9513356.0568

0041468

START

Analytical and Supporting Laboratory Quality Control Data For DOE - Hanford North Slope Site H-06-1

LEVEL IV Deliverable for Sample ES-A01-08 (ESE# CDMHNSS*40)

HRS # 13013T07

Prepared by: Environmental Science & Engineering, Inc.

June 1994

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SDG NARRATIVE

SDG No.: 50312
Pesticides/PCBs

1. The USEPA contract laboratory program statement of work for organics analysis dated 3/90 revision OLM01.8 was followed.

2. The following codes are used on the data report:
   NC = Not Confirmed by the other column.
   BDL = Below Detection Limit.

3. A power outage caused the data acquisition system to fail (6-14-94), and a break in the sequence. The sequence was restarted with the next CCS followed by the samples that were not acquired.

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Sample Date, Cross Reference & Methodologies Report

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
SAMPLE DATE CROSS REFERENCE AND METHODOLOGIES REPORT

CLIENT ID	LAB ID	COLLECT.	RECEIPT	CLASSIFICATION	EXTRACT.	ANALYSIS	DAYS, ACT/HT EXT	ANL	ESE BATCH
EA01-8-11	CDMHNSS*40	06/06/94	06/08/94	SCREEN, ALPHA, BETA	NA	06/08/94	NA	2/2	G50075
				PERCENT MOISTURE - ASTM D2216	NA	06/08/94	NA	2/180	G49949
				OCPS/PCBS - CLP SOW OLM01.8	06/08/94	06/15/94	2/14	7/40	G50312

FOOTNOTES: * = EXCEEDS CRITERIA ACT = ACTUAL HT = HOLDING TIME

95 7/5 4:03 PM

95133356.0574

Analytical Data

Environmental Science & Engineering DATE 07/05/94 STATUS : PAGE 1
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		EA01-8-11
PARAMETERS	STORET	CDMHNSS
UNITS	METHOD	40
DATE		06/06/94
TIME		15:48
FIELD I.D.		29H06L(E)A01
#	0	
SITE #	96274	94H06L
	0	
CHAIN OF CUSTODY	96793	21
#	0	
SCREEN,GR. ALPHA,	96636	52.0
(ESTIMATE)NCI/KG-WET	R	
SCREEN,GR. BETA,	96637	24.4
(ESTIMATE)NCI/KG-WET	R	
MOISTURE	70320	6.4
%WET WT	I	
Aldrin	39333	<1.78
UG/KG-DRY	CLP90	
alpha-BHC	39076	<1.78
UG/KG-DRY	CLP90	
beta-BHC	34257	<1.78
UG/KG-DRY	CLP90	
delta-BHC	34262	<1.78
UG/KG-DRY	CLP90	
gamma-BHC (Lindane)	39783	<1.78
UG/KG-DRY	CLP90	
gamma-Chlordane	39811	<1.78
UG/KG-DRY	CLP90	
alpha-Chlordane	97501	<1.78
UG/KG-DRY	CLP90	
4,4'-DDD	39311	<3.56
UG/KG-DRY	CLP90	
4,4'-DDE	39321	<3.56
UG/KG-DRY	CLP90	
4,4'-DDT	39301	7.55
UG/KG-DRY	CLP90	
Dieldrin	39383	<3.56
UG/KG-DRY	CLP90	
Endosulfan I	34364	<1.78
UG/KG-DRY	CLP90	
Endosulfan II	34359	<3.56
UG/KG-DRY	CLP90	
Endosulfan sulfate	34354	<3.56
UG/KG-DRY	CLP90	
Endrin	39393	<3.56
UG/KG-DRY	CLP90	
Endrin ketone	98591	<3.56
UG/KG-DRY	CLP90	
Endrin aldehyde	34369	<3.56
UG/KG-DRY	CLP90	
Heptachlor	39413	<1.78
UG/KG-DRY	CLP90	
Heptachlor epoxide	39423	<1.78
UG/KG-DRY	CLP90	
Methoxychlor	39481	<17.8
UG/KG-DRY	CLP90	

Environmental Science & Engineering DATE 07/05/94 STATUS : PAGE 2
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S			EA01-8-11
PARAMETERS		STORET	CDMHNSS
	UNITS	METHOD	40
DATE			06/06/94
TIME			15:48
Toxaphene		39403	<178
	UG/KG-DRY	CLP90	
Aroclor-1016		39514	<35.6
	UG/KG-DRY	CLP90	
Aroclor-1221		39491	<71.2
	UG/KG-DRY	CLP90	
Aroclor-1232		39495	<35.6
	UG/KG-DRY	CLP90	
Aroclor-1242		39499	<35.6
	UG/KG-DRY	CLP90	
Aroclor-1248		39503	<35.6
	UG/KG-DRY	CLP90	
Aroclor-1254		39507	<35.6
	UG/KG-DRY	CLP90	
Aroclor-1260		39511	<35.6
	UG/KG-DRY	CLP90	
ALDRIN		39333	<0.712
	UG/KG-DRY	8080/3540-G	
BHC,A		39076	<0.712
	UG/KG-DRY	8080/3540-G	
BHC,B		34257	<0.712
	UG/KG-DRY	8080/3540-G	
BHC,D		34262	<0.712
	UG/KG-DRY	8080/3540-G	
BHC,G(LINDANE)		39783	<0.712
	UG/KG-DRY	8080/3540-G	
CHLORDANE		39351	<3.56
	UG/KG-DRY	8080/3540-G	
DDD,PP'		39311	<0.712
	UG/KG-DRY	8080/3540-G	
DDE,PP'		39321	<0.712
	UG/KG-DRY	8080/3540-G	
DDT,PP'		39301	14.9
	UG/KG-DRY	8080/3540-G	
DIELDRIN		39383	<0.712
	UG/KG-DRY	8080/3540-G	
ENDOSULFAN,A		34364	<0.712
	UG/KG-DRY	8080/3540-G	
ENDOSULFAN,B		34359	<0.712
	UG/KG-DRY	8080/3540-G	
ENDOSULFAN SULFATE		34354	<0.712
	UG/KG-DRY	8080/3540-G	
ENDRIN		39393	<0.997
	UG/KG-DRY	8080/3540-G	
ENDRIN ALDEHYDE		34369	<0.712
	UG/KG-DRY	8080/3540-G	
HEPTACHLOR		39413	<0.712
	UG/KG-DRY	8080/3540-G	
HEPTACHLOR EPOXIDE		39423	<0.712
	UG/KG-DRY	8080/3540-G	
METHOXYCHLOR		39481	<0.712
	UG/KG-DRY	8080/3540-G	

Environmental Science & Engineering DATE 07/05/94 STATUS : PAGE 3
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S			EA01-8-11
PARAMETERS		STORET	CDMHNSS
	UNITS	METHOD	40
DATE			06/06/94
TIME			15:48
TOXAPHENE		39403	<71.2
	UG/KG-DRY	8080/3540-G	
PCB-1016		39514	<14.2
	UG/KG-DRY	8080/3540-G	
PCB-1221		39491	<14.2
	UG/KG-DRY	8080/3540-G	
PCB-1232		39495	<14.2
	UG/KG-DRY	8080/3540-G	
PCB-1242		39499	<14.2
	UG/KG-DRY	8080/3540-G	
PCB-1248		39503	<14.2
	UG/KG-DRY	8080/3540-G	
PCB-1254		39507	<14.2
	UG/KG-DRY	8080/3540-G	
PCB-1260		39511	<14.2
	UG/KG-DRY	8080/3540-G	

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PESTICIDES & PCBS

QC SUMMARY

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

GC Column(1): DB608 ID: .53 (mm) GC Column(2): DB1701 ID: .53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK1	100	78	97	99			0
02	H06LEA01	81	62	81	85			0
03	H06LEA01MS	79	63	82	85			0
04	H06LEA01MS	76	68	79	82			0
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS

TCX = Tetrachloro-m-xylene (60 -150)
DCB = Decachlorobiphenyl (60 -150)

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

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No.: SDG No.: 50312

Matrix Spike - EPA Sample No.: H06LEA01

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	18	0.0	15	83	46-127
Heptachlor	18	0.0	14	78	35-130
Aldrin	18	0.0	14	78	34-132
Dieldrin	36	0.0	30	83	31-134
Endrin	36	0.0	31	86	42-139
4,4'-DDT	36	7.5	38	85	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
gamma-BHC (Lindane)	18	14	78	6	50	46-127
Heptachlor	18	14	78	0	31	35-130
Aldrin	18	13	72	8	43	34-132
Dieldrin	36	29	81	2	38	31-134
Endrin	36	29	81	6	45	42-139
4,4'-DDT	36	42	96	12	50	23-134

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

* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK1

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

Lab Sample ID: MB*NONE*1 Lab File ID:

Matrix:(soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) Y Date Extracted: 06/08/94

Date Analyzed (1): 06/15/94 Date Analyzed (2): 06/15/94

Time Analyzed (1): 2136 Time Analyzed (2): 2218

Instrument ID (1): HP58909 Instrument ID (2): HP58909

GC Column (1): DB608 ID:.53 (mm) GC Column (2): DB1701 ID:.53 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	H06LEA01	CDMHNSS*40	06/15/94	06/15/94
02	H06LEA01MS	SPM1*CDMHNSS*	06/15/94	06/15/94
03	H06LEA01MSD	SPM2*CDMHNSS*	06/15/94	06/16/94
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

