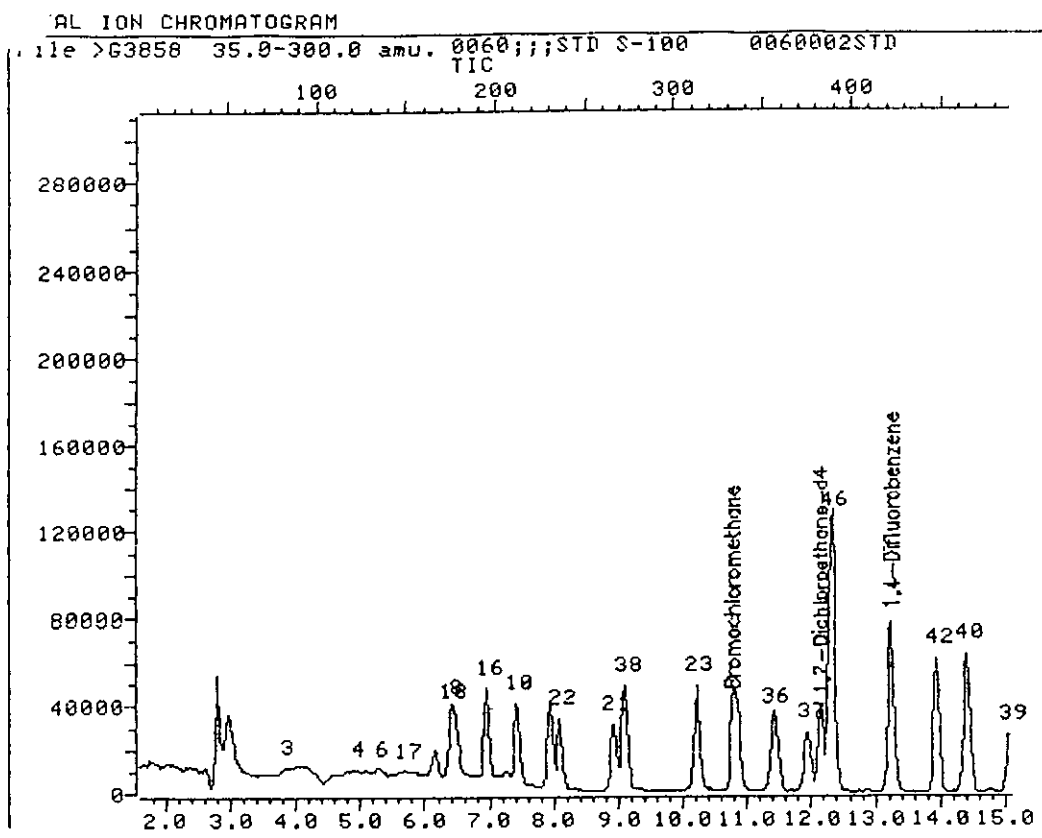
ID File: I_IFGS::N1
 Title: PURGEABLE ORGANIC COMPOUNDS
 Last Calibration: 930126 10:13

LHD
 01/26/93

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.76	127.8	23017	50.00	ug/kg	67
3)	Chloromethane	3.85	49.8	24510	46.22	ug/kg	95
4)	Bromomethane	4.96	93.7	17371	36.27	ug/kg	83
5)	Vinyl Chloride	4.10	61.8	34268	47.05	ug/kg	95
6)	Chloroethane	5.32	63.8	20370M	41.95	ug/kg	67
8)	1,1,2-Trichlorotrifluoroethane	6.45	101.0	24591	30.23	ug/kg	85
10)	Methylene Chloride	7.42	83.8	36189	44.36	ug/kg	88
13)	Acetone	6.48	42.8	72646	70.07	ug/kg	98
14)	Acrylonitrile	7.94	52.8	91303	125.12	ug/kg	97
16)	Carbon Disulfide	6.95	75.8	138633	40.85	ug/kg	98
17)	Trichlorofluoromethane	5.70	100.8	11733	39.59	ug/kg	80
18)	1,1-Dichloroethene	6.40	95.8	22169	41.03	ug/kg	85
19)	3-Chloro-1-Propene	7.42	40.9	3046^	3046.00	NO CALIB	58
21)	1,1-Dichloroethane	8.91	62.8	107163	53.08	ug/kg	98
22)	1,2-Dichloroethene (total)t	8.08	95.8	28049	45.87	ug/kg	92
23)	1,2-Dichloroethene (total)c	10.21	95.8	29443	49.51	ug/kg	96
24)	2-Butanone	10.21	43.0	102117	70.82	ug/kg	85
28)	Chloroform	10.85	82.8	75276	44.55	ug/kg	95
29)	1,2-Dichloroethane	12.34	61.8	147309	52.72	ug/kg	97
30)	1,2-Dichloroethane-d4	12.15	64.8	90532	56.25	ug/kg	92
34)	*1,4-Difluorobenzene	13.25	113.8	178605	50.00	ug/kg	95
36)	1,1,1-Trichloroethane	11.40	96.8	89028	46.54	ug/kg	93
37)	Carbon Tetrachloride	11.95	116.8	61163	44.41	ug/kg	96
38)	Vinyl Acetate	9.11	42.8	257594	45.98	ug/kg	92
39)	Bromodichloromethane	15.08	82.8	57558	47.86	ug/kg	90
40)	1,2-Dichloropropane	14.41	62.8	78851	51.97	ug/kg	90
41)	cis-1,3-Dichloropropene	16.27	74.8	100827	75.75	ug/kg	97
42)	Trichloroethene	13.94	129.8	62154	53.66	ug/kg	93
44)	Dibromochloromethane	19.15	128.7	40912	48.91	ug/kg	97
45)	1,1,2-Trichloroethane	18.06	96.8	6588	6.34	ug/kg	92
46)	Benzene	12.31	77.8	222234	48.74	ug/kg	90
47)	trans-1,3-Dichloropropene	17.68	74.8	106744	17.23	ug/kg	84
48)	2-Chloroethylvinylether	15.91	62.8	49010	40.66	ug/kg	79
49)	1,2-Dibromoethane	19.46	106.9	75379	48.80	ug/kg	98
50)	Bromoform	22.17	172.6	48719	50.09	ug/kg	99
53)	*Chlorobenzene-d5	20.48	116.8	140054	50.00	ug/kg	81
54)	4-Methyl-2-Pentanone	16.49	42.8	176099	61.23	ug/kg	93
55)	2-Hexanone	18.66	42.8	125280	55.44	ug/kg	96
56)	Tetrachloroethene	18.68	163.7	49928	49.27	ug/kg	92
58)	1,1,2,2-Tetrachloroethane	22.94	82.8	102526	46.32	ug/kg	87
60)	Toluene	17.15	91.0	235231	43.40	ug/kg	94
61)	Toluene-d8	16.96	97.8	199672	51.44	ug/kg	98

	Compound	R.T.	Q ion	Area	Conc	Units	q
63)	Ethylbenzene	20.78	105.8	74554	48.64	ug/kg	98
64)	Styrene	21.81	103.8	152799	49.61	ug/kg	84
65)	Xylene (total)mp	21.01	105.8	168882	93.61	ug/kg	89
66)	Xylene (total)o	21.78	105.8	86514	48.39	ug/kg	93
71)	1,2,3-Trichloropropane	24.74	74.8	53173	48.70	ug/kg	54
80)	1,3-Dichlorobenzene	24.71	145.8	148368	57.76	ug/kg	91
82)	1,2-Dichlorobenzene	24.57	145.8	150475	54.83	ug/kg	92
91)	Bromofluorobenzene	22.75	94.8	105217	54.15	ug/kg	97

* Compound is ISTD



Data File: >G3858::G3
Name: 0060;;;STD S-100
Misc: 0060002STD

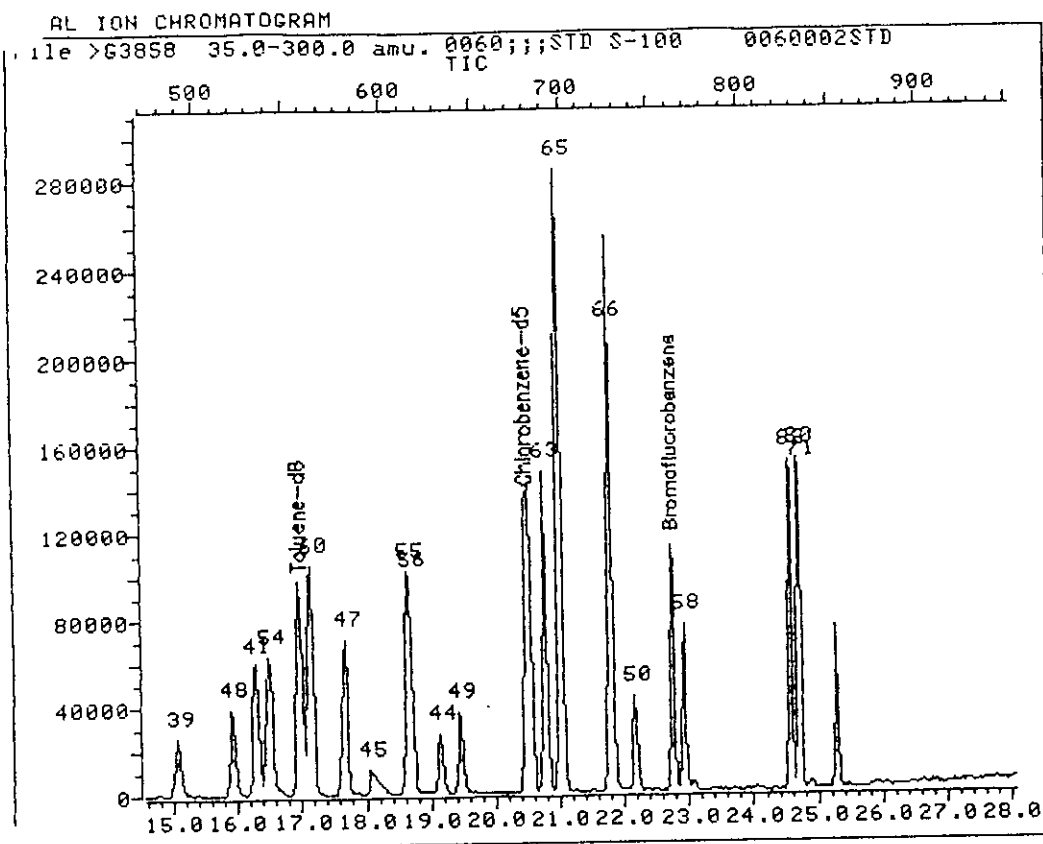
Quant Output File: ^G3858::QT
HP5995:G;;;LLS;DF1 ;G1900

Id File: I_IFGS::N1
Title: PURGEABLE ORGANIC COMPOUNDS
Last Calibration: 930126 10:13

Operator ID: MSC
Quant Time: 930126 15:54
Injected at: 930126 15:24

TIC page 1 of 2

0157



Data File: >G3858::G3
 Name: 0060;;;STD S-100
 Misc: 0060002STD

Quant Output File: ^G3858::QT
 HP5995:G;;;LLS;DF1 ;G1900

Id File: I_IFGS::N1
 Title: PURGEABLE ORGANIC COMPOUNDS
 Last Calibration: 930126 10:13

Operator ID: MSC
 Quant Time: 930126 15:54
 Injected at: 930126 15:24

TIC page 2 of 2

SEMI-VOLATILE DATA

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK SUNNYSIDE
P.O.#	05526Y
SDG#:	Z0060
IEA ID:	30930-0060

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

0159

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLK51	71	66	82	76	64	84	72	69	0
02	S-102	64	78	136	73	56	102	60	54	0
03	2-100MSB	61	54	83	63	65	55	60	66	0
04	QCCKECHKSTD	54	60	73	52	50	67	47	49	0
05	S-100	59	68	70	66	60	78	51	56	0
06	S-101	61D	83D	94D	75D	72D	87D	84D	80D	0
07	S-102RE	61	72	75	66	58	90	59	59	0
08	s-99	50	62	73	59	54	70	51	54	0
09	S-100MS	62	79	80	70	63	105	66	67	0
10	S-100MSD	56	70	79	68	65	92	64	60	0
11	S-101RE	58D	96D	101D	75D	69D	100D	78D	71D	0
12										
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QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (23-120)

S2 (FBP) = 2-Fluorobiphenyl (30-115)

S3 (TPH) = Terphenyl-d14 (18-137)

S4 (PHL) = Phenol-d5 (24-113)

S5 (2FP) = 2-Fluorophenol (25-121)

S6 (TBP) = 2,4,6-Tribromophenol (19-122)

S7 (2CP) = 2-Chlorophenol-d4 (20-130) (advisory)

S8 (DCB) = 1,2-Dichlorobenzene-d4 (20-130) (advisory)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

0160

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 70060 SAS No.:

SDG No.: Z0060

cmcz12/92

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLK53	78	80	98	82	74	92	84	83	0
02	FIELD BLANK	80	73	78	73	65	94	75	72	0
03										
04										
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QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (35-114)
 S2 (FBP) = 2-Fluorobiphenyl (43-116)
 S3 (TPH) = Terphenyl-d14 (33-141)
 S4 (PHL) = Phenol-d5 (10-110)
 S5 (2FP) = 2-Fluorophenol (21-110)
 S6 (TBP) = 2,4,6-Tribromophenol (10-123)
 S7 (2CP) = 2-Chlorophenol-d4 (33-110) (advisory)
 S8 (DCB) = 1,2-Dichlorobenzene-d4 (16-110) (advisory)

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

3D
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: LEA/CT Contract: _____ 0161
 Lab Code: LEA/CT Case No.: 00000 SAS No.: _____ SDG No.: 70000
 Matrix Spike - EPA Sample No.: S-100 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	2800	Ø	2000	71	26- 90
2-Chlorophenol	2800	↓	1900	68	25-102
1,4-Dichlorobenzene	1900	↓	1300	68	28-104
N-Nitroso-di-n-prop. (1)	1900	↓	1500	79	41-126
1,2,4-Trichlorobenzene	1900	↓	1400	74	38-107
4-Chloro-3-methylphenol	2800	↓	2400	85	26-103
Acenaphthene	1900	74	1700	89	31-137
4-Nitrophenol	2800	Ø	3200	114	11-114
2,4-Dinitrotoluene	1900	↓	1700	89	28- 89
Pentachlorophenol	2800	↓	1600	57	17-109
Pyrene	1900	↓	2000	105	35-142

gmc
2/12/03

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Phenol	2800	1900	68	4	35	26- 90
2-Chlorophenol	2800	1900	68	0	50	25-102
1,4-Dichlorobenzene	1900	1200	63	8	27	28-104
N-Nitroso-di-n-prop. (1)	1900	1400	74	7	38	41-126
1,2,4-Trichlorobenzene	1900	1300	68	8	23	38-107
4-Chloro-3-methylphenol	2800	2400	86	1	33	26-103
Acenaphthene	1900	1600	84	7	19	31-137
4-Nitrophenol	2800	2900	104	9	50	11-114
2,4-Dinitrotoluene	1900	1400	74	18	47	28- 89
Pentachlorophenol	2800	1600	57	0	47	17-109
Pyrene	1900	2000	105	0	36	35-142

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

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

RPD: 0 out of 11 outside limits
 Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

3D MSB
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

0162

La. Name: IEA/CT Contract: _____

Lab Code: IEA/CT Case No.: 0000 SAS No.: _____ SDG No.: 70060

Matrix Spike - EPA Sample No.: S-100 MSB Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	2500	Ø	1500	60	26- 90
2-Chlorophenol	2500		1500	60	25-102
1,4-Dichlorobenzene	1700		1100	65	28-104
N-Nitroso-di-n-prop. (1)	1700		1100	65	41-126
1,2,4-Trichlorobenzene	1700		1000	59	38-107
4-Chloro-3-methylphenol	2500		1500	60	26-103
Acenaphthene	1700		916	54	31-137
4-Nitrophenol	2500		1700	68	11-114
2,4-Dinitrotoluene	1700		1100	65	28- 89
Pentachlorophenol	2500		1500	60	17-109
Pyrene	1700	✓	1100	65	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Phenol					35	26- 90
2-Chlorophenol					50	25-102
1,4-Dichlorobenzene					27	28-104
N-Nitroso-di-n-prop. (1)					38	41-126
1,2,4-Trichlorobenzene					23	38-107
4-Chloro-3-methylphenol					33	26-103
Acenaphthene					19	31-137
4-Nitrophenol					50	11-114
2,4-Dinitrotoluene					47	28- 89
Pentachlorophenol					47	17-109
Pyrene					36	35-142

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

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

RPD: _____ out of _____ outside limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS: _____

QC CHECK
FORM 3
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

QCCHECKSTD

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

0163

Matrix: (soil/water) SOIL

Lab Sample ID: 0060002STD

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: C5914.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL)

Date Analyzed: 02/01/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

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

108-95-2	Phenol	1800	108
111-44-4	bis(2-Chloroethyl) ether	1700	102
95-57-8	2-Chlorophenol	1600	96
541-73-1	1,3-Dichlorobenzene	1600	96
106-46-7	1,4-Dichlorobenzene	1500	90
95-50-1	1,2-Dichlorobenzene	1500	90
95-48-7	2-Methylphenol	1900	114
108-60-1	2,2'-oxybis(1-Chloropropane)	1900	114
106-44-5	4-Methylphenol	1900	114
621-64-7	N-Nitroso-di-n-propylamine	1900	114
67-72-1	Hexachloroethane	1500	90
98-95-3	Nitrobenzene	1800	108
78-59-1	Isophorone	2100	126
88-75-5	2-Nitrophenol	1900	114
105-67-9	2,4-Dimethylphenol	1600	96
111-91-1	bis(2-Chloroethoxy) methane	1900	114
120-83-2	2,4-Dichlorophenol	1900	114
120-82-1	1,2,4-Trichlorobenzene	1600	96
91-20-3	Naphthalene	1700	102
106-47-8	4-Chloroaniline	4700	282
87-68-3	Hexachlorobutadiene	1500	90
59-50-7	4-Chloro-3-methylphenol	2400	144
91-57-6	2-Methylnaphthalene	1600	96
77-47-4	Hexachlorocyclopentadiene	1200	72
88-06-2	2,4,6-Trichlorophenol	2100	126
95-95-4	2,4,5-Trichlorophenol	1900	114
91-58-7	2-Chloronaphthalene	1700	102
88-74-4	2-Nitroaniline	2600	156
131-11-3	Dimethylphthalate	2100	126
208-96-8	Acenaphthylene	1800	108
606-20-2	2,6-Dinitrotoluene	1900	114
99-09-2	3-Nitroaniline	16000	960
83-32-9	Acenaphthene	1700	102

Cmc
2/12/93

QC CHECK
FORM 3
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

QC CHECK STD

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix: (soil/water) SOIL

Lab Sample ID: 0060002STD 0164

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: C5914.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL)

Date Analyzed: 02/01/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

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

51-28-5-----	2,4-Dinitrophenol	2900	174
100-02-7-----	4-Nitrophenol	2700	162
132-64-9-----	Dibenzofuran	1700	107
121-14-2-----	2,4-Dinitrotoluene	2200	132
84-66-2-----	Diethylphthalate	1900	114 B
7005-72-3-----	4-Chlorophenyl-phenylether	1400	84
86-73-7-----	Fluorene	1700	102
100-01-6-----	4-Nitroaniline	5400	323
534-52-1-----	4,6-Dinitro-2-methylphenol	2700	162
86-30-6-----	N-Nitrosodiphenylamine (1)	2800	168
101-55-3-----	4-Bromophenyl-phenylether	2000	120
118-74-1-----	Hexachlorobenzene	2000	120
87-86-5-----	Pentachlorophenol	2600	156
85-01-8-----	Phenanthrene	2100	126
120-12-7-----	Anthracene	2000	120
86-74-8-----	Carbazole	6700	402
84-74-2-----	Di-n-butylphthalate	2100	126 B
206-44-0-----	Fluoranthene	2300	138
129-00-0-----	Pyrene	2200	132
85-68-7-----	Butylbenzylphthalate	2100	126 B
91-94-1-----	3,3'-Dichlorobenzidine	3300	198
56-55-3-----	Benzo(a)anthracene	2400	144
218-01-9-----	Chrysene	2000	120
117-81-7-----	bis(2-Ethylhexyl)phthalate	1700	102 B
117-84-0-----	Di-n-octylphthalate	2200	132
205-99-2-----	Benzo(b)fluoranthene	1200	72
207-08-9-----	Benzo(k)fluoranthene	1300	78
50-32-8-----	Benzo(a)pyrene	2700	162
193-39-5-----	Indeno(1,2,3-cd)pyrene	790	47
53-70-3-----	Dibenz(a,h)anthracene	1300	78
191-24-2-----	Benzo(g,h,i)perylene	1200	72

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK51

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 70060 SAS No.:

SDG No.: Z0060

Lab File ID: C5902.D

Lab Sample ID: SBLK51

Instrument ID: HP5970C

Date Extracted: 01/20/93

Matrix: (soil/water) SOIL

Date Analyzed: 01/29/93

Level: (low/med) LOW

Time Analyzed: 1206

0165

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	S-102	0060004	C5908.D	01/29/93
02	2-100MSB	0060002MSB	C5913.D	02/01/93
03	QCCKECHKSTD	0060002STD	C5914.D	02/01/93
04	S-100	0060002	C5920.D	02/01/93
05	S-101	0060003	C5921.D	02/01/93
06	S-102RE	0060004RE	C5922.D	02/01/93
07	s-99	0060001	C5931.D	02/02/93
08	S-100MS	0060002MS	C5932.D	02/02/93
09	S-100MSD	0060002MSD	C5933.D	02/02/93
10	S-101RE	0060003RE	C5934.D	02/02/93
11				
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15				
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COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK53

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: ~~Z0060~~ *cmz1262* SAS No.:

SDG No.: Z0060

Lab File ID: C5903.D

Lab Sample ID: SBLK53

0166

Instrument ID: HP5970C

Date Extracted: 01/21/93

Matrix: (soil/water) WATER

Date Analyzed: 01/29/93

Level: (low/med) LOW

Time Analyzed: 1309

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	FIELDBLANK	0060006	C5915.D	02/01/93
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
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COMMENTS:

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

0167

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: Z0060 SAS No.:

SDG No.: Z0060

Lab File ID: C5895.D

DFTPP Injection Date: 01/28/93

Instrument ID: HP5970C

DFTPP Injection Time: 1145

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	59.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Area 69 relative abundance	63.9
70	Less than 2.0% of mass 69	0.4 (0.6)1
127	25.0 - 75.0% of mass 198	41.9
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	18.6
365	Greater than 0.75% of mass 198	2.60
441	Present, but less than mass 443	13.1
442	40.0 - 110.0% of mass 198	97.4
443	15.0 - 24.0% of mass 442	17.6 (18.1)2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	C5895.D	01/28/93	1145
02	SSTD160	SSTD160	C5896.D	01/28/93	1328
03	SSTD020	SSTD020	C5897.D	01/28/93	1501
04	SSTD080	SSTD080	C5898.D	01/28/93	1602
05	SSTD120	SSTD120	C5899.D	01/28/93	1704
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: IEA/CT

Contract:

0168

Lab Code: IEACT

Case No.: Z0060

SAS No.:

SDG No.: Z0060

Lab File ID: C5900.D

DFTPP Injection Date: 01/29/93

Instrument ID: HP5970C

DFTPP Injection Time: 0928

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	51.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Area 69 relative abundance	60.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	44.9
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	24.2
365	Greater than 0.75% of mass 198	2.35
441	Present, but less than mass 443	13.2
442	40.0 - 110.0% of mass 198	88.4
443	15.0 - 24.0% of mass 442	18.3 (20.7)2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	C5900.D	01/29/93	0928
02	SBLK51	SBLK51	C5902.D	01/29/93	1206
03	SBLK53	SBLK53	C5903.D	01/29/93	1309
04	S-102	0060004	C5908.D	01/29/93	1819
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

0169

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: Z0060

SAS No.:

SDG No.: Z0060

Lab File ID: C5912.D

DFTPP Injection Date: 02/01/93

Instrument ID: HP5970C

DFTPP Injection Time: 1216

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	48.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Area 69 relative abundance	54.3
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	40.3
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	28.1
365	Greater than 0.75% of mass 198	2.67
441	Present, but less than mass 443	17.0
442	40.0 - 110.0% of mass 198	94.0
443	15.0 - 24.0% of mass 442	21.1 (22.5)2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	C5912.D	02/01/93	1216
02	2-100MSB	0060002MSB	C5913.D	02/01/93	1338
03	QCCKECHKSTD	0060002STD	C5914.D	02/01/93	1439
04	FIELDBLANK	0060006	C5915.D	02/01/93	1540
05	S-100	0060002	C5920.D	02/01/93	2048
06	S-101	0060003	C5921.D	02/01/93	2150
07	S-102RE	0060004RE	C5922.D	02/01/93	2251
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

0170

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: Z0060

SAS No.:

SDG No.: Z0060

Lab File ID: C5924.D

DFTPP Injection Date: 02/02/93

Instrument ID: HP5970C

DFTPP Injection Time: 1118

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	53.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Area 69 relative abundance	60.0
70	Less than 2.0% of mass 69	0.1 (0.1)1
127	25.0 - 75.0% of mass 198	40.2
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	20.9
365	Greater than 0.75% of mass 198	2.05
441	Present, but less than mass 443	13.4
442	40.0 - 110.0% of mass 198	80.2
443	15.0 - 24.0% of mass 442	17.8 (22.2)2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	C5924.D	02/02/93	1118
02	S-99	0060001	C5931.D	02/02/93	1959
03	S-100MS	0060002MS	C5932.D	02/02/93	2100
04	S-100MSD	0060002MSD	C5933.D	02/02/93	2201
05	S-101RE	0060003RE	C5934.D	02/02/93	2303
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INSTRUMENT DETECTION LIMITS

Page 1 of 2

Instrument C
Date: 01/07/93

UNITS: UG/L

0171

IDL

Phenol	1
bis(2-Chloroethyl) ether	2
2-Chlorophenol	1
1,3-Dichlorobenzene	1
1,4-Dichlorobenzene	1
Benzyl alcohol	1
1,2-Dichlorobenzene	1
2-Methylphenol	3
bis(2-Chloroisopropyl) ether	1
4-Methylphenol	1
N-Nitroso-Di-N-propylamine	1
Hexachloroethane	1
Nitrobenzene	1
Isophorone	2
2-Nitrophenol	2
2,4-Dimethylphenol	1
Benzoic acid	1
bis(2-Chloroethoxy) methane	2
2,4-Dichlorophenol	1
1,2,4-Trichlorobenzene	1
Naphthalene	1
4-Chloroaniline	10
Hexachlorobutadiene	1
4-Chloro-3-methylphenol	2
2-Methylnaphthalene	1
Hexachlorocyclopentadiene	2
2,4,6-Trichlorophenol	2
2,4,5-Trichlorophenol	2
2-Chloronaphthalene	1
2-Nitroaniline	2
Dimethylphthalate	2
Acenaphthylene	2
2,6-Dinitrotoluene	2
3-Nitroaniline	4
Acenaphthene	2
2,4-Dinitrophenol	2
4-Nitrophenol	1
Dibenzofuran	1
2,4-Dinitrotoluene	1
Diethylphthalate	2
4-Chlorophenyl-phenylether	2
Fluorene	2
4-Nitroaniline	11
4,6-Dinitro-2-methylphenol	2
N-Nitrosodiphenylamine(1)	1
4-Bromophenyl-phenylether	3
Hexachlorobenzene	3
Pentachlorophenol	2

INSTRUMENT DETECTION LIMITS

Page 2 of 2

0172

Instrument C
Date: 01/07/93

UNITS: UG/L

IDL

Phenanthrene	2
Anthracene	2
Di-N-butylphthalate	1
Fluoranthene	1
Pyrene	5
Butylbenzylphthalate	10
3,3'-Dichlorobenzidine	5
Benzo(a)anthracene	4
Chrysene	1
bis(2-Ethylhexyl)phthalate	3
Di-N-octylphthalate	1
Benzo(b)fluoranthene	3
Benzo(k)fluoranthene	4
Benzo(a)pyrene	2
Indeno(1,2,3-cd)pyrene	4
Dibenzo(a,h)anthracene	1
Benzo(g,h,i)perylene	3
Nitrobenzene-d5	1
2-Fluorobiphenyl	1
Terphenyl-d14	8
Phenol-d5	1
2-Fluorophenol	1
2,4,6-Tribromophenol	1

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0173

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 70060 SAS No.:

SDG No.: Z0060

Lab File ID (Standard): C5900.D

Cmc242193

Date Analyzed: 01/29/93

Instrument ID: HP5970C

Time Analyzed: 0928

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	36871	12.28	140387	15.55	89315	20.20
	UPPER LIMIT	73742	12.78	280774	16.05	178630	20.70
	LOWER LIMIT	18436	11.78	70194	15.05	44658	19.70
	EPA SAMPLE No.						
01	SBLK51	32178	12.30	128738	15.55	81641	20.23
02	SBLK53	33040	12.27	132728	15.53	77614	20.20
03	S-102	29163	12.29	126456	15.55	78307	20.22
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IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

(0174

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: ~~20060~~ SAS No.:

SDG No.: Z0060

Lab File ID (Standard): C5900.D

Date Analyzed: 01/29/93

Instrument ID: HP5970C

Time Analyzed: 0928

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	153800	24.10	131326	31.52	104503	38.61
UPPER LIMIT	307600	24.60	262652	32.02	209006	39.11
LOWER LIMIT	76900	23.60	65663	31.02	52252	38.11
EPA SAMPLE No.						
01 SBLK51	150352	24.12	113972	31.51	86078	38.59
02 SBLK53	146754	24.10	87461	31.49	59973	38.55
03 S-102	95249	24.15	12601*	31.56	8811*	38.64
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IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0 0175

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: Z0060 SAS No.:

SDG No.: Z0060

Lab File ID (Standard): C5912.D

OmC21121an

Date Analyzed: 02/01/93

Instrument ID: HP5970C

Time Analyzed: 1216

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	30668	12.13	121572	15.38	71044	20.03
UPPER LIMIT	61336	12.63	243144	15.88	142088	20.53
LOWER LIMIT	15334	11.63	60786	14.88	35522	19.53
EPA SAMPLE No.						
01 2-100MSB	28727	12.13	119412	15.37	73719	20.03
02 QC CHECK STD	30028	12.13	122436	15.39	80552	20.04
03 FIELD BLANK	29571	12.12	109792	15.37	72532	20.02
04 S-100	27910	12.17	110865	15.41	69230	20.07
05 S-101	25702	12.10	107963	15.35	62886	20.01
06 S-102RE	28059	12.12	117246	15.36	81765	20.01
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IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0176

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: ~~20060~~ *anc212pr3* SAS No.:

SDG No.: Z0060

Lab File ID (Standard): C5912.D

Date Analyzed: 02/01/93

Instrument ID: HP5970C

Time Analyzed: 1216

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	145774	23.92	112561	31.25	106859	38.10
UPPER LIMIT	291548	24.42	225122	31.75	213718	38.60
LOWER LIMIT	72887	23.42	56280	30.75	53430	37.60
EPA SAMPLE No.						
01 2-100MSB	139116	23.92	98779	31.22	76345	38.06
02 QCCHECKSTD	142838	23.94	112558	31.28	123548	38.11
03 FIELDBLANK	136329	23.90	117766	31.22	92878	38.06
04 S-100	131794	23.97	103107	31.40	49587*	38.24
05 S-101	129976	23.91	104060	31.30	44642*	38.15
06 S-102RE	109031	23.96	18592*	31.43	11299*	38.14
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IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0177

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 70060 SAS No.:

SDG No.: Z0060

Lab File ID (Standard): C5924.D

Date Analyzed: 02/02/93

Instrument ID: HP5970C

Time Analyzed: 1118

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	35902	12.17	136695	15.43	89550	20.10
UPPER LIMIT	71804	12.67	273390	15.93	179100	20.60
LOWER LIMIT	17951	11.67	68348	14.93	44775	19.60
EPA SAMPLE No.						
01 S-99	29828	12.18	124654	15.43	79049	20.08
02 S-100MS	24332	12.17	96083	15.43	59600	20.09
03 S-100MSD	23506	12.18	96227	15.43	67553	20.08
04 S-101RE	25959	12.19	107614	15.45	64059	20.11
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22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0178

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: Z0060 SAS No.:

SDG No.: Z0060

Lab File ID (Standard): C5924.D

Date Analyzed: 02/02/93

Instrument ID: HP5970C

Time Analyzed: 1118

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	162227	23.99	129748	31.34	100452	38.26
UPPER LIMIT	324454	24.49	259496	31.84	200904	38.76
LOWER LIMIT	81114	23.49	64874	30.84	50226	37.76
EPA SAMPLE No.						
01 s-99	140301	23.97	131032	31.32	95840	38.24
02 S-100MS	143980	23.99	100269	31.43	43694*	38.39
03 S-100MSD	149079	23.99	85664	31.46	29336*	38.35
04 S-101RE	143905	24.02	101370	31.45	37337*	38.43
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IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-99 0179

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: Z0060 SAS No.:

SDG No.: Z0060

Matrix: (soil/water) SOIL

Lab Sample ID: 0060001

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: C5931.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL)

Date Analyzed: 02/02/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0

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

108-95-2-----	Phenol	380	U
111-44-4-----	bis(2-Chloroethyl) ether	380	U
95-57-8-----	2-Chlorophenol	380	U
541-73-1-----	1,3-Dichlorobenzene	380	U
106-46-7-----	1,4-Dichlorobenzene	380	U
95-50-1-----	1,2-Dichlorobenzene	380	U
95-48-7-----	2-Methylphenol	380	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5-----	4-Methylphenol	380	U
621-64-7-----	N-Nitroso-di-n-propylamine	380	U
67-72-1-----	Hexachloroethane	380	U
98-95-3-----	Nitrobenzene	380	U
78-59-1-----	Isophorone	380	U
88-75-5-----	2-Nitrophenol	380	U
105-67-9-----	2,4-Dimethylphenol	380	U
111-91-1-----	bis(2-Chloroethoxy) methane	380	U
120-83-2-----	2,4-Dichlorophenol	380	U
120-82-1-----	1,2,4-Trichlorobenzene	380	U
91-20-3-----	Naphthalene	9	J
106-47-8-----	4-Chloroaniline	380	U
87-68-3-----	Hexachlorobutadiene	380	U
59-50-7-----	4-Chloro-3-methylphenol	380	U
91-57-6-----	2-Methylnaphthalene	11	J
77-47-4-----	Hexachlorocyclopentadiene	380	U
88-06-2-----	2,4,6-Trichlorophenol	380	U
95-95-4-----	2,4,5-Trichlorophenol	910	U
91-58-7-----	2-Chloronaphthalene	380	U
88-74-4-----	2-Nitroaniline	910	U
131-11-3-----	Dimethylphthalate	380	U
208-96-8-----	Acenaphthylene	16	J
606-20-2-----	2,6-Dinitrotoluene	380	U
99-09-2-----	3-Nitroaniline	910	U
83-32-9-----	Acenaphthene	380	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-99 0180

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 20060 SAS No.:

SDG No.: Z0060

Matrix: (soil/water) SOIL

Lab Sample ID: 0060001

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: C5931.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL)

Date Analyzed: 02/02/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0

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

51-28-5-----	2,4-Dinitrophenol	910	U
100-02-7-----	4-Nitrophenol	910	U
132-64-9-----	Dibenzofuran	8	J
121-14-2-----	2,4-Dinitrotoluene	380	U
84-66-2-----	Diethylphthalate	24	JB
7005-72-3-----	4-Chlorophenyl-phenylether	380	U
86-73-7-----	Fluorene	380	U
100-01-6-----	4-Nitroaniline	910	U
534-52-1-----	4,6-Dinitro-2-methylphenol	910	U
86-30-6-----	N-Nitrosodiphenylamine (1)	380	U
101-55-3-----	4-Bromophenyl-phenylether	380	U
118-74-1-----	Hexachlorobenzene	380	U
87-86-5-----	Pentachlorophenol	910	U
85-01-8-----	Phenanthrene	45	J
120-12-7-----	Anthracene	17	J
86-74-8-----	Carbazole	26	J
84-74-2-----	Di-n-butylphthalate	36	JB
206-44-0-----	Fluoranthene	100	J
129-00-0-----	Pyrene	77	J
85-68-7-----	Butylbenzylphthalate	380	U
91-94-1-----	3,3'-Dichlorobenzidine	380	U
56-55-3-----	Benzo(a)anthracene	65	J
218-01-9-----	Chrysene	110	J
117-81-7-----	bis(2-Ethylhexyl)phthalate	100	JB
117-84-0-----	Di-n-octylphthalate	380	U
205-99-2-----	Benzo(b)fluoranthene	100	J
207-08-9-----	Benzo(k)fluoranthene	110	J
50-32-8-----	Benzo(a)pyrene	88	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	110	J
53-70-3-----	Dibenz(a,h)anthracene	13	J
191-24-2-----	Benzo(g,h,i)perylene	80	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-99 0 0181

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: Z0060 SAS No.:

SDG No.: Z0060

Matrix: (soil/water) SOIL

Lab Sample ID: 0060001

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: C5931.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 01/20/93

Concentrated Extract Volume: 500(uL)

Date Analyzed: 02/02/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0

Number TICs found: 21

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATION PRODUCT	8.50	13000	JAB
2.	UNKNOWN	12.91	2600	J
3.	↓	7.91	1100	B
4.	↓	10.81	720	B
5.	↓	7.77	720	B
6.	UNKNOWN C8H8	9.58	620	
7.	UNKNOWN ACID	14.92	540	
8.	UNKNOWN	20.76	480	
9.	↓	10.43	470	
10.	↓	10.12	410	
11.	UNKNOWN C3ALKYL BENZENE	10.35	280	
12.	UNKNOWN ALKANE	8.19	230	
13.	UNKNOWN	20.67	220	B
14.	↓	23.07	170	
15.	UNKNOWN ACID	25.40	140	
16.	UNKNOWN	18.86	140	
17.	↓	12.74	130	
18.	↓	11.21	120	
19.	↓	7.27	120	
20.	↓	11.13	120	
21.	UNKNOWN ALKANE	24.76	100	✓
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

QUANT REPORT

Operator ID: MSC

Quant Rev: 6

Quant Time: 930202 20:54

Output File: ^C5931::QT

Injected at: 930202 19:59

Data File: >C5931::C1

Dilution Factor: 18.94000

Name: 0060;;;S-99

Misc: 0060001

HP5970C;011993;012093;LLS;1;;5.0;C0953

BTC# 7

ID File: I_EPA::N1

Title: CLP-OLM01.8 BNA COMPOUNDS

Last Calibration: 930202 15:36

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.18	151.8	29828	40.00	ug	84
2)	Pyridine	5.94	52.0	1898	38.88	ug	96
3)	2-Chlorophenol-d4	11.71	132.0	69214	1456.02	ug	98
4)	2-Fluorophenol	9.22	111.8	70621	1529.83	ug	92
5)	Phenol-d5	11.43	98.8	103106	1664.89	ug	89
11)	1,2-Dichlorobenzene-d4	12.64	152.0	36642	1024.48	ug	91
18)	*Naphthalene-d8	15.43	135.9	124654	40.00	ug	97
19)	Nitrobenzene-d5	13.63	81.8	69161	940.53	ug	85
27)	Naphthalene	15.47	127.9	1431	9.29	ug	95
31)	2-Methylnaphthalene	17.28	141.9	1268	11.14	ug	87
3)	*Acenaphthene-d10	20.08	163.9	79049	40.00	ug	85
36)	2-Fluorobiphenyl	18.29	171.8	145814	1167.58	ug	97
40)	Acenaphthylene	19.67	152.0	2480	16.19	ug	98
43)	Acenaphthene	20.17	152.9	342	3.14	ug	95
47)	4-Nitrophenol	20.66	108.8	373	23.04	ug	1
46)	Dibenzofuran	20.58	167.8	1249	7.99	ug	84
48)	Diethylphthalate	21.33	148.8	3546	23.91	ug	97
52)	2,4,6-Tribromophenol	22.19	329.6	70992	1988.47	ug	98
53)	*Phenanthrene-d10	23.97	187.9	140301	40.00	ug	97
55)	N-Nitrosodiphenylamine (1)	21.81	168.9	458	8.16	ug	75
58)	Pentachlorophenol	23.63	265.6	668	19.61	ug	96
59)	Phenanthrene	24.04	177.9	7956	44.71	ug	92
60)	Carbazole	24.58	166.8	2017	26.29	ug	90
61)	Anthracene	24.15	177.9	3075	16.69	ug	98
62)	Di-n-butylphthalate	25.61	148.8	9492	35.68	ug	98
63)	Fluoranthene	27.21	201.9	21313	104.81	ug	93
64)	*Chrysene-d12	31.32	240.0	131032	40.00	ug	91
65)	Pyrene	27.81	201.9	18843	77.30	ug	97
66)	Terphenyl-d14	28.22	244.0	255003	1375.60	ug	87
67)	Butylbenzylphthalate	29.58	148.8	1223	9.84	ug	87
68)	3,3'-Dichlorobenzidine	31.45	251.9	343	14.87	ug	37
69)	Benzo(a)anthracene	31.25	228.0	12101	64.86	ug	92
70)	Chrysene	31.40	228.0	17284	112.66	ug	96
71)	bis(2-Ethylhexyl)phthalate	31.45	148.8	16091	100.70	ug	82
72)	*Perylene-d12	38.24	264.0	95840^	40.00	ug	90
73)	Di-n-octylphthalate	33.99	148.9	4151	15.87	ug	87
74)	Benzo(b)fluoranthene	35.98	252.0	16701	99.66	ug	96
75)	Benzo(b)fluoranthene	36.09	252.0	16359	97.62	ug	91
75)	Benzo(k)fluoranthene	35.98	252.0	16701	115.94	ug	92
75)	Benzo(k)fluoranthene	36.09	252.0	16359	113.57	ug	91
76)	Benzo(a)pyrene	37.85	252.0	11840	88.45	ug	95

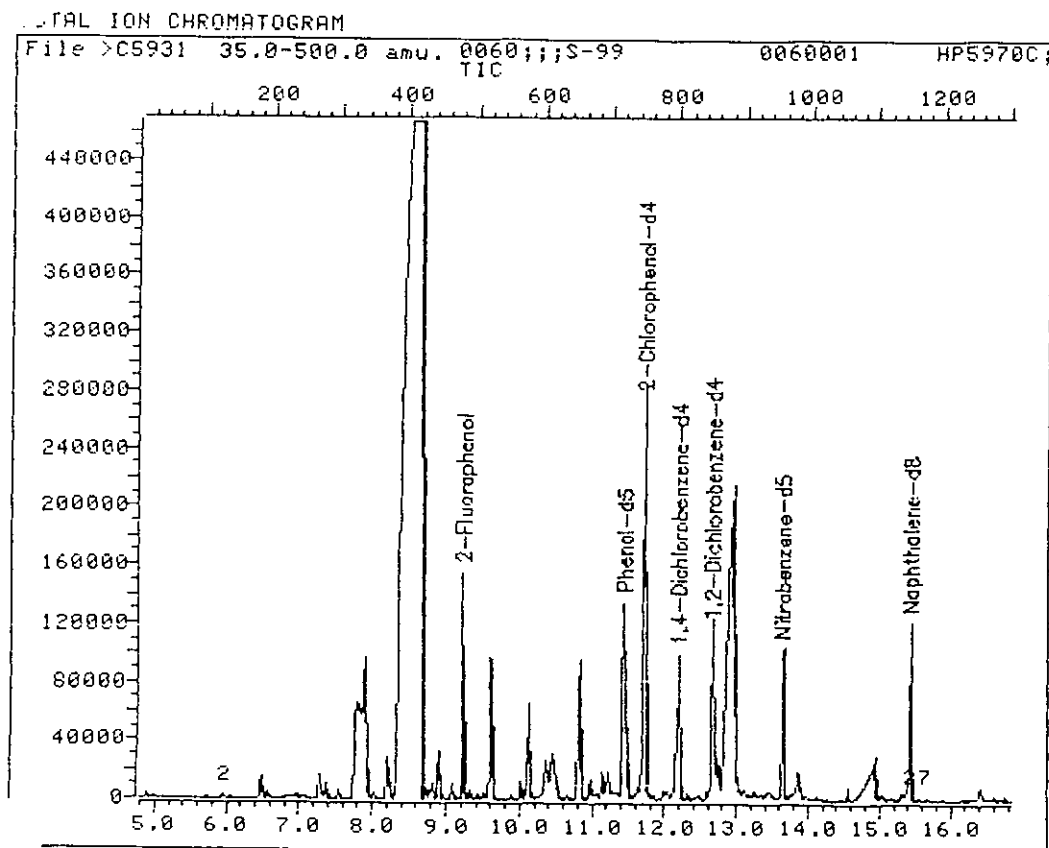
0183

	Compound	R.T.	Q ion	Area	Conc	Units	q
79)	Benzo(g,h,i)perylene	49.33	276.0	8843	79.90	ug	84