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SAMPLE DATA

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H06LEA01

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

Matrix: (soil/water) SOIL Lab Sample ID: CDMHNSS*40

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 6 decanted: (Y/N) Y Date Received: 06/08/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/15/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.2 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	7.5	
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.6	U
742-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5566-34-7	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	71.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	36.	U
11096-82-5	Aroclor-1260	36.	U

Software Version: 4.0<1C29>
Sample Name : CDMHNSS*40 Time : 6/16/94 08:52 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/15/94 10:18 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A082.RAW
Result File : C:\TC4\DATA1\992A082.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A082.RST
Proc Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A082.RST
Calib Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A082.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 6193.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 28

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	4.755		7124	B	940	-------
3	5.191	TCX	151547	B	43723	-0.1337
5	5.544		7485	V	1323	-------
7	6.128		13106	V	2817	-------
10	9.171		10464	B	1559	-------
11	9.523		7868	B	1790	-------
12	10.087		13372	B	1759	-------
17	16.065		6347	B	899	-------
18	16.968	P,P'-DDD	22710	B	4116	-0.1271
20	17.902	P,P'-DDT	85937	*B	17404	-0.0850
21	18.452	ENDOSULFAN SULFATE	17816	B	3189	-0.3221
22	18.654		33641	V	5841	-------

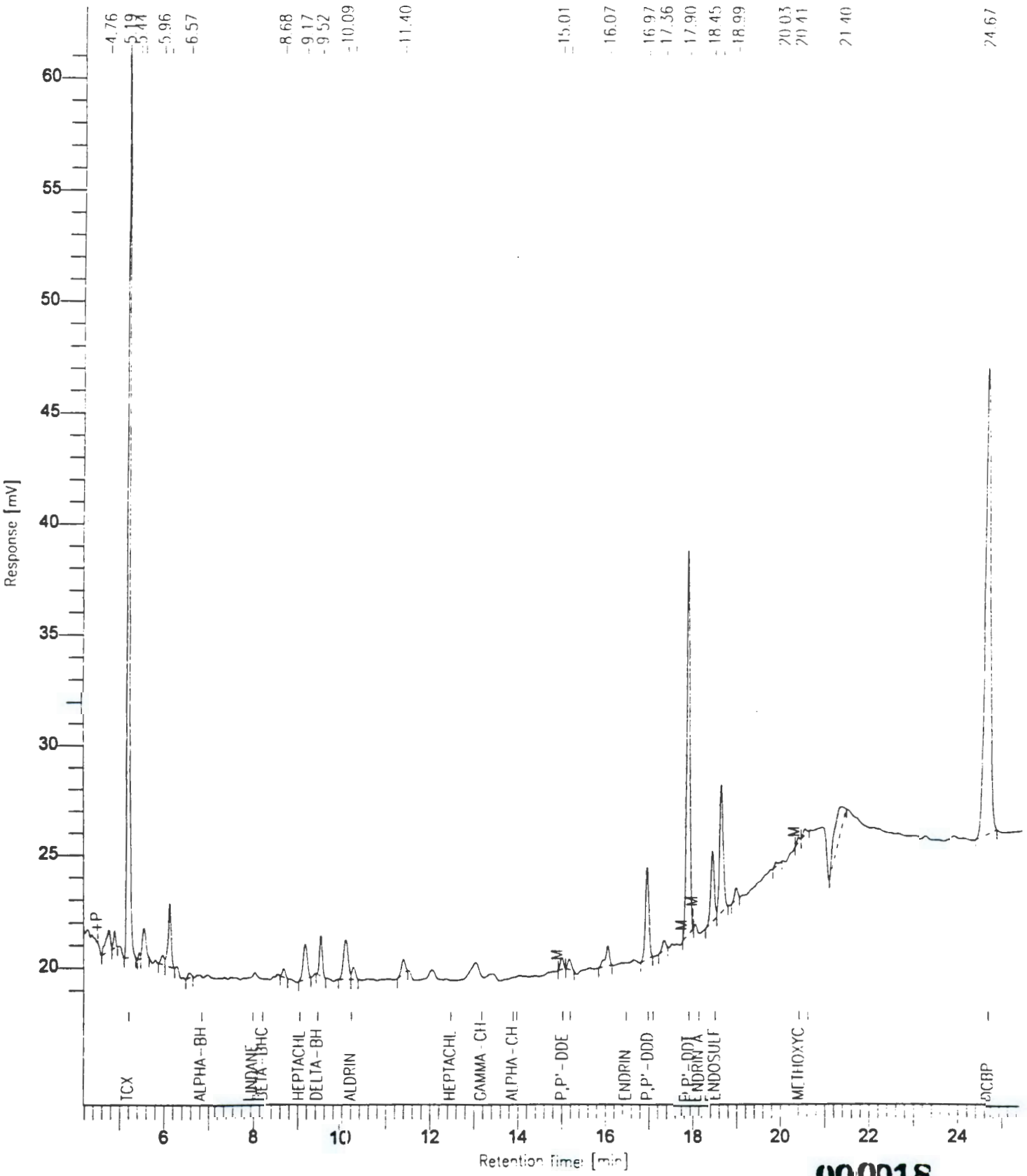
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
27	21.402		21821	B	827	-------
28	24.668	DCBP	179860	B	21090	-0.0962
			579099		107276	

9513356.0587

Chromatogram

Sample Name : CDMHNSS*40
FileName : C:\TC4\DATA1\992A082.RAW
Method :
Start Time : 4.18 min End Time : 25.48 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 6/16/94 08:52 AM
Time of Injection: 6/15/94 10:18 PM
Low Point : 18.05 mV High Point : 61.09 mV
Plot Scale: 43.0 mV



000018

Software Version: 4.0<1C29>
Sample Name : CDMHNSS*40 Time : 6/16/94 10:31 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/15/94 11:01 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B083.RAW
Result File : C:\TC4\DATA1\992B083.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B083.RST
Proc Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B083.RST
Calib Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B083.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 11070.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 35

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
2	3.219		15382	V	2986	-------
3	3.378	TCX	316820	*B	115511	-0.0592
9	4.357		37765	V	6069	-------
11	4.674		22260	V	4949	-------
12	4.916		22760	V	6660	-------
15	5.812		15840	V	1276	-------
17	6.980	BETA-BHC NC	15356	V	2182	-0.4278
18	7.400		14016	B	2759	-------
19	7.838		25519	B	2376	-------
20	8.864	ENDOSULFAN A NC	17174	B	1580	0.1778
22	10.073	DIELDRIN NC	15852	B	1705	-0.0595
24	11.254		45598	B	5452	-------

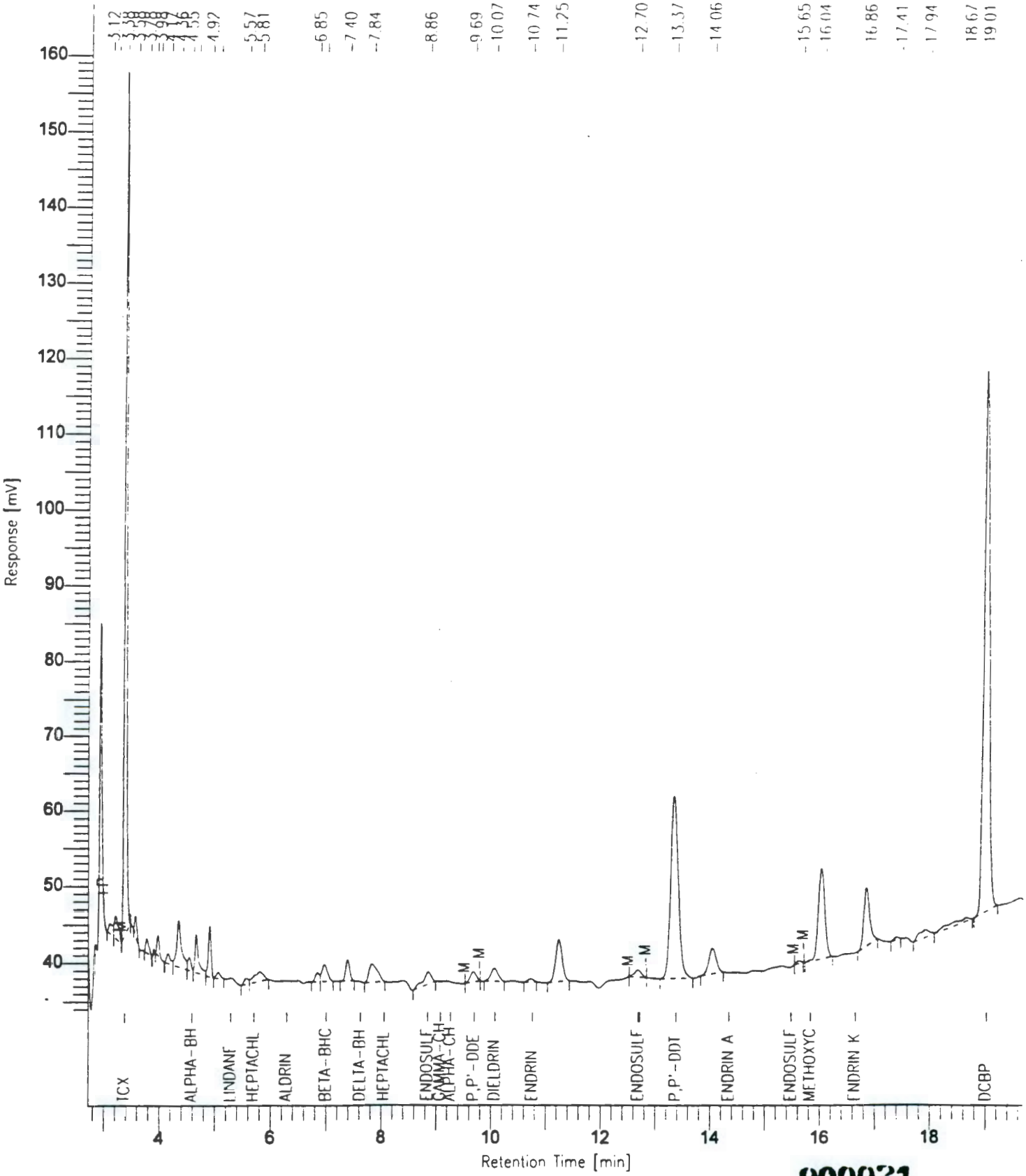
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
26	13.369	P,P'-DDT Conf	235498	B	24220	-0.1485
27	14.059		31344	B	3309	-------
29	16.043		98400	B	11912	-------
30	16.858		56267	B	7738	-------
32	17.939		14087	B	947	-------
33	18.669		15213	V	464	-------
34	19.007	DCBP	486468	B	71850	-0.0582
35	21.715		355641	B	486	-------
			1857259		274432	