* Compound is ISTD

0183

0184



Data File: >C5931::C1

Quant Output File: ^C5931::QT

Name: 0060;;;S-99

Misc: 0060001

HP5970C;011993;012093;LLS;1;;5.0;C0953

BTL# 7

Id File: I_EPA::N1

Title: CLP-OLM01.8 BNA COMPOUNDS

Last Calibration: 930202 15:36

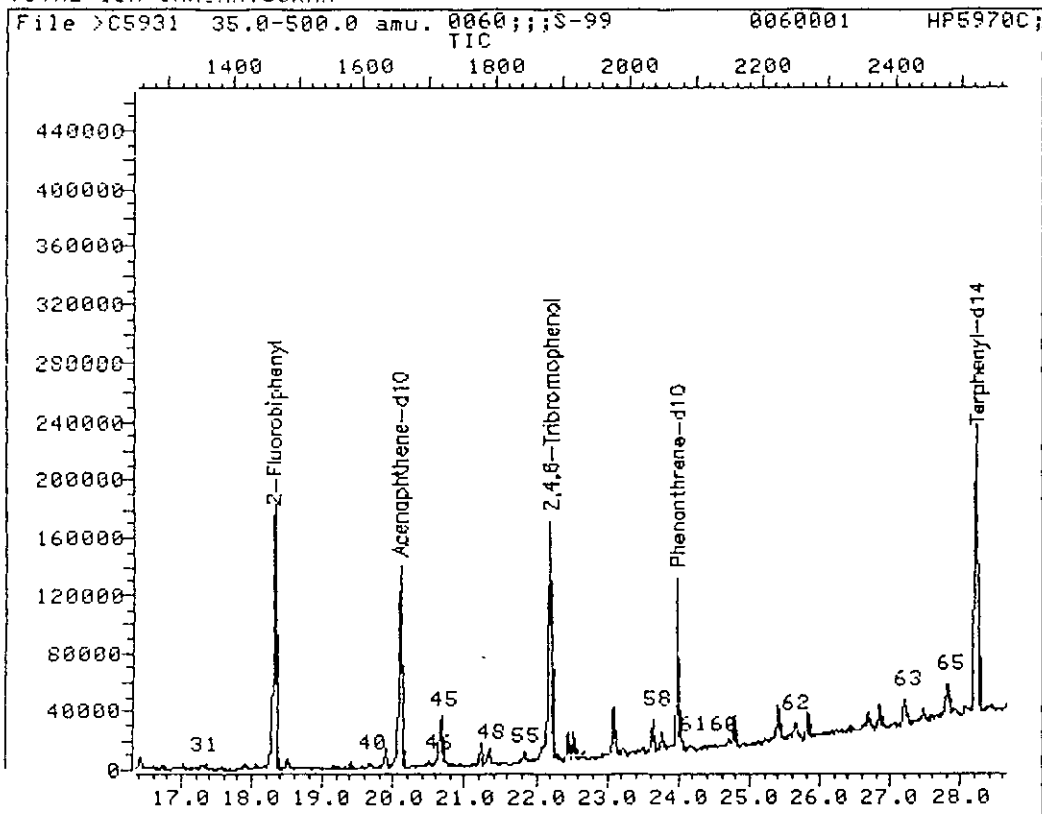
Operator ID: MSC

Quant Time: 930202 20:54

Injected at: 930202 19:59

TIC page 1 of 4

TOTAL ION CHROMATOGRAM



Data File: >C5931::C1

Quant Output File: ^C5931::QT

Name: 0060;;;S-99

Misc: 0060001 HP5970C;011993;012093;LLS;1;;5.0;C0953 BTL# 7

Id File: I_EPA::N1

Title: CLP-OLM01.8 BNA COMPOUNDS

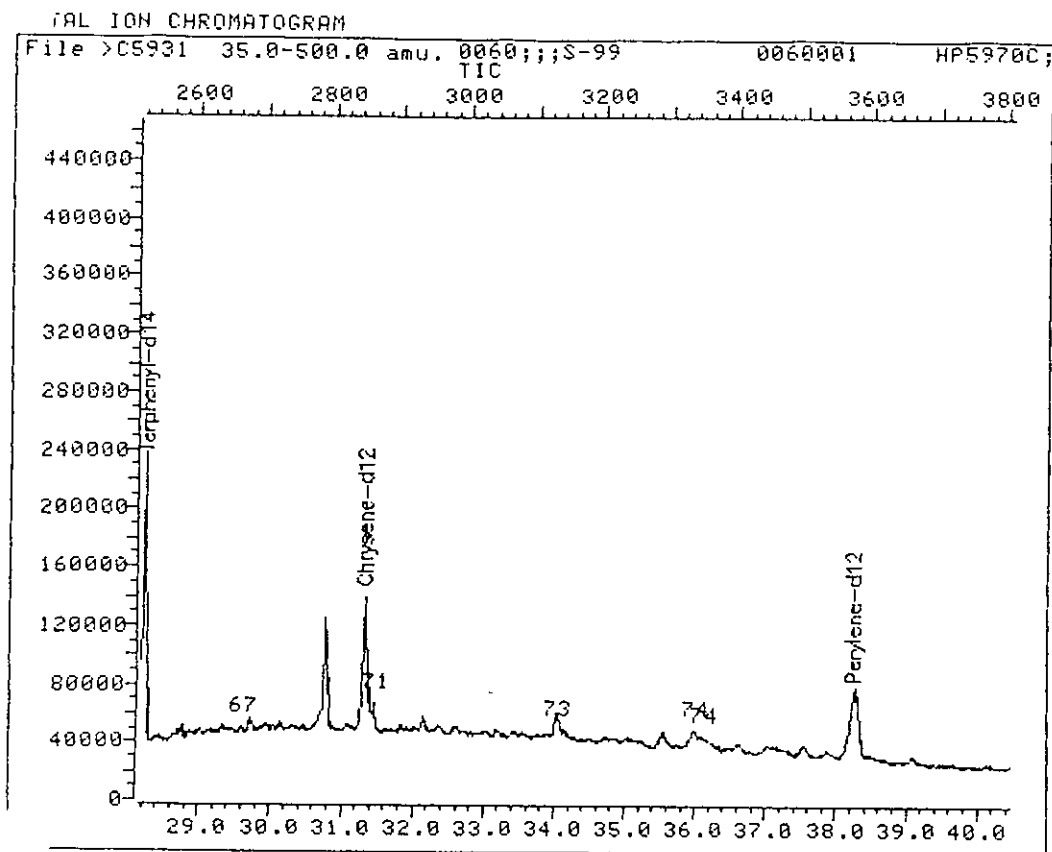
Last Calibration: 930202 15:36

Operator ID: MSC

Quant Time: 930202 20:54

Injected at: 930202 19:59

TIC page 2 of 4



Data File: >C5931::C1

Quant Output File: ^C5931::QT

Name: 0060;;;S-99

Misc: 0060001

HP5970C;011993;012093;LLS;1;;;5.0;C0953

BTL# 7

Id File: I_EPA::N1

Title: CLP-OLM01.8 BNA COMPOUNDS

Last Calibration: 930202 15:36

Operator ID: MSC

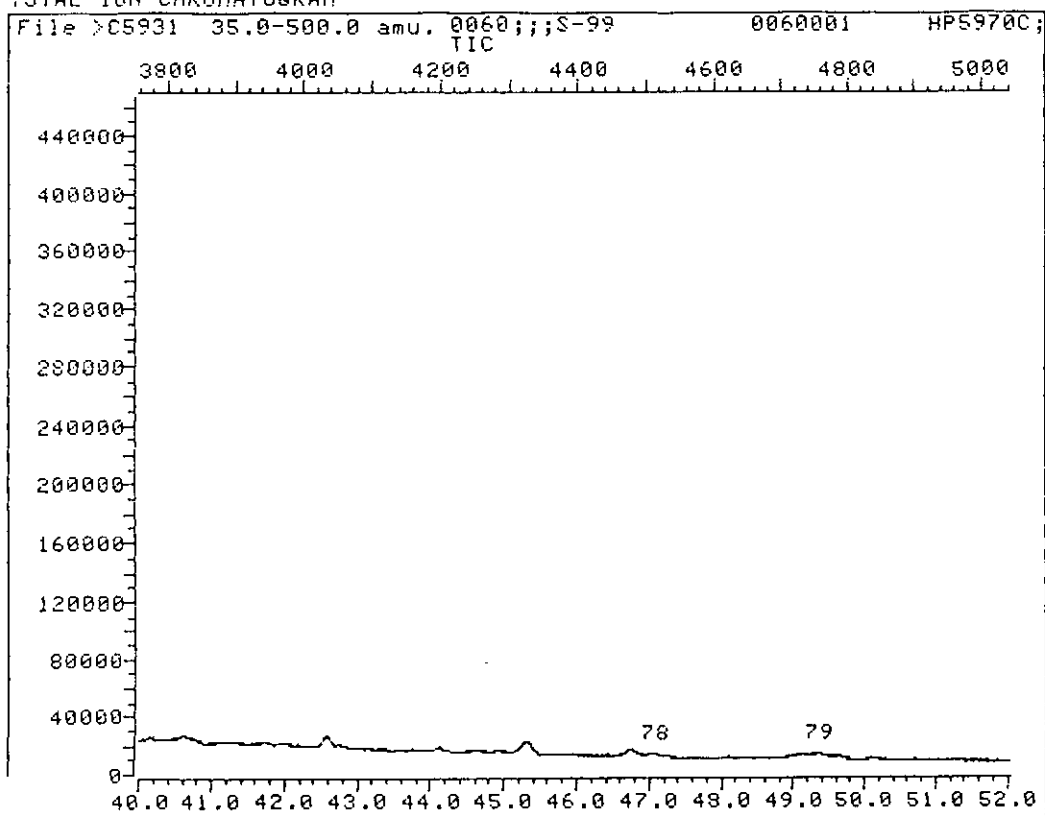
Quant Time: 930202 20:54

Injected at: 930202 19:59

TIC page 3 of 4

0187

TOTAL ION CHROMATOGRAM



Data File: >C5931::C1

Quant Output File: ^C5931::QT

Name: 0060;;;S-99

Misc: 0060001 HP5970C;011993;012093;LLS;1;;;5.0;C0953 BTL# 7

Id File: I_EPA::N1

Title: CLP-OLM01.8 BNA COMPOUNDS

Last Calibration: 930202 15:36

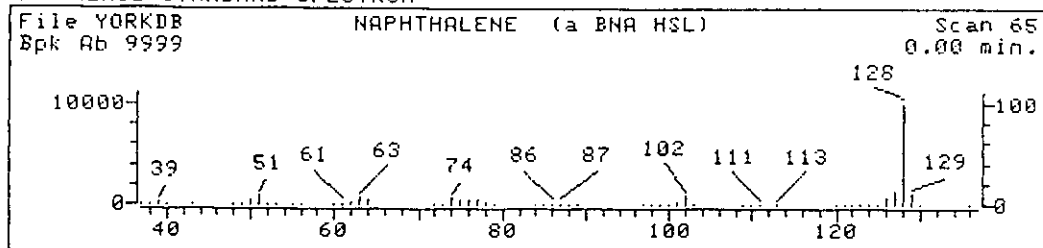
Operator ID: MSC

Quant Time: 930202 20:54

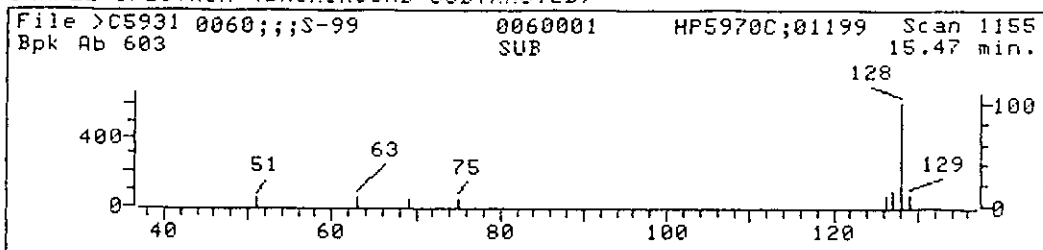
Injected at: 930202 19:59

TIC page 4 of 4

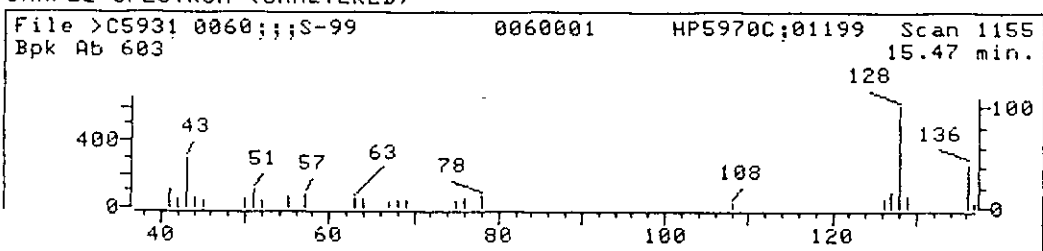
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5931::C1

Quant Output File: ^C5931::QT

Name: 0060;;;S-99

Misc: 0060001 HP5970C;011993;012093;LLS;1;;;5.0;C0953 BTL# 7

Quant Time: 930202 20:54

Quant ID File: I_EPA::N1

Injected at: 930202 19:59

Last Calibration: 930202 15:36

Compound No: 27

Compound Name: Naphthalene

Scan Number: 1156

Retention Time: 15.47 min.

Quant Ion: 127.9

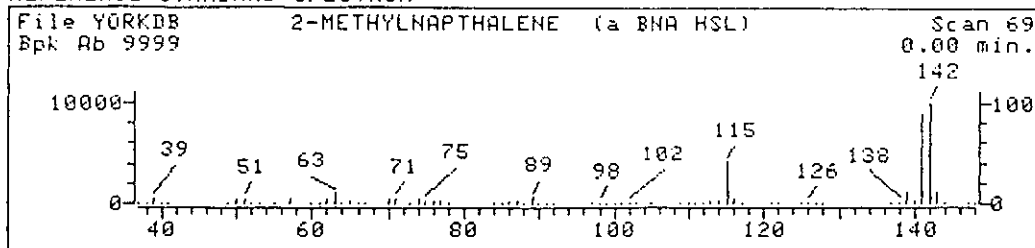
Area: 1431

Concentration: 9.29 ug

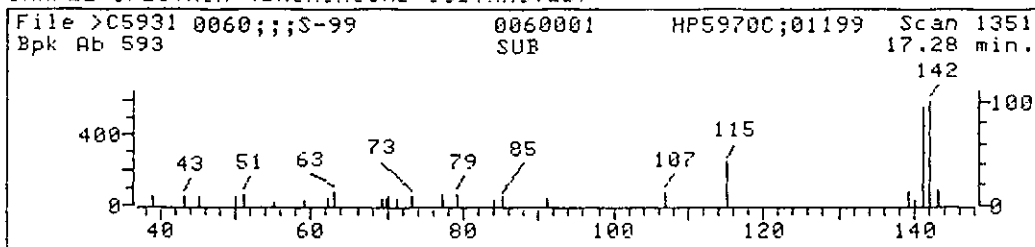
q-value: 95

0189

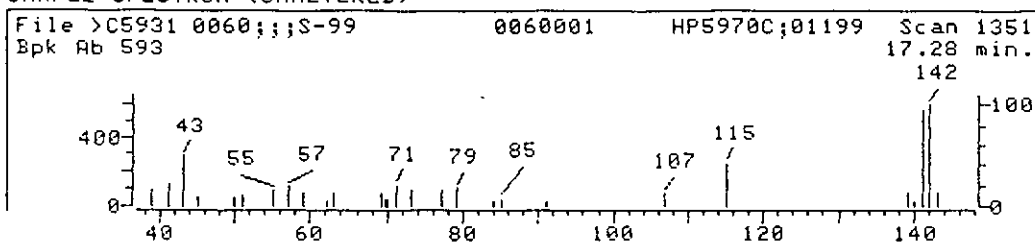
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



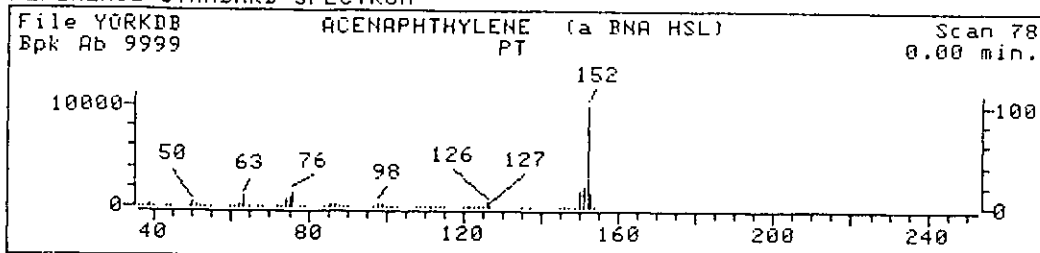
SAMPLE SPECTRUM (UNALTERED)



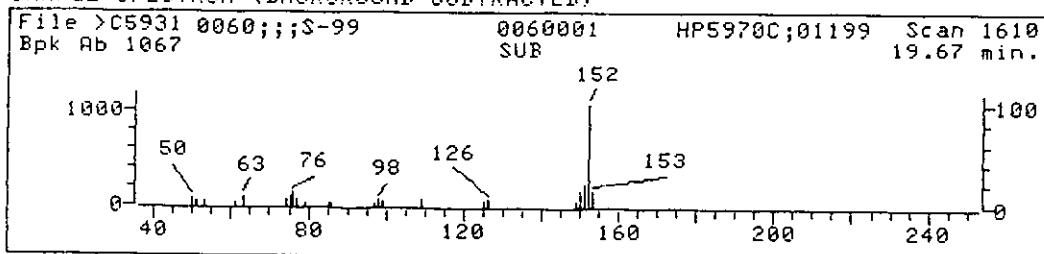
Data File: >C5931::C1 Quant Output File: ^C5931::QT
Name: 0060;;;S-99
Misc: 0060001 HP5970C;011993;012093;LLS;1;;5.0;C0953 BTL# 7
Quant Time: 930202 20:54 Quant ID File: I_EPA::N1
Injected at: 930202 19:59 Last Calibration: 930202 15:36

Compound No: 31
Compound Name: 2-Methylnaphthalene
Scan Number: 1351
Retention Time: 17.28 min.
Quant Ion: 141.9
Area: 1268
Concentration: 11.14 ug
q-value: 87

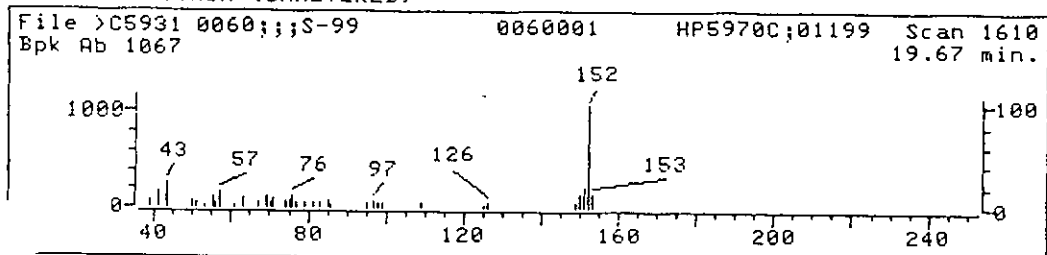
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5931::C1

Quant Output File: ^C5931::QT

Name: 0060;;;S-99

Misc: 0060001 HP5970C;011993;012093;LLS;1;;5.0;C0953 BTL# 7

Quant Time: 930202 20:54

Quant ID File: I_EPA::N1

Injected at: 930202 19:59

Last Calibration: 930202 15:36

Compound No: 40

Compound Name: Acenaphthylene

Scan Number: 1610

Retention Time: 19.67 min.

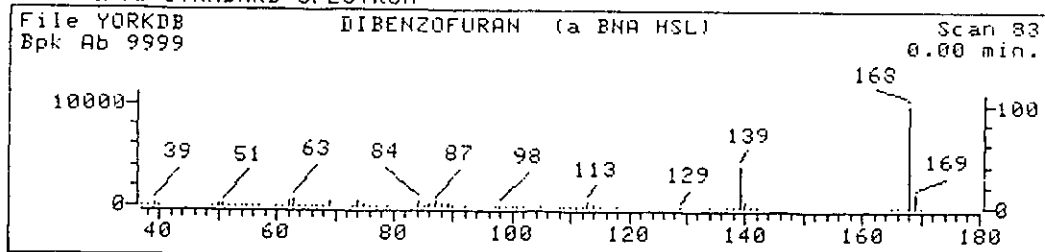
Quant Ion: 152.0

Area: 2480

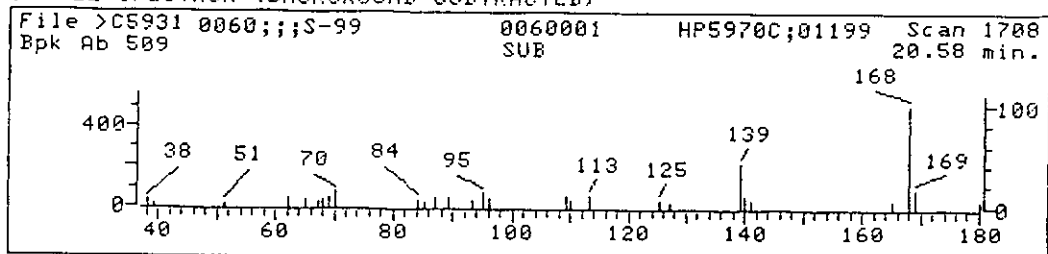
Concentration: 16.19 ug

q-value: 98

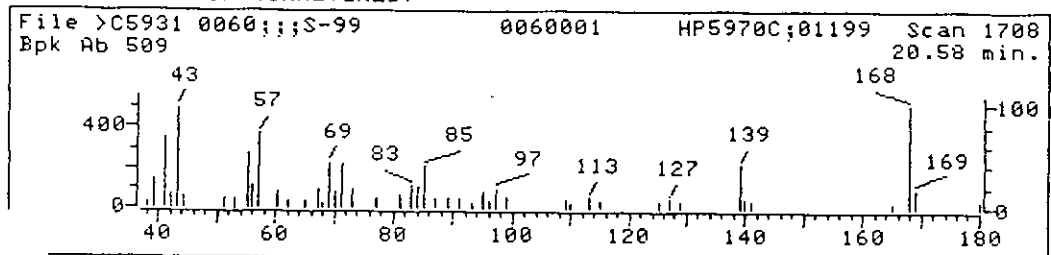
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5931::C1

Quant Output File: ^C5931::QT

Name: 0060;;;S-99

Misc: 0060001 HP5970C;011993;012093;LLS;1;;5.0;C0953 BTL# 7

Quant Time: 930202 20:54

Quant ID File: I_EPA::N1

Injected at: 930202 19:59

Last Calibration: 930202 15:36

Compound No: 46

Compound Name: Dibenzofuran

Scan Number: 1708

Retention Time: 20.58 min.

Quant Ion: 167.8

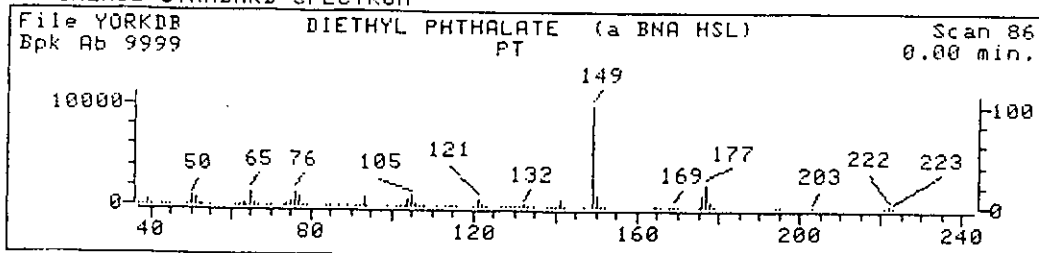
Area: 1249

Concentration: 7.99 ug

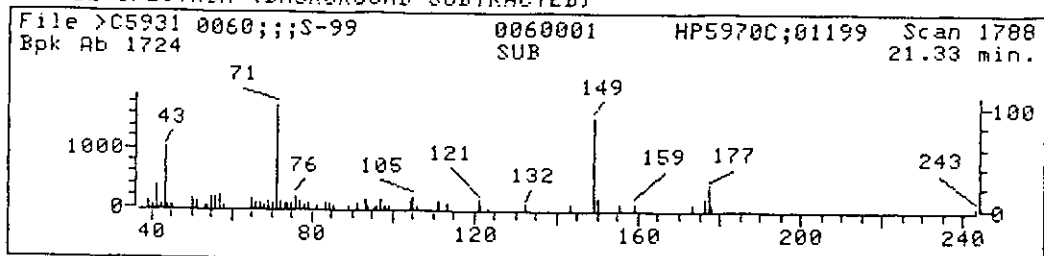
q-value: 84

0192

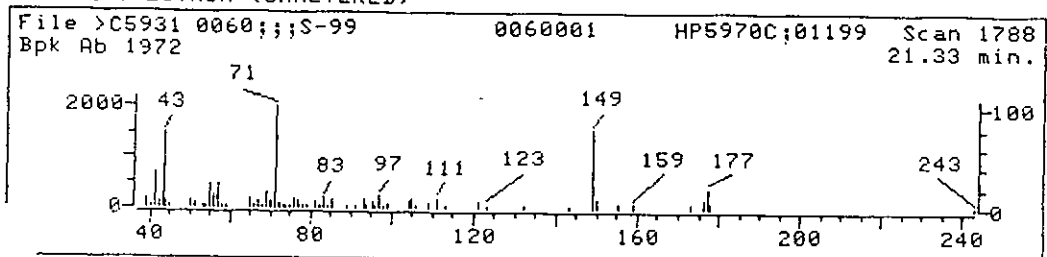
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5931::C1

Quant Output File: ^C5931::QT

Name: 0060;;;S-99

Misc: 0060001 HP5970C;011993;012093;LLS;1;;5.0;C0953 BTL# 7

Quant Time: 930202 20:54

Quant ID File: I_EPA::N1

Injected at: 930202 19:59

Last Calibration: 930202 15:36

Compound No: 48

Compound Name: Diethylphthalate

Scan Number: 1788

Retention Time: 21.33 min.

Quant Ion: 148.8

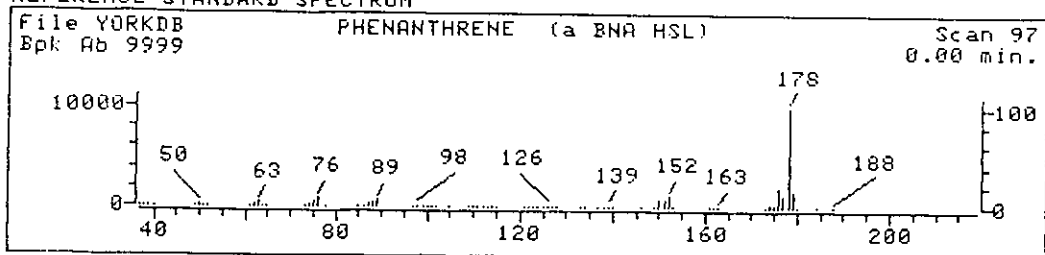
Area: 3546

Concentration: 23.91 ug

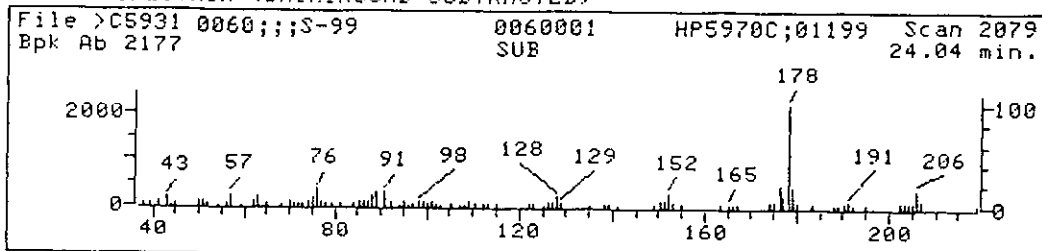
q-value: 97

0 0193

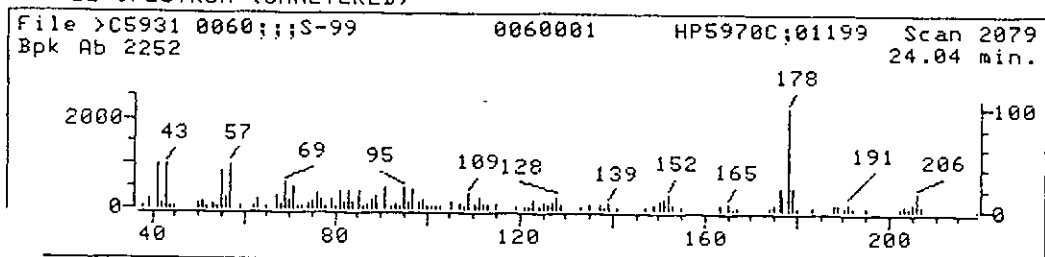
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5931::C1

Quant Output File: ^C5931::QT

Name: 0060;;;S-99

Misc: 0060001 HP5970C;011993;012093;LLS;1;;;5.0;C0953 BTL# 7

Quant Time: 930202 20:54

Quant ID File: I_EPA::N1

Injected at: 930202 19:59

Last Calibration: 930202 15:36

Compound No: 59

Compound Name: Phenanthrene

Scan Number: 2078

Retention Time: 24.04 min.

Quant Ion: 177.9

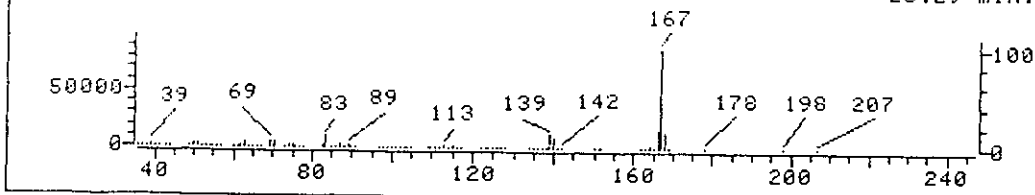
Area: 7956

Concentration: 44.71 ug

q-value: 92

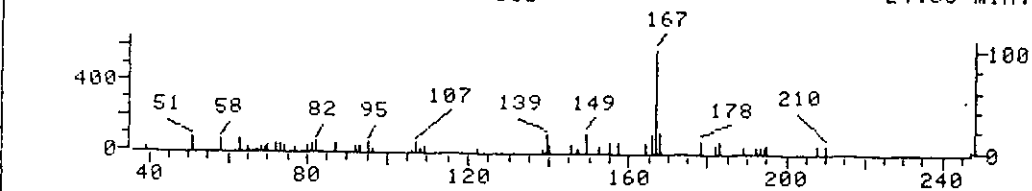
REFERENCE STANDARD SPECTRUM

File >C2594 ;;;SSTD050 050PPM STD HP5970C;;;1 Scan 1151
Bpk Ab 88192 23.29 min.



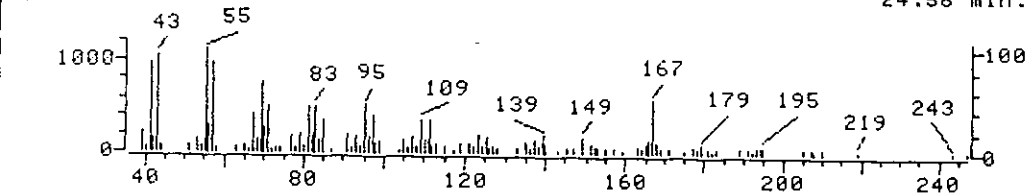
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File >C5931 0060;;;S-99 0060001 HP5970C;01199 Scan 2136
Bpk Ab 590 SUB 24.58 min.



SAMPLE SPECTRUM (UNALTERED)

File >C5931 0060;;;S-99 0060001 HP5970C;01199 Scan 2136
Bpk Ab 1100 24.58 min.



Data File: >C5931::C1

Quant Output File: ^C5931::QT

Name: 0060;;;S-99

Misc: 0060001 HP5970C;011993;012093;LLS;1;;5.0;C0953 BTL# 7

Quant Time: 930202 20:54

Quant ID File: I_EPA::N1

Injected at: 930202 19:59

Last Calibration: 930202 15:36

Compound No: 60

Compound Name: Carbazole

Scan Number: 2136

Retention Time: 24.58 min.

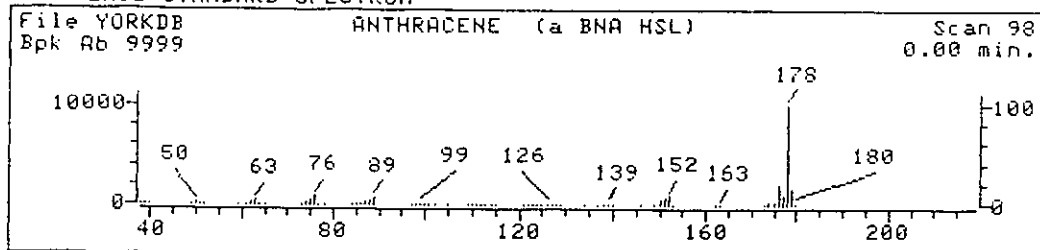
Quant Ion: 166.8

Area: 2017

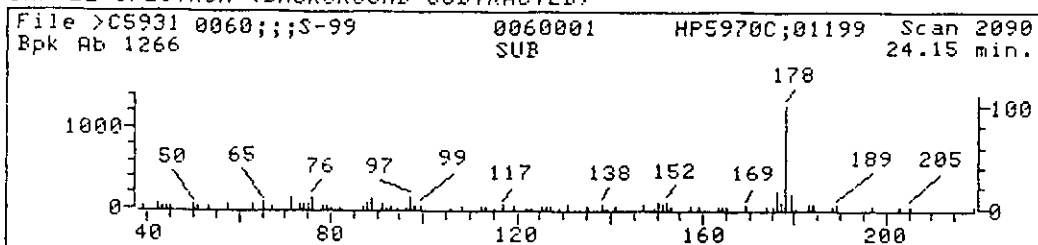
Concentration: 26.29 ug

q-value: 90

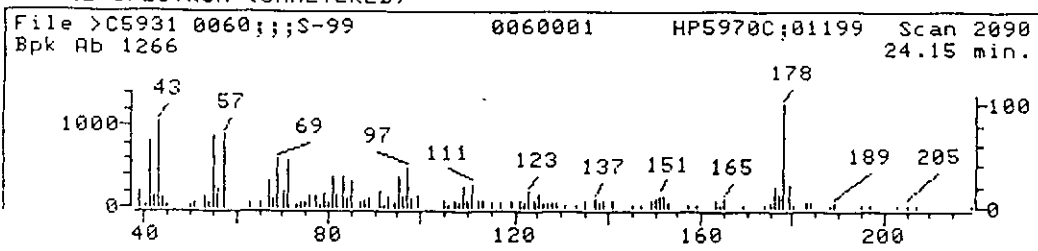
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5931::C1

Quant Output File: ^C5931::QT

Name: 0060;;;S-99

Misc: 0060001 HP5970C;011993;012093;LLS;1;;;5.0;C0953 BTL# 7

Quant Time: 930202 20:54

Quant ID File: I_EPA::N1

Injected at: 930202 19:59

Last Calibration: 930202 15:36

Compound No: 61

Compound Name: Anthracene

Scan Number: 2090

Retention Time: 24.15 min.

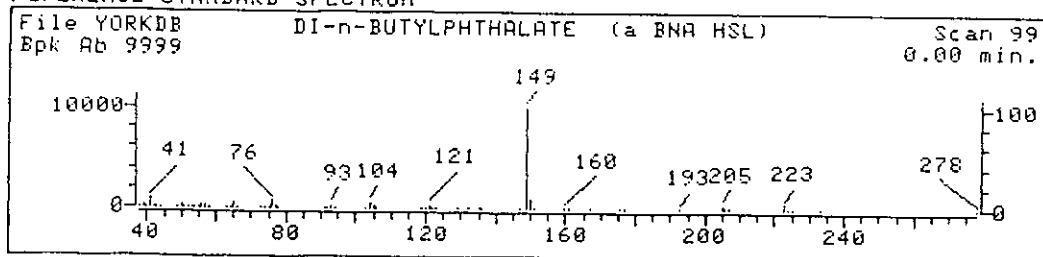
Quant Ion: 177.9

Area: 3075

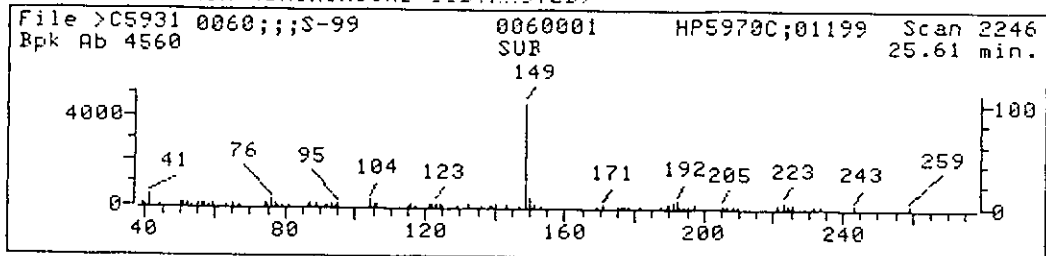
Concentration: 16.69 ug

q-value: 98

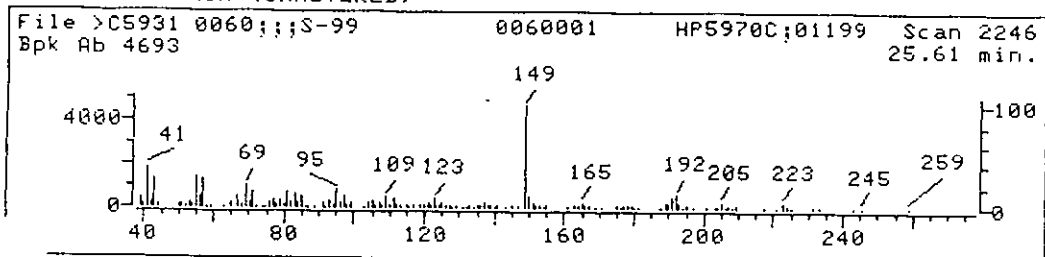
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5931::C1

Quant Output File: ^C5931::QT

Name: 0060;;;S-99

Misc: 0060001

HP5970C;011993;012093;LLS;1;;5.0;C0953

BTL# 7

Quant Time: 930202 20:54

Quant ID File: I_EPA::N1

Injected at: 930202 19:59

Last Calibration: 930202 15:36

Compound No: 62

Compound Name: Di-n-butylphthalate

Scan Number: 2246

Retention Time: 25.61 min.

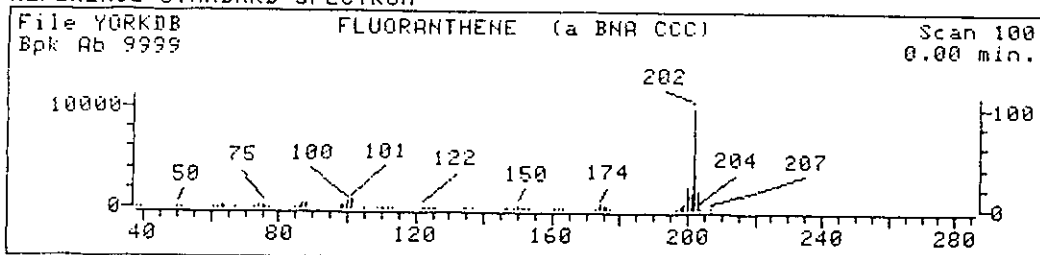
Quant Ion: 148.8

Area: 9492

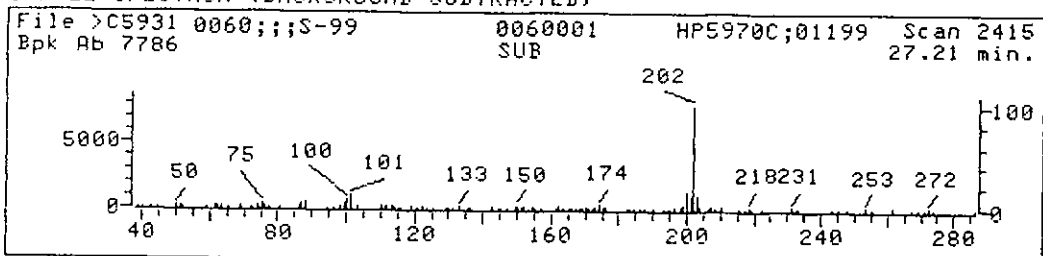
Concentration: 35.68 ug

q-value: 98

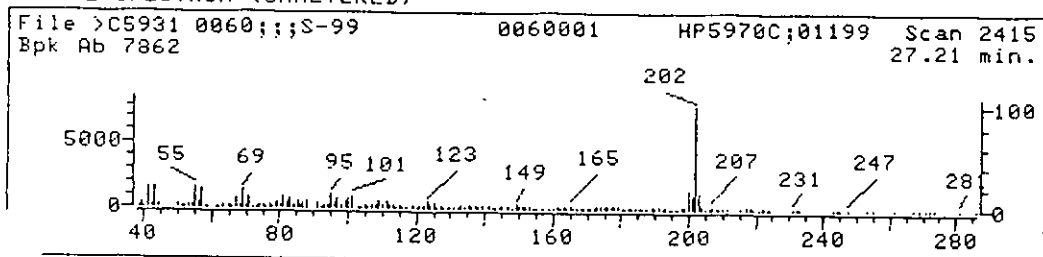
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5931::C1

Quant Output File: ^C5931::QT

Name: 0060;;;S-99

Misc: 0060001

HP5970C;011993;012093;LLS;1;;5.0;C0953

BTL# 7

Quant Time: 930202 20:54

Quant ID File: I_EPA::N1

Injected at: 930202 19:59

Last Calibration: 930202 15:36

Compound No: 63

Compound Name: Fluoranthene

Scan Number: 2415

Retention Time: 27.21 min.

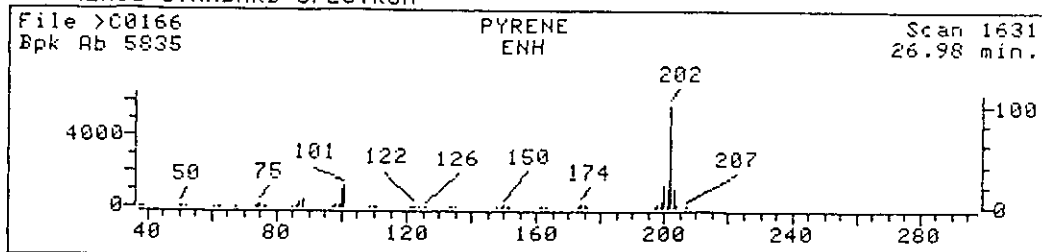
Quant Ion: 201.9

Area: 21313

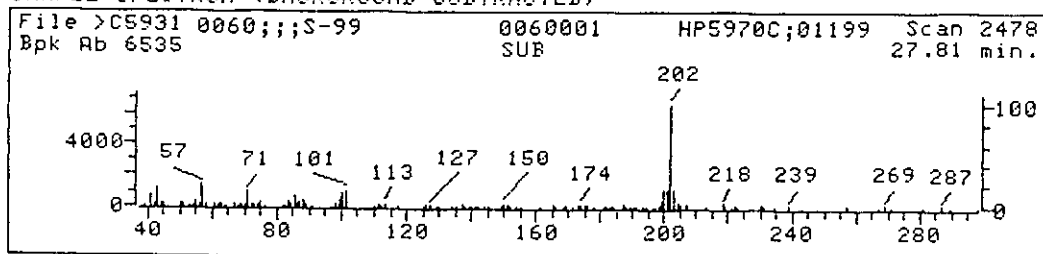
Concentration: 104.81 ug

q-value: 93

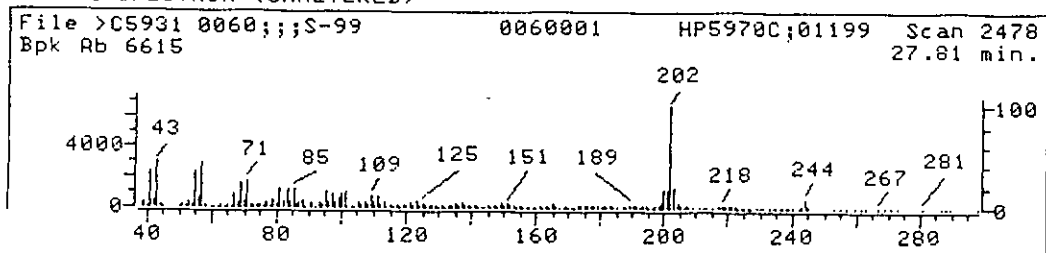
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5931::C1

Quant Output File: ^C5931::QT

Name: 0060;;;S-99

Misc: 0060001

HP5970C;011993;012093;LLS;1;;5.0;C0953 BTL# 7

Quant Time: 930202 20:54

Quant ID File: I_EPA::N1

Injected at: 930202 19:59

Last Calibration: 930202 15:36

Compound No: 65

Compound Name: Pyrene

Scan Number: 2478

Retention Time: 27.81 min.