9513356.0590

Chromatogram

Sample Name : CDMHNSS*40
FileName : C:\TC4\DATA1\992B083.RAW
Method :
Start Time : 2.72 min End Time : 19.69 min
Scale Factor: 0.0 Plot Offset: 34 mV

Sample #:
Date : 6/16/94 10:31 AM
Time of Injection: 6/15/94 11:01 PM
Low Point : 33.56 mV High Point : 160.57 mV
Plot Scale: 127.0 mV



000021

9513356.0591

STANDARDS DATA

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

Instrument ID: HP58909 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB608 ID: .53 (mm) Date(s) Analyzed: 06/13/94 06/13/94

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	6.84	6.84	6.85	6.84	6.79	6.89
beta-BHC	8.21	8.21	8.21	8.21	8.16	8.26
delta-BHC	9.45	9.45	9.45	9.45	9.40	9.50
gamma-BHC (Lindane)	7.99	7.99	7.99	7.99	7.94	8.04
Heptachlor	9.05	9.05	9.05	9.05	9.00	9.10
Aldrin	10.22	10.22	10.22	10.22	10.17	10.27
Heptachlor epoxide	12.47	12.47	12.48	12.48	12.41	12.55
Endosulfan I	13.98	13.98	13.98	13.98	13.91	14.05
Dieldrin	15.20	15.20	15.20	15.20	15.13	15.27
4,4'-DDE	15.03	15.03	15.03	15.03	14.96	15.10
Endrin	16.49	16.49	16.49	16.49	16.42	16.56
Endosulfan II	17.10	17.10	17.10	17.10	17.03	17.17
4,4'-DDD	16.99	16.99	16.99	16.99	16.92	17.06
Endosulfan sulfate	18.51	18.51	18.52	18.51	18.44	18.58
4,4'-DDT	17.92	17.92	17.92	17.92	17.85	17.99
Methoxychlor	20.42	20.42	20.42	20.42	20.35	20.49
Endrin ketone	20.62	20.62	20.62	20.62	20.55	20.69
Endrin aldehyde	18.14	18.14	18.15	18.14	18.07	18.21
alpha-Chlordane	13.90	13.90	13.90	13.90	13.83	13.97
gamma-Chlordane	13.18	13.18	13.18	13.18	13.11	13.25
Tetrachloro-m-xylene	5.20	5.20	5.20	5.20	5.15	5.25
Decachlorobiphenyl	24.69	24.69	24.70	24.69	24.59	24.79

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are +/- 0.05 minutes for all compounds that elute before Heptachlor epoxide, +/- 0.07 minutes for all other compounds, except +/- 0.10 minutes for Decachlorobiphenyl.

6D
PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

Instrument ID: HP58909 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB1701 ID: .53 (mm) Date(s) Analyzed: 06/13/94 06/14/94

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	4.60	4.60	4.60	4.60	4.55	4.65
beta-BHC	7.01	7.01	7.01	7.01	6.96	7.06
delta-BHC	7.63	7.63	7.63	7.63	7.58	7.68
gamma-BHC (Lindane)	5.29	5.29	5.30	5.29	5.24	5.34
Heptachlor	5.71	5.71	5.71	5.71	5.66	5.76
Aldrin	6.30	6.30	6.30	6.30	6.25	6.35
Heptachlor epoxide	8.06	8.06	8.06	8.06	7.99	8.13
Endosulfan I	8.85	8.85	8.85	8.85	8.78	8.92
Dieldrin	10.08	10.08	10.08	10.08	10.01	10.15
4,4'-DDE	9.70	9.70	9.70	9.70	9.63	9.77
Endrin	10.77	10.77	10.76	10.77	10.70	10.84
Endosulfan II	12.70	12.70	12.70	12.70	12.63	12.77
4,4'-DDD	12.72	12.73	12.72	12.72	12.65	12.79
Endosulfan sulfate	15.49	15.49	15.49	15.49	15.42	15.56
4,4'-DDT	13.39	13.39	13.39	13.39	13.32	13.46
Methoxychlor	15.84	15.84	15.84	15.84	15.77	15.91
Endrin ketone	16.65	16.65	16.66	16.65	16.58	16.72
Endrin aldehyde	14.35	14.35	14.36	14.35	14.28	14.42
alpha-Chlordane	9.26	9.27	9.27	9.27	9.20	9.34
gamma-Chlordane	9.08	9.08	9.08	9.08	9.01	9.15
Tetrachloro-m-xylene	3.38	3.38	3.38	3.38	3.33	3.43
Decachlorobiphenyl	19.02	19.02	19.02	19.02	18.92	19.12

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are +/- 0.05 minutes for all compounds that elute before Heptachlor epoxide, +/- 0.07 minutes for all other compounds, except +/- 0.10 minutes for Decachlorobiphenyl.

6E
PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

Instrument ID: HP58909 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB608 ID: .53 (mm) Date(s) Analyzed: 06/13/94 06/13/94

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	3360200	3404900	4021675	3595592	10.3
beta-BHC	2652800	2595450	2817463	2688571	4.3
delta-BHC	3067200	3017500	3425488	3170063	7.0
gamma-BHC (Lindane)	3553600	3639150	4185200	3792650	9.0
Heptachlor	6028400	5851750	6358163	6079438	4.2
Aldrin	3986000	4169800	5266588	4474129	15.5
Heptachlor epoxide	4658800	4431600	4945863	4678754	5.5
Endosulfan I	4048800	3928700	4240088	4072529	3.9
Dieldrin	3813400	3994600	5360238	4389413	19.3
4,4'-DDE	3705600	3842625	5481763	4343329	22.8
Endrin	3437600	3694675	4935950	4022742	19.9
Endosulfan II	3479500	3359650	3846788	3561979	7.1
4,4'-DDD	2989300	3082600	3817188	3296363	13.8
Endosulfan sulfate	3818000	3916575	4788088	4174221	12.8
4,4'-DDT	3663400	4055250	5299750	4339467	19.7
Methoxychlor	3047320	3336895	3488209	3290808	6.8
Endrin ketone	3477900	3605000	3923519	3668806	6.3
Endrin aldehyde	3023400	3016675	3247450	3095842	4.2
alpha-Chlordane	5436000	5425300	6063775	5641692	6.5
gamma-Chlordane	5735600	5441800	6074950	5750783	5.5
Tetrachloro-m-xylene	4455800	4700600	5376600	4844333	9.8
Decachlorobiphenyl	5762400	5565650	5981100	5769717	3.6

* Surrogate calibration factors are measured from Standard Mix A analyses.

%RSD must be less than or equal 20.0% for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have %RSD greater than 20.0% but less than or equal to 30.0%.

6E
PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

Instrument ID: HP58909 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB1701 ID: .53 (mm) Date(s) Analyzed: 06/13/94 06/14/94

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	10912800	11743800	14576563	12411054	15.5
beta-BHC	7382000	7046350	6985500	7137950	3.0
delta-BHC	9463600	10466000	12845075	10924892	15.9
gamma-BHC (Lindane)	11824400	12254850	14275388	12784879	10.2
Heptachlor	16444000	15271150	15305550	15673567	4.3
Aldrin	11546600	11842600	13296825	12228675	7.7
Heptachlor epoxide	13836400	13432950	13495650	13588333	1.6
Endosulfan I	14065600	12367800	12834200	13089200	6.7
Dieldrin	11722800	11611950	12704250	12013000	5.0
4,4'-DDE	8316800	8649900	10316400	9094367	11.8
Endrin	10982700	10852050	11808844	11214531	4.6
Endosulfan II	11747000	11484275	12126356	11785877	2.7
4,4'-DDD	6989200	7034500	9443056	7822252	17.9
Endosulfan sulfate	10624600	10510425	10703050	10612692	0.9
4,4'-DDT	8765300	9094600	10654025	9504642	10.6
Methoxychlor	6107120	5828400	5268754	5734758	7.4
Endrin ketone	10410600	11150950	11962050	11174533	6.9
Endrin aldehyde	7165000	7224950	7637313	7342421	3.5
alpha-Chlordane	14330600	13441900	13888288	13886929	3.2
gamma-Chlordane	14485400	13590600	13789913	13955304	3.4
Tetrachloro-m-xylene	11831200	12686100	10722663	11746654	8.4
Decachlorobiphenyl	15229200	14263475	12548338	14013671	9.7

* Surrogate calibration factors are measured from Standard Mix A analyses.