Quant Ion: 201.9

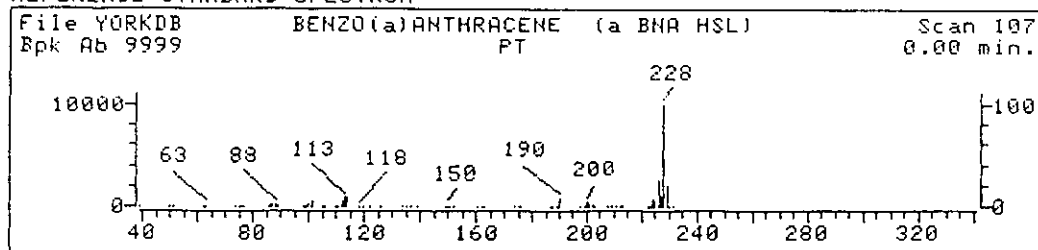
Area: 18843

Concentration: 77.30 ug

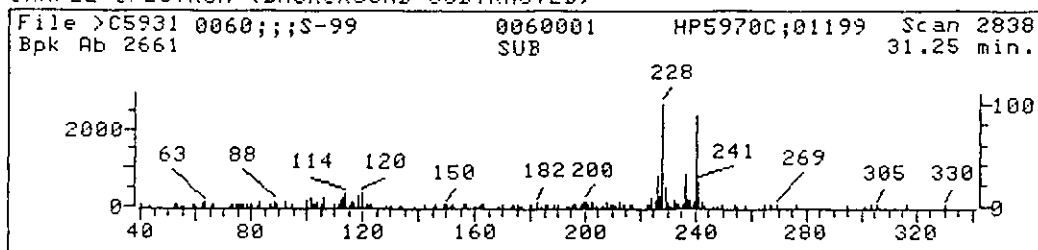
q-value: 97

0199

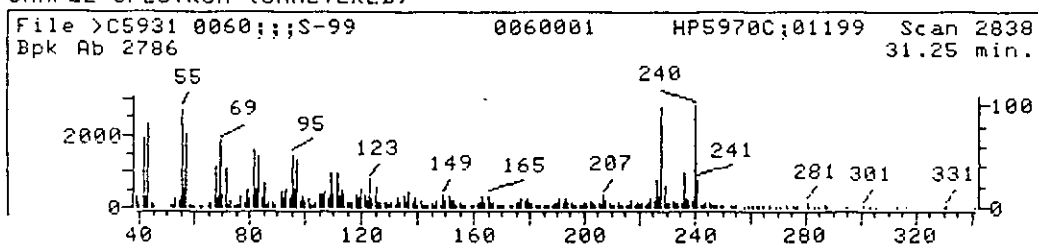
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

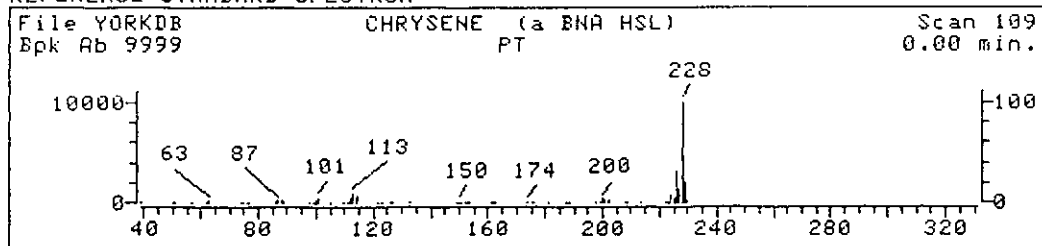


Data File: >C5931::C1 Quant Output File: ^C5931::QT
Name: 0060;;;S-99
Misc: 0060001 HP5970C;011993;012093;LLS;1;;5.0;C0953 BTL# 7
Quant Time: 930202 20:54 Quant ID File: I_EPA::N1
Injected at: 930202 19:59 Last Calibration: 930202 15:36

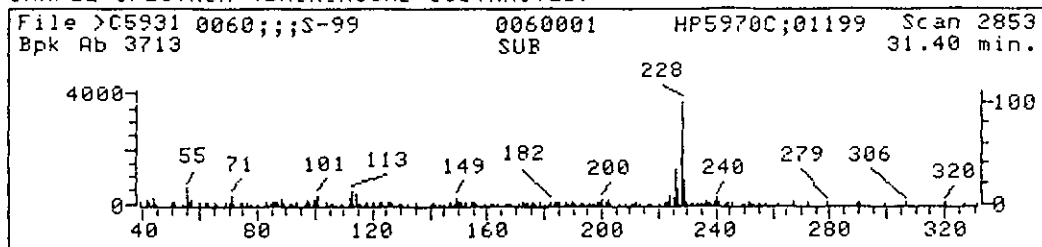
Compound No: 69
Compound Name: Benzo(a)anthracene
Scan Number: 2838
Retention Time: 31.25 min.
Quant Ion: 228.0
Area: 12101
Concentration: 64.86 ug
q-value: 92

0 0200

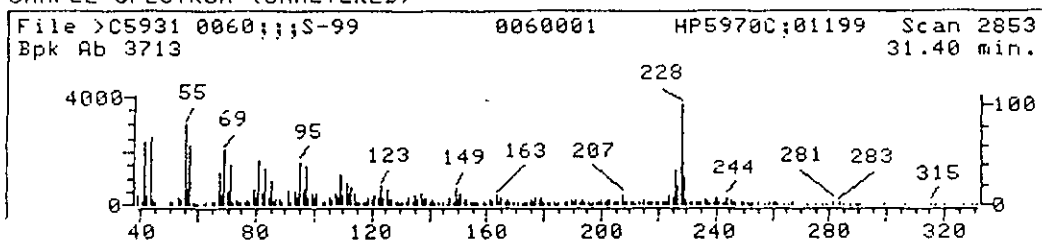
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



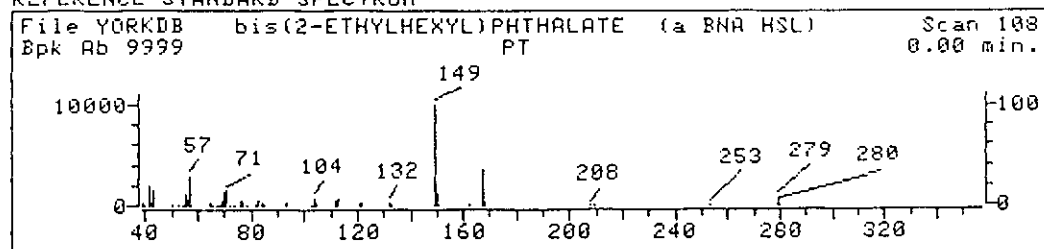
SAMPLE SPECTRUM (UNALTERED)



Data File: >C5931::C1 Quant Output File: ^C5931::QT
Name: 0060;;;S-99
Misc: 0060001 HP5970C;011993;012093;LLS;1;;5.0;C0953 BTL# 7
Quant Time: 930202 20:54 Quant ID File: I_EPA::N1
Injected at: 930202 19:59 Last Calibration: 930202 15:36

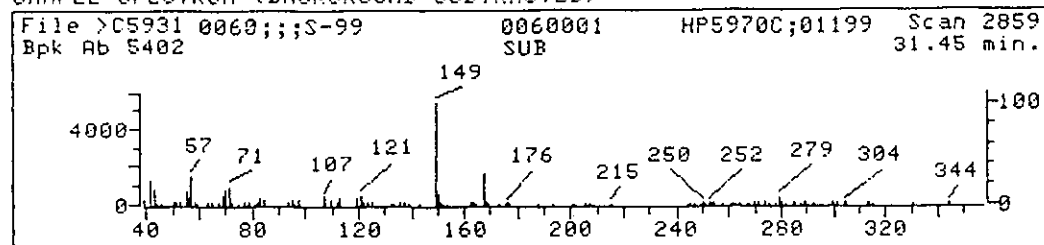
Compound No: 70
Compound Name: Chrysene
Scan Number: 2854
Retention Time: 31.40 min.
Quant Ion: 228.0
Area: 17284
Concentration: 112.66 ug
q-value: 96

REFERENCE STANDARD SPECTRUM

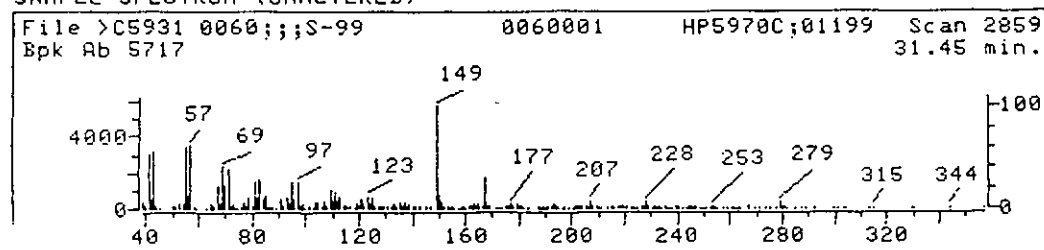


0201

SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



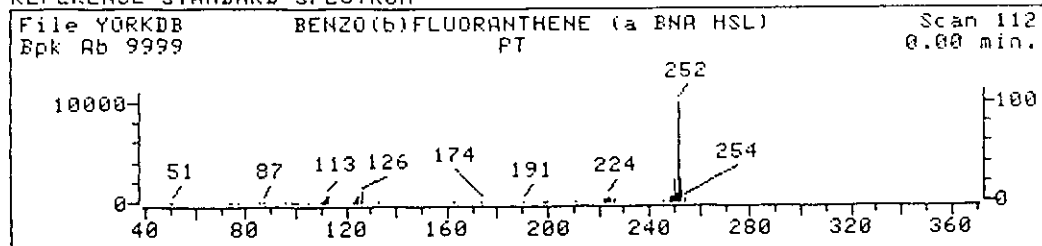
SAMPLE SPECTRUM (UNALTERED)



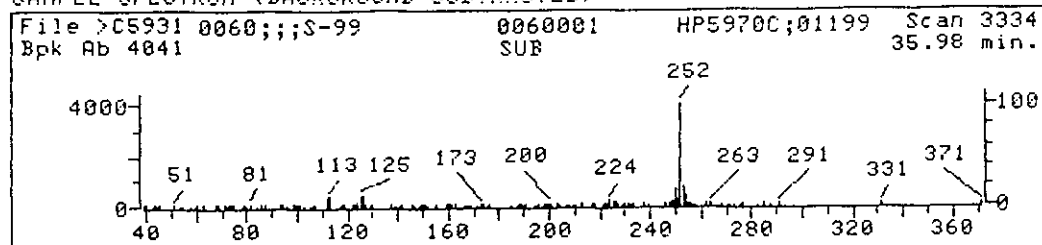
Data File: >C5931::C1 Quant Output File: ^C5931::QT
Name: 0060;;;S-99
Misc: 0060001 HP5970C;011993;012093;LLS;1;;5.0;C0953 BTL# 7
Quant Time: 930202 20:54 Quant ID File: I_EPA::N1
Injected at: 930202 19:59 Last Calibration: 930202 15:36

Compound No: 71
Compound Name: bis(2-Ethylhexyl)phthalate
Scan Number: 2859
Retention Time: 31.45 min.
Quant Ion: 148.8
Area: 16091
Concentration: 100.70 ug
q-value: 82

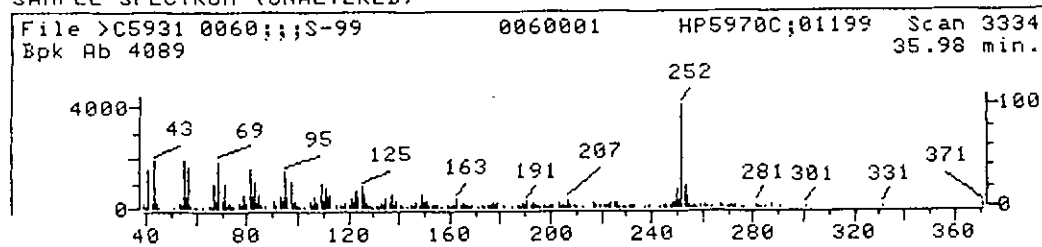
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

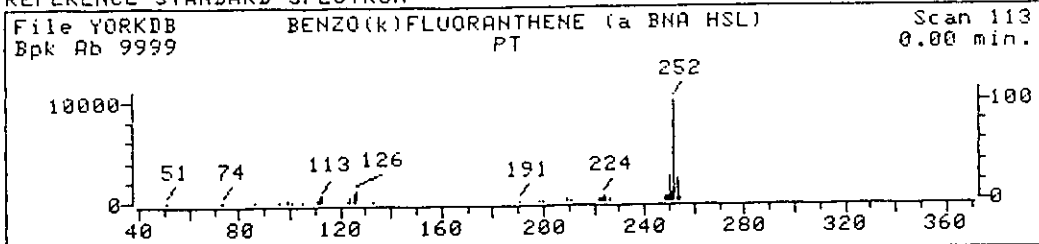


Data File: >C5931::C1 Quant Output File: ^C5931::QT
Name: 0060;;;S-99
Misc: 0060001 HP5970C;011993;012093;LLS;1;;;5.0;C0953 BTL# 7
Quant Time: 930202 20:54 Quant ID File: I_EPA::N1
Injected at: 930202 19:59 Last Calibration: 930202 15:36

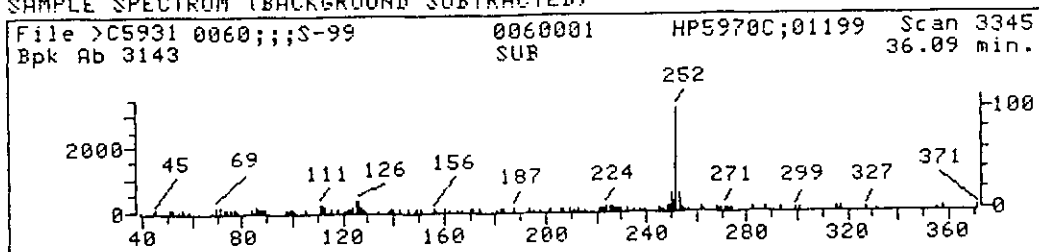
Compound No: 74
Compound Name: Benzo(b)fluoranthene
Scan Number: 3334
Retention Time: 35.98 min.
Quant Ion: 252.0
Area: 16701
Concentration: 99.66 ug
q-value: 96

0203

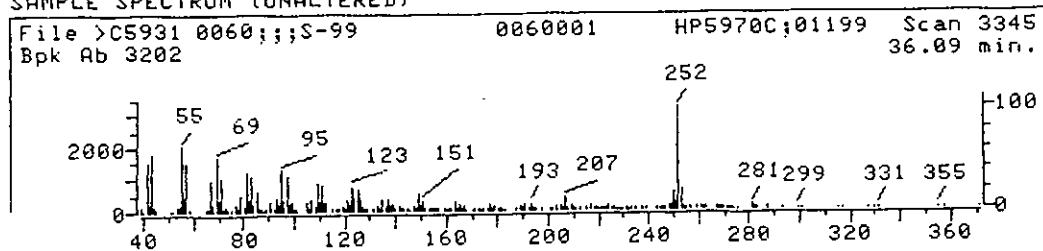
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5931::C1

Quant Output File: ^C5931::QT

Name: 0060;;;S-99

Misc: 0060001 HP5970C;011993;012093;LLS;1;;;5.0;C0953 BTL# 7

Quant Time: 930202 20:54

Quant ID File: I_EPA::N1

Injected at: 930202 19:59

Last Calibration: 930202 15:36

Compound No: 75

Compound Name: Benzo(k)fluoranthene

Scan Number: 3345

Retention Time: 36.09 min.

Quant Ion: 252.0

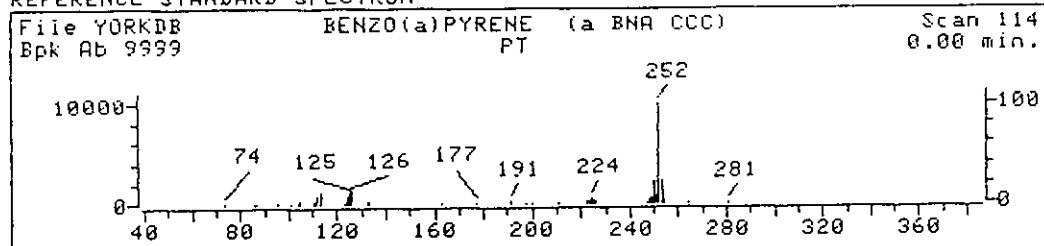
Area: 16359

Concentration: 113.57 ug

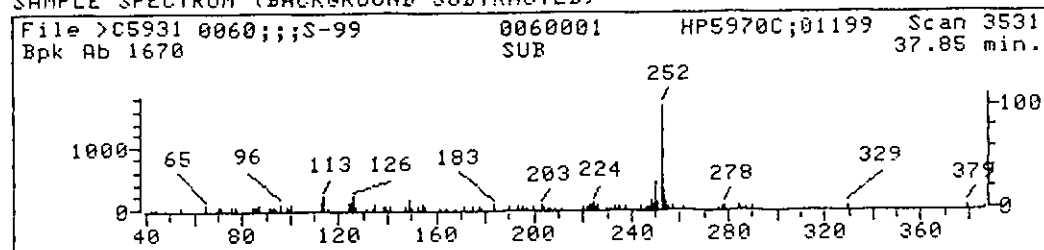
q-value: 91

0204

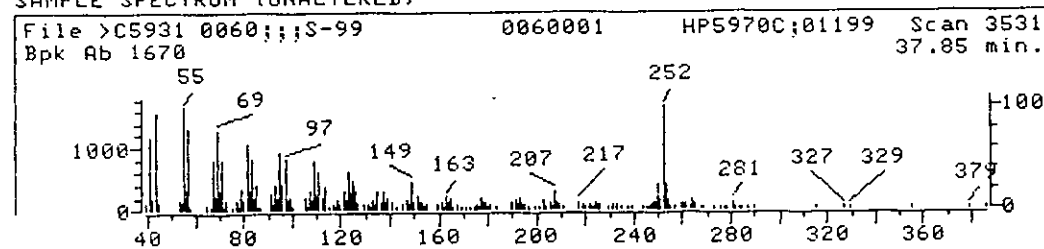
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



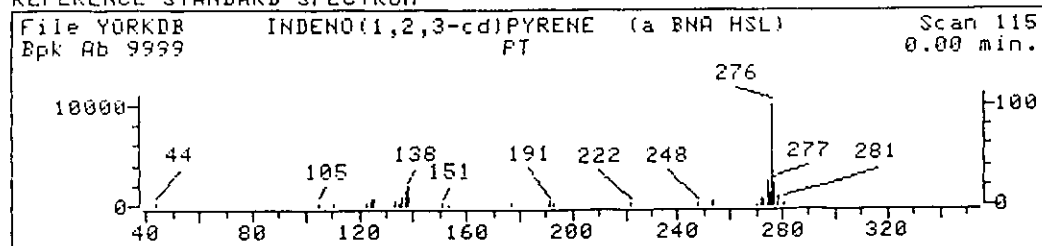
SAMPLE SPECTRUM (UNALTERED)



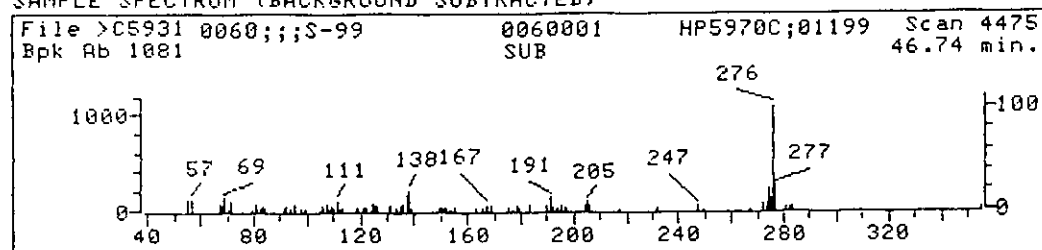
Data File: >C5931::C1 Quant Output File: ^C5931::QT
Name: 0060;;;S-99
Misc: 0060001 HP5970C;011993;012093;LLS;1;;5.0;C0953 BTL# 7
Quant Time: 930202 20:54 Quant ID File: I_EPA::N1
Injected at: 930202 19:59 Last Calibration: 930202 15:36

Compound No: 76
Compound Name: Benzo(a)pyrene
Scan Number: 3531
Retention Time: 37.85 min.
Quant Ion: 252.0
Area: 11840
Concentration: 88.45 ug
q-value: 95

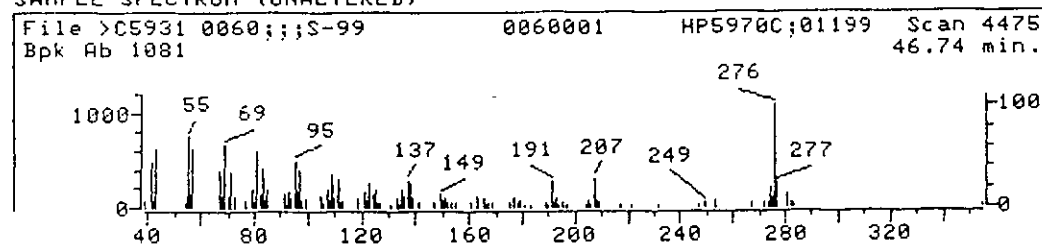
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

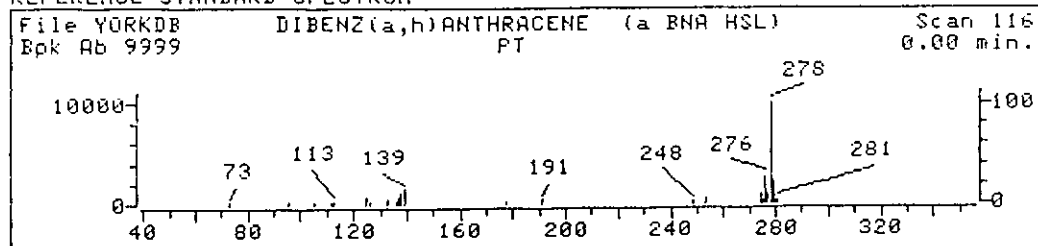


Data File: >C5931::C1 Quant Output File: ^C5931::QT
Name: 0060;;;S-99
Misc: 0060001 HP5970C;011993;012093;LLS;1;;5.0;C0953 BTL# 7
Quant Time: 930202 20:54 Quant ID File: I_EPA::N1
Injected at: 930202 19:59 Last Calibration: 930202 15:36

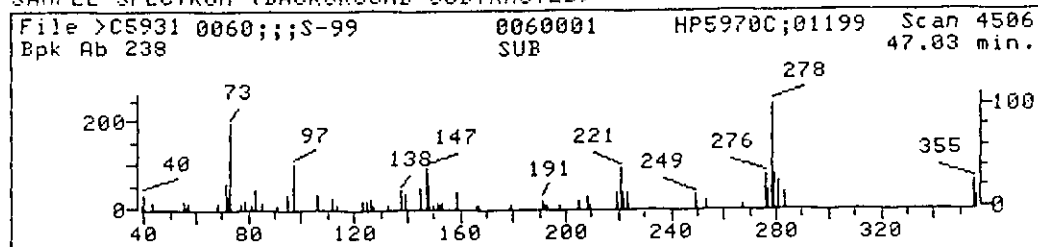
Compound No: 77
Compound Name: Indeno(1,2,3-cd)pyrene
Scan Number: 4475
Retention Time: 46.74 min.
Quant Ion: 276.0
Area: 11321
Concentration: 106.56 ug
q-value: 95

0206

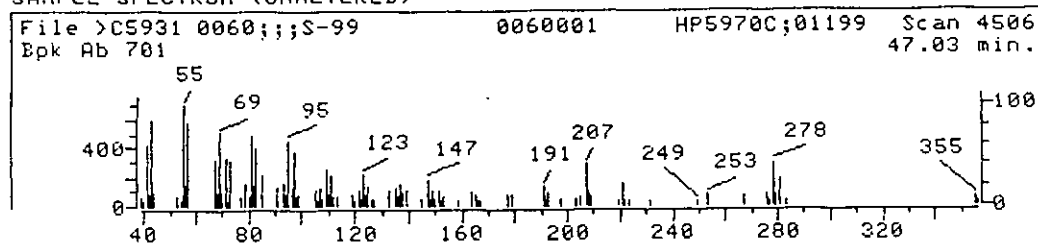
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

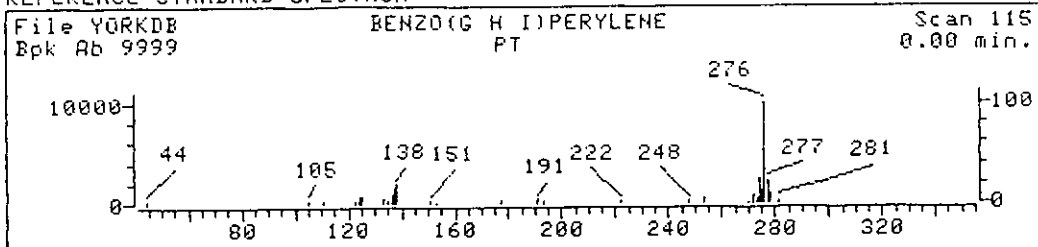


Data File: >C5931::C1 Quant Output File: ^C5931::QT
Name: 0060;;;S-99
Misc: 0060001 HP5970C;011993;012093;LLS;1;;;5.0;C0953 BTL# 7
Quant Time: 930202 20:54 Quant ID File: I_EPA::N1
Injected at: 930202 19:59 Last Calibration: 930202 15:36

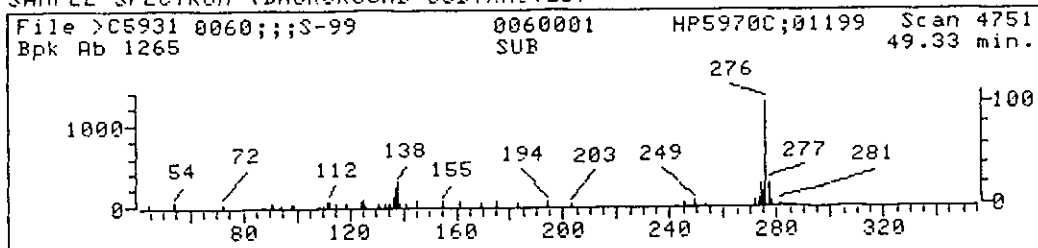
Compound No: 78
Compound Name: Dibenz(a,h)anthracene
Scan Number: 4506
Retention Time: 47.03 min.
Quant Ion: 278.0
Area: 1420
Concentration: 13.37 ug
q-value: 84

0207

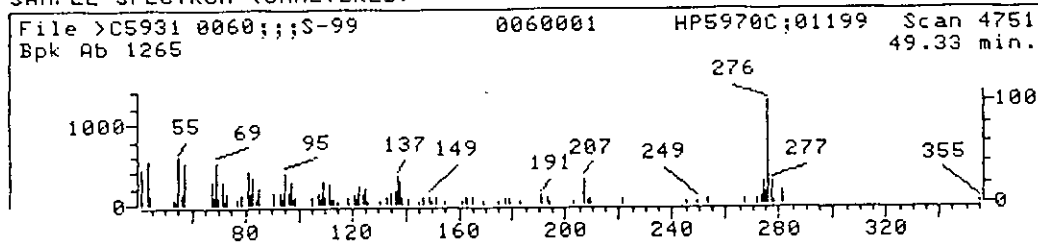
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5931::C1 Quant Output File: ^C5931::QT
Name: 0060;;;S-99
Misc: 0060001 HP5970C;011993;012093;LLS;1;;;5.0;C0953 BTL# 7
Quant Time: 930202 20:54 Quant ID File: I_EPA::N1
Injected at: 930202 19:59 Last Calibration: 930202 15:36

Compound No: 79
Compound Name: Benzo(g,h,i)perylene
Scan Number: 4751
Retention Time: 49.33 min.
Quant Ion: 276.0
Area: 8843
Concentration: 79.90 ug
q-value: 84

0208

10: ita file header from : >105931

```

Sample: 0060111;S-99          Operator: MSC          MS          2/02/93 19:59
Prod. : 00600001          BP59200;011993;012893;ELS;1;;5.0;C0953      RFL# 7
Nys. #: 1      MS model: 20  SM/HW rev.: 1A  ALS #: 0
  Method File: M.C          Tuning File: T.C          No. of extra records: 2
  Source temp.: 0          Analyzer temp.: 290          Transfer line temp.: 0

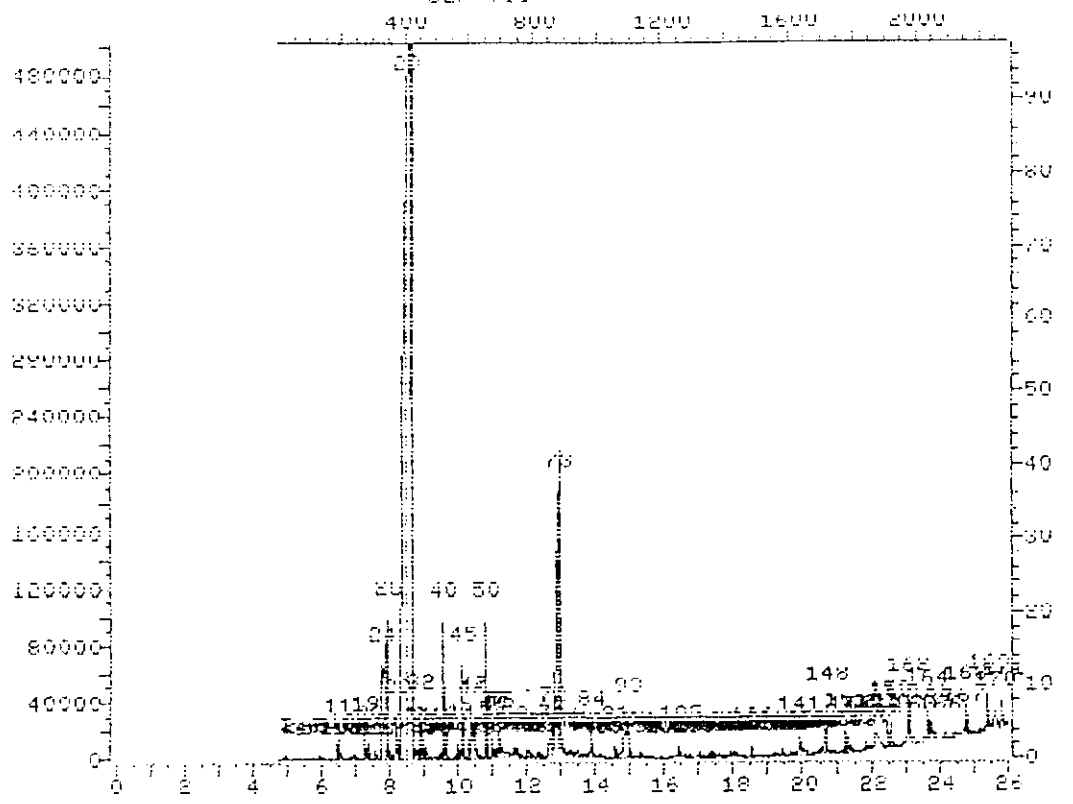
```

Chromatographic temperatures :	40.	290.	0.	0.	0.
Chromatographic times, min. :	4.0	23.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	.5	0.0

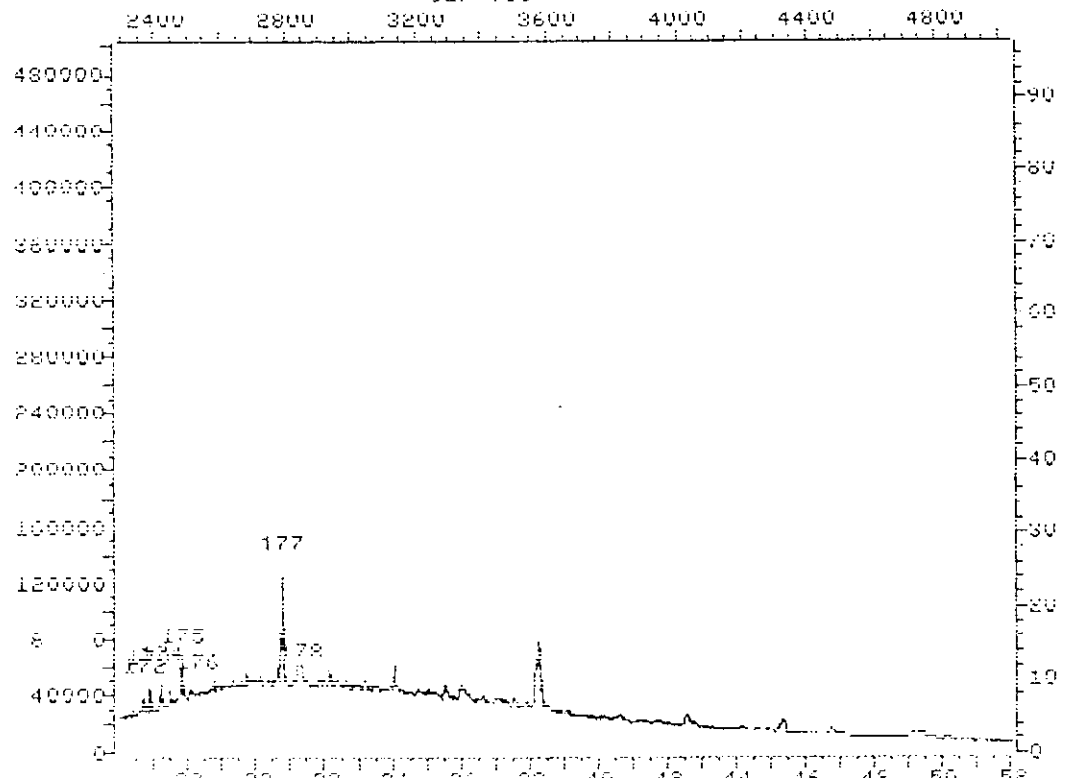
0209

Date: 02/02/93 19:59 Inst: 0

File: 005431 35.0-500.0 amu. 00401115-99 0040001 HP59700:011
CLP TIC



File: 005431 35.0-500.0 amu. 00401115-99 0040001 HP59700:011
CLP TIC



Date: 02/02/93 19:59 Inst: C

S-990210

HP5970C

EXTERNAL PEAK REPORT

PK#	RT	Total Area	Est Conc.	Assoc	STD	DF
22.	8.58	5871001.	13000.	1.		18.94
23.	12.91	290498.	2600.	1.		18.94
25.	2.91	318893.	1100.	1.		18.94
50.	10.81	218513.	230.	1.		18.94
24.	7.22	212081.	230.	1.		18.94
40.	9.58	189623.	630.	1.		18.94
93.	14.92	192082.	540.	2.		18.94
122	30.26	240638.	480.	5.		18.94
42.	10.43	141032.	470.	1.		18.94
45.	10.12	121262.	410.	1.		18.94
46.	10.35	83624.	280.	1.		18.94
28.	8.19	69822.	230.	1.		18.94
148	20.62	108251.	220.	3.		18.94
32.	8.90	62418.	210.	1.		18.94 <i>NOA</i>
162	23.02	23599.	120.	4.		18.94
169	25.40	60320.	140.	4.		18.94
84.	13.86	51433.	140.	2.		18.94
22.	12.74	38480.	130.	1.		18.94
56.	11.21	34824.	120.	1.		18.94
19.	7.27	36258.	120.	1.		18.94
55.	11.13	34829.	120.	1.		18.94
1	22.81	55572.	110.	5.		18.94 <i>target</i>
16.	24.26	43081.	100.	4.		18.94
159	22.45	41900.	99.	4.		18.94
164	23.63	40416.	95.	4.		18.94
31.	8.81	26385.	88.	1.		18.94
121	25.82	32225.	88.	4.		18.94

INTERNAL STD AREA REPORT

STD Compound Name	RT	Area	RT Range	TI/SI
1,4-DICHLOROBENZENE-D4	12.18	226744.	0.00 13.80	7.6
NAPHTHALENE-D8	15.43	276742.	13.80 17.76	2.2
ACENAPHTHENE-D10	20.08	368651.	17.76 22.03	4.7
PHENANTHRENE-D10	23.92	321886.	22.03 27.64	2.3
CHRYSENE-D12	31.32	326586.	27.64 34.70	2.9
PERYLENE-D12	38.09	5620.	34.70 49.33	.1

1STD peaks found: 6
 Surrogate peaks found: 8
 Quant target peaks expected: 26
 target peaks matched: 7
 Total TIC identified: 31

TUES : 12:19 AM FRI., 5 FEB., 1993

0211

RPN: 0000

Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RSE63

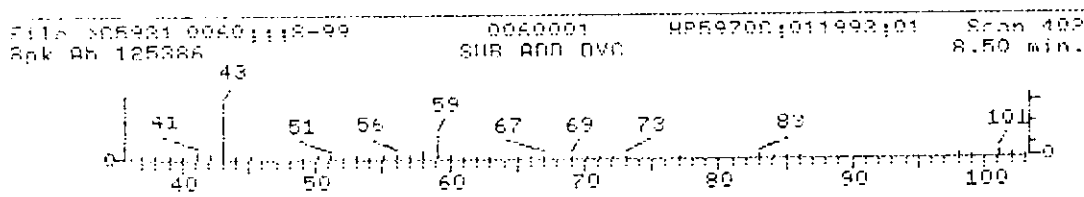
RPN error: -5

bad record length RSE

Sample file: >C5931 Spectrum #: 402

No data base entries were retrieved.

Peak#: 29 Area: 3821001. Est Conc: 13000. Date: 02/02/93 19:59 Inst: C



0212

RPN 0019

Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RSE63

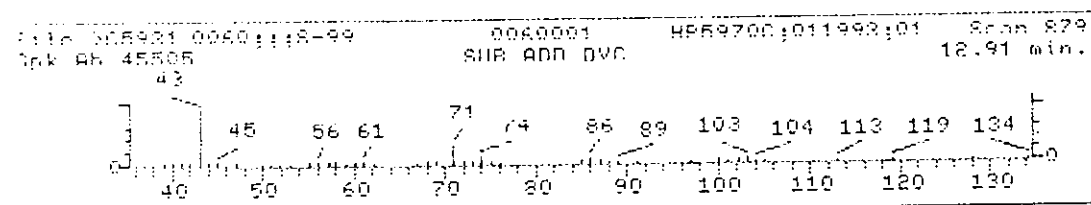
RPN error: -5

ad record length RSE

Sample file: >05931 Spectrum #: 879

No data base entries were retrieved.

Peak#: 73 Area: 790498. Est Conc: 2600. Date: 02/02/93 19:59 Inst: C



0213

Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RSH63

RPN error: -5

bad record length RSH

1. Acetic acid, 1-methylethyl ester (901)

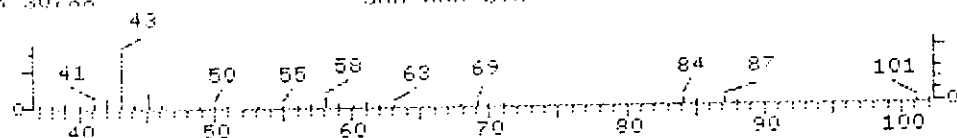
102 C5H10O2

Sample File: >C5931 Spectrum #: 338
Search speed: 3 Tilting option: S No. of ion ranges searched: 56

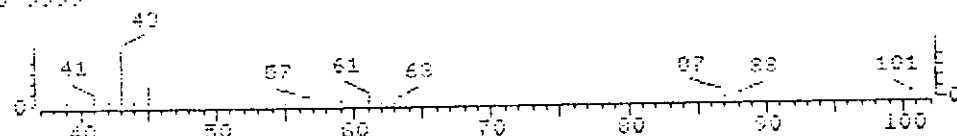
Prob.	CAS #	CON #	ROOT	K	OK	#FUS	TILT	%	CON	C	I	R	IO
1.	26	108214	2031	"BIGOR	41	38	1	0	98	42	8	14	

Peak#: 25 Area: 318893. Est Conc: 1100. Date: 02/02/93 19:59 Inst: C

File: C05931.D0A011S-99 00A0001 HP5970C;011993;01 Scan 338
Spk Ab 30788 SRR ADD DVC 7.91 min.



File: >B1000 Acetic acid, 1-methylethyl ester (901) Scan 2031
Spk Ab 0000 0.00 min.



0214

RPN 005

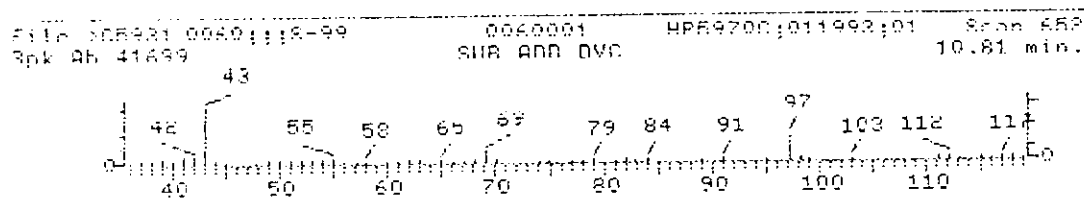
Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RSE63
RPN error: -5
bad record length RSE

Sample file: >05931 Spectrum #: 652

No data base entries were retrieved.

Peak#: 50 Area: 218513. Est Conc: 730. Date: 02/02/93 19:59 Inst: C



0 0215

RMF error For command: RSH63

F error: -5

led record length RSH

1. Butane (801901)
2. Acetic acid, 1-methylethyl ester (901)
3. 1,3-Dioxolane, 2-methyl- (801901)

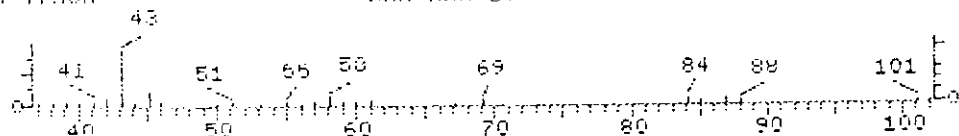
98 C4H10
102 C5H10O2
88 C4H8O2

Sample file: >C5931 Spectrum #: 323
Search speed: 3 Tilting option: S No. of ion ranges searched: 56

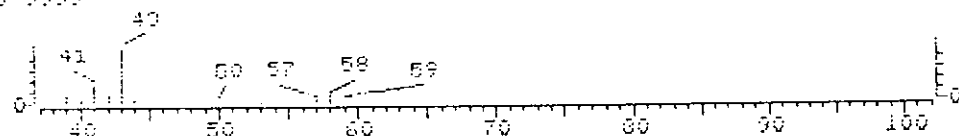
	Prob.	CAS #	CON #	ROOT	K	OK	#FIG	TILT	%	CON	C	I	R	IV
1.	30*	106928	1234	"RIGOR	23	56	2	0	86	33	12	13		
2.	26	108214	2031	"RIGOR	41	38	1	0	51	42	8	14		
3.	20*	492262	1335	"RIGOR	32	41	2	0	40	55	5	16		

Peak#: 24 Area: 212081. Est Conc: 730. Date: 02/02/93 19:59 Inst: C

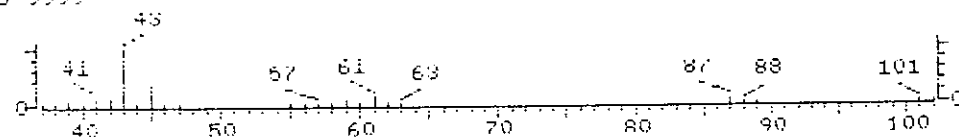
File >C5931 0060:118-99 0060001 HPS9700:011993:01 Scan 323
Spk Ab 17506 SRR ADD DVC 7.77 min.



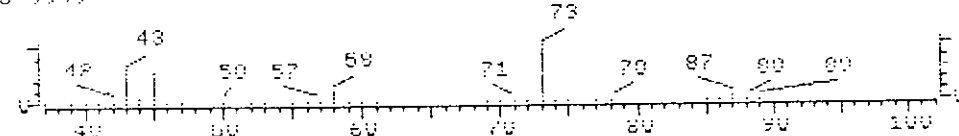
File >B1000 Butane (801901) Scan 1234
Spk Ab 0000 8.00 min.



File >B1008 Acetic acid, 1-methylethyl ester (901) Scan 2031
Spk Ab 9999 0.00 min.



File >B1008 1,3-Dioxolane, 2-methyl- (801901) Scan 1330
Spk Ab 9999 0.00 min.



and record length RSE

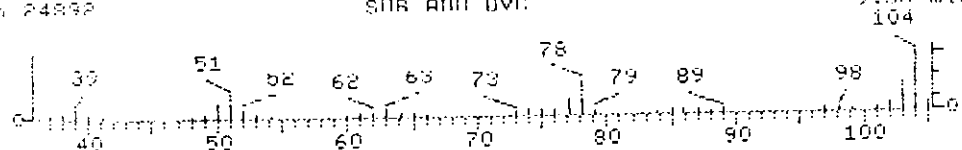
1. Bicyclo[4.2.0]octa-1,3,5-triene (8C19C1)	104 CRH8
2. 1,3,5,7-Cyclooctatetraene (8C19C1)	104 CRH8
3. Benzene, ethenyl- (9C1)	104 CRH8
4. 1,3,5,7-Octatrien-5-yne (8C1)	104 CRH8

Sample File: >C5931 Spectrum #: 519
 Search speed: 3 Tilting option: S No. of ion ranges searched: 55

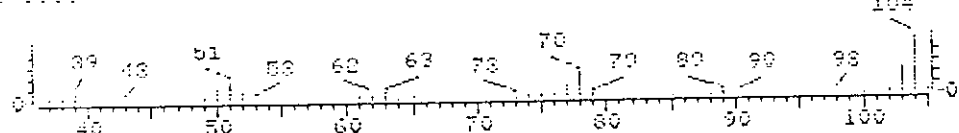
	Prob.	CAS #	CON #	RNNT	K	OK	#ELG	TILT	%	CON	C	R	IO
1.	84*	694871	9744	"B1G08	29	24	1	1	67	8	55	66	
2.	75*	629209	4815	"B1G08	86	33	2	0	53	17	35	66	
3.	75*	100425	9733	"B1G08	71	32	1	2	71	18	35	60	
4.	43*	16607725	4816	"B1G08	50	26	3	0	52	25	17	14	

Peak#: 40 Area: 189623. Est Conc: 630. Date: 02/02/93 19:59 Inst: C

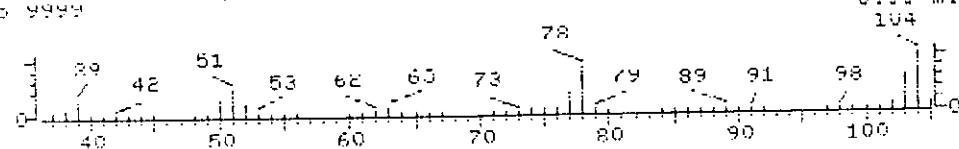
File >C5931 0050:::8-99 0060001 HPS4700:011993:01 Scan 519
 Bpk Ab 24892 SHR ANN DVC 9.58 min.



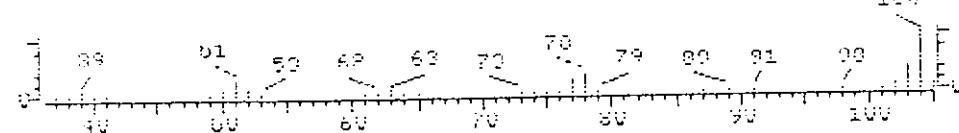
File >B1G08 Bicyclo[4.2.0]octa-1,3,5-triene (8C19C1) Scan 9744
 Bpk Ab 9999 0.00 min.



File >B1G08 1,3,5,7-Cyclooctatetraene (8C19C1) Scan 4815
 Bpk Ab 9999 0.00 min.