%RSD must be less than or equal 20.0% for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have %RSD greater than 20.0% but less than or equal to 30.0%.

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

Instrument ID: HP58909 Date(s) Analyzed: 06/13/94 06/13/94

GC Column: DB608 ID: .53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.50	*1	17.21	17.14	17.28	140724
		*2	19.58	19.51	19.65	146100
		*3	19.75	19.68	19.82	185006
		4				
		5				
Aroclor 1016	0.10	*1	6.74	6.67	6.81	132040
		*2	7.93	7.86	8.00	299600
		*3	9.11	9.04	9.18	439700
		4				
		5				
Aroclor 1221	0.20	*1	4.67	4.60	4.74	79865
		*2	6.18	6.11	6.25	63680
		*3	6.74	6.67	6.81	183270
		4				
		5				
Aroclor 1232	0.10	*1	6.74	6.67	6.81	149300
		*2	7.93	7.86	8.00	159440
		*3	9.11	9.04	9.18	214830
		4				
		5				
Aroclor 1242	0.10	*1	6.74	6.67	6.81	123890
		*2	7.94	7.87	8.01	241800
		*3	9.11	9.04	9.18	351250
		4				
		5				
Aroclor 1248	0.10	*1	9.11	9.04	9.18	341750
		*2	11.54	11.47	11.61	247900
		*3	14.09	14.02	14.16	207510
		4				
		5				
Aroclor 1254	0.10	*1	13.52	13.45	13.59	377480
		*2	15.58	15.51	15.65	428320
		*3	17.88	17.81	17.95	321180
		4				
		5				
Aroclor 1260	0.10	*1	16.50	16.43	16.57	392280
		*2	17.98	17.91	18.05	190820
		*3	19.41	19.34	19.48	511330
		4				
		5				

* Denotes required peaks

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

Instrument ID: HP58909 Date(s) Analyzed: 06/13/94 06/13/94

GC Column: DB1701 ID: .53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.50	*1	13.58	13.51	13.65	446586
		*2	15.22	15.15	15.29	418568
		*3	16.89	16.82	16.96	187202
		4				
		5				
Aroclor 1016	0.10	*1	4.72	4.65	4.79	516600
		*2	5.55	5.48	5.62	871750
		*3	6.29	6.22	6.36	702400
		4				
		5				
Aroclor 1221	0.20	*1	2.94	2.87	3.01	184990
		*2	3.85	3.78	3.92	134165
		*3	4.14	4.07	4.21	312585
		4				
		5				
Aroclor 1232	0.10	*1	4.14	4.07	4.21	265290
		*2	4.72	4.65	4.79	225210
		*3	5.56	5.49	5.63	431790
		4				
		5				
Aroclor 1242	0.10	*1	4.72	4.65	4.79	404430
		*2	5.56	5.49	5.63	693460
		*3	7.95	7.88	8.02	520870
		4				
		5				
Aroclor 1248	0.10	*1	5.56	5.49	5.63	654630
		*2	6.29	6.22	6.36	955630
		*3	7.95	7.88	8.02	1020700
		4				
		5				
Aroclor 1254	0.10	*1	7.91	7.84	7.98	922650
		*2	9.91	9.84	9.98	759870
		*3	12.64	12.57	12.71	1002530
		4				
		5				
Aroclor 1260	0.10	*1	10.44	10.37	10.51	700430
		*2	11.31	11.24	11.38	860880
		*3	15.16	15.09	15.23	1264110
		4				
		5				

* Denotes required peaks

6G
PESTICIDE ANALYTE RESOLUTION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): HP58909

EPA Sample No. (Standard 1): RESC11 Lab Sample ID (1): CK*RESC*1

Date Analyzed (1): 06/13/94 Time Analyzed (1): 1355

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.20	100
02	gamma-Chlordane	13.18	100
03	Endosulfan I	13.98	100
04	4,4'-DDE	15.03	75.9
05	Dieldrin	15.20	100
06	Endosulfan sulfate	18.51	100
07	Methoxychlor	20.42	92.1
08	Endrin ketone	20.62	100
09	Decachlorobiphenyl	24.69	

GC column (2): DB1701 ID:.53 (mm) Instrument Id (2): HP58909

EPA Sample No. (Standard 2): RESC21 Lab sample ID (2): CK*RESC*1

Date Analyzed (2): 06/13/94 Time Analyzed (2): 1437

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.38	100
02	Endosulfan I	8.85	89.8
03	gamma-Chlordane	9.08	100
04	4,4'-DDE	9.70	95.7
05	Dieldrin	10.08	100
06	Endosulfan sulfate	15.48	100
07	Methoxychlor	15.84	100
08	Endrin ketone	16.65	100
09	Decachlorobiphenyl	19.02	

Resolution of two adjacent peaks must be calculated as a percentage of the height of the smaller peak, and must be greater than or equal to 60.0%.

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

GC column: DB608 ID: .53 (mm) Init. Calib.Date(s): 06/13/94 06/13/94

EPA Sample No. (PIBLK): Date Analyzed:

Lab Sample ID (PIBLK): Time Analyzed:

EPA Sample No. (PEM): PEM11 Date Analyzed: 06/13/94

Lab Sample ID (PEM): CK*PEM*1 Time Analyzed: 1437

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.84	6.79	6.89	0.0094	0.010	6.0
beta-BHC	8.21	8.16	8.26	0.0100	0.010	0.0
gamma-BHC (Lindane)	7.99	7.94	8.04	0.0092	0.010	8.0
Endrin	16.49	16.42	16.56	0.046	0.050	8.0
4,4'-DDT	17.92	17.85	17.99	0.11	0.10	10.0
Methoxychlor	20.42	20.35	20.49	0.23	0.25	8.0

4,4'-DDT % breakdown (1): 1.0 Endrin % breakdown (1): 6.6

Combined % breakdown (1): 7.6

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

GC column: DB608 ID: .53 (mm) Init. Calib.Date(s): 06/13/94 06/13/94

EPA Sample No. (PIBLK): PIBLK11 Date Analyzed: 06/14/94

Lab Sample ID (PIBLK): MB*PIBLK*1 Time Analyzed: 0030

EPA Sample No. (PEM): PEM12 Date Analyzed: 06/14/94

Lab Sample ID (PEM): CK*PEM*2 Time Analyzed: 0112

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.84	6.79	6.89	0.010	0.010	0.0
beta-BHC	8.21	8.16	8.26	0.011	0.010	10.0
gamma-BHC (Lindane)	7.99	7.94	8.04	0.010	0.010	0.0
Endrin	16.49	16.42	16.56	0.048	0.050	4.0
4,4'-DDT	17.92	17.85	17.99	0.11	0.10	10.0
Methoxychlor	20.42	20.35	20.49	0.25	0.25	0.0

4,4'-DDT % breakdown (1): 1.2 Endrin % breakdown (1): 4.6

Combined % breakdown (1): 5.8

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

GC column: DB608 ID: .53 (mm) Init. Calib.Date(s): 06/13/94 06/13/94

EPA Sample No. (PIBLK): PIBLK13 Date Analyzed: 06/14/94

Lab Sample ID (PIBLK): MB*PIBLK*3 Time Analyzed: 1846

EPA Sample No. (PEM): PEM13 Date Analyzed: 06/14/94

Lab Sample ID (PEM): CK*PEM*3 Time Analyzed: 1928

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.84	6.79	6.89	0.011	0.010	10.0
beta-BHC	8.21	8.16	8.26	0.011	0.010	10.0
gamma-BHC (Lindane)	7.99	7.94	8.04	0.011	0.010	10.0
Endrin	16.48	16.42	16.56	0.046	0.050	8.0
4,4'-DDT	17.91	17.85	17.99	0.11	0.10	10.0
Methoxychlor	20.42	20.35	20.49	0.23	0.25	8.0

4,4'-DDT % breakdown (1): 1.3 Endrin % breakdown (1): 0.0

Combined % breakdown (1): 1.3

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

GC column: DB608 ID: .53 (mm) Init. Calib.Date(s): 06/13/94 06/13/94

EPA Sample No. (PIBLK): PIBLK15 Date Analyzed: 06/15/94

Lab Sample ID (PIBLK): MB*PIBLK*5 Time Analyzed: 2010

EPA Sample No. (PEM): PEM14 Date Analyzed: 06/15/94

Lab Sample ID (PEM): CK*PEM*4 Time Analyzed: 2053

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.83	6.79	6.89	0.011	0.010	10.0
beta-BHC	8.20	8.16	8.26	0.012	0.010	20.0
gamma-BHC (Lindane)	7.98	7.94	8.04	0.011	0.010	10.0
Endrin	16.47	16.42	16.56	0.051	0.050	2.0
4,4'-DDT	17.91	17.85	17.99	0.11	0.10	10.0
Methoxychlor	20.41	20.35	20.49	0.25	0.25	0.0

4,4'-DDT % breakdown (1): 1.5 Endrin % breakdown (1): 3.4

Combined % breakdown (1): 4.9

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

GC column: DB1701 ID: .53 (mm) Init. Calib.Date(s): 06/13/94 06/14/94

EPA Sample No. (PIBLK): Date Analyzed:

Lab Sample ID (PIBLK): Time Analyzed:

EPA Sample No. (PEM): PEM21 Date Analyzed: 06/13/94

Lab Sample ID (PEM): CK*PEM*1 Time Analyzed: 1519

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	4.60	4.55	4.65	0.010	0.010	0.0
beta-BHC	7.01	6.96	7.06	0.011	0.010	10.0
gamma-BHC (Lindane)	5.29	5.24	5.34	0.0097	0.010	3.0
Endrin	10.77	10.70	10.84	0.048	0.050	4.0
4,4'-DDT	13.39	13.32	13.46	0.11	0.10	10.0
Methoxychlor	15.84	15.77	15.91	0.24	0.25	4.0

4,4'-DDT % breakdown (1): 0.5 Endrin % breakdown (1): 6.3

Combined % breakdown (1): 6.8

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

GC column: DB1701 ID: .53 (mm) Init. Calib.Date(s): 06/13/94 06/14/94

EPA Sample No. (PIBLK): PIBLK11 Date Analyzed: 06/14/94

Lab Sample ID (PIBLK): MB*PIBLK*1 Time Analyzed: 0112

EPA Sample No. (PEM): PEM22 Date Analyzed: 06/14/94

Lab Sample ID (PEM): CK*PEM*2 Time Analyzed: 0155

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	4.60	4.55	4.65	0.0099	0.010	1.0
beta-BHC	7.01	6.96	7.06	0.011	0.010	10.0
gamma-BHC (Lindane)	5.29	5.24	5.34	0.0096	0.010	4.0
Endrin	10.77	10.70	10.84	0.048	0.050	4.0
4,4'-DDT	13.39	13.32	13.46	0.11	0.10	10.0
Methoxychlor	15.84	15.77	15.91	0.24	0.25	4.0

4,4'-DDT % breakdown (1): 0.0 Endrin % breakdown (1): 6.4

Combined % breakdown (1): 6.4

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

GC column: DB1701 ID: .53 (mm) Init. Calib.Date(s): 06/13/94 06/14/94

EPA Sample No. (PIBLK): PIBLK13 Date Analyzed: 06/14/94

Lab Sample ID (PIBLK): MB*PIBLK*3 Time Analyzed: 1928

EPA Sample No. (PEM): PEM23 Date Analyzed: 06/14/94

Lab Sample ID (PEM): CK*PEM*3 Time Analyzed: 2010

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	4.59	4.55	4.65	0.011	0.010	10.0
beta-BHC	7.00	6.96	7.06	0.012	0.010	20.0
gamma-BHC (Lindane)	5.29	5.24	5.34	0.010	0.010	0.0
Endrin	10.76	10.70	10.84	0.050	0.050	0.0
4,4'-DDT	13.38	13.32	13.46	0.11	0.10	10.0
Methoxychlor	15.83	15.77	15.91	0.25	0.25	0.0

4,4'-DDT % breakdown (1): 0.0 Endrin % breakdown (1): 3.8

Combined % breakdown (1): 3.8

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

GC column: DB1701 ID: .53 (mm) Init. Calib.Date(s): 06/13/94 06/14/94

EPA Sample No. (PIBLK): PIBLK15 Date Analyzed: 06/15/94

Lab Sample ID (PIBLK): MB*PIBLK*5 Time Analyzed: 2053

EPA Sample No. (PEM): PEM24 Date Analyzed: 06/15/94

Lab Sample ID (PEM): CK*PEM*4 Time Analyzed: 2136

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	4.59	4.55	4.65	0.010	0.010	0.0
beta-BHC	7.00	6.96	7.06	0.011	0.010	10.0
gamma-BHC (Lindane)	5.29	5.24	5.34	0.0099	0.010	1.0
Endrin	10.75	10.70	10.84	0.050	0.050	0.0
4,4'-DDT	13.37	13.32	13.46	0.11	0.10	10.0
Methoxychlor	15.82	15.77	15.91	0.26	0.25	4.0

4,4'-DDT % breakdown (1): 0.0 Endrin % breakdown (1): 4.0

Combined % breakdown (1): 4.0

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No: SDG No: 50312

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s) 06/13/94 06/13/94

EPA Sample No.(PIBLK): PIBLK12 Date Analyzed: 06/14/94

Lab Sample ID (PIBLK): MB*PIBLK*2 Time Analyzed: 1105

EPA Sample No.(INDA): INDAM12 Date Analyzed: 06/14/94

Lab Sample ID (INDA): CCS*INDAM*2 Time Analyzed: 1147

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.84	6.79	6.89	0.022	0.020	10.0
gamma-BHC (Lindane)	7.99	7.94	8.04	0.021	0.020	5.0
Heptachlor	9.05	9.00	9.10	0.020	0.020	0.0
Endosulfan I	13.98	13.91	14.05	0.020	0.020	0.0
Dieldrin	15.20	15.13	15.27	0.040	0.040	0.0
Endrin	16.48	16.42	16.56	0.040	0.040	0.0
4,4'-DDD	16.99	16.92	17.06	0.039	0.040	2.5
4,4'-DDT	17.92	17.85	17.99	0.039	0.040	2.5
Methoxychlor	20.42	20.35	20.49	0.20	0.20	0.0
Tetrachloro-m-xylene	5.20	5.15	5.25	0.020	0.020	0.0
Decachlorobiphenyl	24.69	24.59	24.79	0.038	0.040	5.0

EPA Sample No.(INDB): INDBM12 Date Analyzed : 06/14/94

Lab Sample ID (INDB): CCS*INDBM*2 Time Analyzed : 1230

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW RT	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	8.21	8.16	8.26	0.021	0.020	5.0
delta-BHC	9.45	9.40	9.50	0.022	0.020	10.0
Aldrin	10.22	10.17	10.27	0.021	0.020	5.0
Heptachlor epoxide	12.48	12.41	12.55	0.021	0.020	5.0
4,4'-DDE	15.03	14.96	15.10	0.041	0.040	2.5
Endosulfan II	17.10	17.03	17.17	0.042	0.040	5.0
Endosulfan sulfate	18.51	18.44	18.58	0.041	0.040	2.5
Endrin ketone	20.62	20.55	20.69	0.043	0.040	7.5
Endrin aldehyde	18.14	18.07	18.21	0.040	0.040	0.0
alpha-Chlordane	13.90	13.83	13.97	0.020	0.020	0.0
gamma-Chlordane	13.18	13.11	13.25	0.020	0.020	0.0
Tetrachloro-m-xylene	5.20	5.15	5.25	0.020	0.020	0.0
Decachlorobiphenyl	24.69	24.59	24.79	0.039	0.040	2.5

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No: SDG No: 50312

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s) 06/13/94 06/13/94

EPA Sample No.(PIBLK): PIBLK14 Date Analyzed: 06/15/94

Lab Sample ID (PIBLK): MB*PIBLK*4 Time Analyzed: 1058

EPA Sample No.(INDA): INDAM13 Date Analyzed: 06/15/94

Lab Sample ID (INDA): CCS*INDAM*3 Time Analyzed: 1140

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.83	6.79	6.89	0.023	0.020	15.0
gamma-BHC (Lindane)	7.98	7.94	8.04	0.023	0.020	15.0
Heptachlor	9.04	9.00	9.10	0.023	0.020	15.0
Endosulfan I	13.96	13.91	14.05	0.021	0.020	5.0
Dieldrin	15.19	15.13	15.27	0.041	0.040	2.5
Endrin	16.47	16.42	16.56	0.046	0.040	15.0
4,4'-DDD	16.98	16.92	17.06	0.041	0.040	2.5
4,4'-DDT	17.90	17.85	17.99	0.041	0.040	2.5
Methoxychlor	20.41	20.35	20.49	0.20	0.20	0.0
Tetrachloro-m-xylene	5.19	5.15	5.25	0.020	0.020	0.0
Decachlorobiphenyl	24.67	24.59	24.79	0.039	0.040	2.5

EPA Sample No.(INDB): INDBM13 Date Analyzed : 06/15/94

Lab Sample ID (INDB): CCS*INDBM*3 Time Analyzed : 1223

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW RT	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	8.20	8.16	8.26	0.022	0.020	10.0
delta-BHC	9.44	9.40	9.50	0.022	0.020	10.0
Aldrin	10.20	10.17	10.27	0.021	0.020	5.0
Heptachlor epoxide	12.46	12.41	12.55	0.021	0.020	5.0
4,4'-DDE	15.02	14.96	15.10	0.041	0.040	2.5
Endosulfan II	17.09	17.03	17.17	0.043	0.040	7.5
Endosulfan sulfate	18.50	18.44	18.58	0.041	0.040	2.5
Endrin ketone	20.61	20.55	20.69	0.041	0.040	2.5
Endrin aldehyde	18.13	18.07	18.21	0.041	0.040	2.5
alpha-Chlordane	13.88	13.83	13.97	0.020	0.020	0.0
gamma-Chlordane	13.16	13.11	13.25	0.020	0.020	0.0
Tetrachloro-m-xylene	5.19	5.15	5.25	0.020	0.020	0.0
Decachlorobiphenyl	24.67	24.59	24.79	0.038	0.040	5.0