File >B1G08 Benzene, ethenyl- (9C1) Scan 9733
 Bpk Ab 9999 0.00 min.



0217

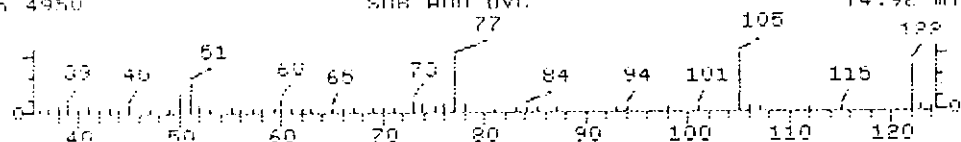
1. Benzoic acid, ammonium salt (801901)	139 C2H9NO2
2. Pyrido[1,2-a]azepine-6,7,8,9-tetracarboxylic acid, 1 II-(benzoyloxy)-6,7-dihydro-, tetramethyl ester (901)	497 C25H23NO10
3. Benzoic acid, silver(1+) salt (801901)	0
4. Benzoic acid (AUN)(801901)	122 C2H6O2

Sample file: >05931 Spectrum #: 1096
 Search speed: 3 Tilting option: S No. of ion ranges searched: 55

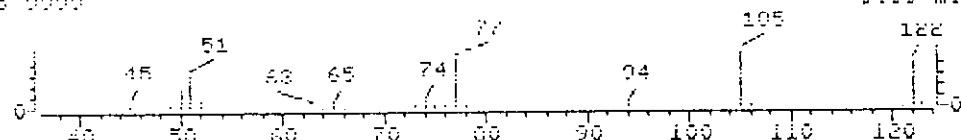
	Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C	I	R	UV
1.	93	1863634	12550	"81608	95	2	0	0	78	4	68	83		
2.	83	21127225	12560	"81608	61	23	2	0	99	5	57	21		
3.	28	532310	12539	"81608	72	38	2	2	100	4	55	17		
4.	74*	65850	12524	"81608	61	34	2	0	90	11	39	44		

Peak#: 93 Area: 197082. Est Conc: 540. Date: 02/02/93 19:59 Inst: C

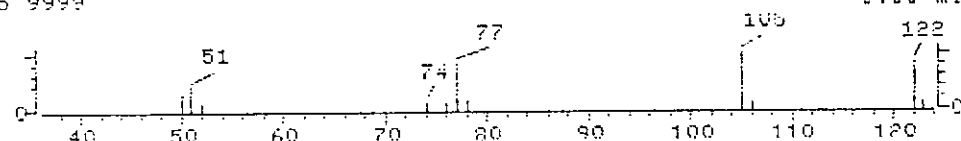
File >05931 0050;:8-99 0040001 HPL9700;011992;01 Scan 1096
 Rpk AB 4950 SHB ANN DVC 14.92 min.



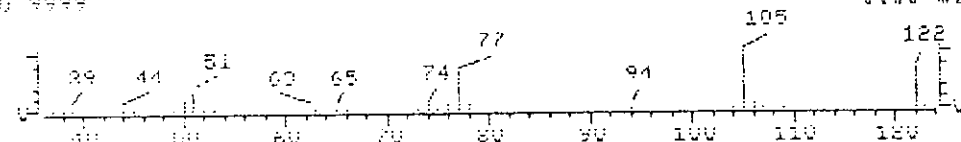
File >81608 Benzoic acid, ammonium salt (801901) Scan 12550
 Rpk AB 0000 0.00 min.



File >81608 Pyrido[1,2-a]azepine-6,7,8,9-tetracarboxylic acid Scan 12560
 Rpk AB 9999 0.00 min.



File >81608 Benzoic acid, silver(1+) salt (801901) Scan 12539
 Rpk AB 9999 0.00 min.



0218

Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error For command: RSE63

RPN error: -5

ad record length RSE

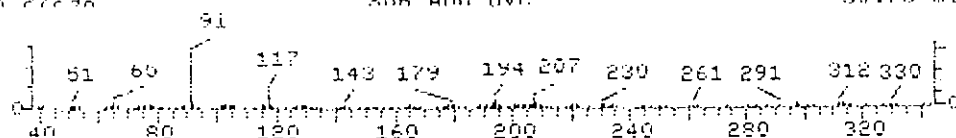
1. Benzene, 1,1'-(1-butene-1,4-diyl)bis-, (Z)- (9CI) 208 C16H16

Sample file: >C5931 Spectrum #: 2787
Search speed: 3 Tilting option: S No. of ion ranges searched: 78

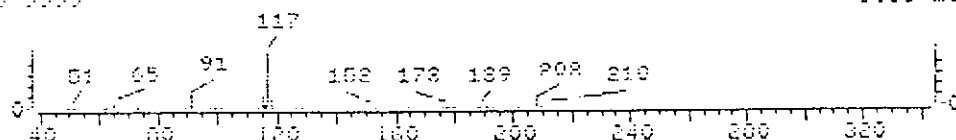
Prob.	CAS #	CON #	RNDT	K	OK	#FLG	TILT	%	CON	C	I	R	IO
1.	15*	20388652	11930	"RIGOR	28	34	1	0	24	60	3	15	

Peak#: 127 Area: 240638. Est Conc: 480. Date: 02/02/93 19:59 Inst: C

File >C5931 0050;1;R-99 0050001 HP59700;011992;01 Scan 2787
Spk AB 27298 SUB ADD DVC 30.76 min.



File >B1600 Benzene, 1,1'-(1-butene-1,4-diyl)bis-, (Z)- (9CI) Scan 11930
Spk AB 0000 0.00 min.



RPN=1115

Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RSE#3

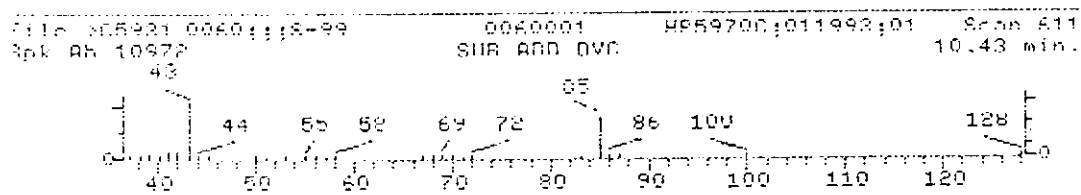
RPN error: -5

bad record length RSE

Sample file: >C5931 Spectrum #: 611

No data base entries were retrieved.

Peak#: 47 Area: 141137. Est Conc: 470. Date: 02/02/93 19:59 Inst: C



0 0220

RPN: 005

Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RSE63

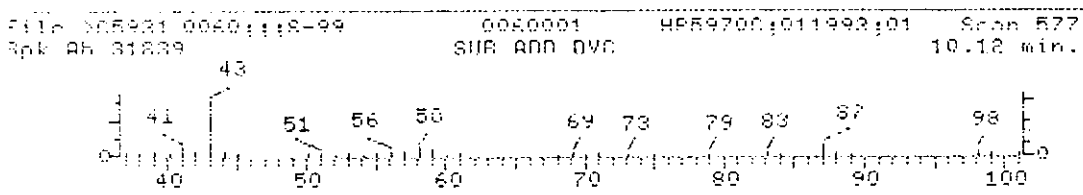
RPN error: -5

bad record length RSE

Sample file: >C5931 Spectrum #: 577

No data base entries were retrieved.

Peak#: 45 Area: 121767. Est Conc: 410. Date: 02/02/93 19:59 Inst: C



0 0221

lad record length RSE

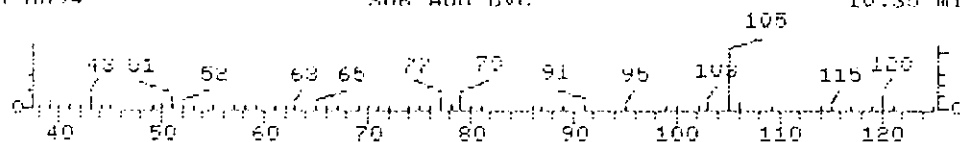
- | | |
|-------------------------------------|-----------|
| 1. Benzene, (1-methylethyl)- (901) | 120 C9H12 |
| 2. Benzene, 1-ethyl-3-methyl- (901) | 120 C9H12 |
| 3. Benzene, 1-ethyl-4-methyl- (901) | 120 C9H12 |
| 4. Benzene, 1-ethyl-2-methyl- (901) | 120 C9H12 |

Sample file: >05931 Spectrum #: 602
 Search speed: 3 Tilting option: S No. of ion ranges searched: /2

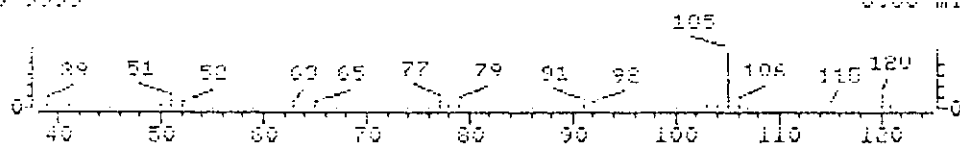
	Prob.	CAS #	CON #	ROOT	K	OK	#PLG	TILT	%	CON	C	I	R	IO
1.	89*	98828	12269	"RIGOR	81	6	1	2	87	6	62	80		
2.	46*	620144	12262	"RIGOR	35	52	2	0	71	21	17	17		
3.	44*	622968	12268	"RIGOR	30	55	2	0	79	21	17	15		
4.	44*	611143	12266	"RIGOR	30	55	2	0	76	21	17	15		

Peak#: 46 Area: 83624. Est Conc: 280. Date: 02/02/93 19:59 Inst: C

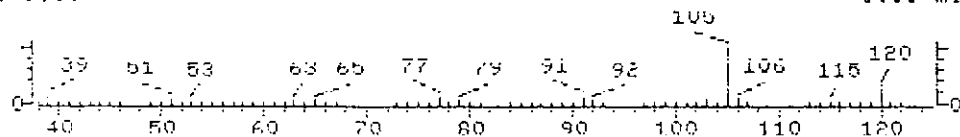
File >05931 0060;:;8-99 0000001 HPS9700;011992;01 Scan 602
 Spk AB 6894 SUB ADD DVC 10.35 min.



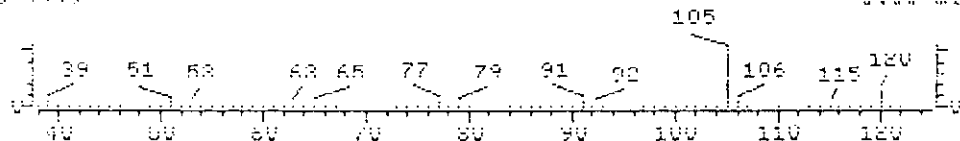
File >B1608 Benzene, (1-methylethyl)- (901) Scan 12259
 Spk AB 9999 0.00 min.



File >B1608 Benzene, 1-ethyl-3-methyl- (901) Scan 12267
 Spk AB 9999 0.00 min.



File >B1608 Benzene, 1-ethyl-4-methyl- (901) Scan 12268
 Spk AB 9999 0.00 min.



0222

ad record length RSH

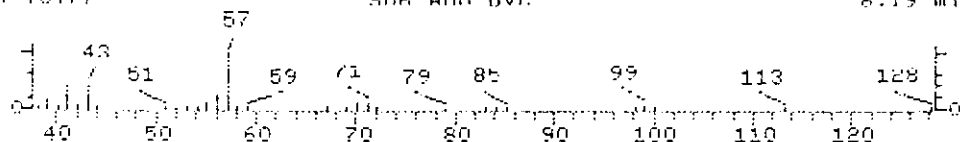
- | | |
|------------------------------------|-----------|
| 1. Heptane, 2,5-dimethyl- (8C19C1) | 128 C9H20 |
| 2. Heptane, 3,5-dimethyl- (8C19C1) | 128 C9H20 |
| 3. Octane, 3-methyl- (8C19C1) | 128 C9H20 |
| 4. Heptane, 3-ethyl- (8C19C1) | 128 C9H20 |

Sample File: >05931 Spectrum #: 369
 Search speed: 3 Tilting option: S No. of ion ranges searched: 60

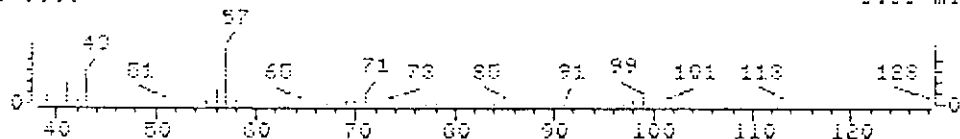
	Prob.	CAS #	CON #	RHIT	K	OK	#PLG	TILT	%	CON	C	I	R	IO
1.	95*	2216300	8730	"BIGDB	71	15	0	0	68	7	68	95		
2.	89*	926829	8724	"BIGDB	60	22	0	0	72	10	62	80		
3.	78	2216333	8731	"BIGDB	52	32	1	0	84	5	55	19		
4.	59*	15869804	8564	"BIGDB	49	39	2	0	68	23	27	30		

Peak#: 28 Area: 69822. Est Conc: 230. Date: 02/02/93 19:59 Inst: C

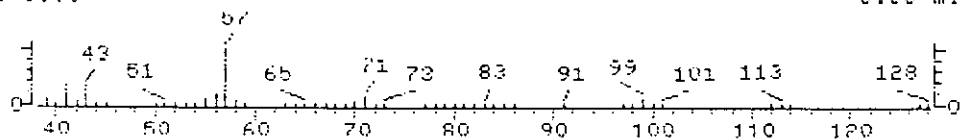
File >05931 0050;1;5-99 00400001 HP59700;011993;01 Scan 369
 Spk Ab 10122 SUR AND DVC 8.19 min.



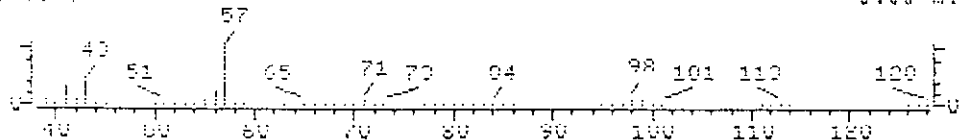
File >BIGDB Heptane, 2,5-dimethyl- (8C19C1) Scan 8730
 Spk Ab 0000 0.00 min.



File >BIGDB Heptane, 3,5-dimethyl- (8C19C1) Scan 8724
 Spk Ab 9999 0.00 min.



File >BIGDB Octane, 3-methyl- (8C19C1) Scan 8731
 Spk Ab 9999 0.00 min.



ad record length R58

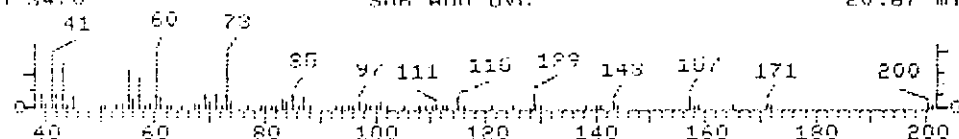
1. Dodecanamide, N,N-bis(2-hydroxyethyl)- (8C19C1)	282 C16H33NO3
2. Dodecanoic acid (9C1)	200 C12H24O2
3. Glycine, N-methyl-N-(1-oxododecyl)- (9C1)	271 C15H29NO3
4. Dodecanoic acid (8C19C1)	144 C8H16O2

Sample File: >E5931 Spectrum #: 1717
 Search speed: 3 Tilting option: S No. of ion ranges searched: 58

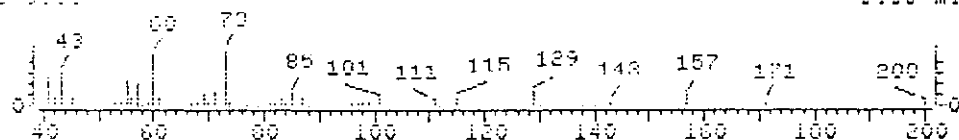
	Prob.	CAS #	CUN #	ROOT	K	OK	#FLG	TILT	%	CUN	C	I	R	IV
1.	96	120401	1984	"BIGDB	143	10	0	0	29	4	72	94		
2.	86	143022	1997	"BIGDB	101	37	2	0	81	4	60	36		
3.	83	97789	1972	"BIGDB	109	41	0	0	95	13	51	77		
4.	69*	124022	1907	"BIGDB	65	39	2	0	100	34	22	44		

Peak#: 148 Area: 108251. Est Conc: 220. Date: 02/02/93 19:59 Inst: C

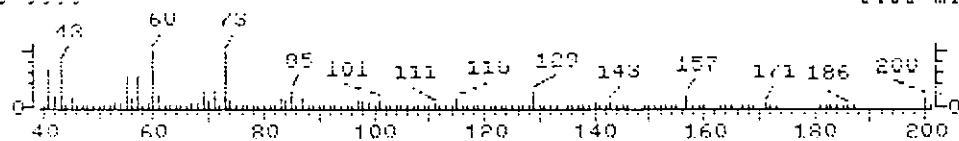
File >E5931 0080;118-99 0060001 HPR9700;011992;01 Scan 1717
 pk Ab 3470 SHR ADD DVC 20.67 min.



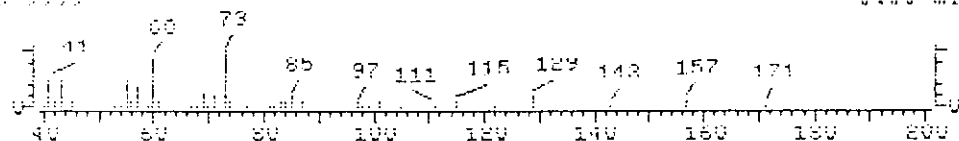
File >BIGDB Dodecanamide, N,N-bis(2-hydroxyethyl)- (8C19C1) Scan 1984
 pk Ab 9999 0.00 min.



File >BIGDB Dodecanoic acid (9C1) Scan 1997
 pk Ab 9999 0.00 min.



File >BIGDB Glycine, N-methyl-N-(1-oxododecyl)- (9C1) Scan 1972
 pk Ab 9999 0.00 min.



0224

RPL error for command: RSE63
 RPL error: -5
 ad record length RSE

1. Benzene, (3-nitropropyl)- (801901)
2. Benzene, 1-butylnyl- (901)

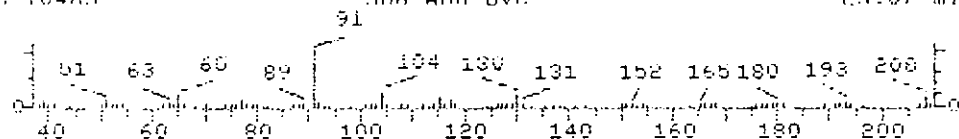
165 C9H11NO2
 130 C10H10

Sample file: >05931 Spectrum #: 1975
 Search speed: 3 Tilting option: S No. of ion ranges searched: 68

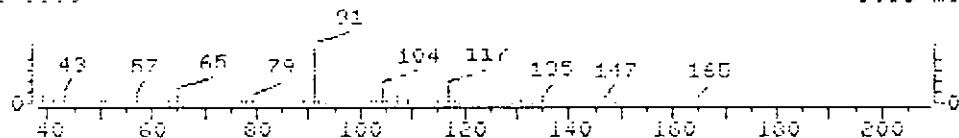
Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C	I	R	IO
1.	29*	22818695	11884	"BIGDB	22	23	3	0	100	32	12	12	
2.	26*	622264	13854	"BIGDB	38	36	2	1	14	40	10	12	

Peak#: 162 Area: 73599. Est Conc: 170. Date: 02/02/93 19:59 Inst: C

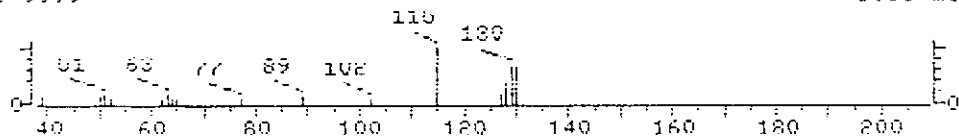
file >05931 00601118-99 0060001 HP69700;011993;01 Scan 1975
 pk Ab 10465 SWS ADD DVC 23.07 min.



file >BIGDB Benzene, (3-nitropropyl)- (801901) Scan 11884
 pk Ab 0000 0.00 min.



file >BIGDB Benzene, 1-butylnyl- (901) Scan 13854
 pk Ab 9999 0.00 min.



ad record length RSE

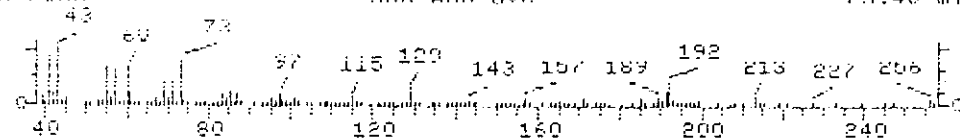
1. Hexadecanoic acid (901)	256 C16H32O2
2. Pentadecanoic acid (801901)	242 C15H30O2
3. Tetradecanoic acid (901)	228 C14H28O2
4. D-Glucose, 4-O-.beta.-D-galactopyranosyl- (901)	342 C12H22O11

Sample File: >D5931 Spectrum #: 2223
 Search speed: 3 Tilting option: S No. of ion ranges searched: 93

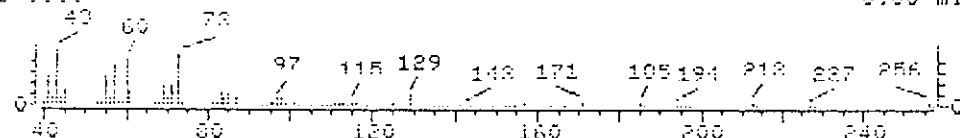
	Prob.	CAS #	CON #	RMT	K	OK	#HLG	TILT	%	CON	C	I	R	IO
1.	84*	57103	2008	"BIGDB	93	58	1	0	21	41	43	92		
2.	20	1882842	2002	"BIGDB	60	90	2	0	69	52	5	12		
3.	18	544638	2005	"BIGDB	88	58	2	0	69	56	4	25		
4.	18	63423	1954	"BIGDB	83	69	2	0	60	56	4	23		

Peak#: 169 Area: 60320. Fat Conc: 140. Date: 02/02/93 19:59 Inst: C

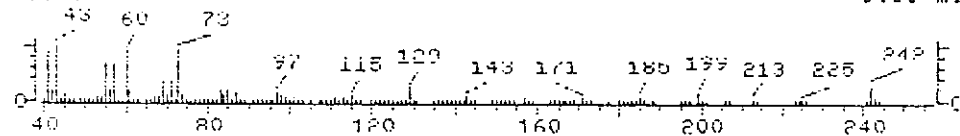
File >D5931 0040;:;S-99 0040001 HP59700;011993;01 Scan 2223
 Spk Ab 2083 SRR AND DVC 25.40 min.



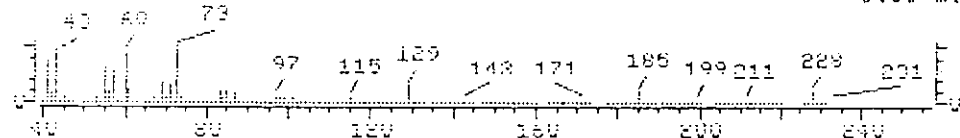
File >BIGDB Hexadecanoic acid (901) Scan 2006
 Spk Ab 0000 0.00 min.



File >BIGDB Pentadecanoic acid (801901) Scan 2007
 Spk Ab 9999 0.00 min.



File >BIGDB Tetradecanoic acid (901) Scan 2008
 Spk Ab 9999 0.00 min.



RPN error for command: RSH63

RPN error: -5

bad record length RSH

1. 2-Propanone, 1-hydroxy- (801901)
2. Furan, tetrahydro-2-methyl- (801901)

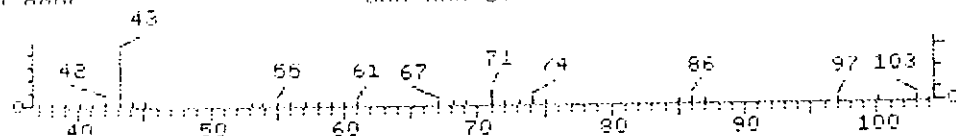
74 C3H6O2
86 C5H10O

Sample File: >105931 Spectrum #: 981
Search speed: 3 Tilting option: S No. of ion ranges searched: 63

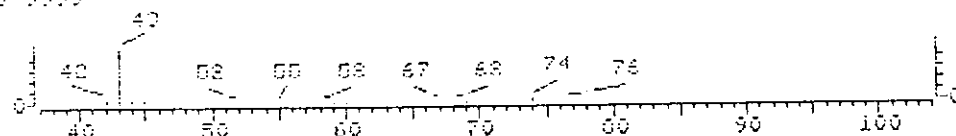
	Prob.	CAS #	CUN #	ROOT	K	DK	#ELG	TILT	%	CUN	C I R	IO
1.	36*	116096	134	"RIGDB	27	46	0	0	88	32	12	19
2.	11*	96429	3914	"RIGDB	20	54	2	0	23	64	2	13

Peak#: 84 Area: 51433. Est Conc: 140. Date: 02/02/93 19:59 Inst: C

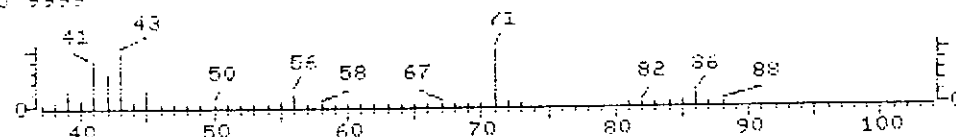
File >105931 00000001 HP59700;011993;01 Scan 981
Spk Ab 8862 SRR ADD DVC 13.86 min.



File >B1000 2-Propanone, 1-hydroxy- (801901) Scan 134
Spk Ab 0000 0.00 min.



File >B1000 Furan, tetrahydro-2-methyl- (801901) Scan 3914
Spk Ab 9999 0.00 min.



0227

led record length RRF

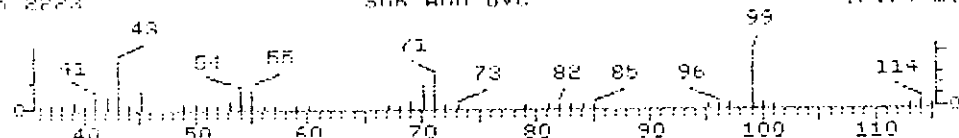
1. Isothiazole, 4-methyl- (801901)	99 C4H5NS
2. Thiazole, 4-methyl- (801901)	99 C4H5NS
3. 2-Piperidinone (901)	99 C6H9NO
4. Oxirane, 2-methyl-2-(2-methylpropyl)- (901)	114 C7H14O

Sample file: >05931 Spectrum #: 861
 Search speed: 3 Tilting option: S No. of ion ranges searched: 55

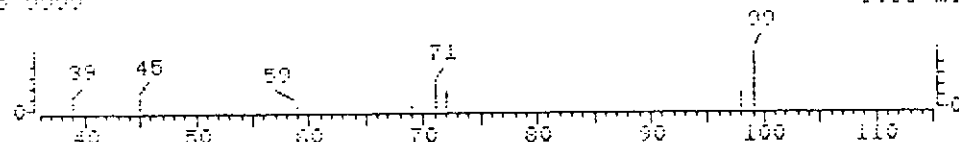
	Prob.	CAS #	CUN #	ROOT	K	DK	#PLG	TH T	%	CON	C	I	R	IV
1.	32*	693903	8221	"BIGDB	30	32	3	0	100	30	14	14		
2.	36*	693958	8290	"BIGDB	32	63	3	0	80	30	14	13		
3.	24*	675202	8265	"BIGDB	22	89	3	0	125	43	8	12		
4.	15*	63892312	8278	"BIGDB	22	75	3	0	100	56	3	13		

Peak#: 72 Area: 38480. Est Conc: 130. Date: 02/02/93 19:59 Inst: C

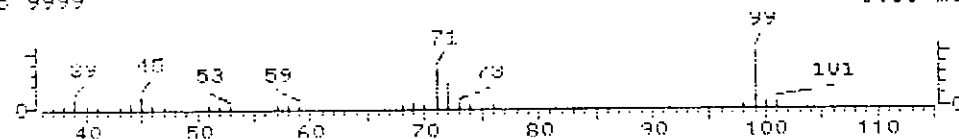
File >05931 006011;S-99 0060001 HP89700;011993;01 Scan 861
 Spk Ab 2223 SUR ADD DVC 12.74 min.



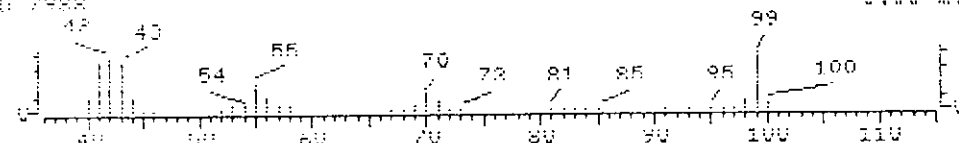
File >BIGDB Isothiazole, 4-methyl- (801901) Scan 8721
 Spk Ab 0000 0.00 min.



File >BIGDB Thiazole, 4-methyl- (801901) Scan 8790
 Spk Ab 9999 0.00 min.



File >BIGDB 2-Piperidinone (901) Scan 8786
 Spk Ab 7888 0.00 min.



0228

RPN: 1115

Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RSE63

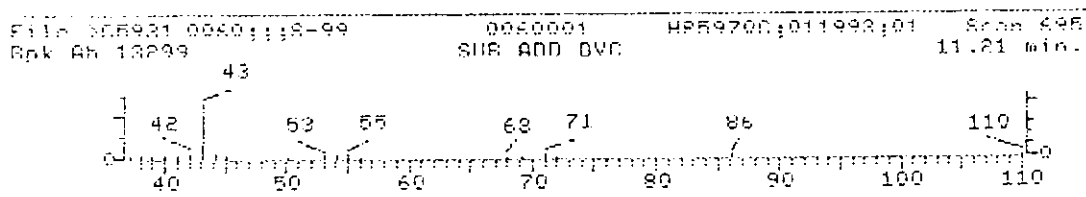
RPN error: -5

bad record length RSE

Sample file: >C5931 Spectrum #: 695

No data base entries were retrieved.

Peak#: 56 Area: 34824. Est Conc: 120. Date: 02/02/93 19:59 Inst: C



Ad. record length RSE

1. Cyclopropane, 1,1,2,2-tetramethyl- (8C19C1)
2. 2-Pentene, 4,4-dimethyl- (8C19C1)
3. Furan, 2,5-dihydro-2,5-dimethyl- (9C1)
4. 2-Pentene, 4,4-dimethyl-, (Z)- (8C19C1)

98 C2H14
 98 C2H14
 98 C6H10O
 98 C2H14

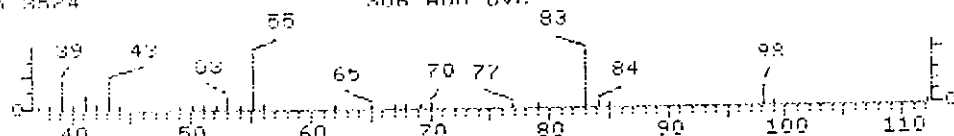
--

Sample File: >D5931 Spectrum #: 269
 Search speed: 13 Tilting option: S No. of ion ranges searched: 56

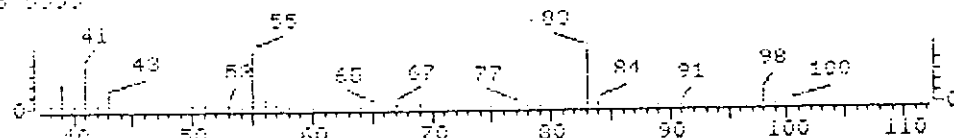
	Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C	I	R	IO
1.	26*	4127473	5593	"BIGDB	52	45	2	0	99	9	45	28		
2.	45*	26232984	5599	"BIGDB	44	46	2	0	99	29	19	23		
3.	43*	59242272	8591	"BIGDB	31	74	2	0	70	21	17	14		
4.	40*	262630	5590	"BIGDB	44	48	2	0	100	33	16	23		

Peak#: 19 Area: 36758. Est Conc: 120. Date: 02/02/93 19:59 Inst: C

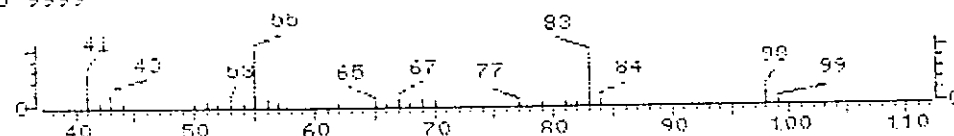
File >D5931 00501118-99 0060001 HP59700;011992;01 Scan 269
 Spk Ab 3524 SUB ADD DVC 7.27 min.



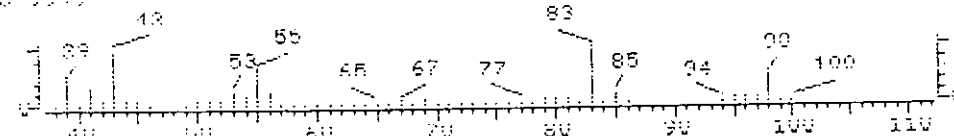
File >BIGDB Cyclopropane, 1,1,2,2-tetramethyl- (8C19C1) Scan 5593
 Spk Ab 9999 0.00 min.



File >BIGDB 2-Pentene, 4,4-dimethyl- (8C19C1) Scan 5599
 Spk Ab 9999 0.00 min.



File >BIGDB Furan, 2,5-dihydro-2,5-dimethyl- (9C1) Scan 8591
 Spk Ab 9999 0.00 min.



0 0230

lad. speed length RSH

1. Benzaldehyde (ACN)(DOT)(8C19C1)
2. Ethanone, 1-phenyl- (9C1)
3. 1,2-Propanedione, 1-phenyl- (8C19C1)
4. 2,4,6-Cycloheptatrien-1-one (8C19C1)

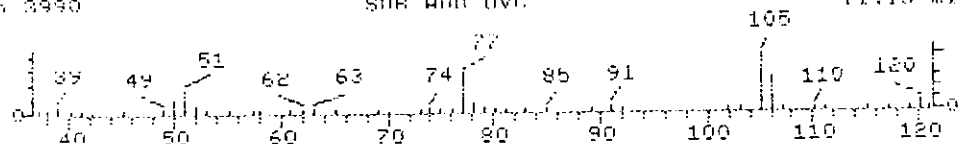
106 C2H6O
120 C8H8O
148 C9H8O2
106 C2H6O

Sample File: >05931 Spectrum #: 682
Search speed: 3 Tilting option: S No. of ion ranges searched: 52

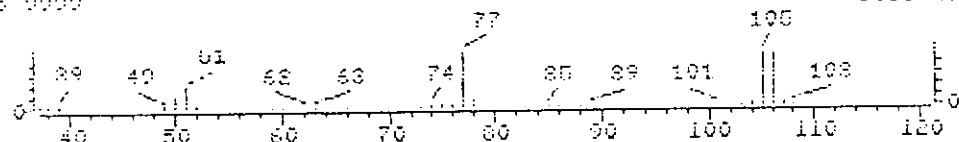
	Prob.	CAS #	CON #	ROOT	K	OK	#HLS	TILT	%	CON	C	I	R	IV
1.	63*	100527	9916	"RIGDB	60	40	2	2	55	20	30	33		
2.	66*	98862	477	"RIGDB	64	39	0	2	29	46	14	66		
3.	43	579077	4785	"RIGDB	37	48	1	0	89	25	17	14		
4.	32*	5398111	4819	"RIGDB	62	40	2	0	74	52	9	40		

Peak#: 55 Area: 34829. Est Conc: 120. Date: 02/02/93 19:59 Inst: C

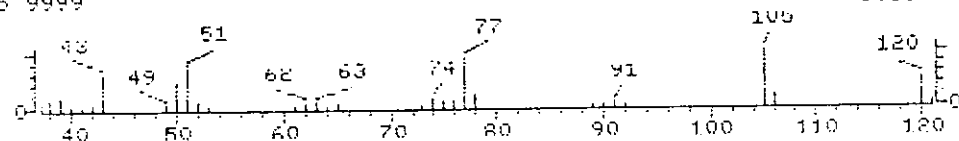
File >05931 00601118-99 0060001 HPR9700:011992:01 Scan 682
Spk Ab 9990 SHR AND DVC 11.13 min.



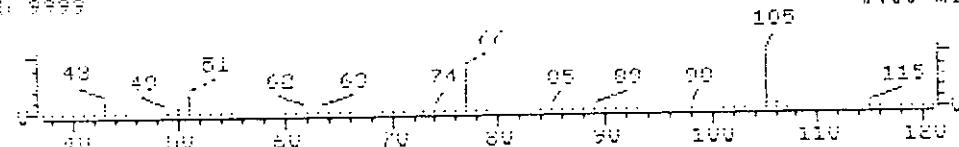
File >06100 Benzaldehyde (ACN)(DOT)(8C19C1) Scan 9916
Spk Ab 9999 0.00 min.



File >06100 Ethanone, 1-phenyl- (9C1) Scan 477
Spk Ab 9999 0.00 min.



File >06100 1,2-Propanedione, 1-phenyl- (8C19C1) Scan 4780
Spk Ab 9999 0.00 min.



0 0231

had record length RSP

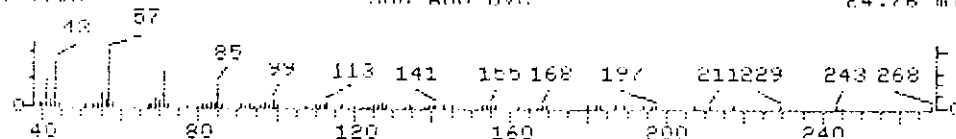
1. Hexadecane (801901)	226 C16H34
2. Tridecane, 7-hexyl- (801901)	268 C19H40
3. Heptadecane, 2,6,10,15-tetramethyl- (901)	296 C21H44
4. Pentadecane, 8-hexyl- (801)	296 C21H44

Sample File: >05931 Spectrum #: 2155
 Search speed: 3 Tilting option: S No. of ion ranges searched: 75

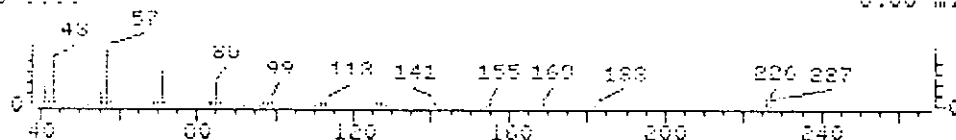
Peak#	Prob.	CAS #	CON #	RMT	K	OK	#FLG	TILT	%	CON	C	I	R	IV
1.	83	544263	6146	"RIGOR	80	40	2	0	83	4	57	21		
2.	81*	2225663	21884	"RIGOR	86	44	3	1	75	8	53	44		
3.	28	54833486	6161	"RIGOR	82	51	3	0	80	4	55	15		
4.	28	13425252	24006	"RIGOR	24	63	3	0	28	4	55	13		

Peak#: 168 Area: 43081. Est Conc: 100. Date: 02/02/93 19:59 Inst: C

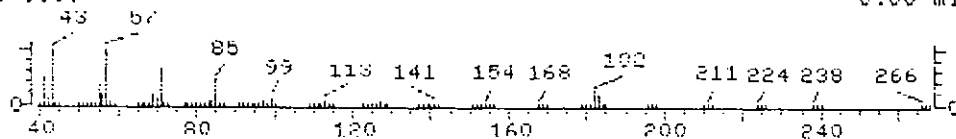
File >05931 0060118-99 0060001 HPS9700;011992;01 Scan 2155
 Spk Ab 4106 SUB R00 DVC 24.76 min.



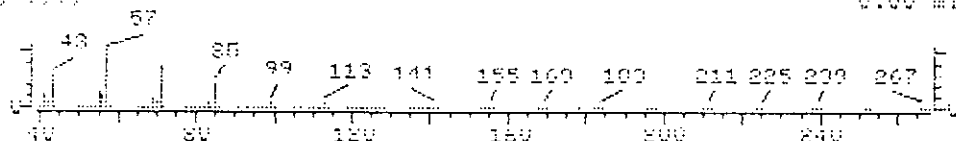
File >81608 Hexadecane (801901) Scan 6146
 Spk Ab 0000 0.00 min.



File >81608 Tridecane, 7-hexyl- (801901) Scan 21884
 Spk Ab 9999 0.00 min.



File >81608 Heptadecane, 2,6,10,15-tetramethyl- (901) Scan 6161
 Spk Ab 9999 0.00 min.



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0232

S-100

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix: (soil/water) SOIL

Lab Sample ID: 0060002

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: C5920.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL)

Date Analyzed: 02/01/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl) ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	85	J
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	81	J
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	910	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	910	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	910	U
83-32-9	Acenaphthene	74	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0233

S-100

Lab Name: IEA/CT

Contract:

Lab Code: IEA/CT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix: (soil/water) SOIL

Lab Sample ID: 0060002

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: C5920.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL)

Date Analyzed: 02/01/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

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

51-28-5-----	2,4-Dinitrophenol	910	U
100-02-7-----	4-Nitrophenol	910	U
132-64-9-----	Dibenzofuran	70	J
121-14-2-----	2,4-Dinitrotoluene	380	U
84-66-2-----	Diethylphthalate	380	U
7005-72-3-----	4-Chlorophenyl-phenylether	380	U
86-73-7-----	Fluorene	110	J
100-01-6-----	4-Nitroaniline	910	U
534-52-1-----	4,6-Dinitro-2-methylphenol	910	U
86-30-6-----	N-Nitrosodiphenylamine (1)	380	U
101-55-3-----	4-Bromophenyl-phenylether	380	U
118-74-1-----	Hexachlorobenzene	380	U
87-86-5-----	Pentachlorophenol	910	U
85-01-8-----	Phenanthrene	1000	
120-12-7-----	Anthracene	460	
86-74-8-----	Carbazole	480	
84-74-2-----	Di-n-butylphthalate	160	JB
206-44-0-----	Fluoranthene	1700	
129-00-0-----	Pyrene	380	U
85-68-7-----	Butylbenzylphthalate	380	JB U
91-94-1-----	3,3'-Dichlorobenzidine	380	U
56-55-3-----	Benzo(a) anthracene	1100	
218-01-9-----	Chrysene	380	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	1600	B
117-84-0-----	Di-n-octylphthalate	380	U
205-99-2-----	Benzo(b) fluoranthene	1000	
207-08-9-----	Benzo(k) fluoranthene	940	
50-32-8-----	Benzo(a) pyrene	1200	
193-39-5-----	Indeno(1,2,3-cd)pyrene	280	J
53-70-3-----	Dibenz(a,h)anthracene	51	J
191-24-2-----	Benzo(g,h,i)perylene	150	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0234 EPA SAMPLE NO.

S-100

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 70060 SAS No.:

SDG No.: Z0060

Matrix: (soil/water) SOIL

cmc212193

Lab Sample ID: 0060002

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: C5920.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 01/20/93

Concentrated Extract Volume: 500(uL)

Date Analyzed: 02/01/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

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

Number TICs found: 21

cmc211193

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATION PRODUCT	8.48	14000	JAB
2.	UNKNOWN	12.90	3100	J
3.		10.44	2600	
4.		7.76	1400	B
5.		10.80	850	
6.		10.11	500	B
7.		11.20	2100	
8.	UNKNOWN ALKANE	8.18	240	
9.	UNKNOWN	7.25	170	
10.		12.73	110	✓
11.		9.07	110	✓
12.	UNKNOWN	13.84	110	J
13.		16.42	100	✓
14.		20.15	100	target
15.	UNKNOWN	20.68	100	J
16.		17.55	99	
17.	UNKNOWN ALKANE	19.88	99	
18.		12.58	96	
19.		22.52	91	
20.		13.09	69	
21.		21.20	68	
22.	UNKNOWN	8.60	85	
23.	UNKNOWN ALKANE	12.32	84	✓
24.				
25.				
26.				
27.				
28.				
29.				
30.				