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No: SDG No: 50312

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s) 06/13/94 06/13/94

EPA Sample No.(PIBLK): PIBLK16 Date Analyzed: 06/16/94

Lab Sample ID (PIBLK): MB*PIBLK*6 Time Analyzed: 0605

EPA Sample No.(INDA): INDAM14 Date Analyzed: 06/16/94

Lab Sample ID (INDA): CCS*INDAM*4 Time Analyzed: 0648

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.83	6.79	6.89	0.024	0.020	20.0
gamma-BHC (Lindane)	7.98	7.94	8.04	0.024	0.020	20.0
Heptachlor	9.03	9.00	9.10	0.022	0.020	10.0
Endosulfan I	13.96	13.91	14.05	0.022	0.020	10.0
Dieldrin	15.18	15.13	15.27	0.044	0.040	10.0
Endrin	16.47	16.42	16.56	0.043	0.040	7.5
4,4'-DDD	16.98	16.92	17.06	0.043	0.040	7.5
4,4'-DDT	17.90	17.85	17.99	0.042	0.040	5.0
Methoxychlor	20.41	20.35	20.49	0.21	0.20	5.0
Tetrachloro-m-xylene	5.19	5.15	5.25	0.021	0.020	5.0
Decachlorobiphenyl	24.67	24.59	24.79	0.042	0.040	5.0

EPA Sample No.(INDB): INDBM14 Date Analyzed : 06/16/94

Lab Sample ID (INDB): CCS*INDBM*4 Time Analyzed : 0730

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW RT	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	8.20	8.16	8.26	0.022	0.020	10.0
delta-BHC	9.44	9.40	9.50	0.024	0.020	20.0
Aldrin	10.20	10.17	10.27	0.021	0.020	5.0
Heptachlor epoxide	12.46	12.41	12.55	0.022	0.020	10.0
4,4'-DDE	15.01	14.96	15.10	0.043	0.040	7.5
Endosulfan II	17.09	17.03	17.17	0.046	0.040	15.0
Endosulfan sulfate	18.50	18.44	18.58	0.044	0.040	10.0
Endrin ketone	20.61	20.55	20.69	0.045	0.040	12.5
Endrin aldehyde	18.13	18.07	18.21	0.044	0.040	10.0
alpha-Chlordane	13.88	13.83	13.97	0.021	0.020	5.0
gamma-Chlordane	13.16	13.11	13.25	0.021	0.020	5.0
Tetrachloro-m-xylene	5.19	5.15	5.25	0.021	0.020	5.0
Decachlorobiphenyl	24.67	24.59	24.79	0.041	0.040	2.5

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No: SDG No: 50312

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s) 06/13/94 06/14/94

EPA Sample No.(PIBLK): PIBLK12 Date Analyzed: 06/14/94

Lab Sample ID (PIBLK): MB*PIBLK*2 Time Analyzed: 1147

EPA Sample No.(INDA): INDAM22 Date Analyzed: 06/14/94

Lab Sample ID (INDA): CCS*INDAM*2 Time Analyzed: 1230

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	4.60	4.55	4.65	0.021	0.020	5.0
gamma-BHC (Lindane)	5.29	5.24	5.34	0.021	0.020	5.0
Heptachlor	5.71	5.66	5.76	0.021	0.020	5.0
Endosulfan I	8.85	8.78	8.92	0.020	0.020	0.0
Dieldrin	10.08	10.01	10.15	0.041	0.040	2.5
Endrin	10.76	10.70	10.84	0.041	0.040	2.5
4,4'-DDD	12.72	12.65	12.79	0.042	0.040	5.0
4,4'-DDT	13.39	13.32	13.46	0.042	0.040	5.0
Methoxychlor	15.84	15.77	15.91	0.21	0.20	5.0
Tetrachloro-m-xylene	3.38	3.33	3.43	0.021	0.020	5.0
Decachlorobiphenyl	19.02	18.92	19.12	0.040	0.040	0.0

EPA Sample No.(INDB): INDBM22 Date Analyzed : 06/14/94

Lab Sample ID (INDB): CCS*INDBM*2 Time Analyzed : 1312

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW RT	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	7.01	6.96	7.06	0.022	0.020	10.0
delta-BHC	7.63	7.58	7.68	0.021	0.020	5.0
Aldrin	6.30	6.25	6.35	0.021	0.020	5.0
Heptachlor epoxide	8.06	7.99	8.13	0.021	0.020	5.0
4,4'-DDE	9.70	9.63	9.77	0.044	0.040	10.0
Endosulfan II	12.70	12.63	12.77	0.042	0.040	5.0
Endosulfan sulfate	15.48	15.42	15.56	0.042	0.040	5.0
Endrin ketone	16.65	16.58	16.72	0.042	0.040	5.0
Endrin aldehyde	14.35	14.28	14.42	0.042	0.040	5.0
alpha-Chlordane	9.26	9.20	9.34	0.021	0.020	5.0
gamma-Chlordane	9.08	9.01	9.15	0.021	0.020	5.0
Tetrachloro-m-xylene	3.38	3.33	3.43	0.019	0.020	5.0
Decachlorobiphenyl	19.02	18.92	19.12	0.041	0.040	2.5

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No: SDG No: 50312

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s) 06/13/94 06/14/94

EPA Sample No.(PIBLK): PIBLK14 Date Analyzed: 06/15/94

Lab Sample ID (PIBLK): MB*PIBLK*4 Time Analyzed: 1140

EPA Sample No.(INDA): INDAM23 Date Analyzed: 06/15/94

Lab Sample ID (INDA): CCS*INDAM*3 Time Analyzed: 1223

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	4.59	4.55	4.65	0.021	0.020	5.0
gamma-BHC (Lindane)	5.29	5.24	5.34	0.021	0.020	5.0
Heptachlor	5.70	5.66	5.76	0.021	0.020	5.0
Endosulfan I	8.84	8.78	8.92	0.021	0.020	5.0
Dieldrin	10.07	10.01	10.15	0.041	0.040	2.5
Endrin	10.75	10.70	10.84	0.042	0.040	5.0
4,4'-DDD	12.70	12.65	12.79	0.042	0.040	5.0
4,4'-DDT	13.37	13.32	13.46	0.042	0.040	5.0
Methoxychlor	15.82	15.77	15.91	0.21	0.20	5.0
Tetrachloro-m-xylene	3.38	3.33	3.43	0.018	0.020	10.0
Decachlorobiphenyl	19.01	18.92	19.12	0.041	0.040	2.5

EPA Sample No.(INDB): INDBM23 Date Analyzed : 06/15/94

Lab Sample ID (INDB): CCS*INDBM*3 Time Analyzed : 1305

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW RT	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	7.00	6.96	7.06	0.021	0.020	5.0
delta-BHC	7.62	7.58	7.68	0.021	0.020	5.0
Aldrin	6.29	6.25	6.35	0.021	0.020	5.0
Heptachlor epoxide	8.05	7.99	8.13	0.020	0.020	0.0
4,4'-DDE	9.69	9.63	9.77	0.043	0.040	7.5
Endosulfan II	12.68	12.63	12.77	0.041	0.040	2.5
Endosulfan sulfate	15.47	15.42	15.56	0.041	0.040	2.5
Endrin ketone	16.64	16.58	16.72	0.041	0.040	2.5
Endrin aldehyde	14.34	14.28	14.42	0.041	0.040	2.5
alpha-Chlordane	9.25	9.20	9.34	0.021	0.020	5.0
gamma-Chlordane	9.07	9.01	9.15	0.021	0.020	5.0
Tetrachloro-m-xylene	3.38	3.33	3.43	0.019	0.020	5.0
Decachlorobiphenyl	19.01	18.92	19.12	0.041	0.040	2.5

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No: SDG No: 50312

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s) 06/13/94 06/14/94

EPA Sample No.(PIBLK): PIBLK16 Date Analyzed: 06/16/94

Lab Sample ID (PIBLK): MB*PIBLK*6 Time Analyzed: 0648

EPA Sample No.(INDA): INDAM24 Date Analyzed: 06/16/94

Lab Sample ID (INDA): CCS*INDAM*4 Time Analyzed: 0730

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	4.59	4.55	4.65	0.022	0.020	10.0
gamma-BHC (Lindane)	5.29	5.24	5.34	0.021	0.020	5.0
Heptachlor	5.70	5.66	5.76	0.021	0.020	5.0
Endosulfan I	8.84	8.78	8.92	0.021	0.020	5.0
Dieldrin	10.07	10.01	10.15	0.042	0.040	5.0
Endrin	10.75	10.70	10.84	0.043	0.040	7.5
4,4'-DDD	12.71	12.65	12.79	0.043	0.040	7.5
4,4'-DDT	13.37	13.32	13.46	0.043	0.040	7.5
Methoxychlor	15.82	15.77	15.91	0.21	0.20	5.0
Tetrachloro-m-xylene	3.38	3.33	3.43	0.018	0.020	10.0
Decachlorobiphenyl	19.01	18.92	19.12	0.042	0.040	5.0