0235

QUANT REPORT

Operator ID: MSC Quant Rev: 6 Quant Time: 930201 21:43
 Output File: ^C5920::QT Injected at: 930201 20:48
 Data File: >C5920::C5 Dilution Factor: 18.94000
 Name: 0060;;;S-100
 Misc: 0060002 HP5970C;011993;012093;LLS;1.0;;;7.4;C0952 BTL# 8

ID File: I_EPA::N1
 Title: CLP-OLM01.8 BNA COMPOUNDS
 Last Calibration: 930201 13:46

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.17	151.8	27910	40.00	ug	96
2)	Pyridine	5.83	52.0	9109	207.54	ug	94
3)	2-Chlorophenol-d4	11.70	132.0	68475	1457.85	ug	95
4)	2-Fluorophenol	9.21	111.8	70628	1720.93	ug	87
5)	Phenol-d5	11.43	98.8	110733	1865.69	ug	79
11)	1,2-Dichlorobenzene-d4	12.64	152.0	35641	1069.08	ug	97
18)	*Naphthalene-d8	15.41	135.9	110865	40.00	ug	97
19)	Nitrobenzene-d5	13.63	81.8	68903	1113.44	ug	93
23)	2,4-Dimethylphenol	14.61	186.8	356	6.46	ug	86
27)	Naphthalene	15.46	127.9	11613	85.50	ug	86
31)	2-Methylnaphthalene	17.26	141.9	8334	80.67	ug	96
3)	*Acenaphthene-d10	20.07	163.9	69230	40.00	ug	92
36)	2-Fluorobiphenyl	18.29	171.8	143890	1298.39	ug	97
40)	Acenaphthylene	19.65	152.0	56737	384.81	ug	95
43)	Acenaphthene	20.15	152.9	8279	73.96	ug	85
45)	4-Nitrophenol	20.26	108.8	92	5.83	ug	33
46)	Dibenzofuran	20.56	167.8	10435	70.22	ug	98
47)	2,4-Dinitrotoluene	20.84	164.0	280	5.82	ug	44
48)	Diethylphthalate	21.32	148.8	2600	17.89	ug	97
50)	Fluorene	21.48	165.9	11130	106.77	ug	83
52)	2,4,6-Tribromophenol	22.18	329.6	76967	2208.70	ug	99
53)	*Phenanthrene-d10	23.97	187.9	131794	40.00	ug	97
55)	N-Nitrosodiphenylamine (1)	21.80	160.9	561	9.42	ug	49
58)	Pentachlorophenol	23.65	265.6	485	12.31	ug	79
59)	Phenanthrene	24.04	177.9	181450	1027.80	ug	96
60)	Carbazole	24.57	166.8	25025	478.86	ug	95
61)	Anthracene	24.14	177.9	82006	462.64	ug	99
62)	Di-n-butylphthalate	25.63	148.8	39332	157.96	ug	98
63)	Fluoranthene	27.24	201.9	314459	1661.87	ug	99
64)	*Chrysene-d12	31.40	240.0	103107	40.00	ug	91
65)	Pyrene	27.93	201.9	1848	9.50	ug	85
66)	Terphenyl-d14	28.25	244.0	199828	1335.91	ug	99
67)	Butylbenzylphthalate	29.61	148.8	23067	211.95	ug	76
68)	3,3'-Dichlorobenzidine	30.96	251.9	2374	96.48	ug	71
69)	Benzo(a)anthracene	31.33	228.0	183014	1094.38	ug	99
70)	Chrysene	31.40	228.0	119006	831.11	ug	93
7)	bis(2-Ethylhexyl)phthalate	31.52	148.8	224099	1554.67	ug	94
7)	*Perylene-d12	38.24	264.0	49587	40.00	ug	91
72)	Di-n-octylphthalate	34.15	148.9	2558	21.79	ug	78
74)	Benzo(b)fluoranthene	36.04	252.0	79891	1022.46	ug	95
74)	Benzo(b)fluoranthene	36.07	252.0	78350	980.35	ug	85
75)	Benzo(k)fluoranthene	36.04	252.0	79891	1072.41	ug	95

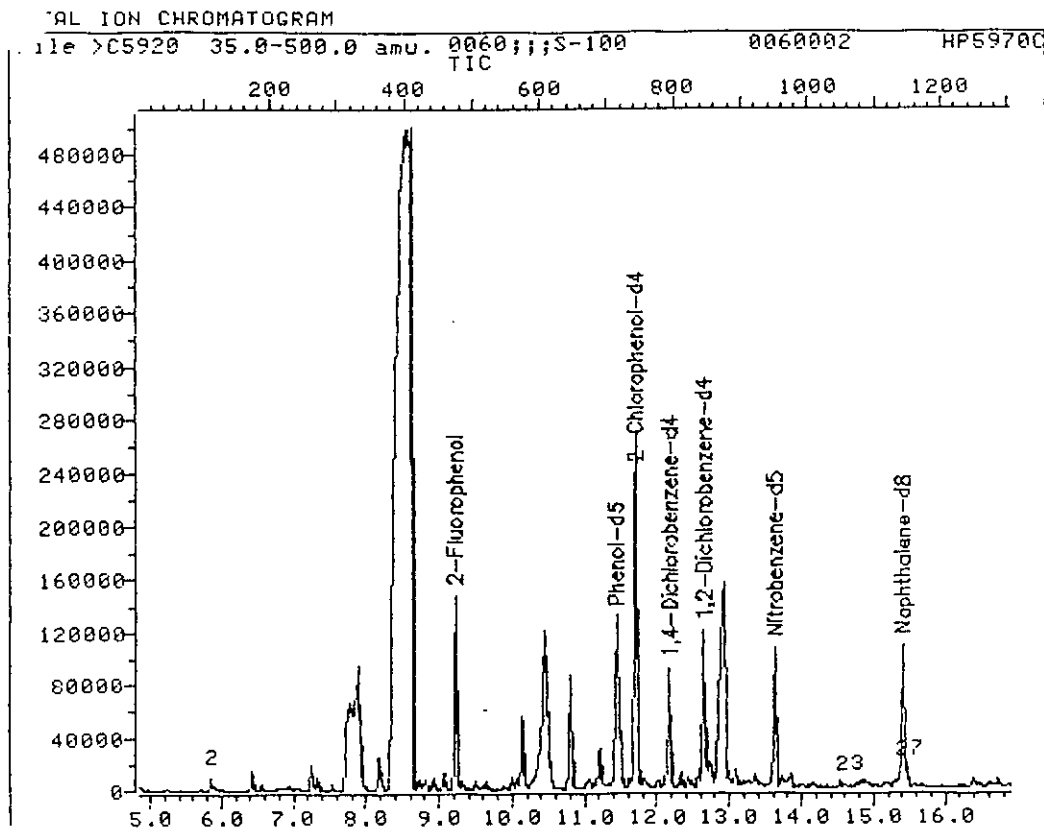
0236

	Compound	R.T.	Q ion	Area	Conc	Units	q
✓6)	Benzo(a)pyrene	37.91	252.0	81748	1238.97	ug	93
✓7)	Indeno(1,2,3-cd)pyrene	46.59	276.0	14915	275.12	ug	96
✓8)	Dibenz(a,h)anthracene	46.77	278.0	2818	50.74	ug	94
✓9)	Benzo(g,h,i)perylene	49.03	276.0	8255^	147.61	ug	78

* Compound is ISTD

Cmc 2/9/02

0237



Data File: >C5920::C5

Quant Output File: ^C5920::QT

Name: 0060;;;S-100

Misc: 0060002

HP5970C;011993;012093;LLS;1.0;;;7.4;C0952 BTL# 8

Id File: I_EPA::N1

Title: CLP-OLM01.8 BNA COMPOUNDS

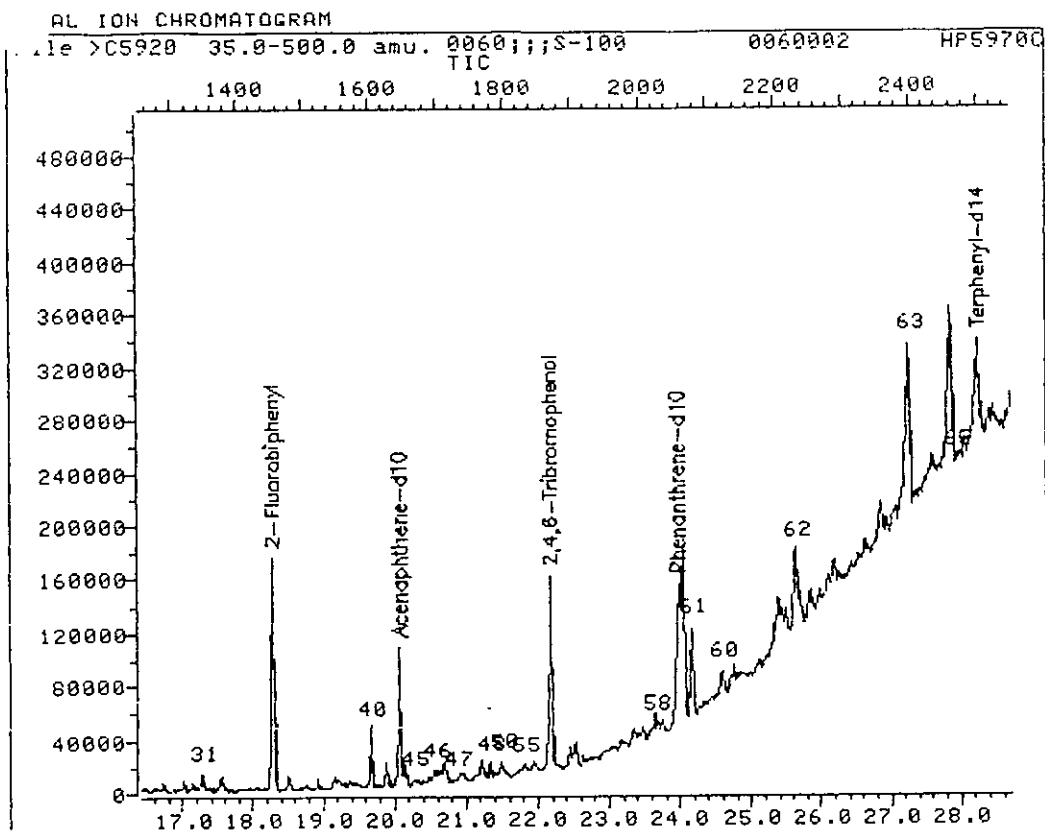
Last Calibration: 930201 13:46

Operator ID: MSC

Quant Time: 930201 21:43

Injected at: 930201 20:48

TIC page 1 of 4



Data File: >C5920::C5

Quant Output File: ^C5920::QT

Name: 0060;;;S-100

Misc: 0060002

HP5970C;011993;012093;LLS;1.0;;;7.4;C0952 BTL# 8

Id File: I_EPA::N1

Title: CLP-OLM01.8 BNA COMPOUNDS

Last Calibration: 930201 13:46

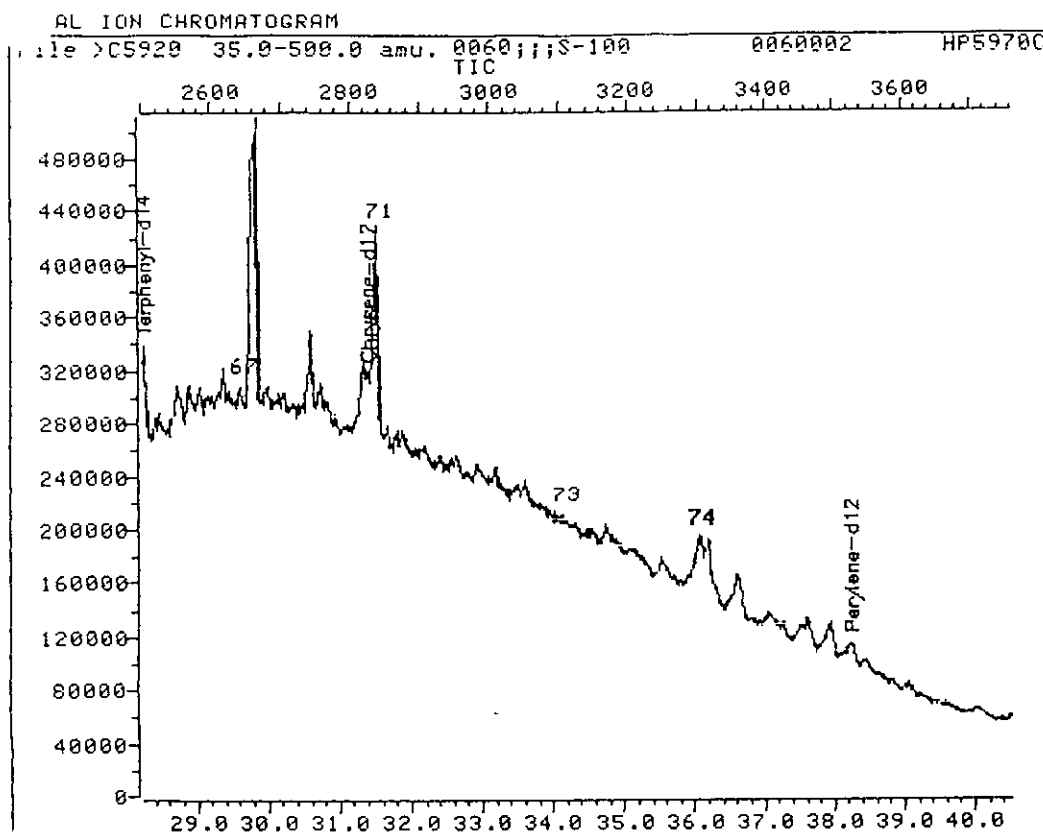
Operator ID: MSC

Quant Time: 930201 21:43

Injected at: 930201 20:48

TIC page 2 of 4

0239



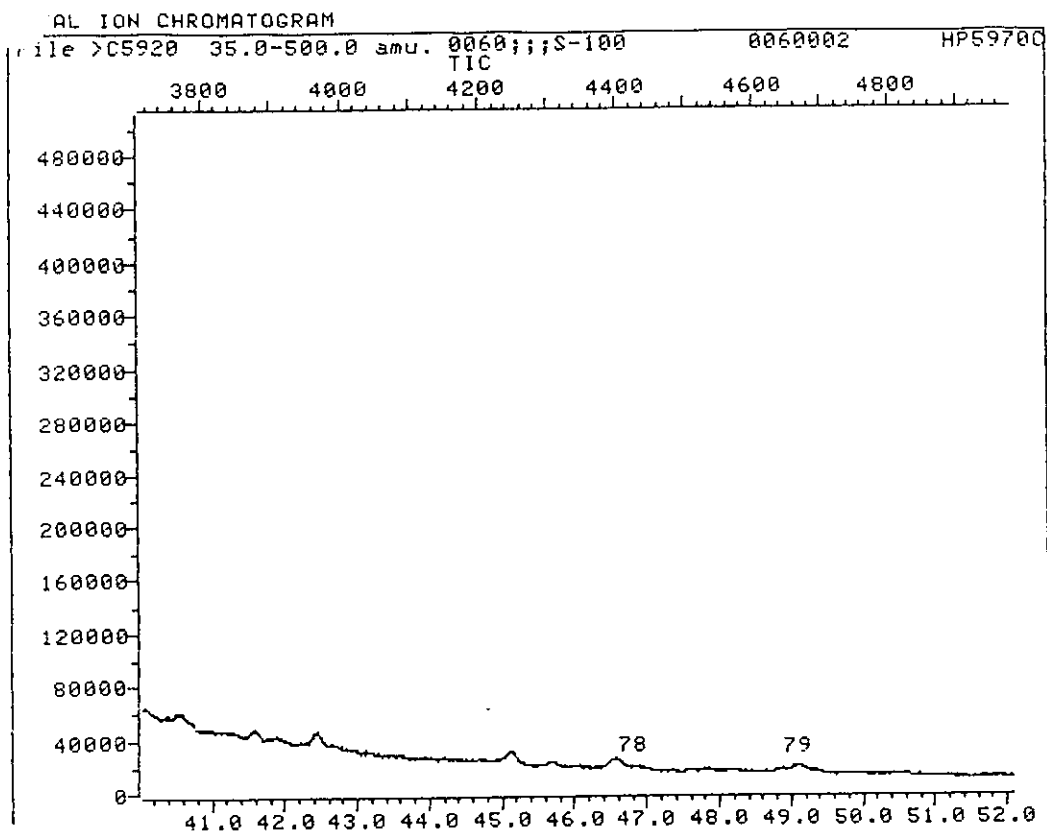
Data File: >C5920::C5 Quant Output File: ^C5920::QT
 Name: 0060;;;S-100
 Misc: 0060002 HP5970C;011993;012093;LLS;1.0;;;7.4;C0952 BTL# 8

Id File: I_EPA::N1
 Title: CLP-OLM01.8 BNA COMPOUNDS
 Last Calibration: 930201 13:46

Operator ID: MSC
 Quant Time: 930201 21:43
 Injected at: 930201 20:48

TIC page 3 of 4

0 0240



Data File: >C5920::C5

Quant Output File: ^C5920::QT

Name: 0060;;;S-100

Misc: 0060002

HP5970C;011993;012093;LLS;1.0;;;7.4;C0952 BTL# 8

Id File: I_EPA::N1

Title: CLP-OLM01.8 BNA COMPOUNDS

Last Calibration: 930201 13:46

Operator ID: MSC

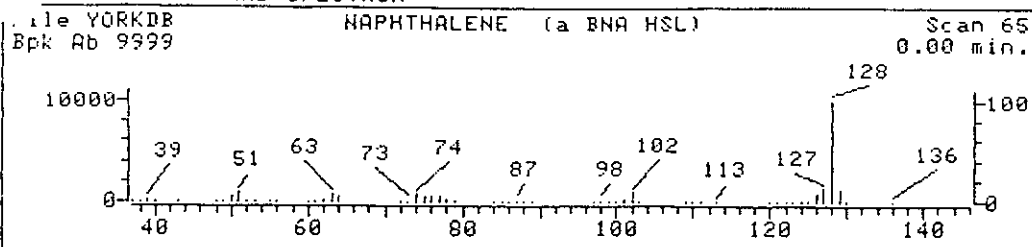
Quant Time: 930201 21:43

Injected at: 930201 20:48

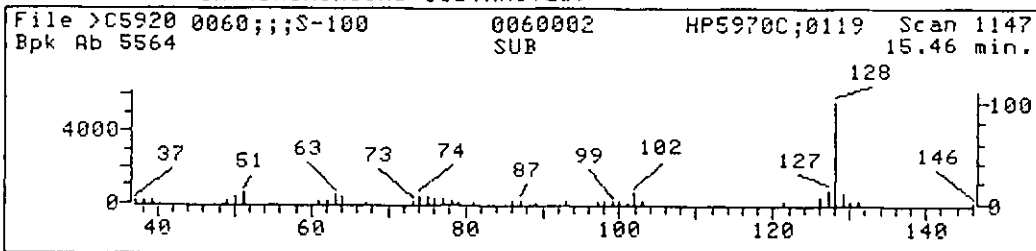
TIC page 4 of 4

0241

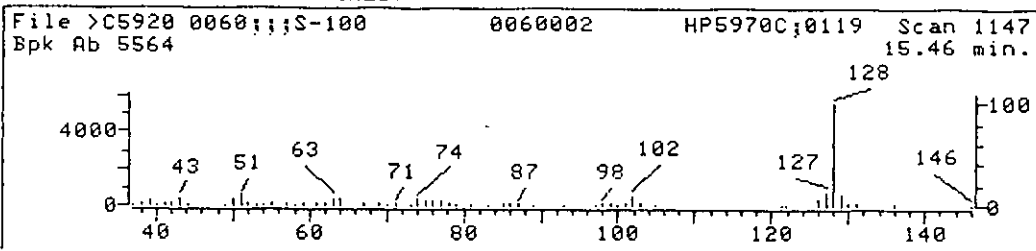
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5920::C5

Quant Output File: ^C5920::QT

Name: 0060;;;S-100

Misc: 0060002 HP5970C;011993;012093;LLS;1.0;;;7.4;C0952 BTL# 8

Quant Time: 930201 21:43

Quant ID File: I_EPA::N1

Injected at: 930201 20:48

Last Calibration: 930201 13:46

Compound No: 27

Compound Name: Naphthalene

Scan Number: 1147

Retention Time: 15.46 min.

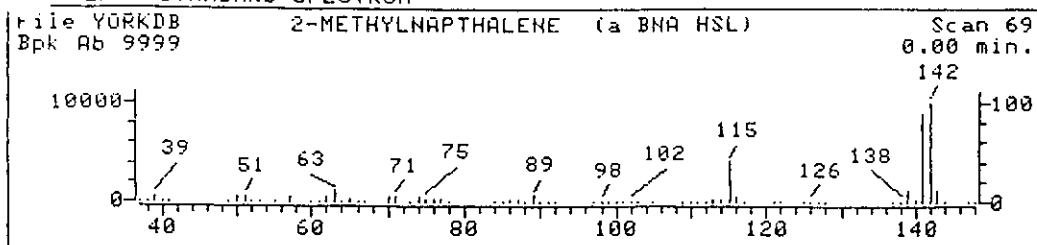
Quant Ion: 127.9

Area: 11613

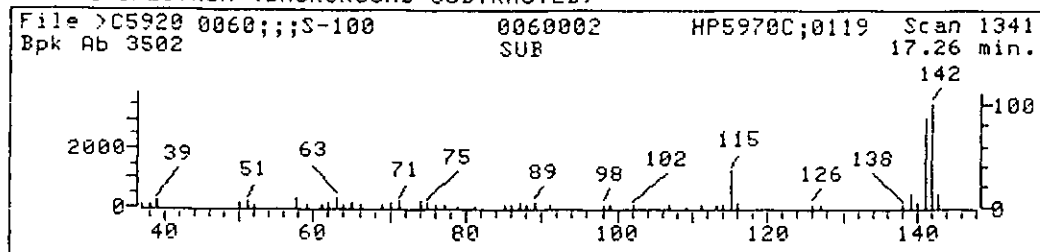
Concentration: 85.50 ug

q-value: 86

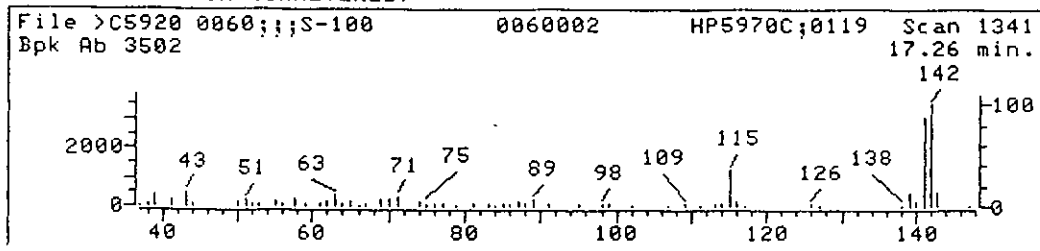
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

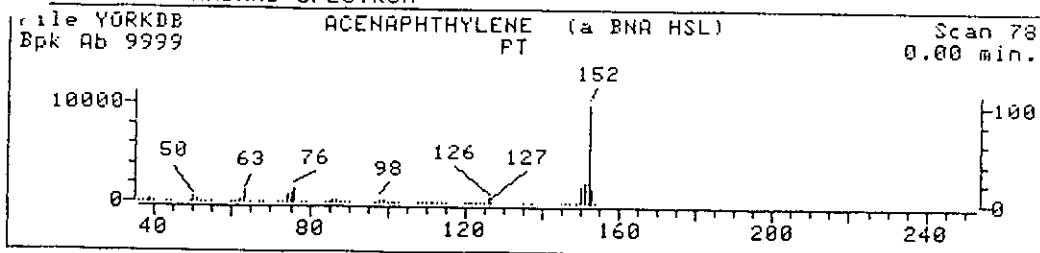


Data File: >C5920::C5 Quant Output File: ^C5920::QT
Name: 0060;;;S-100
Misc: 0060002 HP5970C;011993;012093;LLS;1.0;;;7.4;C0952 BTL# 8
Quant Time: 930201 21:43 Quant ID File: I_EPA::N1
Injected at: 930201 20:48 Last Calibration: 930201 13:46

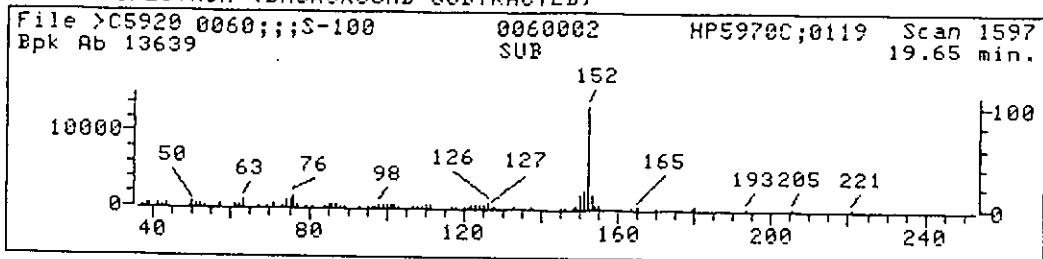
Compound No: 31
Compound Name: 2-Methylnaphthalene
Scan Number: 1341
Retention Time: 17.26 min.
Quant Ion: 141.9
Area: 8334
Concentration: 80.67 ug
q-value: 96

0243

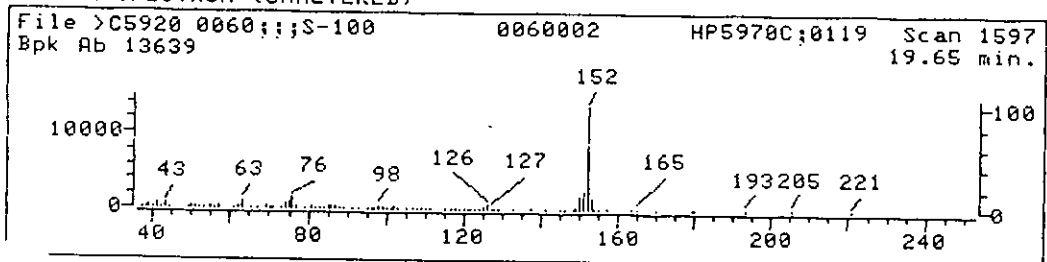
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5920::C5

Quant Output File: ^C5920::QT

Name: 0060;;;S-100

Misc: 0060002

HP5970C;011993;012093;LLS;1.0;;;7.4;C0952 BTL# 8

Quant Time: 930201 21:43

Quant ID File: I_EPA::N1

Injected at: 930201 20:48

Last Calibration: 930201 13:46

Compound No: 40

Compound Name: Acenaphthylene

Scan Number: 1598

Retention Time: 19.65 min.

Quant Ion: 152.0

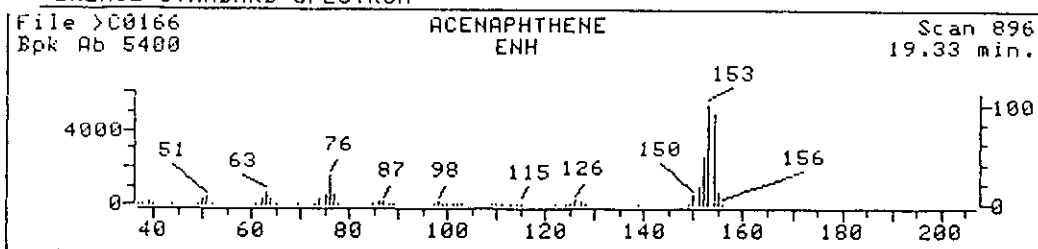
Area: 56737

Concentration: 384.81 ug

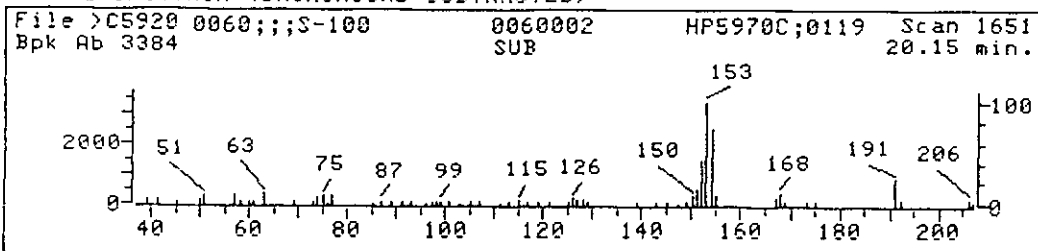
q-value: 95

0244

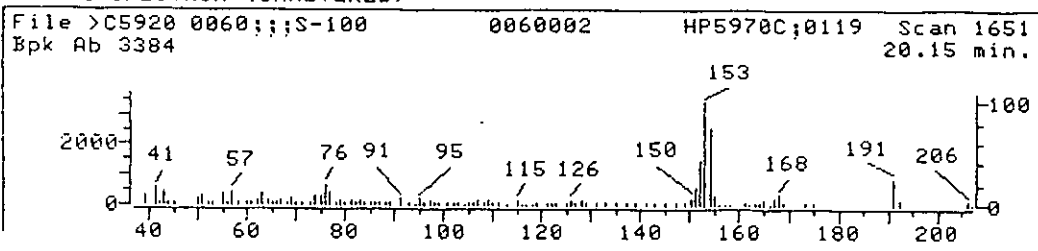
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5920::C5

Quant Output File: ^C5920::QT

Name: 0060;;;S-100

Misc: 0060002

HP5970C;011993;012093;LLS;1.0;;7.4;C0952 BTL# 8

Quant Time: 930201 21:43

Quant ID File: I_EPA::N1

Injected at: 930201 20:48

Last Calibration: 930201 13:46

Compound No: 43

Compound Name: Acenaphthene

Scan Number: 1651

Retention Time: 20.15 min.

Quant Ion: 152.9

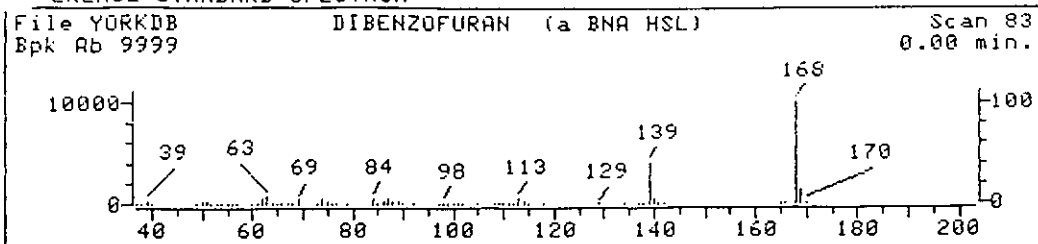
Area: 8279

Concentration: 73.96 ug

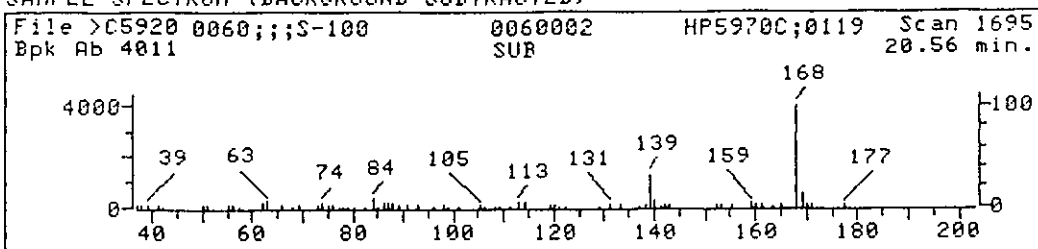
q-value: 85

0245

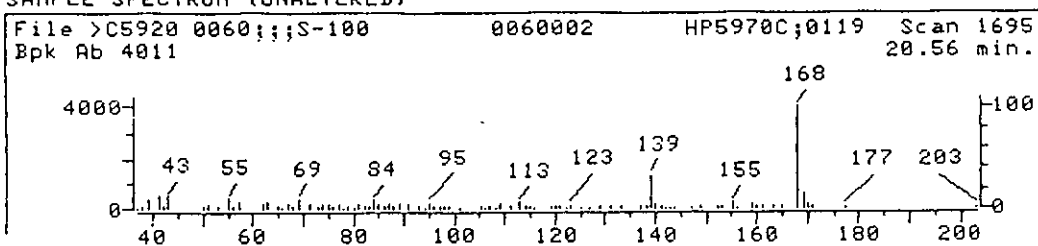
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



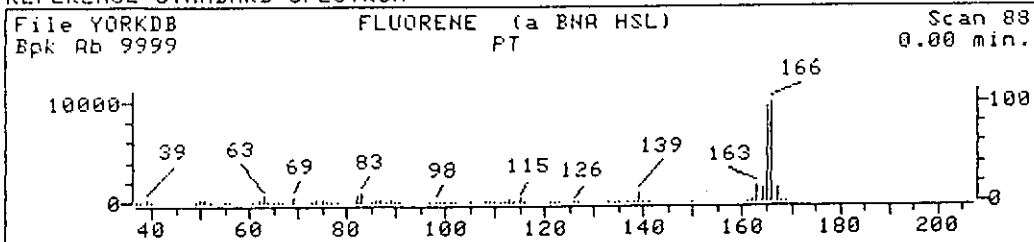
SAMPLE SPECTRUM (UNALTERED)



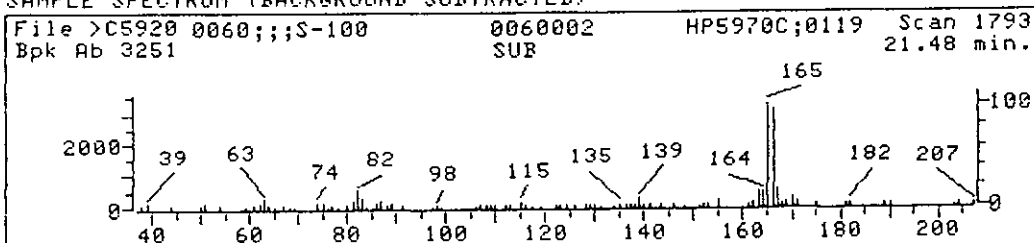
Data File: >C5920::C5 Quant Output File: ^C5920::QT
Name: 0060;;;S-100
Misc: 0060002 HP5970C;011993;012093;LLS;1.0;;7.4;C0952 BTL# 8
Quant Time: 930201 21:43 Quant ID File: I_EPA::N1
Injected at: 930201 20:48 Last Calibration: 930201 13:46

Compound No: 46
Compound Name: Dibenzofuran
Scan Number: 1695
Retention Time: 20.56 min.
Quant Ion: 167.8
Area: 10435
Concentration: 70.22 ug
q-value: 98

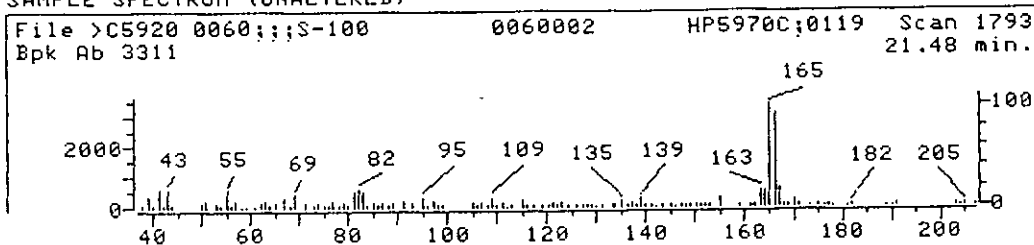
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

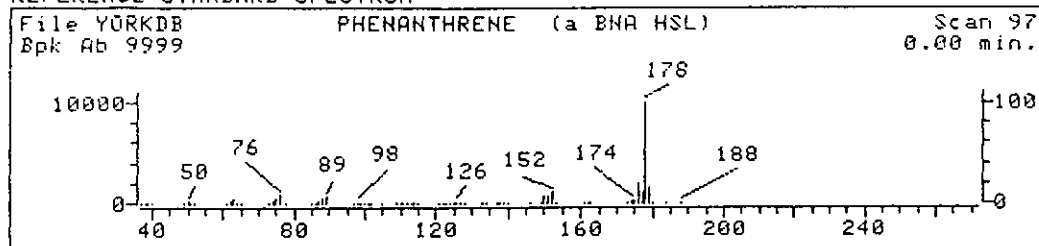


Data File: >C5920::C5 Quant Output File: ^C5920::QT
Name: 0060;;;S-100
Misc: 0060002 HP5970C;011993;012093;LLS;1.0;;7.4;C0952 BTL# 8
Quant Time: 930201 21:43 Quant ID File: I_EPA::N1
Injected at: 930201 20:48 Last Calibration: 930201 13:46

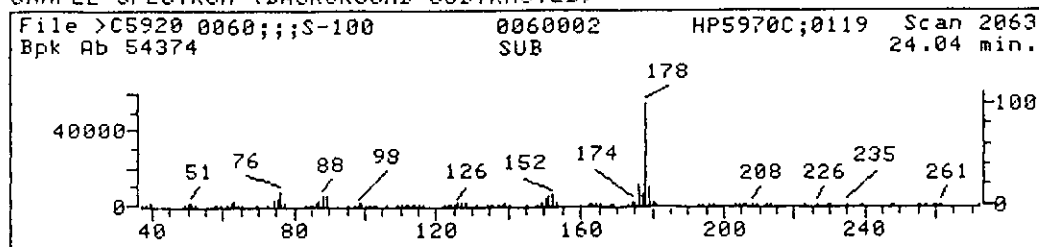
Compound No: 50
Compound Name: Fluorene
Scan Number: 1793
Retention Time: 21.48 min.
Quant Ion: 165.9
Area: 11130
Concentration: 106.77 ug
q-value: 83

0 0247

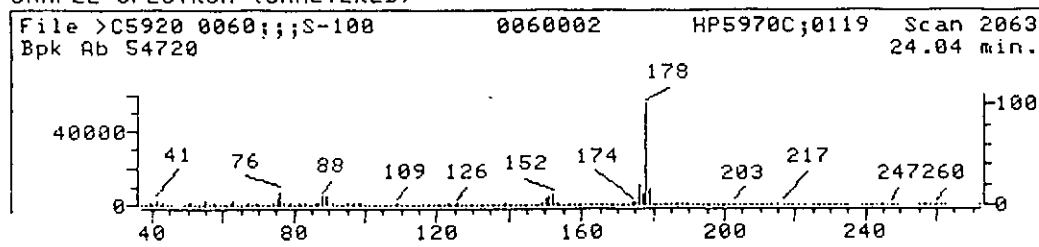
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

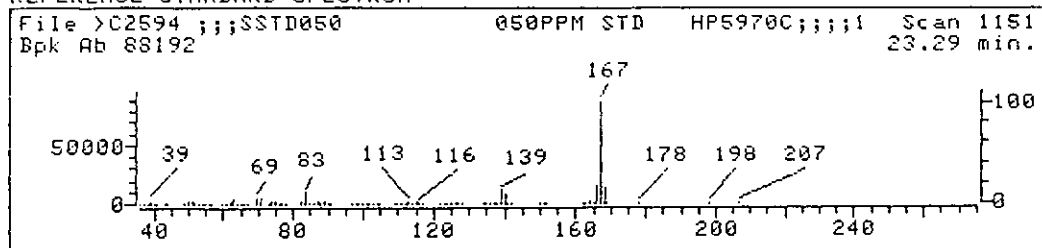


Data File: >C5920::C5 Quant Output File: ^C5920::QT
Name: 0060;;;S-100
Misc: 0060002 HP5970C;011993;012093;LLS;1.0;;7.4;C0952 BTL# 8
Quant Time: 930201 21:43 Quant ID File: I_EPA::N1
Injected at: 930201 20:48 Last Calibration: 930201 13:46

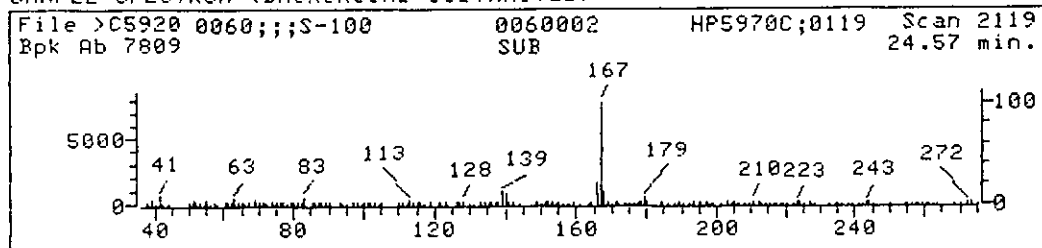
Compound No: 59
Compound Name: Phenanthrene
Scan Number: 2063
Retention Time: 24.04 min.
Quant Ion: 177.9
Area: 181450
Concentration: 1027.80 ug
q-value: 96

01 0248

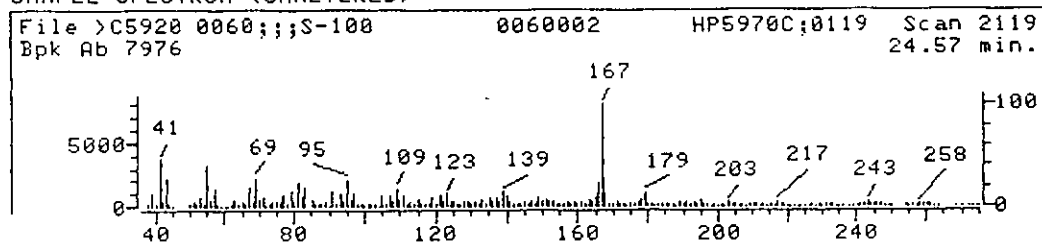
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



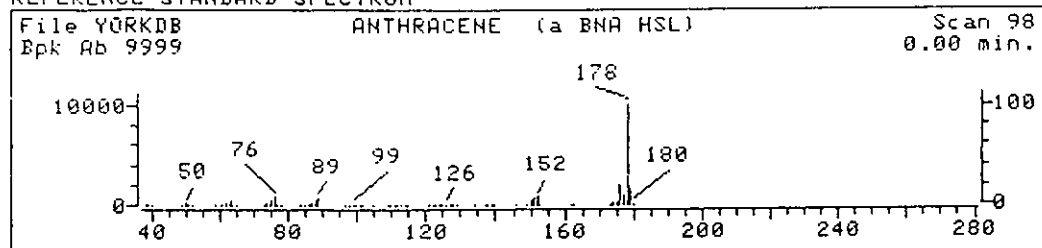
SAMPLE SPECTRUM (UNALTERED)



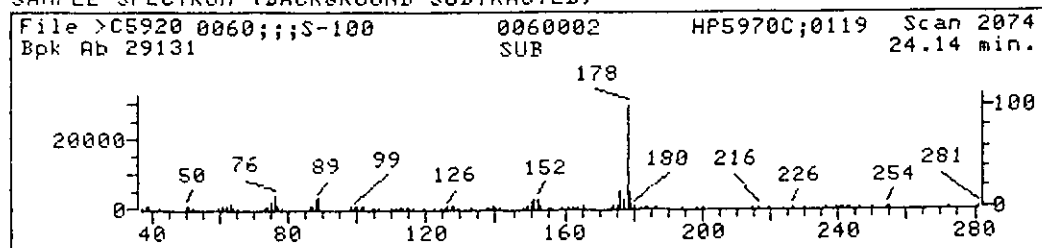
Data File: >C5920::C5 Quant Output File: ^C5920::QT
Name: 0060;;;S-100
Misc: 0060002 HP5970C;011993;012093;LLS;1.0;;7.4;C0952 BTL# 8
Quant Time: 930201 21:43 Quant ID File: I_EPA::N1
Injected at: 930201 20:48 Last Calibration: 930201 13:46

Compound No: 60
Compound Name: Carbazole
Scan Number: 2119
Retention Time: 24.57 min.
Quant Ion: 166.8
Area: 25025
Concentration: 478.86 ug
q-value: 95

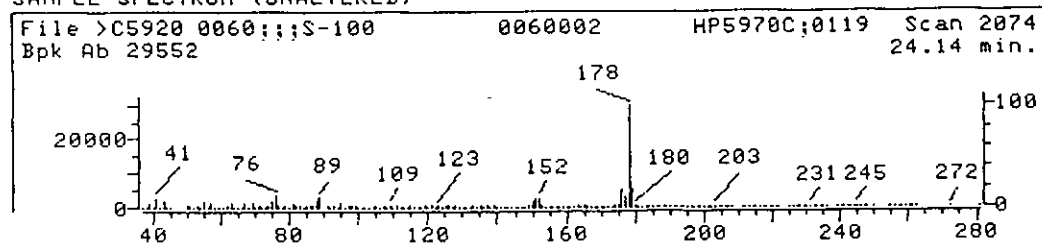
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

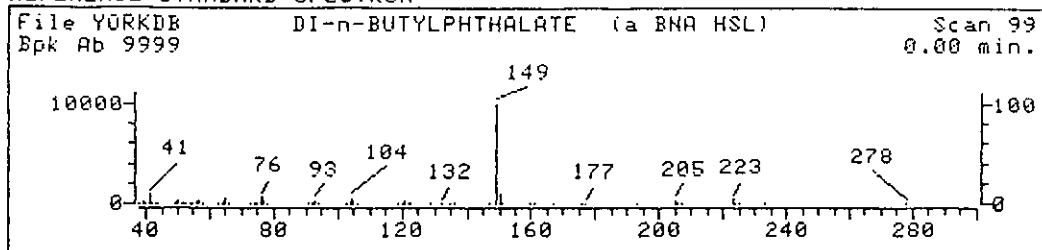


Data File: >C5920::C5 Quant Output File: ^C5920::QT
Name: 0060;;;S-100
Misc: 0060002 HP5970C;011993;012093;LLS;1.0;;;7.4;C0952 BTL# 8
Quant Time: 930201 21:43 Quant ID File: I_EPA::N1
Injected at: 930201 20:48 Last Calibration: 930201 13:46

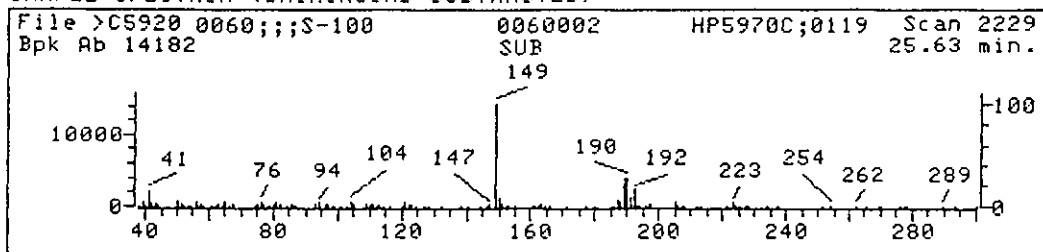
Compound No: 61
Compound Name: Anthracene
Scan Number: 2074
Retention Time: 24.14 min.
Quant Ion: 177.9
Area: 82006
Concentration: 462.64 ug
q-value: 99

0250

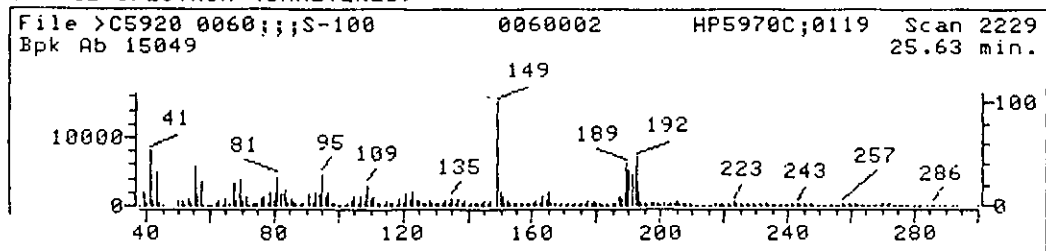
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