EPA Sample No.(INDB): INDBM24 Date Analyzed : 06/16/94

Lab Sample ID (INDB): CCS*INDBM*4 Time Analyzed : 0813

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW RT	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	7.00	6.96	7.06	0.021	0.020	5.0
delta-BHC	7.62	7.58	7.68	0.021	0.020	5.0
Aldrin	6.29	6.25	6.35	0.021	0.020	5.0
Heptachlor epoxide	8.05	7.99	8.13	0.021	0.020	5.0
4,4'-DDE	9.68	9.63	9.77	0.042	0.040	5.0
Endosulfan II	12.68	12.63	12.77	0.042	0.040	5.0
Endosulfan sulfate	15.47	15.42	15.56	0.042	0.040	5.0
Endrin ketone	16.64	16.58	16.72	0.042	0.040	5.0
Endrin aldehyde	14.34	14.28	14.42	0.041	0.040	2.5
alpha-Chlordane	9.25	9.20	9.34	0.021	0.020	5.0
gamma-Chlordane	9.07	9.01	9.15	0.021	0.020	5.0
Tetrachloro-m-xylene	3.38	3.33	3.43	0.020	0.020	0.0
Decachlorobiphenyl	19.00	18.92	19.12	0.042	0.040	5.0

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 06/13/94 06/13/94

Instrument ID: HP58909

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.20 DCB: 24.69

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC11	CK*RESC*1	06/13/94	1355	5.20	24.69
02	PEM11	CK*PEM*1	06/13/94	1437	5.20	24.69
03	AR166011	ICV*AR1660*1	06/13/94	1519	5.20	24.69
04	AR122111	ICV*AR1221*1	06/13/94	1602	5.20	24.69
05	AR123211	ICV*AR1232*1	06/13/94	1644	5.20	24.70
06	AR124211	ICV*AR1242*1	06/13/94	1727	5.20	24.69
07	AR124811	ICV*AR1248*1	06/13/94	1809	5.20	24.70
08	AR125411	ICV*AR1254*1	06/13/94	1851	5.20	24.70
09	TOXAPH11	ICV*TOXAPH*1	06/13/94	1934	5.20	24.70
10	INDAL11	ICV*INDAL*1	06/13/94	2016	5.20	24.69
11	INDBL11	ICV*INDBL*1	06/13/94	2058	5.20	24.69
12	INDAM11	ICV*INDAM*1	06/13/94	2141	5.20	24.69
13	INDBM11	ICV*INDBM*1	06/13/94	2223	5.20	24.69
14	INDAH11	ICV*INDAH*1	06/13/94	2305	5.20	24.70
15	INDBH11	ICV*INDBH*1	06/13/94	2348	5.20	24.69
16	PIBLK11	MB*PIBLK*1	06/14/94	0030	5.20	24.69
17	PEM12	CK*PEM*2	06/14/94	0112	5.20	24.69
18	PIBLK12	MB*PIBLK*2	06/14/94	1105	5.20	24.69
19	INDAM12	CCS*INDAM*2	06/14/94	1147	5.20	24.69
20	INDBM12	CCS*INDBM*2	06/14/94	1230	5.20	24.69
21	PIBLK13	MB*PIBLK*3	06/14/94	1846	5.19	24.69
22	PEM13	CK*PEM*3	06/14/94	1928	5.19	24.69
23	PIBLK14	MB*PIBLK*4	06/15/94	1058	5.19	24.67
24	INDAM13	CCS*INDAM*3	06/15/94	1140	5.19	24.67
25	INDBM13	CCS*INDBM*3	06/15/94	1223	5.19	24.67
26	PIBLK15	MB*PIBLK*5	06/15/94	2010	5.19	24.67
27	PEM14	CK*PEM*4	06/15/94	2053	5.19	24.67
28	PBLK1	MB*NONE*1	06/15/94	2136	5.19	24.67
29	H06LEA01	CDMHNSS*40	06/15/94	2218	5.19	24.67
30	H06LEA01MS	SPM1*CDMHNSS	06/15/94	2301	5.19	24.67
31	H06LEA01MSD	SPM2*CDMHNSS	06/15/94	2343	5.19	24.67
32	PIBLK16	MB*PIBLK*6	06/16/94	0605	5.19	24.67

QC LIMITS
TCX = Tetrachloro-m-xylene (þ 0.05 MINUTES)
DCB = Decachlorobiphenyl (þ 0.10 MINUTES)

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

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 06/13/94 06/13/94

Instrument ID: HP58909

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.20 DCB: 24.69

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	INDAM14	CCS*INDAM*4	06/16/94	0648	5.19	24.67
02	INDBM14	CCS*INDBM*4	06/16/94	0730	5.19	24.67
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
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21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
				QC LIMITS		

TCX = Tetrachloro-m-xylene (þ 0.05 MINUTES)
DCB = Decachlorobiphenyl (þ 0.10 MINUTES)

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

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 06/13/94 06/14/94

Instrument ID: HP58909

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.38 DCB: 19.02

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC21	CK*RESC*1	06/13/94	1437	3.38	19.02
02	PEM21	CK*PEM*1	06/13/94	1519	3.38	19.02
03	AR166021	ICV*AR1660*1	06/13/94	1602	3.38	19.02
04	AR122121	ICV*AR1221*1	06/13/94	1644	3.38	19.02
05	AR123221	ICV*AR1232*1	06/13/94	1727	3.38	19.02
06	AR124221	ICV*AR1242*1	06/13/94	1809	3.38	19.02
07	AR124821	ICV*AR1248*1	06/13/94	1851	3.38	19.02
08	AR125421	ICV*AR1254*1	06/13/94	1934	3.38	19.02
09	TOXAPH21	ICV*TOXAPH*1	06/13/94	2016	3.38	19.02
10	INDAL21	ICV*INDAL*1	06/13/94	2058	3.38	19.02
11	INDBL21	ICV*INDBL*1	06/13/94	2141	3.38	19.02
12	INDAM21	ICV*INDAM*1	06/13/94	2223	3.38	19.02
13	INDBM21	ICV*INDBM*1	06/13/94	2305	3.38	19.02
14	INDAH21	ICV*INDAH*1	06/13/94	2348	3.38	19.02
15	INDBH21	ICV*INDBH*1	06/14/94	0030	3.38	19.02
16	PIBLK21	MB*PIBLK*1	06/14/94	0112	3.38	19.02
17	PEM22	CK*PEM*2	06/14/94	0155	3.38	19.02
18	PIBLK22	MB*PIBLK*2	06/14/94	1147	3.38	19.02
19	INDAM22	CCS*INDAM*2	06/14/94	1230	3.38	19.02
20	INDBM22	CCS*INDBM*2	06/14/94	1312	3.38	19.02
21	PIBLK23	MB*PIBLK*3	06/14/94	1928	3.38	19.01
22	PEM23	CK*PEM*3	06/14/94	2010	3.38	19.01
23	PIBLK24	MB*PIBLK*4	06/15/94	1140	3.38	19.01
24	INDAM23	CCS*INDAM*3	06/15/94	1223	3.38	19.01
25	INDBM23	CCS*INDBM*3	06/15/94	1305	3.38	19.01
26	PIBLK25	MB*PIBLK*5	06/15/94	2053	3.38	19.01
27	PEM24	CK*PEM*4	06/15/94	2136	3.38	19.01
28	PBLK1	MB*NONE*1	06/15/94	2218	3.38	19.01
29	H06LEA01	CDMHNSS*40	06/15/94	2301	3.38	19.01
30	H06LEA01MS	SPM1*CDMHNSS	06/15/94	2343	3.38	19.01
31	H06LEA01MSD	SPM2*CDMHNSS	06/16/94	0026	3.38	19.00
32	PIBLK26	MB*PIBLK*6	06/16/94	0648	3.38	19.01

QC LIMITS
TCX = Tetrachloro-m-xylene (þ 0.05 MINUTES)
DCB = Decachlorobiphenyl (þ 0.10 MINUTES)

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

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 06/13/94 06/14/94

Instrument ID: HP58909

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.38 DCB: 19.02

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	INDAM24	CCS*INDAM*4	06/16/94	0730	3.38	19.01
02	INDBM24	CCS*INDBM*4	06/16/94	0813	3.38	19.00
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
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17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (þ 0.05 MINUTES)
DCB = Decachlorobiphenyl (þ 0.10 MINUTES)

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

9A

PESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

Florisil Cartridge Lot Number: 511H08556 Date of Analysis: 5-11-94

GC Column(1): DB608 ID: .53 (mm) GC Column (2): DB1701 ID: .53 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
alpha-BHC	0.010	0.0096	96.0	80-120
gamma-BHC (Lindane)	0.010	0.0099	99.0	80-120
Heptachlor	0.010	0.011	110.0	80-120
Endosulfan I	0.010	0.011	110.0	80-120
Dieldrin	0.020	0.021	105.0	80-120
Endrin	0.020	0.021	105.0	80-120
4,4'-DDD	0.020	0.023	115.0	80-120
4,4'-DDT	0.020	0.021	105.0	80-120
Methoxychlor	0.10	0.11	110.0	80-120
Tetrachloro-m-xylene	0.010	0.0100	100.0	80-120
Decachlorobiphenyl	0.020	0.023	115.0	80-120