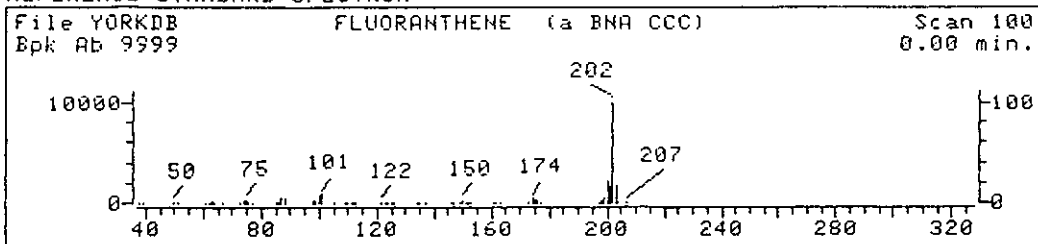


Data File: >C5920::C5 Quant Output File: ^C5920::QT
Name: 0060;;;S-100
Misc: 0060002 HP5970C;011993;012093;LLS;1.0;;;7.4;C0952 BTL# 8
Quant Time: 930201 21:43 Quant ID File: I_EPA::N1
Injected at: 930201 20:48 Last Calibration: 930201 13:46

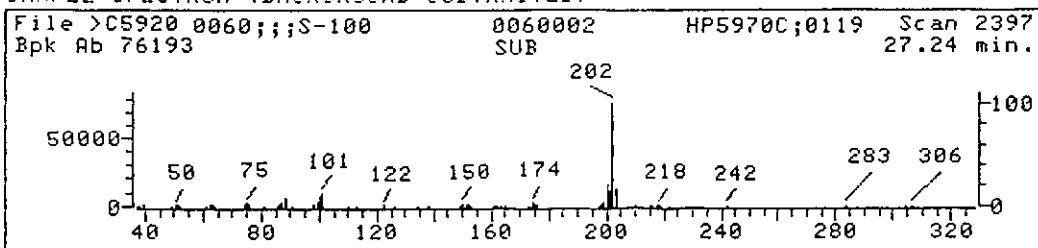
Compound No: 62
Compound Name: Di-n-butylphthalate
Scan Number: 2229
Retention Time: 25.63 min.
Quant Ion: 148.8
Area: 39332
Concentration: 157.96 ug
q-value: 98

0251

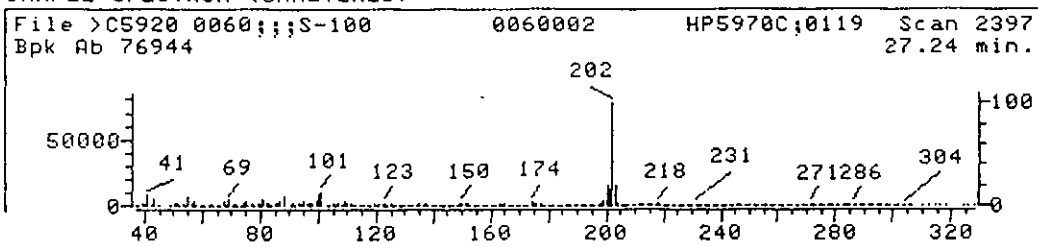
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

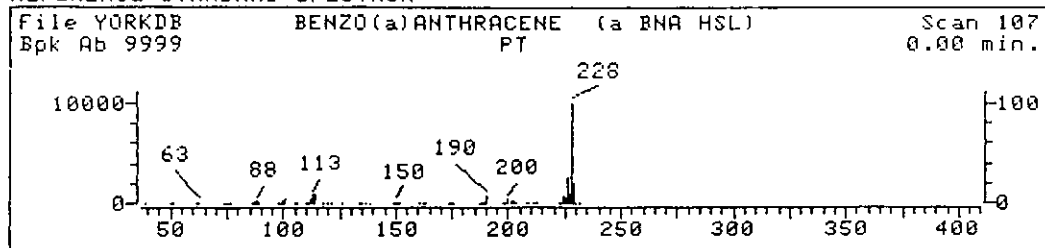


Data File: >C5920::C5 Quant Output File: ^C5920::QT
Name: 0060;;;S-100
Misc: 0060002 HP5970C;011993;012093;LLS;1.0;;7.4;C0952 BTL# 8
Quant Time: 930201 21:43 Quant ID File: I_EPA::N1
Injected at: 930201 20:48 Last Calibration: 930201 13:46

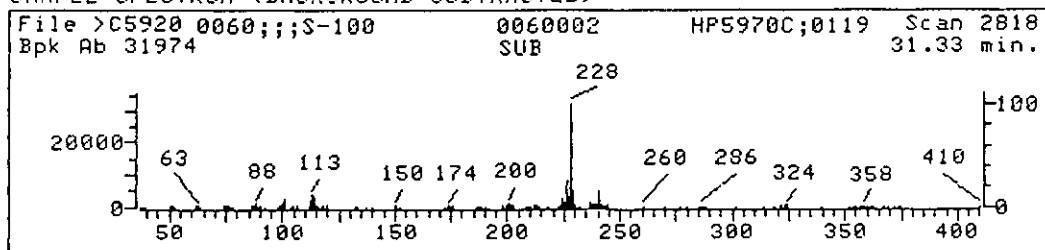
Compound No: 63
Compound Name: Fluoranthene
Scan Number: 2397
Retention Time: 27.24 min.
Quant Ion: 201.9
Area: 314459
Concentration: 1661.87 ug
q-value: 99

0 0252

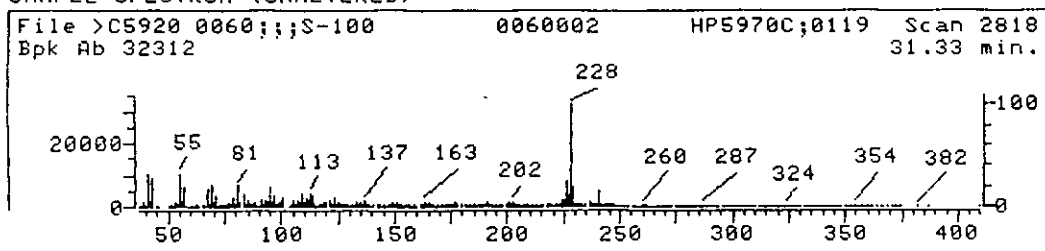
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



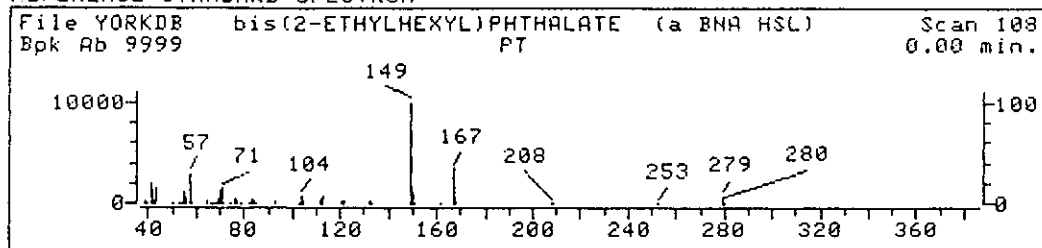
SAMPLE SPECTRUM (UNALTERED)



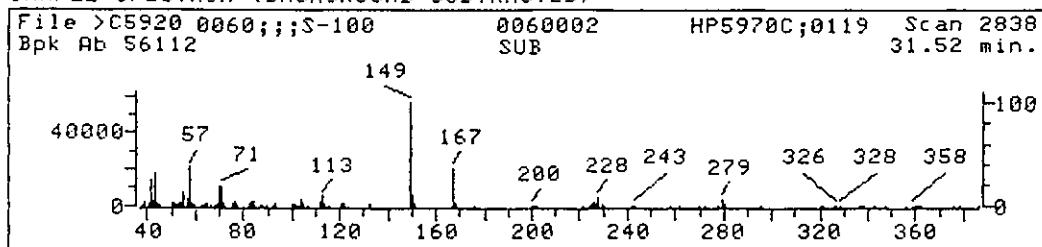
Data File: >C5920::C5 Quant Output File: ^C5920::QT
Name: 0060;;;S-100
Misc: 0060002 HP5970C;011993;012093;LLS;1.0;;7.4;C0952 BTL# 8
Quant Time: 930201 21:43 Quant ID File: I_EPA::N1
Injected at: 930201 20:48 Last Calibration: 930201 13:46

Compound No: 69
Compound Name: Benzo(a)anthracene
Scan Number: 2818
Retention Time: 31.33 min.
Quant Ion: 228.0
Area: 183014
Concentration: 1094.38 ug
q-value: 99

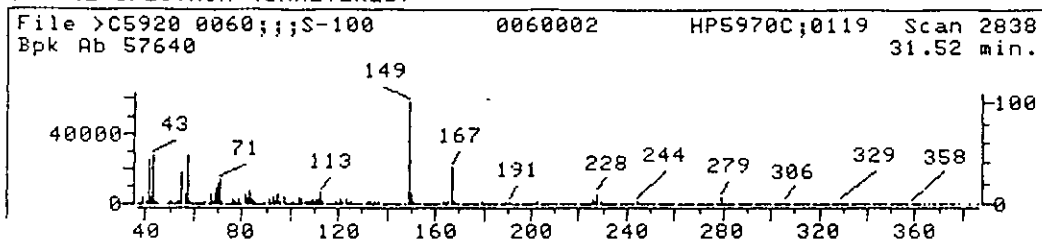
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

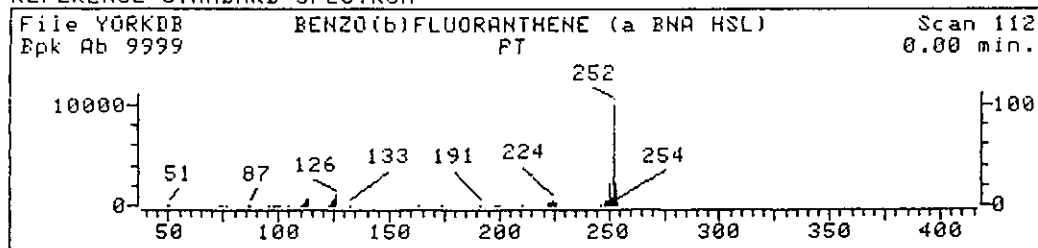


Data File: >C5920::C5 Quant Output File: ^C5920::QT
Name: 0060;;;S-100
Misc: 0060002 HP5970C;011993;012093;LLS;1.0;;;7.4;C0952 BTL# 8
Quant Time: 930201 21:43 Quant ID File: I_EPA::N1
Injected at: 930201 20:48 Last Calibration: 930201 13:46

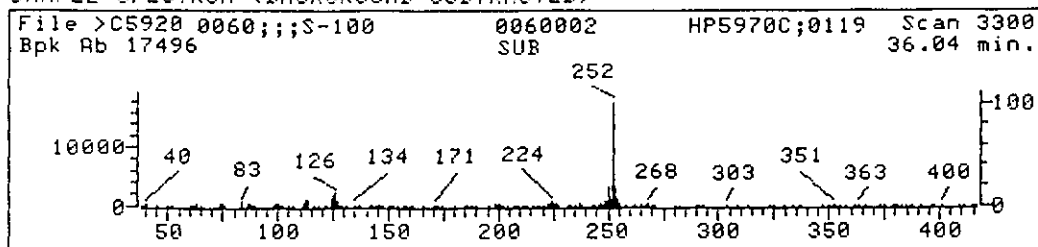
Compound No: 71
Compound Name: bis(2-Ethylhexyl)phthalate
Scan Number: 2838
Retention Time: 31.52 min.
Quant Ion: 148.8
Area: 224099
Concentration: 1554.67 ug
q-value: 94

000254

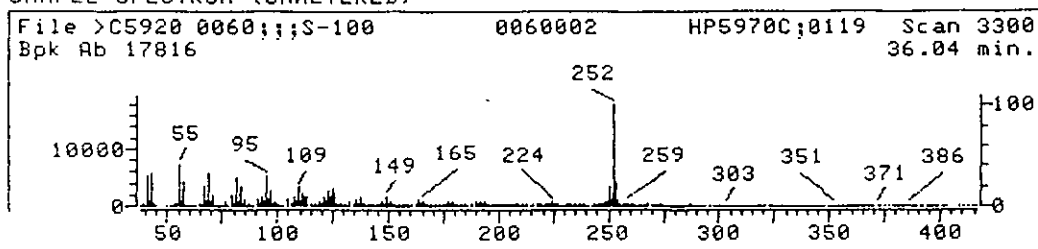
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

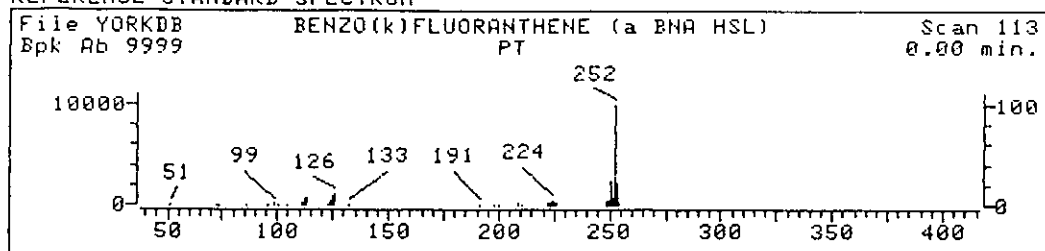


Data File: >C5920::C5 Quant Output File: ^C5920::QT
Name: 0060;;;S-100
Misc: 0060002 HP5970C;011993;012093;LLS;1.0;;7.4;C0952 BTL# 8
Quant Time: 930201 21:43 Quant ID File: I_EPA::N1
Injected at: 930201 20:48 Last Calibration: 930201 13:46

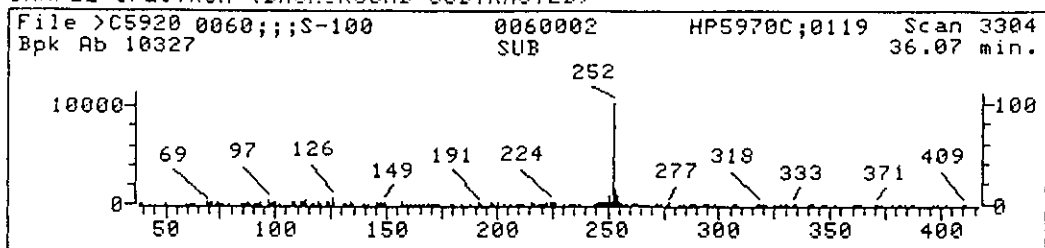
Compound No: 74
Compound Name: Benzo(b)fluoranthene
Scan Number: 3300
Retention Time: 36.04 min.
Quant Ion: 252.0
Area: 79891
Concentration: 1022.46 ug
q-value: 95

0 0255

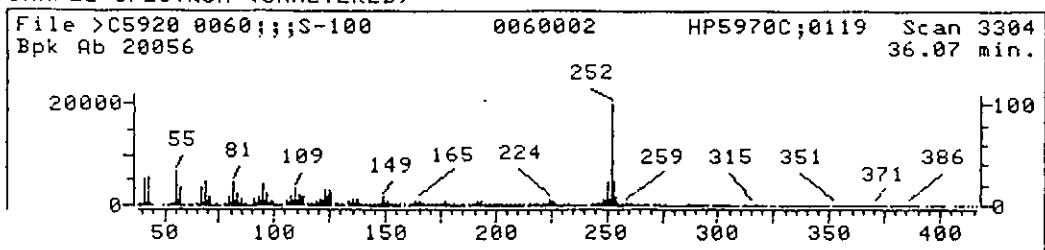
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

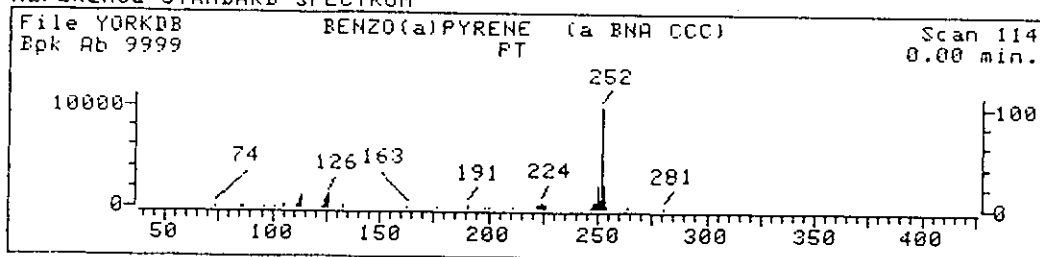


Data File: >C5920::C5 Quant Output File: ^C5920::QT
Name: 0060;;;S-100
Misc: 0060002 HP5970C;011993;012093;LLS;1.0;;7.4;C0952 BTL# 8
Quant Time: 930201 21:43 Quant ID File: I_EPA::N1
Injected at: 930201 20:48 Last Calibration: 930201 13:46

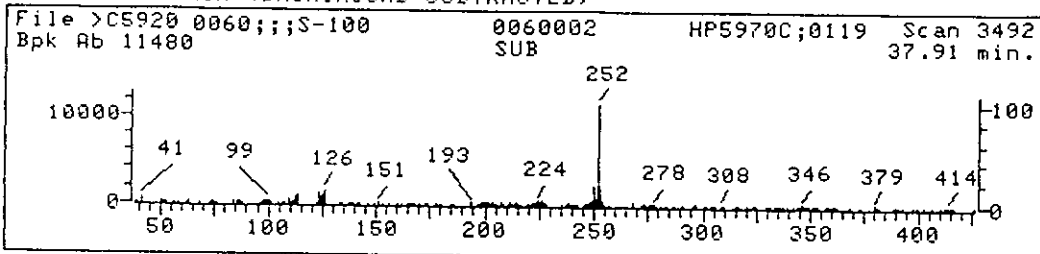
Compound No: 75
Compound Name: Benzo(k)fluoranthene
Scan Number: 3304
Retention Time: 36.07 min.
Quant Ion: 252.0
Area: 70350
Concentration: 944.33 ug
q-value: 81

0. 0256

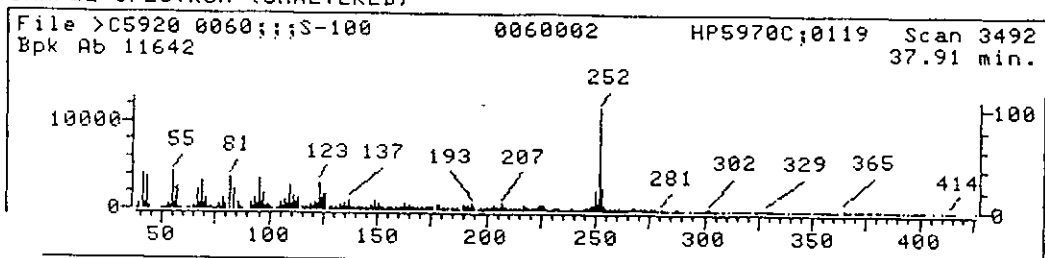
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5920::C5

Quant Output File: ^C5920::QT

Name: 0060;;;S-100

Misc: 0060002

HP5970C;011993;012093;LLS;1.0;;;7.4;C0952 BTL# 8

Quant Time: 930201 21:43

Quant ID File: I_EPA::N1

Injected at: 930201 20:48

Last Calibration: 930201 13:46

Compound No: 76

Compound Name: Benzo(a)pyrene

Scan Number: 3492

Retention Time: 37.91 min.

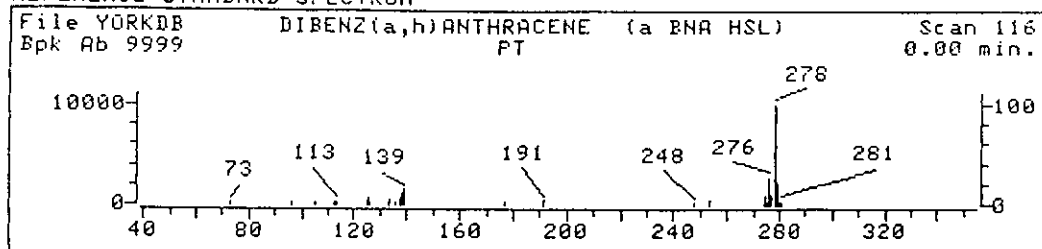
Quant Ion: 252.0

Area: 81748

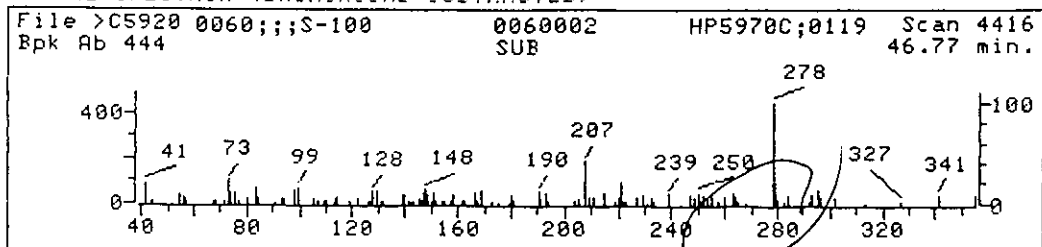
Concentration: 1238.97 ug

q-value: 93

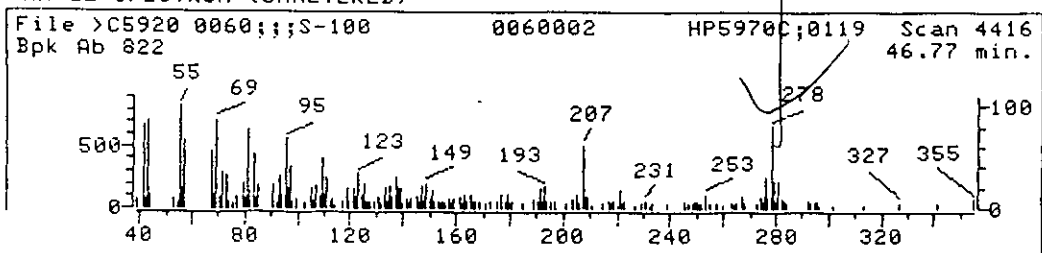
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5920::C5

Quant Output File: ^C5920::QT

Name: 0060;;;S-100

Misc: 0060002

HP5970C;011993;012093;LLS;1.0;;7.4;C0952 BTL# 8

Quant Time: 930201 21:43

Quant ID File: I_EPA::N1

Injected at: 930201 20:48

Last Calibration: 930201 13:46

Compound No: 78

Compound Name: Dibenz(a,h)anthracene

Scan Number: 4416

Retention Time: 46.77 min.

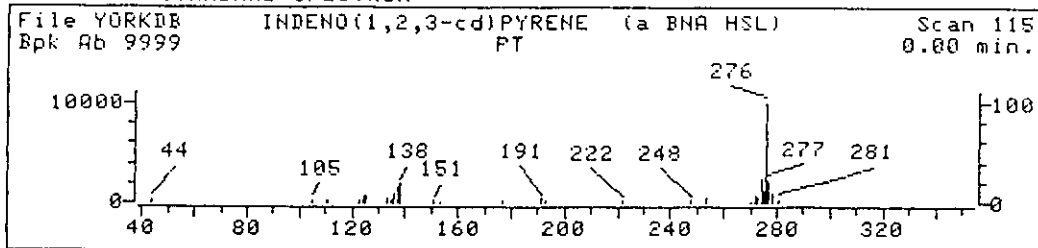
Quant Ion: 278.0

Area: 2818

Concentration: 50.74 ug

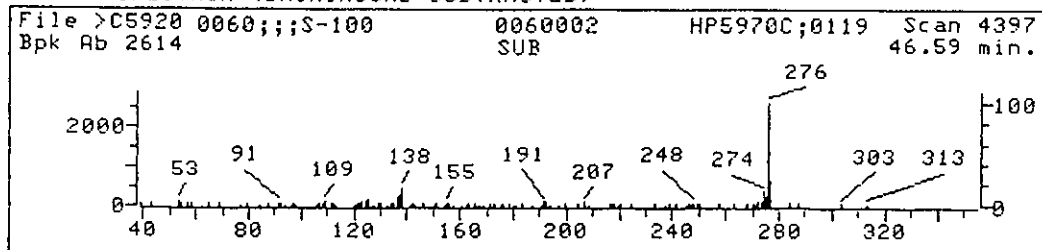
q-value: 94

REFERENCE STANDARD SPECTRUM

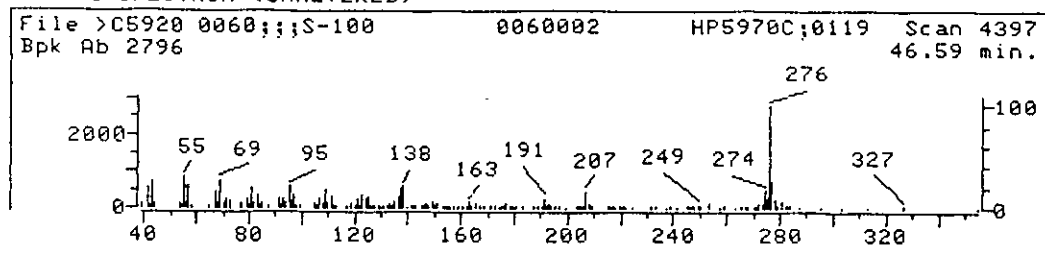


0258

SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

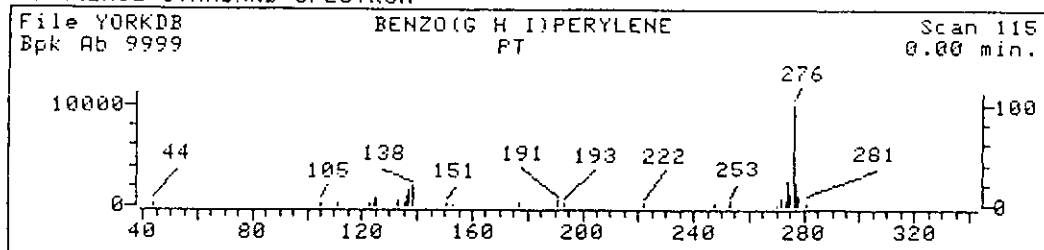


Data File: >C5920::C5 Quant Output File: ^C5920::QT
Name: 0060;;;S-100
Misc: 0060002 HP5970C;011993;012093;LLS;1.0;;;7.4;C0952 BTL# 8
Quant Time: 930201 21:43 Quant ID File: I_EPA::N1
Injected at: 930201 20:48 Last Calibration: 930201 13:46

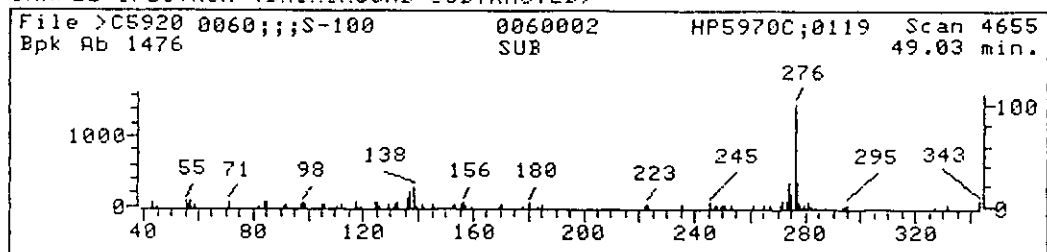
Compound No: 77
Compound Name: Indeno(1,2,3-cd)pyrene
Scan Number: 4397
Retention Time: 46.59 min.
Quant Ion: 276.0
Area: 14915
Concentration: 275.12 ug
q-value: 96

0259

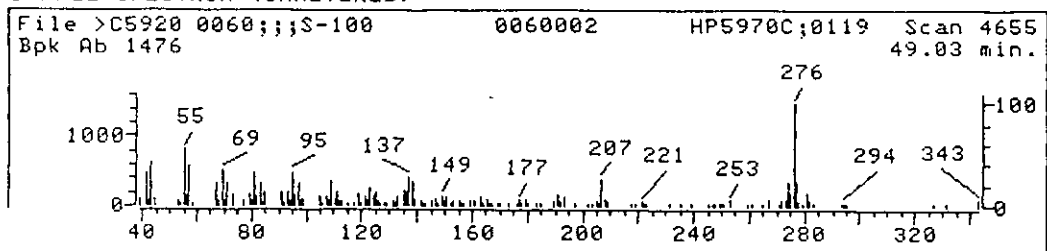
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5920::C5 Quant Output File: ^C5920::QT
Name: 0060;;;S-100
Misc: 0060002 HP5970C;011993;012093;LLS;1.0;;7.4;C0952 BTL# 8
Quant Time: 930201 21:43 Quant ID File: I_EPA::N1
Injected at: 930201 20:48 Last Calibration: 930201 13:46

Compound No: 79
Compound Name: Benzo(g,h,i)perylene
Scan Number: 4655
Retention Time: 49.03 min.
Quant Ion: 276.0
Area: 8255^
Concentration: 147.61 ug
q-value: 78

0260

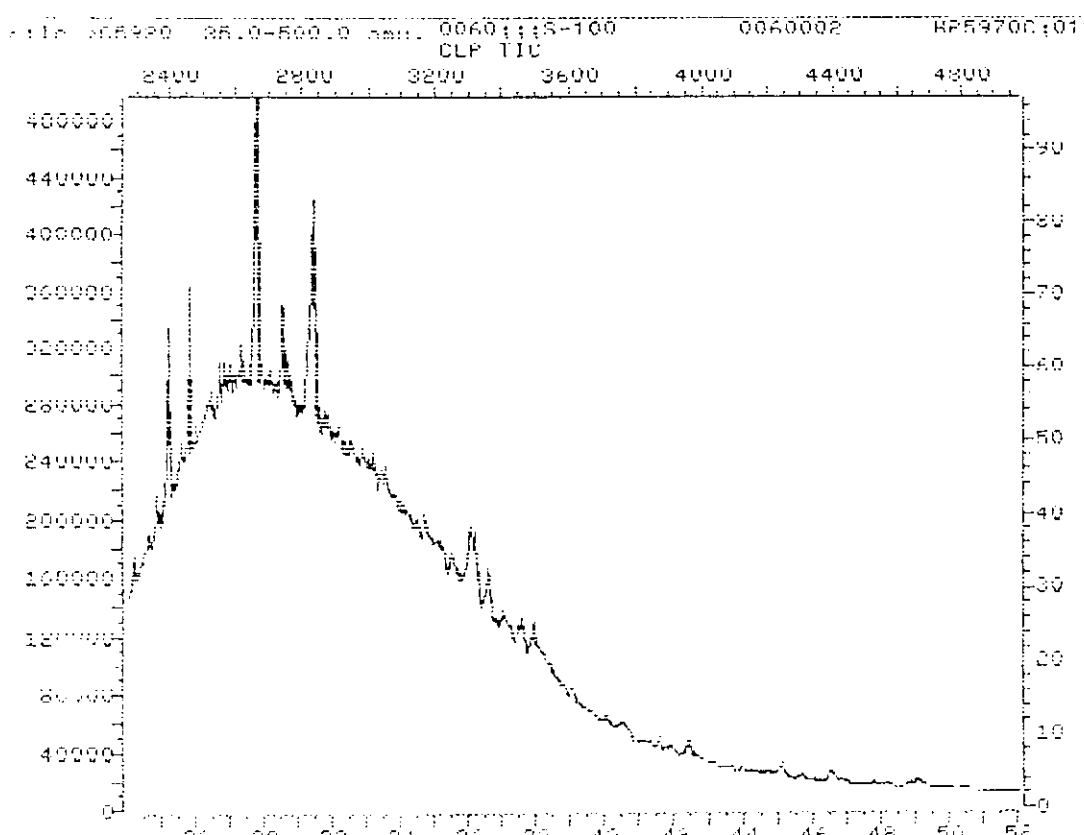
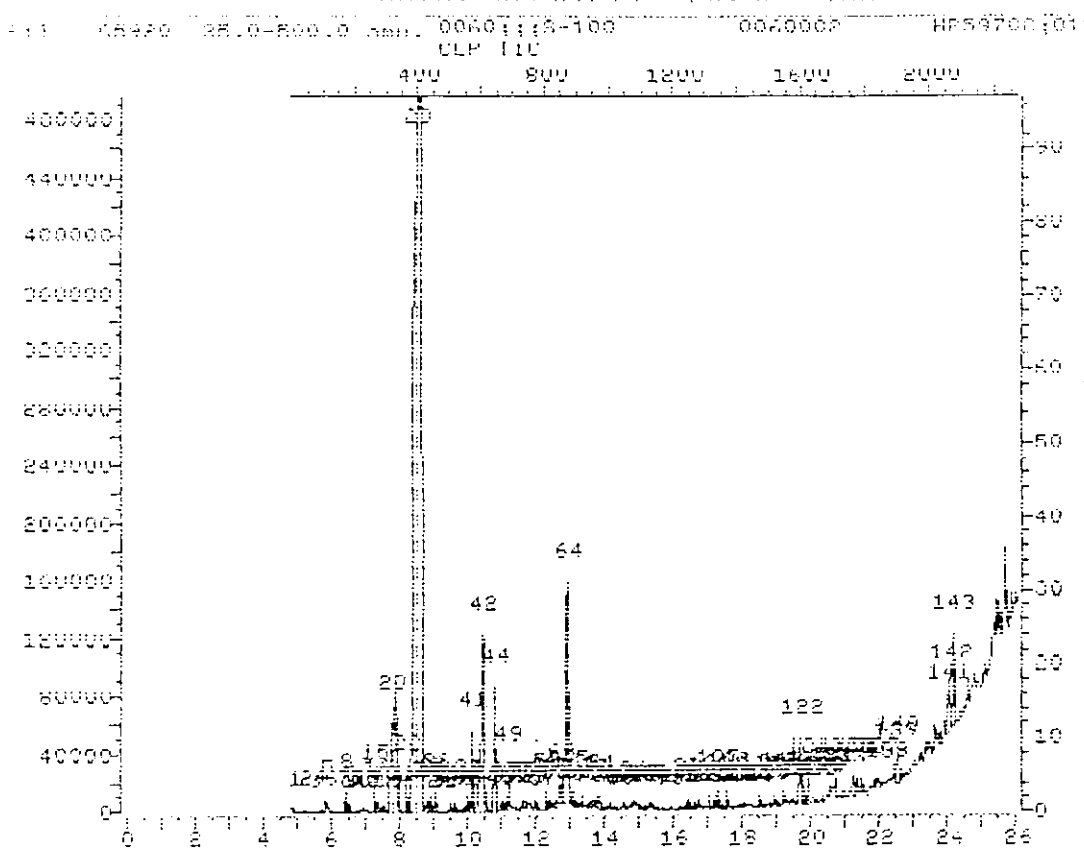
MS Data File header from : >D5920

Sample: 0060;;;S-100 Operator: MSC MS 2/01/93 20:48
Misc : 00600002 HP59700;011993;012093;LS;1.0;;2.4;00952 RI # 8
Sys. #: 1 MS model: 20 SUZHM rev.: 1A ALS #: 0
Method File: M.C Tuning File: T.C No. of extra records: 2
Source temp.: 0 Analyzer temp.: 290 Transfer line temp.: 0

Chromatographic temperatures :	40.	290.	0.	0.	0.
Chromatographic times, min. :	4.0	23.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	.5	0.0

0261

Date: 02/01/93 20:48 Inst: C



Date: 02/03/93 20:48 Inst: C

S-100 0262
HP5970C

T T C P E A K R E P O R T

PK#	R.T.	Total Area	Est Conc.	Assoc. ISTD	DF
21.	8.48	3521218.	14000.	1.	18.94
64.	12.90	284320.	3100.	1.	18.94
42.	10.44	651096.	2600.	1.	18.94
20.	7.26	363659.	1400.	1.	18.94
44.	10.80	212965.	850.	1.	18.94
41.	10.11	126304.	500.	1.	18.94
49.	11.20	66232.	260.	1.	18.94
22.	8.18	61694.	240.	1.	18.94
15.	7.25	42054.	170.	1.	18.94
63.	12.73	28745.	110.	1.	18.94
28.	9.02	22101.	110.	1.	18.94
74.	13.84	32909.	110.	2.	18.94
8.	6.42	25095.	100.	1.	18.94
126	20.15	43492.	100.	3.	18.94
132	20.68	44049.	100.	3.	18.94
108	17.55	34507.	99.	2.	18.94
124	19.88	42326.	99.	3.	18.94
61.	12.58	24146.	96.	1.	18.94
140	22.52	48140.	91.	4.	18.94
65.	13.09	22316.	89.	1.	18.94
134	21.20	37623.	88.	3.	18.94
27	8.80	21374.	85.	1.	18.94
5	12.32	21101.	84.	1.	18.94

I N T E R N A L I S T D A R E A R E P O R T

ISTD Compound Name	RT	Area	RT Range	TI/ST
1,4-DICHLOROBENZENE-04	12.12	190856.	0.00 13.29	6.8
NAPHTHALENE-08	15.41	264900.	13.29 17.24	2.4
ACENAPHTHENE-010	20.02	324020.	17.24 22.02	4.7
PHENANTHRENE-010	23.92	399919.	22.02 27.66	3.0
CHRYSENE-012	31.35	220094.	27.66 34.87	2.1
PERYLENE-012	38.40	10528.	34.87 49.03	.2

ISTD peaks found: 6

Surrogate peaks found: 2

Quant target peaks expected: 28

Target peaks matched: 8

Total TIC identified: 23

FILES : 2:53 PM THU, 3 4 FEB, 1993

Error: For command: RSHF3

Error: -5

Bad record length RSH

1. Butane (801901)

2. Guanidine (801901)

3. Acetamide (801901)

58 C4H10

59 CH5N3

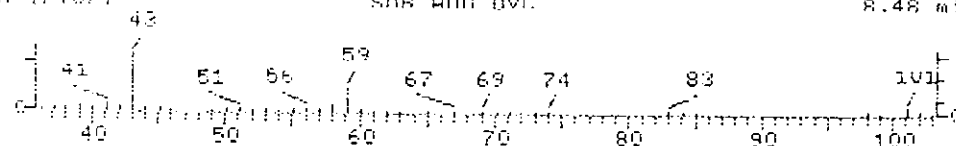
59 C2H5NO

Sample file: >C5920 Spectrum #: 394
Search speed: 3 Tilting option: S No. of ion ranges searched: 55

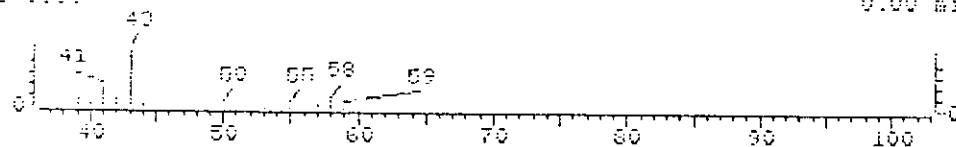
Peak	Prob.	CAS #	CON #	ROOT	K	DK	#FIS	TILT	%	CON	C	I	R	IO
1.	22*	106928	1234	"BIGDB	21	58	2	0	26	40	10	13		
2.	20*	113008	1581	"BIGDB	20	34	1	0	32	55	5	14		
3.	11*	40355	1577	"BIGDB	22	38	1	0	28	63	2	14		

Peak #: 23 Area: 3521718. Est Conc: 14000. Date: 02/01/93 20:48 Inst: C

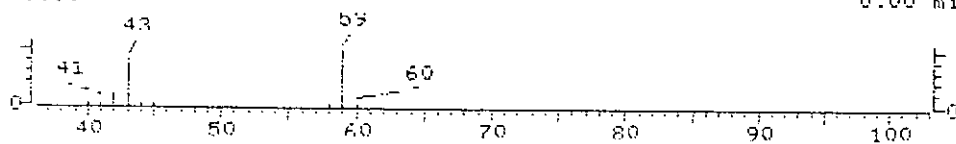
File >C5920 0040::S-100 0000000 HP59700;011993;0 Scan 394
3pk AB 121021 SHR AND DVC 8.48 min.



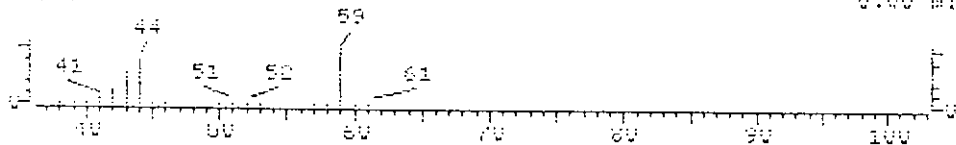
File >BIGDB Butane (801901) Scan 1234
3pk AB 0000 0.00 min.



File >BIGDB Guanidine (801901) Scan 1581
3pk AB 9999 0.00 min.



File >BIGDB Acetamide (801901) Scan 1577
3pk AB 9999 0.00 min.



RPN error: -5

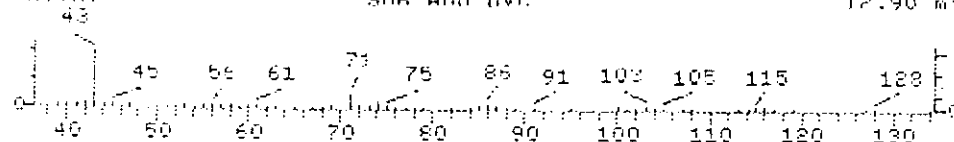
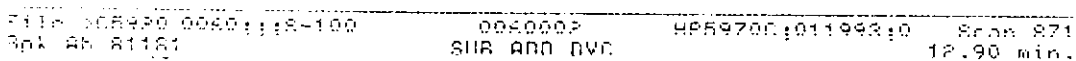
head rounded length R54

86 C5H1 00

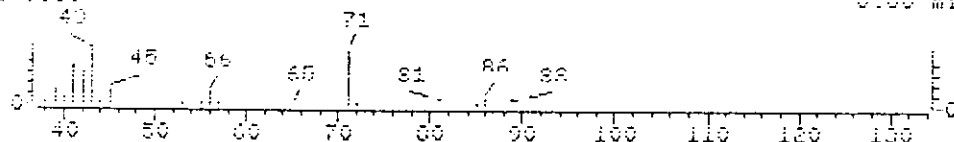
Sample File: >C6920 Spectrum #: 821
Search speed: 3 Tilting option: S No. of ion ranges searched: 62

	Prab.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	TO
1.	11*	9A429	3914	"RTGDB	23	51	2	0	24	64	2			13

Peak#: 64 Area: 784320. Est Conc: 3100. Date: 02/01/93 20:48 Inst: C



File D81055	Furan, tetrahydro-2-methyl- (8C19C1)	Scan 3914
1pk Ab 0000		0.00 min.



0265

RPN: 005

Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RSHF3

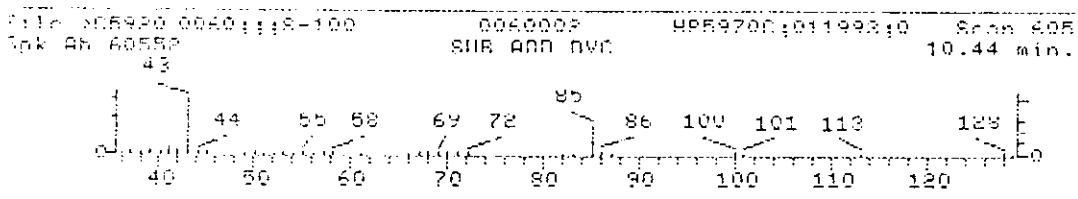
RPN error: -5

ad record length RSH

Sample file: >C5920 Spectrum #: 605

No data base entries were retrieved.

Peak#: 42 Area: 651096. Est Conc: 2600. Data: 02/01/93 20:48 Inst: C



0266

Use to interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RSH63

RPN error: -5

bad record length RSH

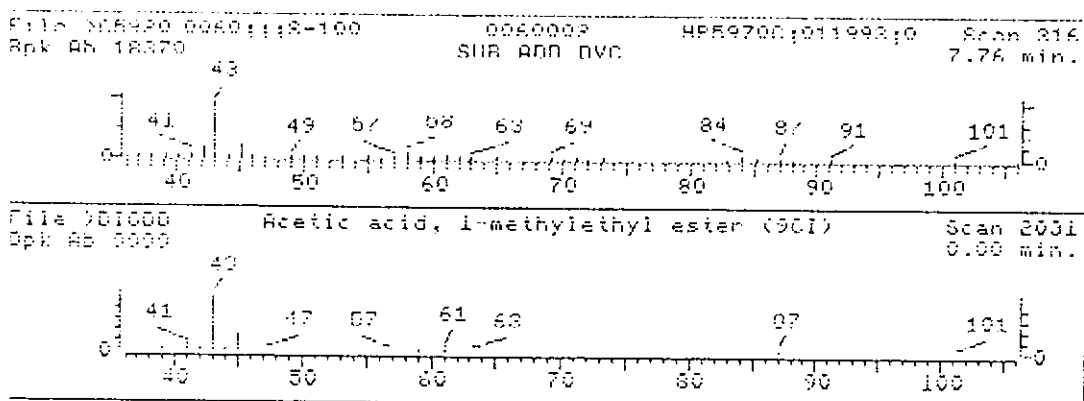
1. Acetic acid, 1-methylethyl ester (901)

102 C5H10O2

Sample file: >C5920 Spectrum #: 316
Search speed: 3 Tilting option: S No. of ion ranges searched: 52

Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C	I	R	IO
1.	20	108214	2031	"81608	27	37	0	0	45	51	5	14	

Peak#: 20 Area: 363659. Est Conc: 1400. Date: 02/01/93 20:48 Inst: C



Use it interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN Error For command: R58A3

RPN error: -5

bad record length R58

1. 2-Propanone, 1-cyclopropyl- (801901)

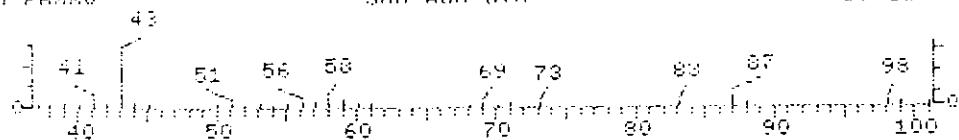
98 C6H10O

Sample File: X05920 Spectrum #: 570
Search speed: 3 Tilting option: S No. of ion ranges searched: 56

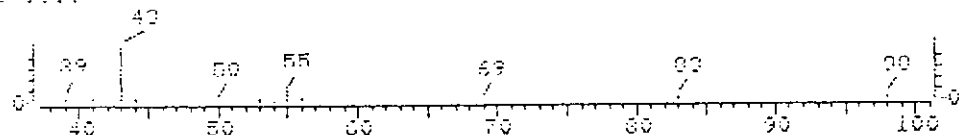
Peak#	CAS #	CON #	RNDT	K	OK	#FIS	TILT	%	CON	C	I	R	IO
1.	30*	4160252	256	"BIRDB	21	44	2	0	100	33	12	13	

Peak#: 41 Area: 126304. Est Conc: 500. Date: 02/01/93 20:48 Inst: C

File X05920 0060:118-100 00600002 HP59700;011992:0 Scan 570
Spk AB 26000 SUB ADD NVC 10.11 min.



File 001000 2-Propanone, 1-cyclopropyl- (801901) Scan 250
Spk AB 0000 0.00 min.



RPN: 005

Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RSE63

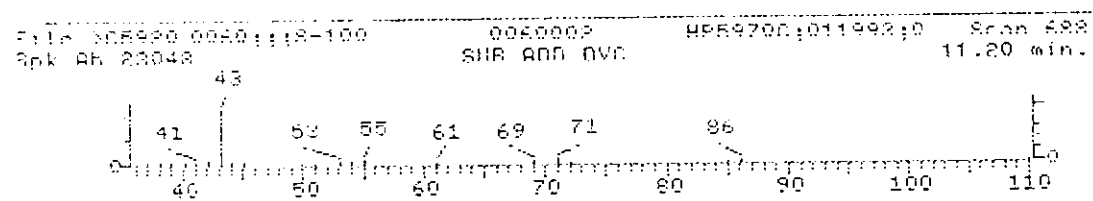
RPN error: -5

bad record length RSE

Sample file: >05920 Spectrum #: 688

No data base entries were retrieved.

Peak#: 49 Area: 66232. Est Conc: 260. Date: 02/01/93 20:48 Inst: C



had record length RSH

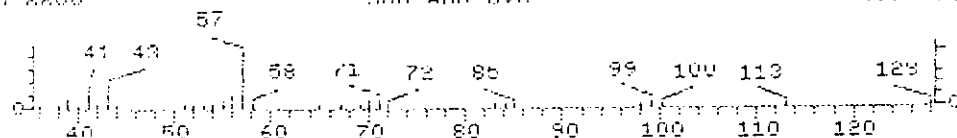
1. Heptane, 2,5-dimethyl- (8C19C1)	128 C9H20
2. Heptane, 3,5-dimethyl- (8C19C1)	128 C9H20
3. Octane, 3-methyl- (8C19C1)	128 C9H20
4. Undecane, 6-methyl- (8C19C1)	128 C12H26

Sample File: >15920 Spectrum #: 361
 Search speed: 3 Tilting option: S No. of ion ranges searched: 58

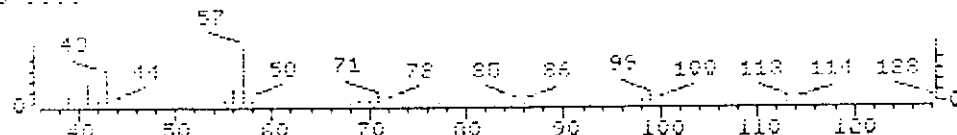
	Prob.	CAS #	CON #	RSH	K	DK	#FLG	THI	%	CON	C	I	R	IV
1.	95*	2216300	8730	"RIGOR	21	15	0	0	20	3	22	95		
2.	89*	926829	8724	"RIGOR	60	22	0	0	24	10	62	80		
3.	70	2216333	8731	"RIGOR	52	32	2	0	83	7	42	18		
4.	52	12302339	8562	"RIGOR	36	42	2	0	100	16	20	12		

Peak#: 22 Area: 61694. Est Conc: 240. Date: 02/01/93 20:48 Inst: C

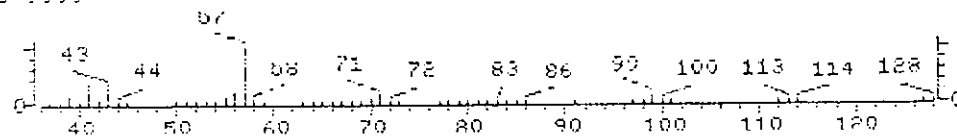
File >08920 0050:::S-100 0060000 HP59700:011993:0 Scan 361
 Spk Ab 2200 SHR AND DVC 8.18 min.



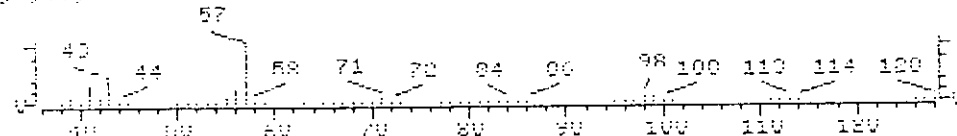
File >081000 Heptane, 2,5-dimethyl- (8C19C1) Scan 3730
 Spk Ab 3000 0.00 min.



File >081008 Heptane, 3,5-dimethyl- (8C19C1) Scan 3724
 Spk Ab 4999 0.00 min.



File >081008 Octane, 3-methyl- (8C19C1) Scan 3731
 Spk Ab 4999 0.00 min.



0271

55. Record length 858

1. Cyclopropane, 1,1,2,2-tetramethyl- (801901)
2. 3-Penten-2-one, 3-methyl- (801901)
3. 3-Penten-2-one, 4-methyl- (801901)
4. 2-Pentene, 3,4-dimethyl-, (E)- (801901)

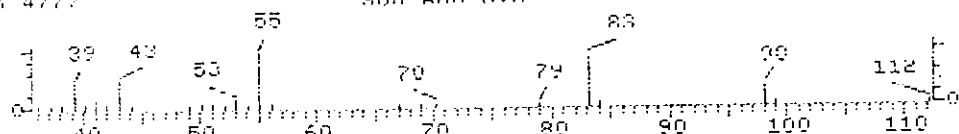
98 02H14
98 06H100
98 06H100
98 02H14

Sample File: >05920 Spectrum #: 260
Search speed: 3 Tilting option: S No. of ion ranges searched: 55

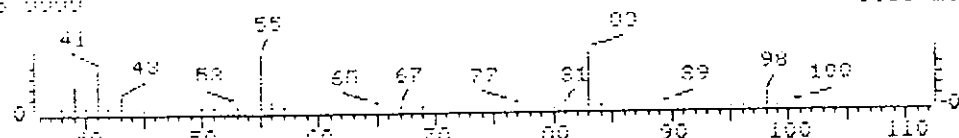
	Peak#	CAS #	CON #	RUOT	K	DK	#PLG	TILT	%	CON	C	I	R	IV
1.	86*	4127473	5593	"BIGDB	57	40	2	0	91	5	60	35		
2.	84*	565628	8488	"BIGDB	62	30	0	0	74	47	20	74		
3.	82*	141797	8486	"BIGDB	62	36	2	0	60	27	25	41		
4.	52*	4914925	5596	"BIGDB	41	55	2	0	89	19	20	18		

Peak#: 15 Area: 42054. Est Conc: 170. Date: 02/01/93 20:48 Inst: C

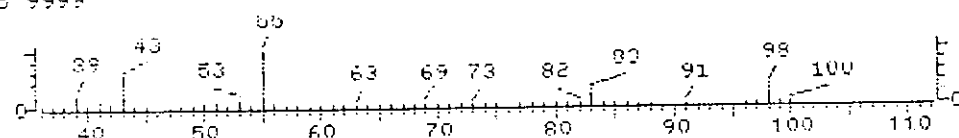
File >05920 0060;1;8-100 0060000 HP59700;011993;0 Scan 260
Spk AB 4777 SUR AND NVC 7.25 min.



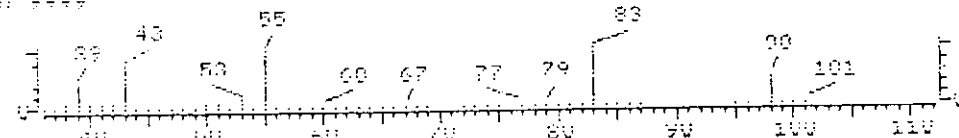
File >BIGDB Cyclopropane, 1,1,2,2-tetramethyl- (801901) Scan 5593
Spk AB 0000 0.00 min.



File >BIGDB 3-Penten-2-one, 3-methyl- (801901) Scan 8488
Spk HB 9999 0.00 min.



File >BIGDB 3-Penten-2-one, 4-methyl- (801901) Scan 8486
Spk HB 9999 0.00 min.



and record length RNF

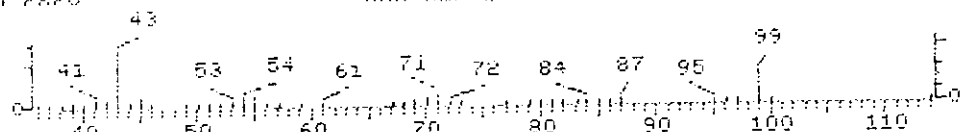
- | | |
|--|------------|
| 1. 2,5-Pyrrolidinedione (901) | 99 C4H5NN2 |
| 2. Thiazole, 4-methyl- (801901) | 99 C4H5NS |
| 3. 1,3-Dioxolane, 2-(1-propenyl)- (901) | 114 C4H7O2 |
| 4. Ixirane, 2-methyl-2-(2-methylpropyl)- (901) | 114 C7H14O |

Sample File: >D5920 Spectrum #: 852
 Search speed: 3 Tilting option: S No. of ion ranges searched: 55

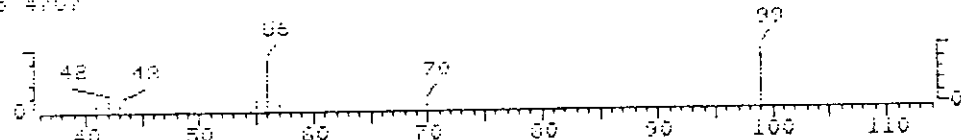
	Prob.	CAS #	CON #	RMT	K	OK	#FUG	TILT	%	CON	C	I	R	IO
1.	28*	123568	8715	"B1GDB	24	45	2	0	52	37	10	14		
2.	22*	693998	8790	"B1GDB	22	68	3	0	52	40	10	13		
3.	22*	4528261	8813	"B1GDB	25	84	3	0	52	37	10	13		
4.	25*	53897312	8728	"B1GDB	28	74	3	0	52	43	8	13		

Peak#: 63 Area: 28745. Est Conc: 110. Date: 02/01/93 20:48 Inst: C

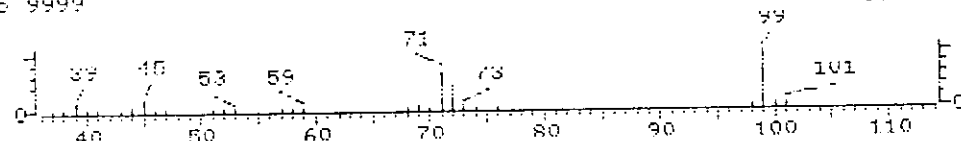
File >D5920 0040:115-100 0050003 H959700:011993:0 Scan 852
 Bpk Ab 2820 SHR ADD DVC 12.73 min.



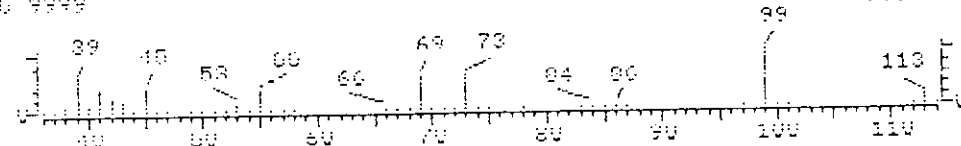
File >B1GDB 2,5-Pyrrolidinedione (901) Scan 8715
 Bpk Ab 4707 0.00 min.



File >B1GDB Thiazole, 4-methyl- (801901) Scan 8790
 Bpk Ab 9999 0.00 min.



File >B1GDB 1,3-Dioxolane, 2-(1-propenyl)- (901) Scan 8813
 Bpk Ab 9999 0.00 min.



0273

ad. record length RWE

1. Hydroxylamine, O-(3-methylbutyl)- (9CI)
2. Pyrrolidine (DOT)(8CI9CI)
3. 2-Propanone, 1-hydroxy- (8CI9CI)
4. 1-Propanol, 2-methyl- (9CI)

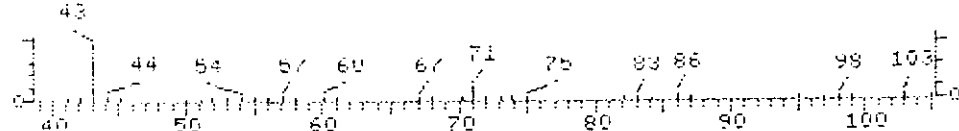
103 C5H13NO
71 C4H9N
74 C3H6O2
74 C4H10O

Sample File: >13920 Spectrum #: 972
Search speed: 3 Tilting option: S No. of ion ranges searched: 65

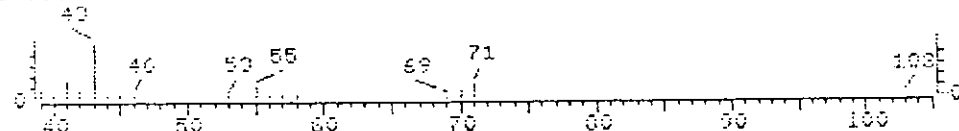
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IO
1.	52*	19411655	3875	"BIGDB	22	59	2	0	83	17	20	13		
2.	52*	123251	3498	"BIGDB	21	62	2	0	74	19	20	13		
3.	33*	116196	134	"BIGDB	23	50	0	0	98	33	12	16		
4.	31*	28831	152	"BIGDB	24	72	2	0	100	31	12	14		

Peak#: 24 Area: 379119. Est Conc: 110. Date: 02/01/93 20:48 Inst: C

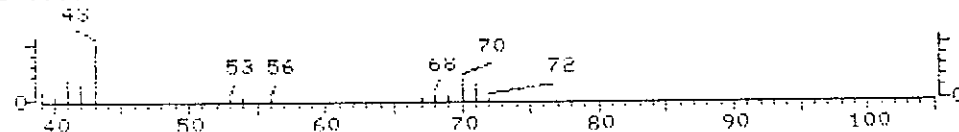
file >05920 0040:1:8-100 00400002 HP5970D:011993:0 Scan 972
pk AB 4590 SHR ADD DVC 13.84 min.



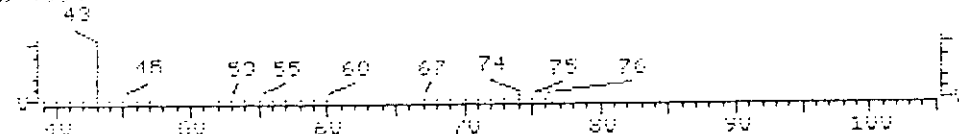
file >01000 Hydroxylamine, O-(3-methylbutyl)- (9CI) Scan 3875
pk AB 0000 0.00 min.



file >01000 Pyrrolidine (DOT)(8CI9CI) Scan 3498
pk AB 9999 0.00 min.



file >01000 2-Propanone, 1-hydroxy- (8CI9CI) Scan 134
pk AB 9999 0.00 min.



0274

and record length RHF

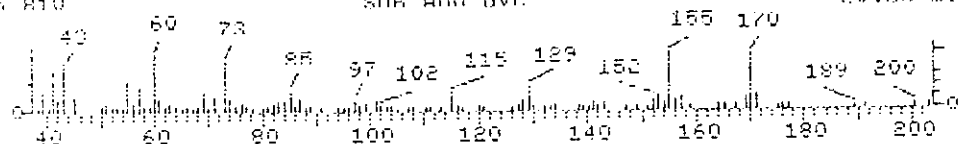
1. Naphthalene, 1,4,6-trimethyl- (801901)	120 C13H14
2. Dodecanamide, N,N-bis(2-hydroxyethyl)- (801901)	287 C16H33NO3
3. Naphthalene, 1,6,7-trimethyl- (801901)	120 C13H14
4. Naphthalene, 2,3,6-trimethyl- (801901)	120 C13H14

Sample file: >13928 Spectrum #: 1208
 Search speed: 3 Tilting option: S No. of ion ranges searched: 57

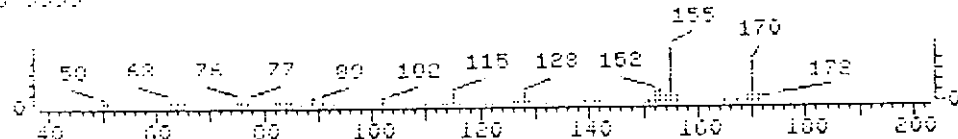
	Prob.	CAS #	CON #	ROOT	K	DK	#HLS	TILT	%	CON	C	I	R	IO
1.	66*	2131422	20305	"RIGOR	24	30	1	-3	28	16	31	49		
2.	52	120401	1984	"RIGOR	88	44	0	2	45	44	17	55		
3.	42*	2245387	20306	"RIGOR	20	38	1	0	96	55	11	69		
4.	41*	829265	20300	"RIGOR	64	45	1	0	86	55	11	63		

Peak#: 132 Area: 44049. Est Conc: 100. Date: 02/01/93 20:48 Inst: C

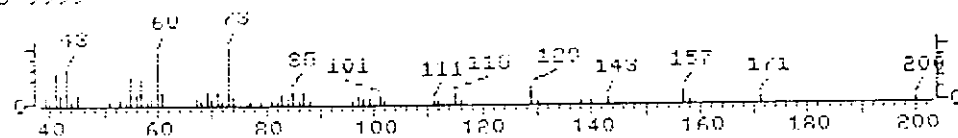
File >05928 0000:::8-100 0040000 HP59700:011992:0 Scan 1708
 Spk Ab 810 SHR AND DVC 20.68 min.



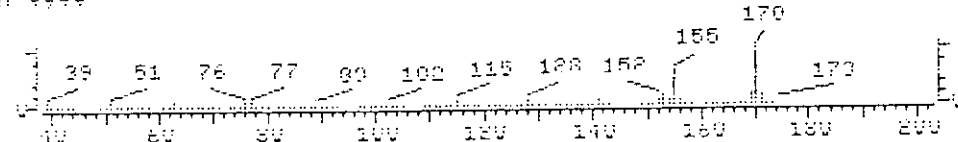
File >01000 Naphthalene, 1,4,6-trimethyl- (801901) Scan 20305
 Spk Ab 0000 0.00 min.



File >01000 Dodecanamide, N,N-bis(2-hydroxyethyl)- (801901) Scan 1984
 Spk Ab 9999 0.00 min.



File >01000 Naphthalene, 1,6,7-trimethyl- (801901) Scan 20306
 Spk Ab 9999 0.00 min.



2

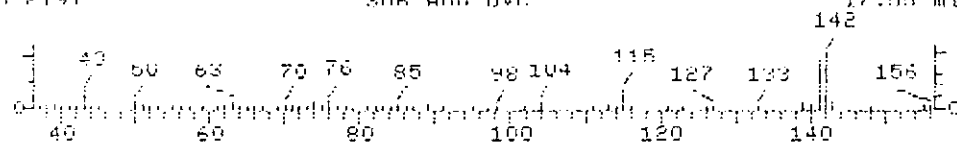
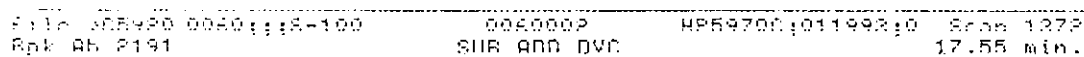
- had normal length RSH

- | | | |
|---|-----|--------|
| 1. 1H-Indene, 1-ethylidene- (9C11) | 142 | C11H10 |
| 2. 1,4-Methanonaphthalene, 1,4-dihydro- (8C19C11) | 142 | C11H10 |
| 3. Naphthalene, 2-methyl- (8C19C11) | 142 | C11H10 |
| 4. Naphthalene, 1-methyl- (8C19C11) | 142 | C11H10 |

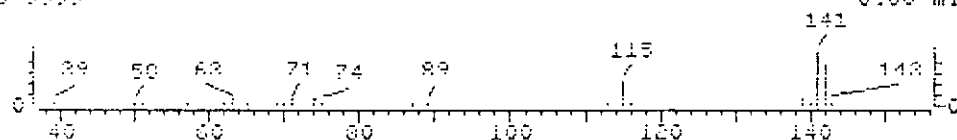
Sample File: >105920 Spectrum #: 1322
Search speed: 3 Tilting option: S No. of ion ranges searched: 56

	Prob.	CAS #	CON #	RUOT	K	OK	#FLG	TILT	%	CON	C I R	IV
1.	91*	2471832	16096	"RIGOR	26	24	0	0	63	28	57	93
2.	24*	4453901	16098	"RIGOR	20	32	2	-2	83	15	39	40
3.	21*	91576	16085	"RIGOR	52	41	2	0	96	13	38	34
4.	21*	90120	16084	"RIGOR	52	43	2	0	94	13	38	34

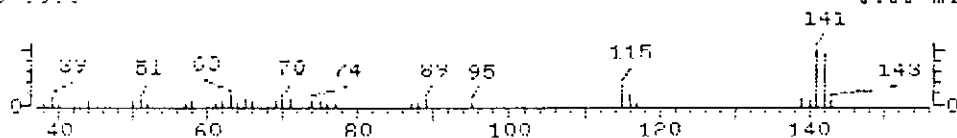
Peak#: 1118 Area: 34507. Est Conc: 99. Date: 02/01/93 20:48 Inst: C



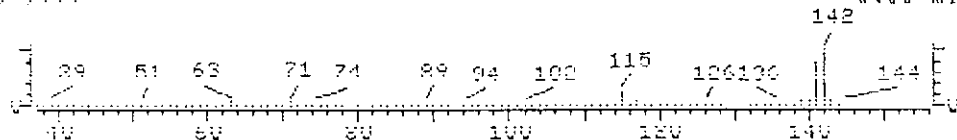
File: 981008	III Indene, 1-ethylidene- (9CI)	Scan 16096
Exp: 16 0000		0.00 min.



File >B1608	1,4-Methanonaphthalene, 1,4-dihydro- (801901)	Scan 16098
ppk Pb 4994		0.00 min.



File 081908	Naphthalene, 2-methyl- (801901)	Scan 18080
Sub 00 9999		0.00 min.



0276

ad. record length: 800

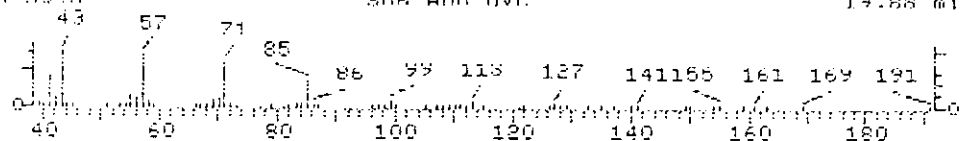
1. Eicosane, 10-methyl- (9CI)	296 C21H44
2. Hexadecane (8CI9CI)	226 C16H34
3. Heptadecane, 2,6,10,14-tetramethyl- (9CI)	296 C21H44
4. Tritetracontane (8CI9CI)	604 C43H88

Sample File: >05920 Spectrum #: 1622
 Search speed: 3 Tilting option: S No. of ion ranges searched: 63

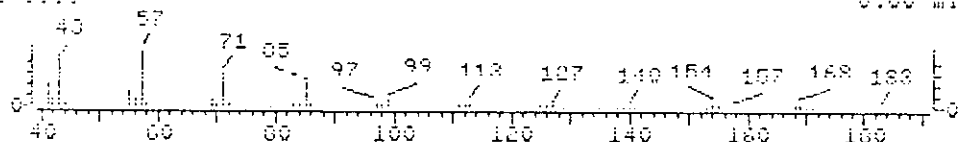
	Prob.	CAS #	CON #	RUNIT	K	OK	#FLG	TILT	%	CON	C	I	R	IO
1.	83	54833232	6226	"BIGDB	96	32	2	1	92	5	57	23		
2.	83	544263	6146	"BIGDB	88	32	2	0	93	5	57	26		
3.	83	54833486	6161	"BIGDB	89	44	2	0	76	4	57	26		
4.	78	2098212	6150	"BIGDB	75	93	2	0	89	5	55	19		

Peak#: 124 Area: 42326. Est Conc: 99. Date: 02/01/93 20:48 Inst: C

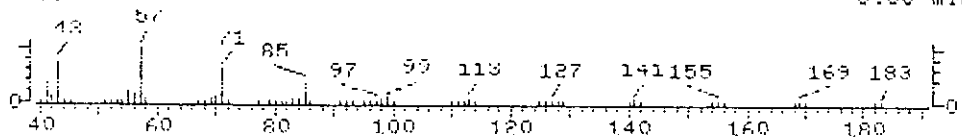
file >05920 0060;118-100 0060000 HP59700;011992;0 Scan 1622
 pk Ab 3096 SRR ADD DVC 19.88 min.



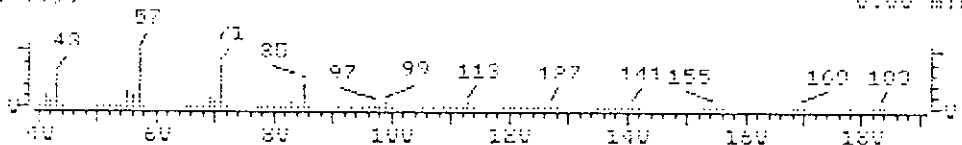
file >B1600 Eicosane, 10-methyl- (9CI) Scan 6226
 pk Ab 0000 0.00 min.



file >B1608 Hexadecane (8CI9CI) Scan 6146
 pk Ab 9999 0.00 min.



file >B1608 Heptadecane, 2,6,10,14-tetramethyl- (9CI) Scan 6161
 pk Ab 9999 0.00 min.



ad. bond length RMF

1. Nonane, 4,5-dimethyl- (8C19C1)
2. Nonane, 3,7-dimethyl- (8C19C1)
3. Octane, 3-ethyl-2,2-dimethyl- (9C1)
4. Hexane, 2,4,4-trimethyl- (8C19C1)

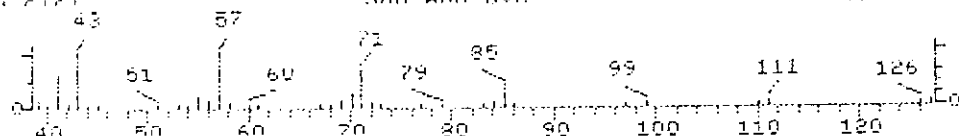
156 C11H24
156 C11H24
120 C12H26
128 C9H20

Sample File: >15920 Spectrum #: 836
Search speed: 3 Tilting option: S No. of ion ranges searched: 60

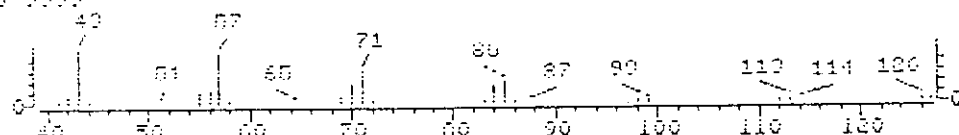
	Prob.	CAS #	CON #	RUNT	K	DK	#PLG	TILT	%	CON	C	I	R	IV
1.	20	12302232	6099	"81GDB	58	47	2	0	81	7	42	13		
2.	60	12302328	6100	"81GDB	38	48	2	0	100	11	30	12		
3.	60	62183665	6108	"81GDB	51	40	2	0	99	13	30	17		
4.	48	16242301	3925	"81GDB	55	33	2	0	86	21	12	19		

Peak#: 61 Area: 24146. Est Conc: 96. Date: 02/01/93 20:48 Inst: C

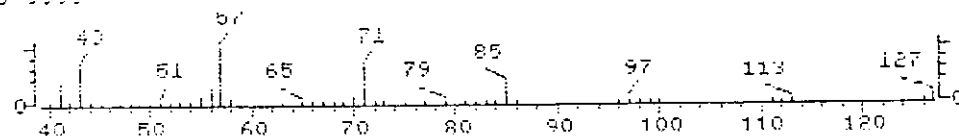
File >05930 0050::S-100 0050002 HP59700;011993;0 Scan 836
Spk AB 2121 SHR ADD DVC 12.58 min.



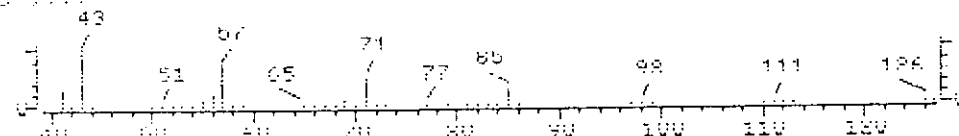
File >01000 Nonane, 4,5-dimethyl- (8C19C1) Scan 6099
Spk AB 0000 0.00 min.



File >01000 Nonane, 3,7-dimethyl- (8C19C1) Scan 6100
Spk AB 0000 0.00 min.



File >01000 Octane, 3-ethyl-2,2-dimethyl- (9C1) Scan 6108
Spk AB 0000 0.00 min.



0278

3rd - second length RSH

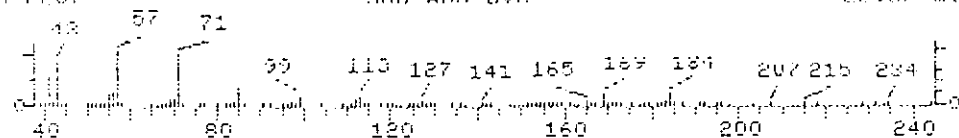
1. Dodecane, 4,6-dimethyl- (901)	198 C14H30
2. Dodecane, 2,7,10-trimethyl- (901)	212 C15H32
3. Tridecane, 5-propyl- (901)	226 C16H34
4. Decane, 5-propyl- (801)	184 C13H28

Sample file: >05920 Spectrum #: 1983
 Search speed: 3 Tilting option: S No. of ion ranges searched: 63

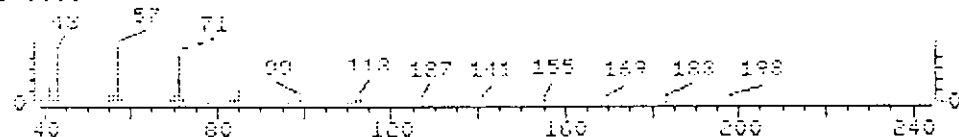
	Peak#	CAS #	CON #	RUNT	K	OK	#PLG	TILT	%	CON	C	I	R	TV
1.	68*	61141728	3960	"RIGOR	61	49	1	0	91	25	30	52		
2.	66	74645980	3988	"RIGOR	82	22	1	-1	100	19	31	41		
3.	63	55045119	10998	"RIGOR	86	27	2	0	100	20	30	31		
4.	62*	12312628	4003	"RIGOR	69	42	2	0	90	28	25	49		

Peak#: 140 Area: 48140. Est Conc: 91. Date: 02/01/93 20:48 Inst: C

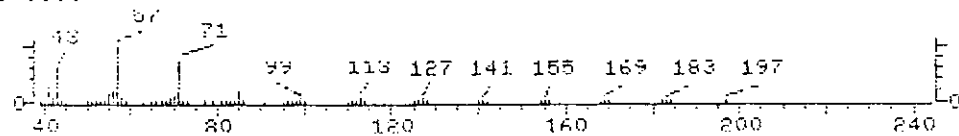
File >05920 00A0:113-100 0040000 HP689700:011993:0 Scan 1903
 1pk AB 2207 SUB ADD DVC 22.52 min.



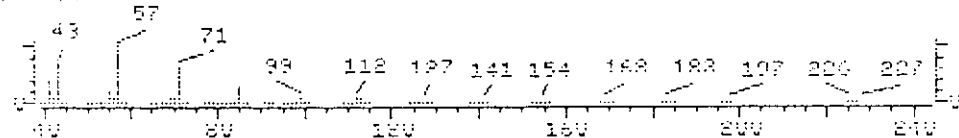
File >81608 Dodecane, 4,6-dimethyl- (901) Scan 3960
 1pk AB 9999 0.00 min.



File >81608 Dodecane, 2,7,10-trimethyl- (901) Scan 3968
 1pk AB 9999 0.00 min.



File >81608 Tridecane, 5-propyl- (901) Scan 10998
 1pk AB 9999 0.00 min.



0279

ad record length RSE

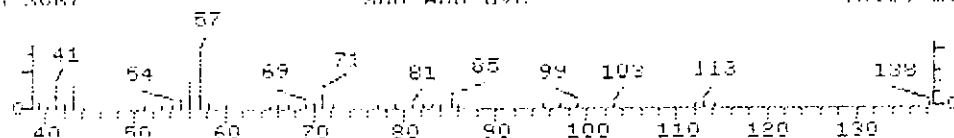
- | | |
|--|------------|
| 1. Heptane, 2,2,4-trimethyl- (801901) | 142 C10H22 |
| 2. Decane, 2,2,6-trimethyl- (901) | 184 C13H28 |
| 3. Hexane, 2,2,5,5-tetramethyl- (801901) | 142 C10H22 |
| 4. Heptane, 2,2-dimethyl- (801901) | 128 C9H20 |

Sample File: >05920 Spectrum #: 891
 Search speed: 3 Tilting option: S No. of ion ranges searched: 58

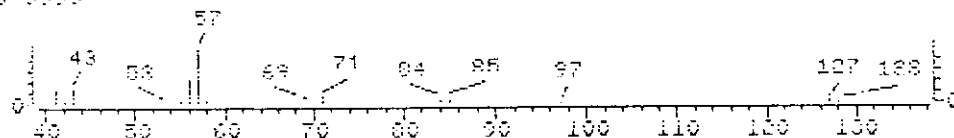
	Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C	R	IO
1.	60	14720742	1022	"RIGOR	38	43	2	0	94	14	30	13	
2.	60	62232922	1031	"RIGOR	39	48	2	0	91	13	30	12	
3.	60	1021814	967	"RIGOR	52	27	2	0	81	14	30	18	
4.	58	1021262	1093	"RIGOR	48	31	0	0	92	17	25	27	

Peak#: 65 Area: 22316. Est Conc: 89. Date: 02/01/93 20:48 Inst: C

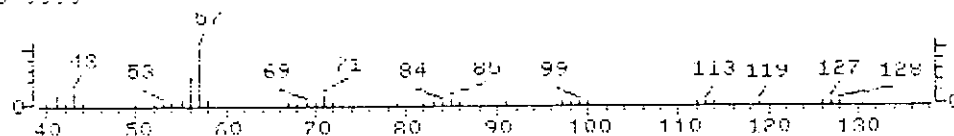
File >05920 004011:5-100 00400002 HP59700:011992:0 Scan 891
 Spk AB 3067 SUB ADD DVC 13.09 min.



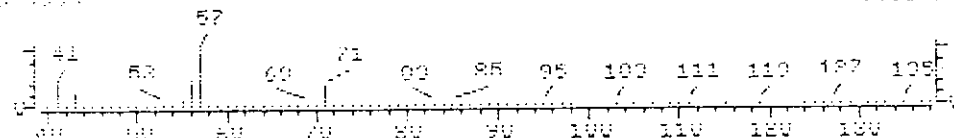
File >B1605 Heptane, 2,2,4-trimethyl- (801901) Scan 1020
 Spk AB 9999 0.00 min.



File >B1605 Decane, 2,2,6-trimethyl- (901) Scan 1031
 Spk AB 9999 0.00 min.



File >B1605 Hexane, 2,2,5,5-tetramethyl- (801901) Scan 987
 Spk AB 9999 0.00 min.



0280

ad. bond length RSE

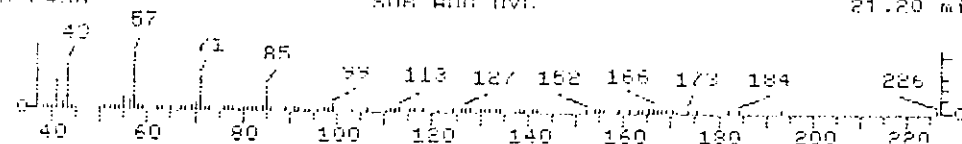
1. Tridecane, 6-propyl- (9011)	226.016834
2. Dodecane, 1-iodo- (801901)	296.0128251
3. Nonane, 3,7-dimethyl- (801901)	156.0118074
4. Dodecane, 2-methyl-6-propyl- (9011)	226.016834

Sample File: >D5920 Spectrum #: 1763
 Search speed: 3 Tilting option: S No. of ion ranges searched: 29

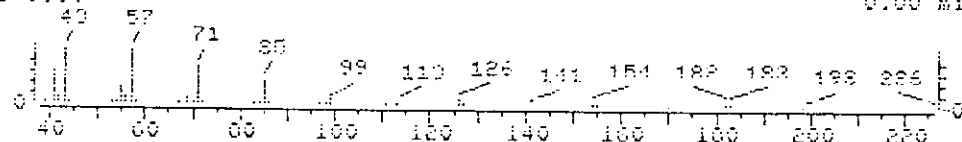
Peak#	Prob.	CAS #	CUN #	RUNIT	K	DK	#F16	F17	%	CUN	D	R	IO
1.	70*	55045108	6242	"B1GDB	24	55	2	0	26	19	32	56	
2.	59	4292192	6222	"B1GDB	100	29	1	1	62	36	21	50	
3.	59*	17302328	6100	"B1GDB	54	32	2	0	89	29	24	39	
4.	59*	55045084	6244	"B1GDB	65	54	3	0	85	21	22	33	

Peak#: 134 Area: 37673. Fat Conc: 88. Date: 02/01/93 20:48 Inst: C

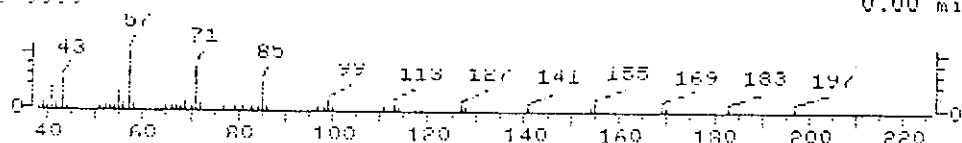
File >D5920 0060:118-100 0060000 H559700:011993:0 Scan 1763
 Spk Ab 2456 SUB AND RVC 21.20 min.



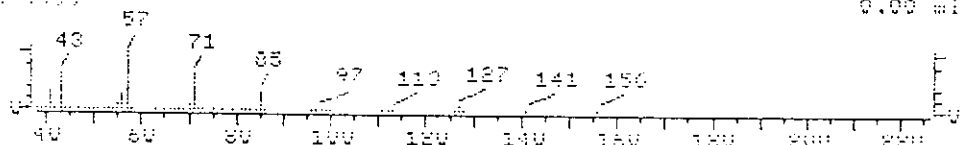
File >B1GDB Tridecane, 6-propyl- (9011) Scan 6247
 Spk Ab 0000 0.00 min.



File >B1GDB Dodecane, 1-iodo- (801901) Scan 6222
 Spk Ab 9999 0.00 min.



File >B1GDB Nonane, 3,7-dimethyl- (801901) Scan 6100
 Spk Ab 9999 0.00 min.



0281

rod scanned length RSE

1. 7-Oxabicyclo[4.1.0]heptane (801901)
2. Propanenitrile, 3-(ethylamino)- (901)
3. Pyridine, 2,3,4,5-tetrahydro- (801901)
4. Cyclopropane, 1,1,2,2-tetramethyl- (801901)

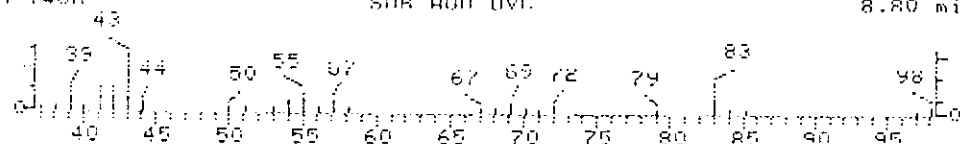
98 C6H10N
98 C5H10N2
83 C5H9N
98 C7H14

Sample File: >D5920 Spectrum #: 428
Search speed: 3 Tilting option: S No. of ion ranges searched: 59

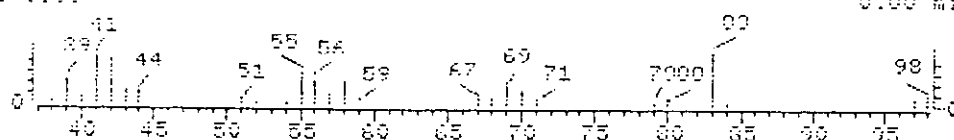
Peak#	CAS #	CIN #	ROOT	K	OK	#FLG	FILT	%	CON	C	I	R	IO
1.	52*	284204	5586	"RIGOR	36	64	2	0	47	17	20	14	
2.	51*	21639429	1367	"RIGOR	26	64	2	0	92	34	12	14	
3.	25*	505180	5562	"RIGOR	23	70	3	0	94	46	7	12	
4.	24*	4127473	5593	"RIGOR	45	52	2	0	51	55	7	21	

Peak#: 25 Area: 21374. Est Conc: 85. Date: 02/01/93 20:48 Inst: C

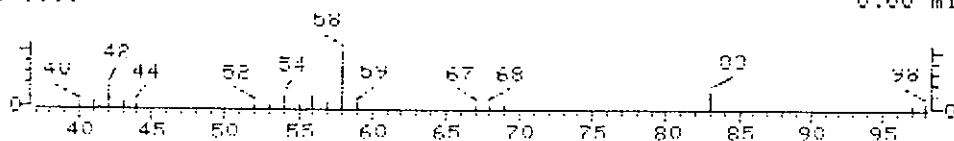
File >D5920 00901118-100 0060002 HP59700;011993;0 Scan 428
Spk Ab 1408 SUR R00 DVC 8.80 min.



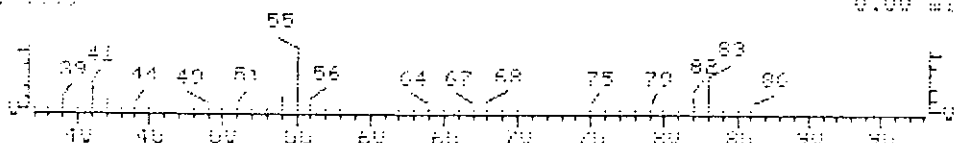
File >D1000 7-Oxabicyclo[4.1.0]heptane (801901) Scan 5536
Spk Ab 5500 0.00 min.



File >B1608 Propanenitrile, 3-(ethylamino)- (901) Scan 1367
Spk Ab 9999 0.00 min.



File >B1608 Pyridine, 2,3,4,5-tetrahydro- (801901) Scan 0662
Spk Ab 9999 0.00 min.



0282

1. Decane, 2,2,8-trimethyl- (9C11)
2. Decane, 2,2,7-trimethyl- (9C11)
3. Decane, 2,2,6-trimethyl- (9C11)
4. Heptane, 2,2,4,6,6-pentamethyl- (8C19C11)

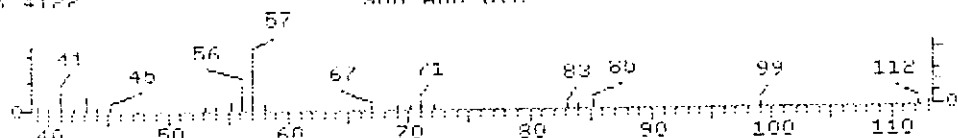
184 C13H28
184 C13H28
184 C13H28
170 C12H26

Sample File: >009200 Spectrum #: 808
Search speed: 3 Tilting option: S No. of ion ranges searched: 58

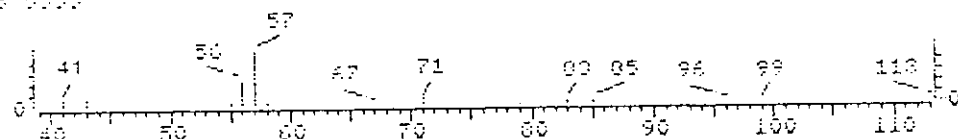
	Prob.	CAS #	CON #	RUOT	K	DK	#-LG	TILT	%	CON	C	I	R	IO
1.	28	62238011	1035	"BIGDB	41	46	2	0	93	4	55	13		
2.	28	62232994	1033	"BIGDB	55	33	2	0	82	4	55	19		
3.	28	62232972	1031	"BIGDB	50	32	2	0	82	3	55	17		
4.	26	13425826	1186	"BIGDB	46	29	0	0	100	2	45	26		

Peak#: 58 Area: 21101. Est Conc: 84. Date: 02/01/93 20:48 Inst: C

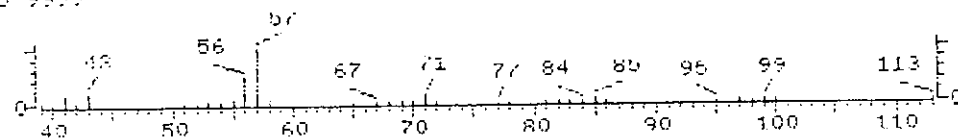
File >009200 006011;5-100 00600002 HP59700;011993;0 Scan 808
Spk Ab 4122 SHR ADD DVC 12.32 min.



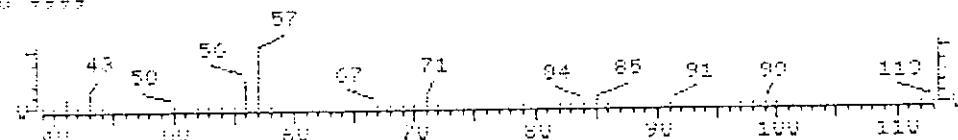
File >01000 Decane, 2,2,8-trimethyl- (9C11) Scan 1035
Spk Ab 0000 0.00 min.



File >01008 Decane, 2,2,7-trimethyl- (9C11) Scan 1033
Spk Ab 9999 0.00 min.



File >01008 Decane, 2,2,6-trimethyl- (9C11) Scan 1031
Spk Ab 9999 0.00 min.



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-101

Lab Name: IEA/CT

Contract:

Lab Code: IEA/CT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix: (soil/water) SOIL

Lab Sample ID: 0060003

0283

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: C5921.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL)

Date Analyzed: 02/01/93

Injection Volume: 2.0(uL)

Dilution Factor: 8.0

GPC Cleanup: (Y/N) Y pH: 7.3

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

108-95-2-----	Phenol	3100	U
111-44-4-----	bis(2-Chloroethyl) ether	3100	U
95-57-8-----	2-Chlorophenol	3100	U
541-73-1-----	1,3-Dichlorobenzene	3100	U
106-46-7-----	1,4-Dichlorobenzene	3100	U
95-50-1-----	1,2-Dichlorobenzene	3100	U
95-48-7-----	2-Methylphenol	3100	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	3100	U
106-44-5-----	4-Methylphenol	3100	U
621-64-7-----	N-Nitroso-di-n-propylamine	3100	U
67-72-1-----	Hexachloroethane	3100	U
98-95-3-----	Nitrobenzene	3100	U
78-59-1-----	Isophorone	3100	U
88-75-5-----	2-Nitrophenol	3100	U
105-67-9-----	2,4-Dimethylphenol	41	J
111-91-1-----	bis(2-Chloroethoxy)methane	3100	U
120-83-2-----	2,4-Dichlorophenol	3100	U
120-82-1-----	1,2,4-Trichlorobenzene	3100	U
91-20-3-----	Naphthalene	700	J
106-47-8-----	4-Chloroaniline	3100	U
87-68-3-----	Hexachlorobutadiene	3100	U
59-50-7-----	4-Chloro-3-methylphenol	3100	U
91-57-6-----	2-Methylnaphthalene	430	J
77-47-4-----	Hexachlorocyclopentadiene	3100	U
88-06-2-----	2,4,6-Trichlorophenol	3100	U
95-95-4-----	2,4,5-Trichlorophenol	7400	U
91-58-7-----	2-Chloronaphthalene	3100	U
88-74-4-----	2-Nitroaniline	7400	U
131-11-3-----	Dimethylphthalate	3100	U
208-96-8-----	Acenaphthylene	2500	J
606-20-2-----	2,6-Dinitrotoluene	3100	U
99-09-2-----	3-Nitroaniline	7400	U
83-32-9-----	Acenaphthene	240	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-101

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix: (soil/water) SOIL

Lab Sample ID: 0060003

0284

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: C5921.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL)

Date Analyzed: 02/01/93

Injection Volume: 2.0(uL)

Dilution Factor: 8.0

GPC Cleanup: (Y/N) Y pH: 7.3

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

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

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-101

Lab Name: IEA/CT

Contract:

Lab Code: IEACT

Case No.: Z0060 SAS No.:

SDG No.: Z0060

0285

Matrix: (soil/water) SOIL

cmc
2/12/93

Lab Sample ID: 0060003

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: C5921.D

Level: (low/med) LOW

Date Received: 01/19/93

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 01/20/93

Concentrated Extract Volume: 500(uL)

Date Analyzed: 02/01/93

Injection Volume: 2.0(uL)

Dilution Factor: 155.0

GPC Cleanup: (Y/N) Y

pH: 7.3

CONCENTRATION UNITS:

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

Number TICs found: 6

cmc 2/12/93

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATION PRODUCT	8.37	59000	JAB
2.	UNKNOWN	7.07	3700	JB
3.		10.37	3100	J
4.		12.38	1900	
5.		10.35	1100	
6.	UNKNOWN ALKANE	22.46	750	
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

0286

QUANT REPORT

Operator ID: MSC Quant Rev: 6 Quant Time: 930201 22:45
 Output File: ^C5921::QT Injected at: 930201 21:50
 Data File: >C5921::C1 Dilution Factor: 155.0400
 Name: 0060;;;S-101
 Misc: 0060003 HP5970C;011993;012093;LLS;8.0;;;7.3;C0952 BT# 9

ID File: I_EPA::N1
 Title: CLP-OLM01.8 BNA COMPOUNDS
 Last Calibration: 930201 13:46

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.10	151.8	25702	40.00	ug	92
2)	Pyridine	5.92	52.0	659	133.47	ug	97
3)	2-Chlorophenol-d4	11.62	132.0	12897	2440.76	ug	93
4)	2-Fluorophenol	9.11	111.8	9646	2089.25	ug	69
5)	Phenol-d5	11.34	98.8	14498	2171.33	ug	92
6)	Phenol	11.36	93.9	413	61.83	ug	76
11)	1,2-Dichlorobenzene-d4	12.57	152.0	5837	1556.34	ug	93
18)	*Naphthalene-d8	15.35	135.9	107963	40.00	ug	98
19)	Nitrobenzene-d5	13.55	81.8	8649	1174.84	ug	91
23)	2,4-Dimethylphenol	14.54	106.8	271	41.37	ug	99
2)	Naphthalene	15.41	127.9	11357	702.86	ug	86
31)	2-Methylnaphthalene	17.21	141.9	5302	431.41	ug	91
32)	*Acenaphthene-d10	20.01	163.9	62886	40.00	ug	86
36)	2-Fluorobiphenyl	18.23	171.8	19754	1606.33	ug	87
40)	Acenaphthylene	19.61	152.0	41596	2542.37	ug	91
43)	Acenaphthene	20.08	152.9	3051	245.60	ug	83
45)	4-Nitrophenol	20.23	100.0	166	89.86	ug	82
46)	Dibenzofuran	20.49	167.8	8312	504.03	ug	96
50)	Fluorene	21.42	165.9	5338	461.44	ug	95
52)	2,4,6-Tribromophenol	22.10	329.6	9802	2534.84	ug	84
53)	*Phenanthrene-d10	23.91	187.9	129976	40.00	ug	98
58)	Pentachlorophenol	23.57	265.6	400	123.11	ug	93
59)	Phenanthrene	23.96	177.9	65876	3097.23	ug	96
68)	Carbazole	24.51	166.8	22451	3565.90	ug	96
61)	Anthracene	24.08	177.9	65810	3081.68	ug	96
62)	Di-n-butylphthalate	25.56	148.0	4984	166.14	ug	87
63)	Fluoranthene	27.16	201.9	158727	6962.74	ug	98
64)	*Chrysene-d12	31.30	240.0	104060	40.00	ug	89
65)	Pyrene	27.77	201.9	163142	6862.64	ug	93
66)	Terphenyl-d14	28.16	244.0	33525	1817.85	ug	95
67)	Butylbenzylphthalate	29.35	140.0	3420	254.89	ug	38
68)	3,3'-Dichlorobenzidine	30.00	251.9	3706	1247.95	ug	32
69)	Benzo(a)anthracene	31.24	228.0	80934	3925.40	ug	89
70)	Chrysene	31.39	228.0	86853	4886.92	ug	94
71)	bis(2-Ethylhexyl)phthalate	31.42	148.8	34477	1939.98	ug	73
72)	*Perylene-d12	38.15	264.0	44642	40.00	ug	98
73)	Di-n-octylphthalate	33.54	140.9	2970	230.04	ug	82
74)	Benzo(b)fluoranthene	35.93	252.0	27439	3193.03	ug	87
74)	Benzo(b)fluoranthene	35.98	252.0	41697	4852.21	ug	82
75)	Benzo(k)fluoranthene	35.93	252.0	27439	3349.02	ug	93
75)	Benzo(k)fluoranthene	35.98	252.0	41697	5089.25	ug	90
76)	Benzo(e)fluoranthene	37.51	252.0	41201	5477.79	ug	90

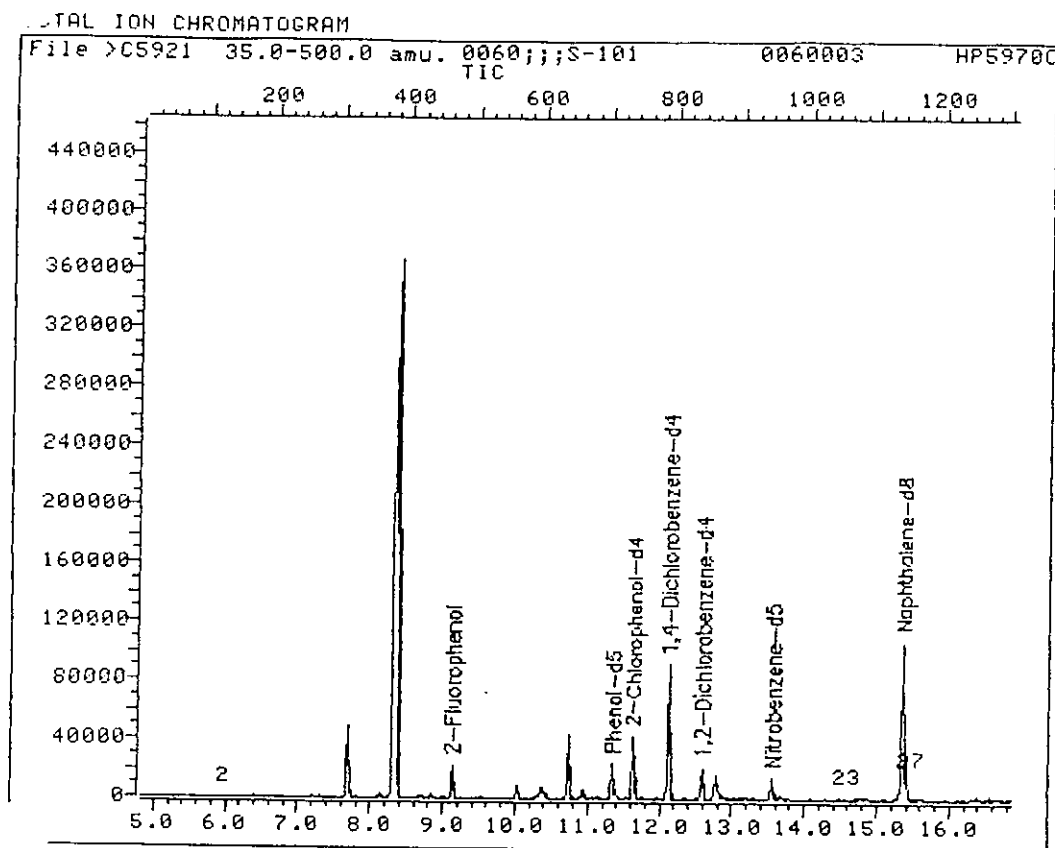
287

	Compound	R.T.	Q ion	Area	Conc	Units	q'
78)	Dibenz(a,h)anthracene	46.70	278.0	481	73.76	ug	97
✓ 79)	Benzo(g,h,i)perylene	49.04	276.0	4302	699.47	ug	74

* Compound is ISTD

Cmc2/a/a2

0288



Data File: >C5921::C1

Quant Output File: ^C5921::QT

Name: 0060;;;S-101

Misc: 0060003

HP5970C;011993;012093;LLS;8.0;;;7.3;C0952 BTL# 9

Id File: I_EPA::N1

Title: CLP-OLM01.8 BNA COMPOUNDS

Last Calibration: 930201 13:46

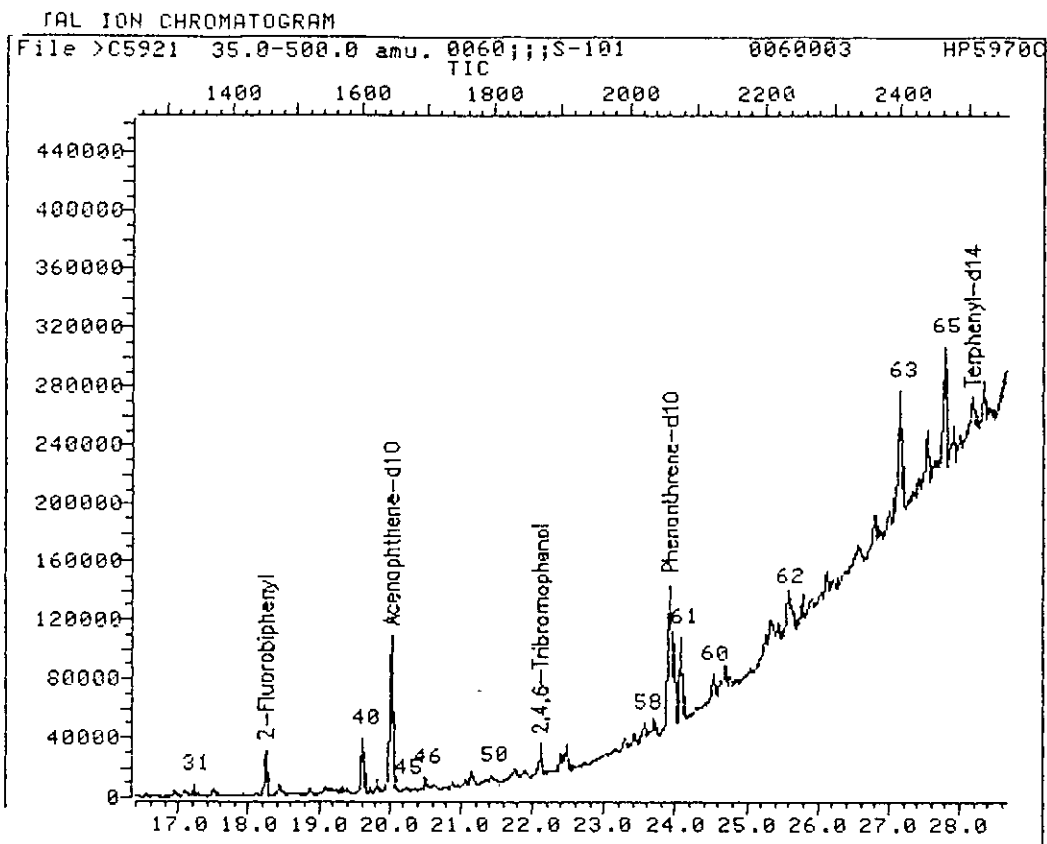
Operator ID: MSC

Quant Time: 930201 22:45

Injected at: 930201 21:50

TIC page 1 of 4

0289



Data File: >C5921::C1

Quant Output File: ^C5921::QT

Name: 0060;;;S-101

Misc: 0060003

HP5970C;011993;012093;LLS;8.0;;7.3;C0952 BTL# 9

Id File: I_EPA::N1

Title: CLP-OLM01.8 BNA COMPOUNDS

Last Calibration: 930201 13:46

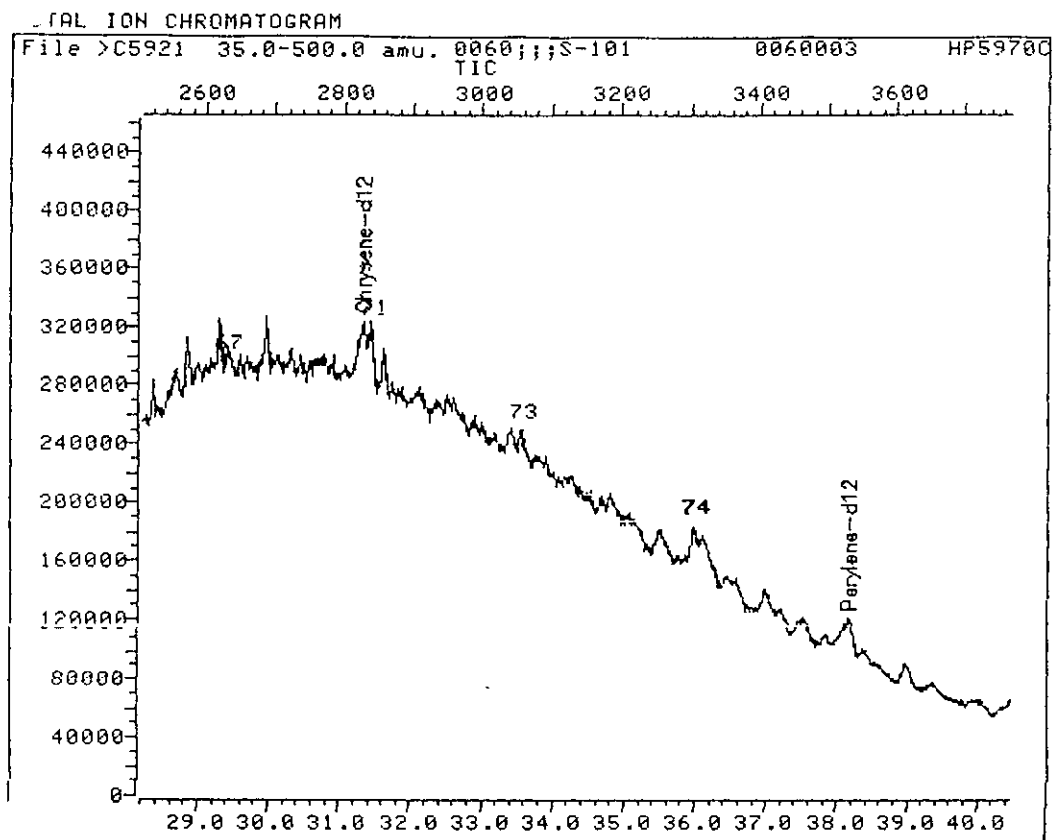
Operator ID: MSC

Quant Time: 930201 22:45

Injected at: 930201 21:50

TIC page 2 of 4

0290



Data File: >C5921::C1

Quant Output File: ^C5921::QT

Name: 0060;;;S-101

Misc: 0060003

HP5970C;011993;012093;LLS;8.0;;;7.3;C0952 BTL# 9

Id File: I_EPA::N1

Title: CLP-OLM01.8 BNA COMPOUNDS

Last Calibration: 930201 13:46

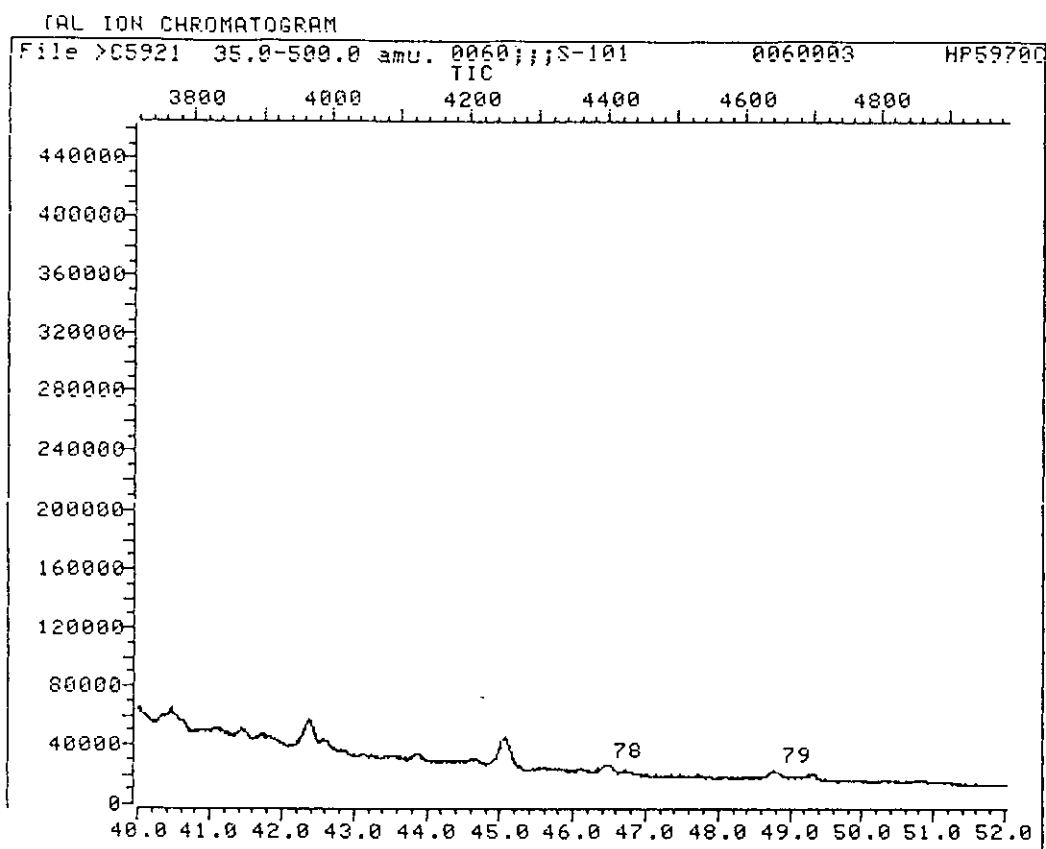
Operator ID: MSC

Quant Time: 930201 22:45

Injected at: 930201 21:50

TIC page 3 of 4

0291



Data File: >C5921::C1

Quant Output File: ^C5921::QT

Name: 0060;;;S-101

Misc: 0060003

HP5970C;011993;012093;LLS;8.0;;7.3;C0952 BTL# 9

Id File: I_EPA::N1

Title: CLP-OLM01.8 BNA COMPOUNDS

Last Calibration: 930201 13:46

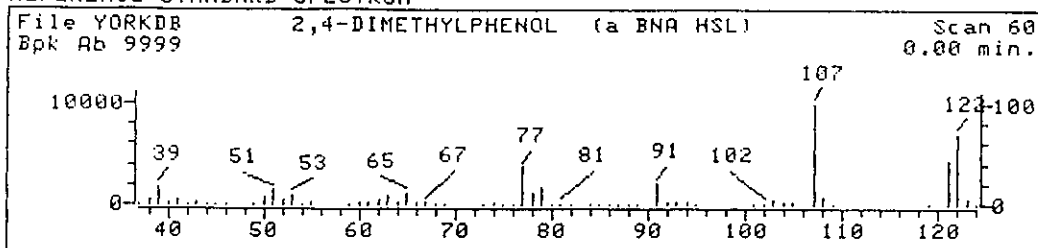
Operator ID: MSC

Quant Time: 930201 22:45

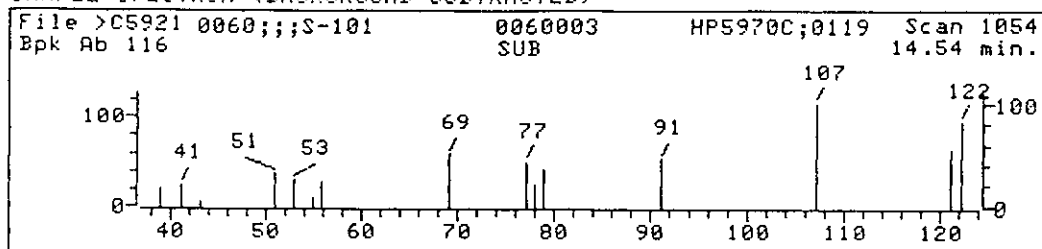
Injected at: 930201 21:50

TIC page 4 of 4

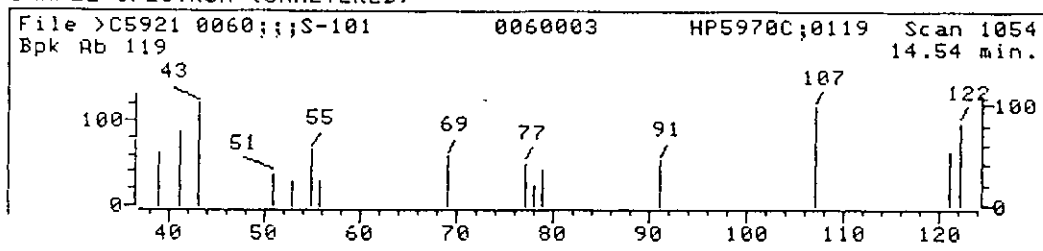
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5921::C1

Quant Output File: ^C5921::QT

Name: 0060;;;S-101

Misc: 0060003

HP5970C;011993;012093;LLS;8.0;;;7.3;C0952 BTL# 9

Quant Time: 930201 22:45

Quant ID File: I_EPA::N1

Injected at: 930201 21:50

Last Calibration: 930201 13:46

Compound No: 23

Compound Name: 2,4-Dimethylphenol

Scan Number: 1054

Retention Time: 14.54 min.

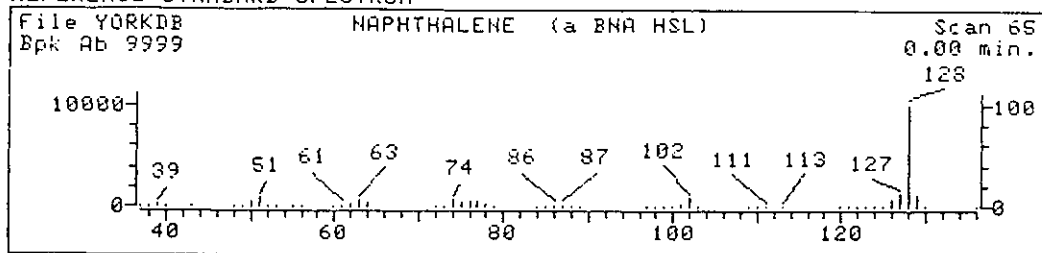
Quant Ion: 106.8

Area: 271

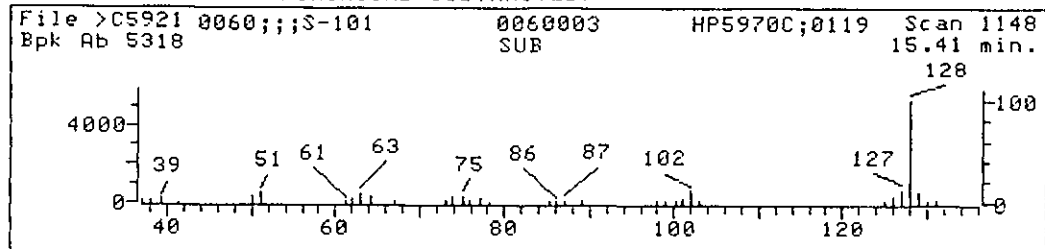
Concentration: 41.37 ug

q-value: 99

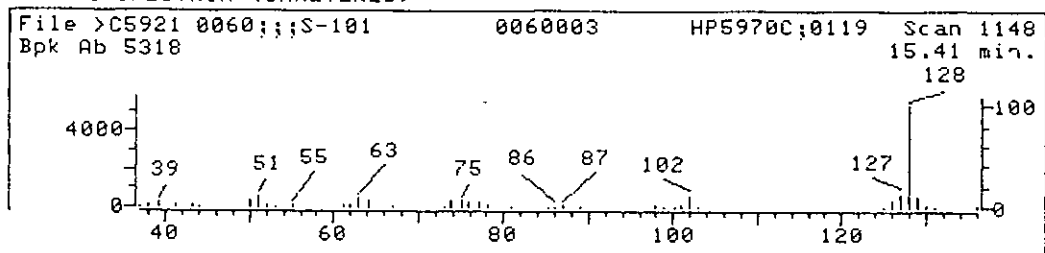
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5921::C1

Quant Output File: ^C5921::QT

Name: 0060;;;S-101

Misc: 0060003

HP5970C;011993;012093;LLS;8.0;;;7.3;C0952 BTL# 9

Quant Time: 930201 22:45

Quant ID File: I_EPA::N1

Injected at: 930201 21:50

Last Calibration: 930201 13:46

Compound No: 27

Compound Name: Naphthalene

Scan Number: 1148

Retention Time: 15.41 min.

Quant Ion: 127.9

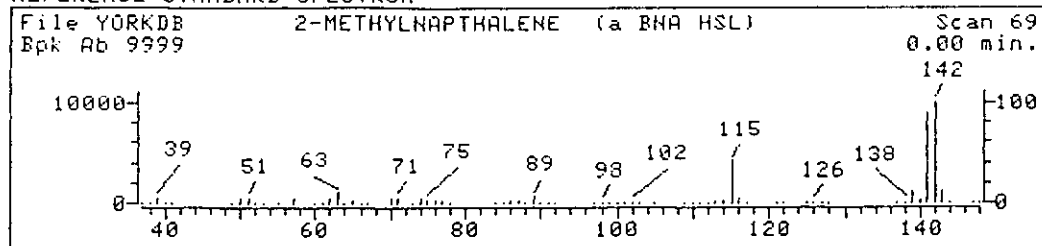
Area: 11357

Concentration: 702.86 ug

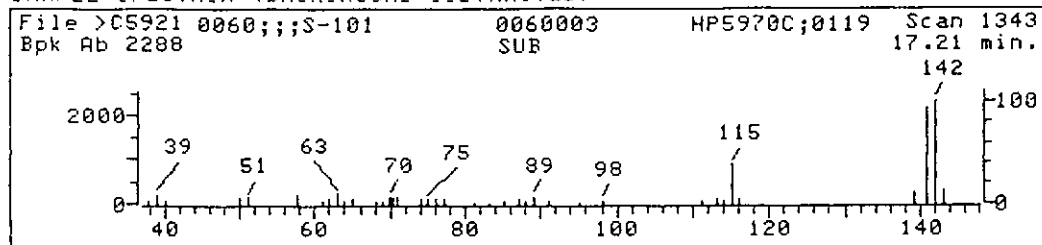
q-value: 86

0294

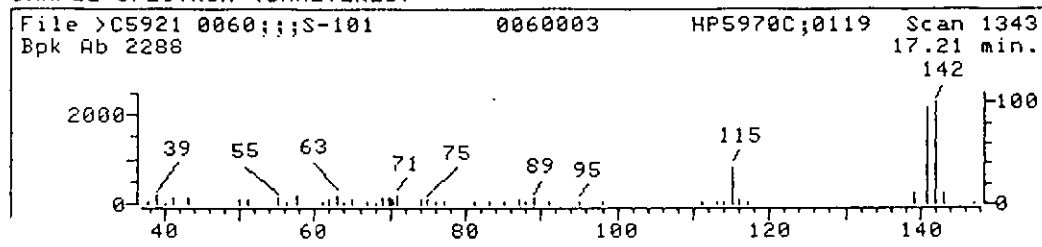
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



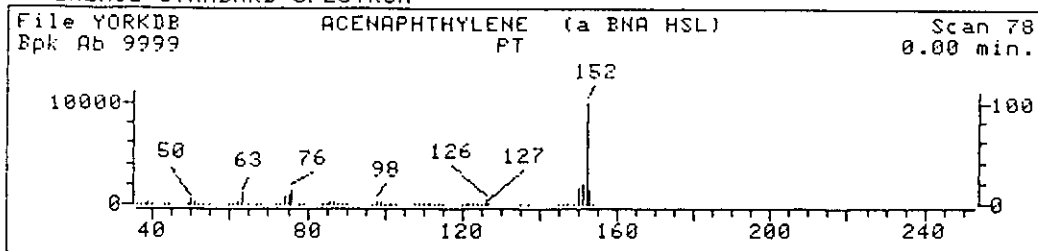
SAMPLE SPECTRUM (UNALTERED)



Data File: >C5921::C1 Quant Output File: ^C5921::QT
Name: 0060;;;S-101
Misc: 0060003 HP5970C;011993;012093;LLS;8.0;;;7.3;C0952 BTL# 9
Quant Time: 930201 22:45 Quant ID File: I_EPA::N1
Injected at: 930201 21:50 Last Calibration: 930201 13:46

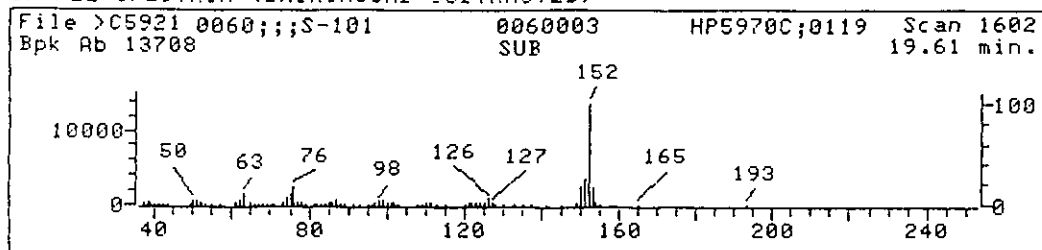
Compound No: 31
Compound Name: 2-Methylnaphthalene
Scan Number: 1343
Retention Time: 17.21 min.
Quant Ion: 141.9
Area: 5302
Concentration: 431.41 ug
q-value: 91

REFERENCE STANDARD SPECTRUM

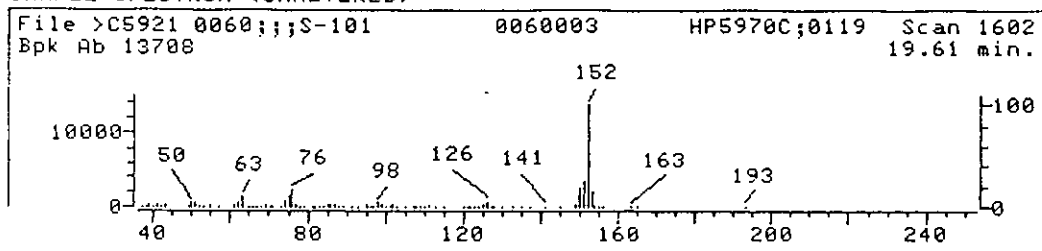


0295

SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



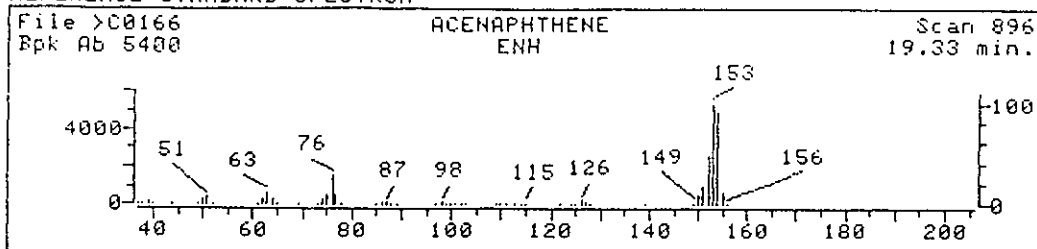
SAMPLE SPECTRUM (UNALTERED)



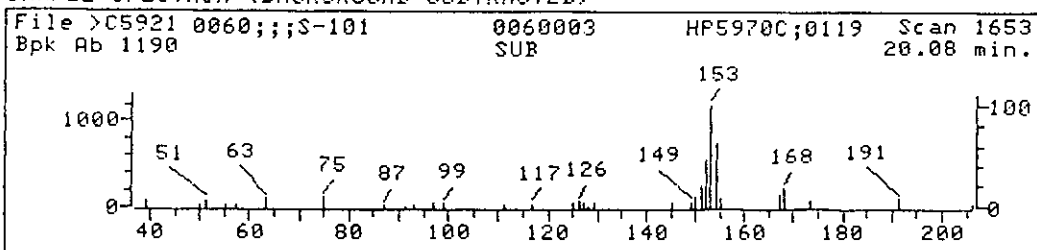
Data File: >C5921::C1 Quant Output File: ^C5921::QT
Name: 0060;;;S-101
Misc: 0060003 HP5970C;011993;012093;LLS;8.0;;;7.3;C0952 BTL# 9
Quant Time: 930201 22:45 Quant ID File: I_EPA::N1
Injected at: 930201 21:50 Last Calibration: 930201 13:46

Compound No: 40
Compound Name: Acenaphthylene
Scan Number: 1602
Retention Time: 19.61 min.
Quant Ion: 152.0
Area: 41596
Concentration: 2542.37 ug
q-value: 91

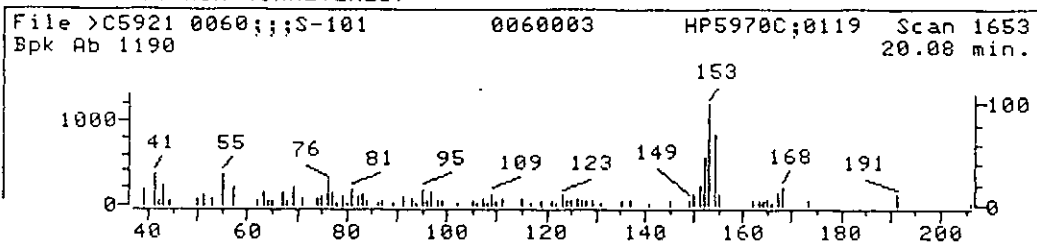
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5921::C1

Quant Output File: ^C5921::QT

Name: 0060;;;S-101

Misc: 0060003

HP5970C;011993;012093;LLS;8.0;;7.3;C0952 BTL# 9

Quant Time: 930201 22:45

Quant ID File: I_EPA::N1

Injected at: 930201 21:50

Last Calibration: 930201 13:46

Compound No: 43

Compound Name: Acenaphthene

Scan Number: 1653

Retention Time: 20.08 min.

Quant Ion: 152.9

Area: 3051

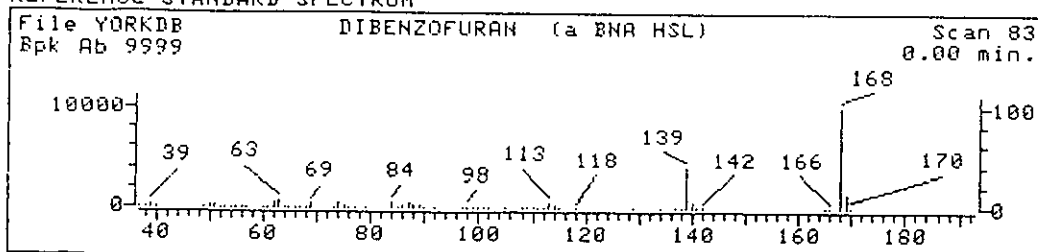
Concentration: 245.60 ug

q-value: 83

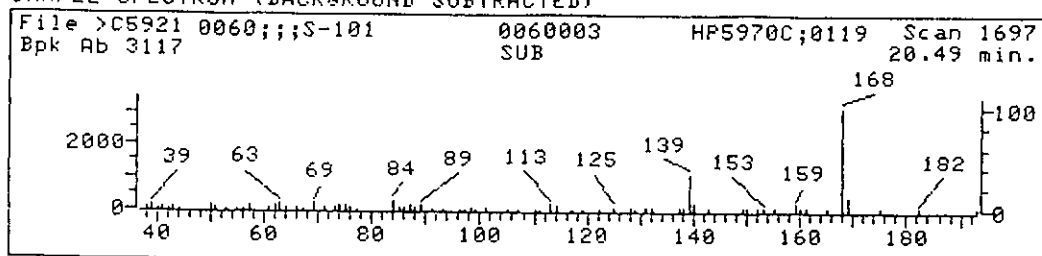
0296

0297

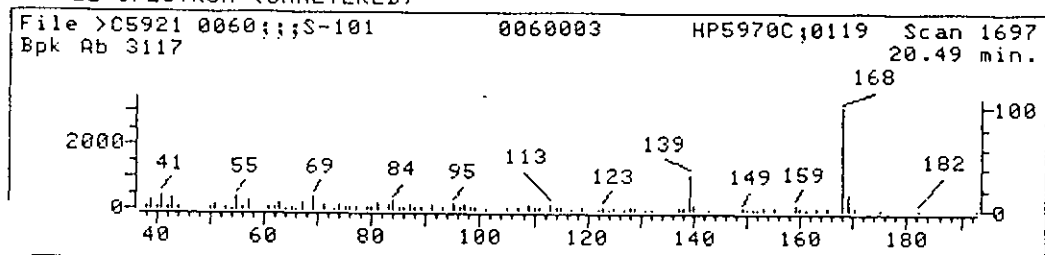
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5921::C1

Quant Output File: ^C5921::QT

Name: 0060;;;S-101

Misc: 0060003

HP5970C;011993;012093;LLS;8.0;;;7.3;C0952 BTL# 9

Quant Time: 930201 22:45

Quant ID File: I_EPA::N1

Injected at: 930201 21:50

Last Calibration: 930201 13:46

Compound No: 46

Compound Name: Dibenzofuran

Scan Number: 1697

Retention Time: 20.49 min.

Quant Ion: 167.8

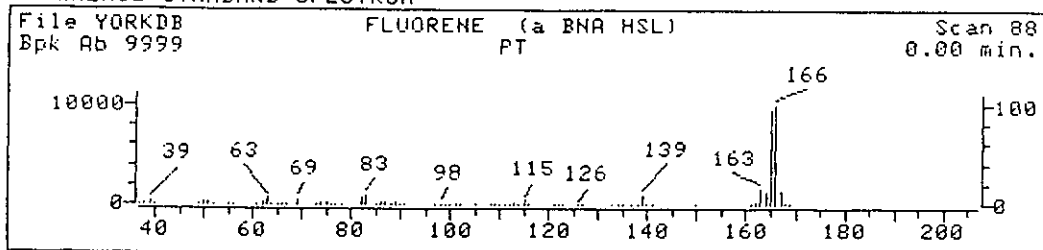
Area: 8312

Concentration: 504.03 ug

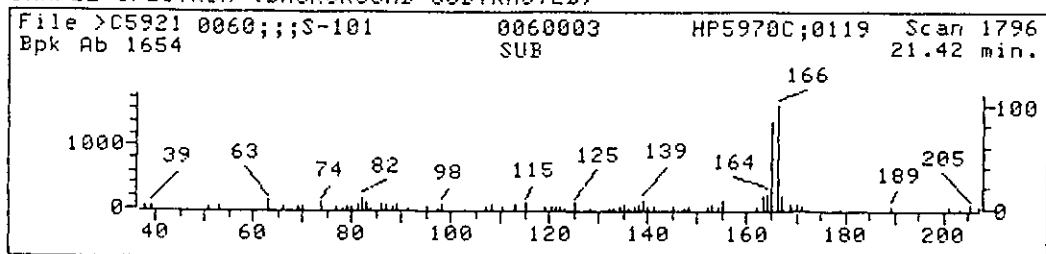
q-value: 96

0298

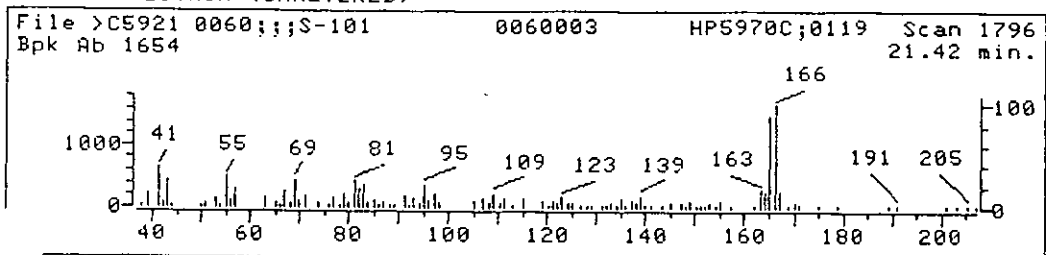
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5921::C1

Quant Output File: ^C5921::QT

Name: 0060;;;S-101

Misc: 0060003

HP5970C;011993;012093;LLS;8.0;;;7.3;C0952 BTL# 9

Quant Time: 930201 22:45

Quant ID File: I_EPA::N1

Injected at: 930201 21:50

Last Calibration: 930201 13:46

Compound No: 50

Compound Name: Fluorene

Scan Number: 1796

Retention Time: 21.42 min.

Quant Ion: 165.9

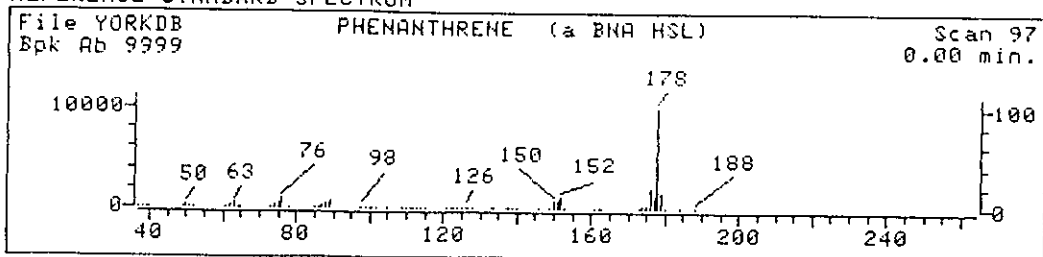
Area: 5338

Concentration: 461.44 ug

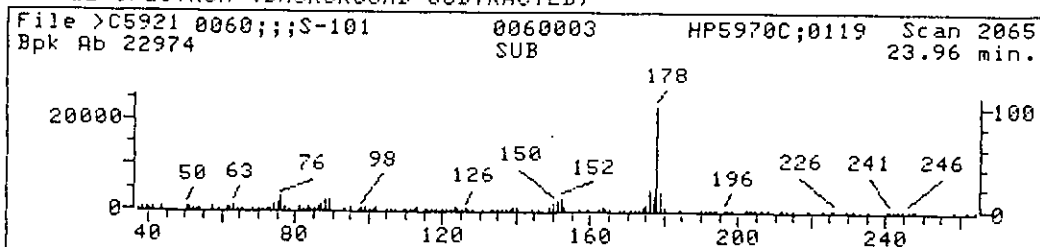
q-value: 95

0299

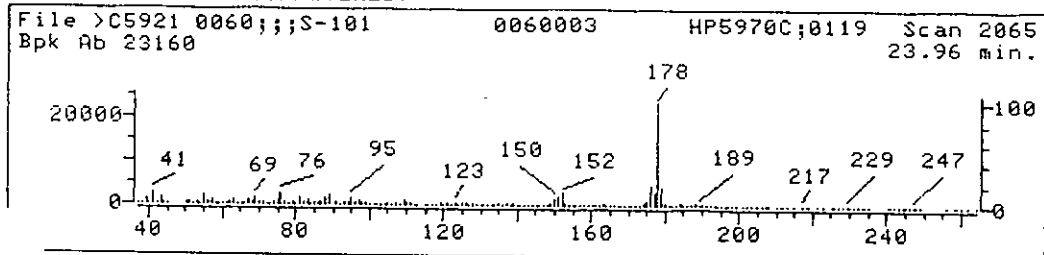
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5921::C1

Quant Output File: ^C5921::QT

Name: 0060;;;S-101

Misc: 0060003

HP5970C;011993;012093;LLS;8.0;;7.3;C0952 BTL# 9

Quant Time: 930201 22:45

Quant ID File: I_EPA::N1

Injected at: 930201 21:50

Last Calibration: 930201 13:46

Compound No: 59

Compound Name: Phenanthrene

Scan Number: 2065

Retention Time: 23.96 min.

Quant Ion: 177.9

Area: 65876

Concentration: 3097.23 ug

q-value: 96