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

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK1	MB*NONE*1	06/15/94	06/15/94
02	H06LEA01	CDMHNSS*40	06/15/94	06/15/94
03	H06LEA01MS	SPM1*CDMHNSS	06/15/94	06/15/94
04	H06LEA01MSD	SPM2*CDMHNSS	06/15/94	06/16/94
05				
06				
07				
08				
09				
10				
11				
12				
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17				
18				
19				
20				
21				
22				
23				

9B
PESTICIDE GPC CALIBRATION

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

GPC Column 671002B1 Calibration Date: 6-7-94

GC Column(1): DB608 ID: .53 (mm) GC Column (2): DB1701 ID: .53 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
gamma-BHC (Lindane)	50	57	110	80-110
Heptachlor	50	46	90	80-110
Aldrin	50	46	90	80-110
Dieldrin	100	100	100	80-110
Endrin	100	110	110	80-110
4,4'-DDT	100	110	110	80-110

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

THIS GPC CALIBRATION APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK1	MB*NONE*1	06/15/94	06/15/94
02	H06LEA01	CDMHNSS*40	06/15/94	06/15/94
03	H06LEA01MS	SPM1*CDMHNSS	06/15/94	06/15/94
04	H06LEA01MSD	SPM2*CDMHNSS	06/15/94	06/16/94
05				
06				
07				
08				
09				
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26				

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO

H06LEA01

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

Lab Sample ID : CDMHNSS*40 Date(s) Analyzed: 06/15/94 06/15/94

Instrument ID (1): HP58909 Instrument ID (2): HP58909

GC Column(1): DB608 ID: .53 (mm) GC Column(2): DB1701 ID:.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDT	1	17.90	17.85	17.99	7.55	
	2	13.37	13.32	13.46	9.22	22.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO

H06LEA01MS

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

Lab Sample ID : SPM1*CDMHNSS*40 Date(s) Analyzed: 06/15/94 06/15/94

Instrument ID (1): HP58909 Instrument ID (2): HP58909

GC Column(1): DB608 ID: .53 (mm) GC Column(2): DB1701 ID:.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	7.98	7.94	8.04	17.15	
	2	5.29	5.24	5.34	15.48	10.8
Heptachlor	1	9.04	9.00	9.10	14.83	
	2	5.70	5.66	5.76	14.35	3.3
Aldrin	1	10.20	10.17	10.27	15.48	
	2	6.29	6.25	6.35	13.63	13.6
Dieldrin	1	15.19	15.13	15.27	33.54	
	2	10.06	10.01	10.15	30.40	10.3
Endrin	1	16.47	16.42	16.47	33.28	
	2	10.75	10.70	10.84	30.75	8.2
4,4'-DDT	1	17.91	17.85	17.91	39.03	
	2	13.37	13.32	13.37	38.15	2.3
	1					
	2					
	1					
	2					

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO

H06LEA01MSD

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

Lab Sample ID : SPM2*CDMHNSS*40 Date(s) Analyzed: 06/15/94 06/16/94

Instrument ID (1): HP58909 Instrument ID (2): HP58909

GC Column(1): DB608 ID: .53 (mm) GC Column(2): DB1701 ID:.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	7.98	7.94	8.04	15.96	
	2	5.29	5.24	5.34	14.43	10.6
Heptachlor	1	9.03	9.00	9.10	14.01	
	2	5.70	5.66	5.76	13.57	3.2
Aldrin	1	10.20	10.17	10.27	16.86	
	2	6.29	6.25	6.35	12.74	32.3
Dieldrin	1	15.18	15.13	15.27	31.18	
	2	10.07	10.01	10.15	28.83	8.2
Endrin	1	16.47	16.42	16.47	31.19	
	2	10.75	10.70	10.84	29.14	7.0
4,4'-DDT	1	17.90	17.85	17.90	44.47	
	2	13.37	13.32	13.37	42.15	5.5
	1					
	2					
	1					
	2					

Software Version: 4.0<1C29>
Sample Name : CK*RESC*1 Time : 6/14/94 09:34 AM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 01:55 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A005.RAW
Result File : C:\TC4\DATA1\992A005.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A005.RST
Proc Method : C:\TC4\DATA1\992ARES from C:\TC4\DATA1\992A005.RST
Calib Method : C:\TC4\DATA1\992ARES from C:\TC4\DATA1\992A005.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 6118.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 18

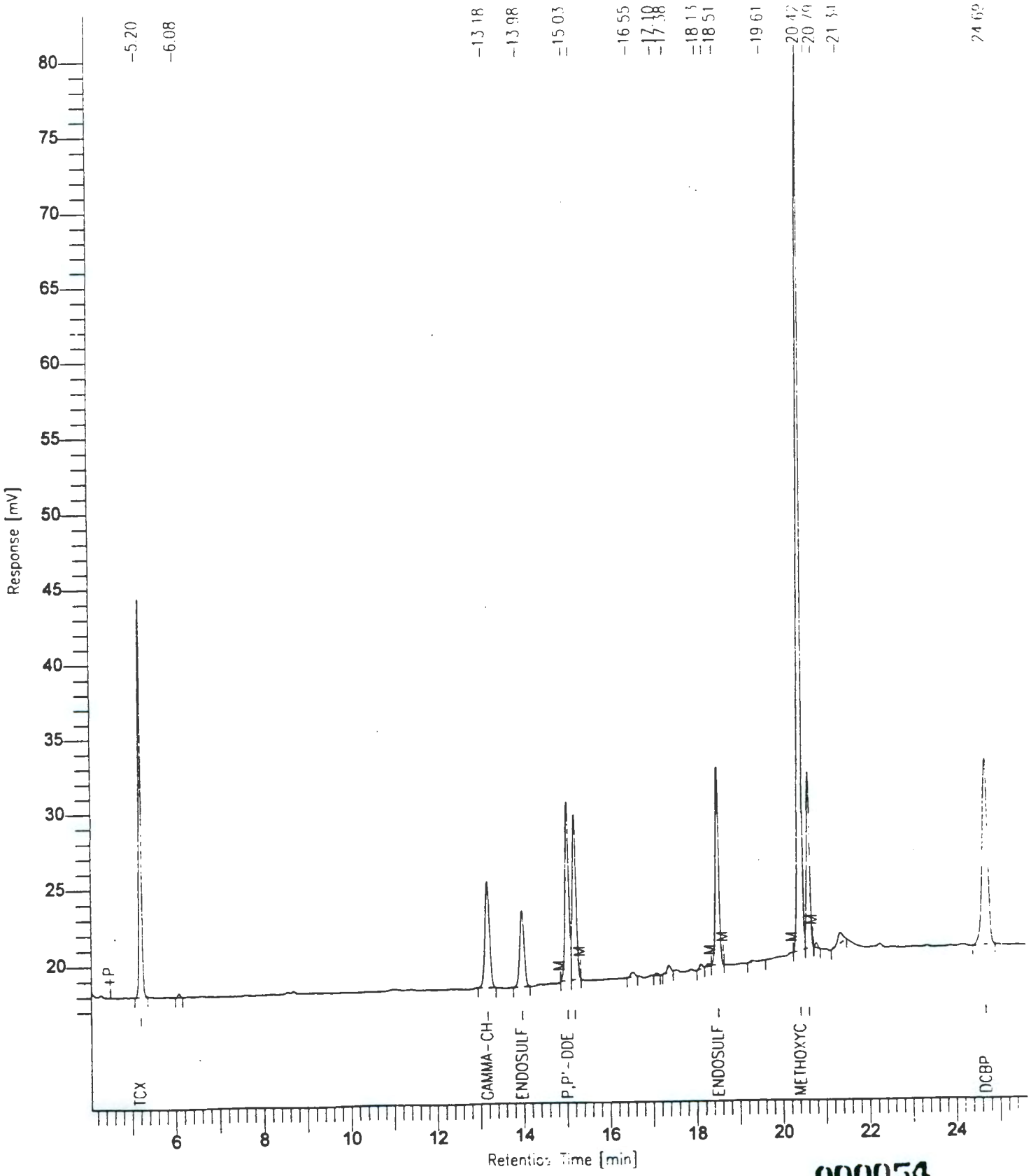
DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.199	TCX	90389	B	26443	-2e-15
3	13.176	GAMMA-CHLORDANE	51050	B	6966	-9e-16
4	13.976	ENDOSULFAN A	34961	B	4988	-6e-15
5	15.030	P,P'-DDE	71701	*B	11907	-6e-15
6	15.199	DIELDRIN	64892	*V	10925	-4e-15
12	18.512	ENDOSULFAN SULFATE	67726	*B	13274	-1e-15
14	20.423	METHOXYCHLOR	292089	*B	59814	7e-15
15	20.619	ENDRIN KETONE	56744	*V	11789	-2e-15
18	24.691	DCBP	106668	B	12451	1e-15
			836220		158557	

Chromatogram

Sample Name : CK*RESC*1
FileName : C:\TC4\DATA1\992A005.RAW
Method :
Start Time : 4.06 min End Time : 25.67 min
Scale Factor: 0.0 Plot Offset: 17 mV

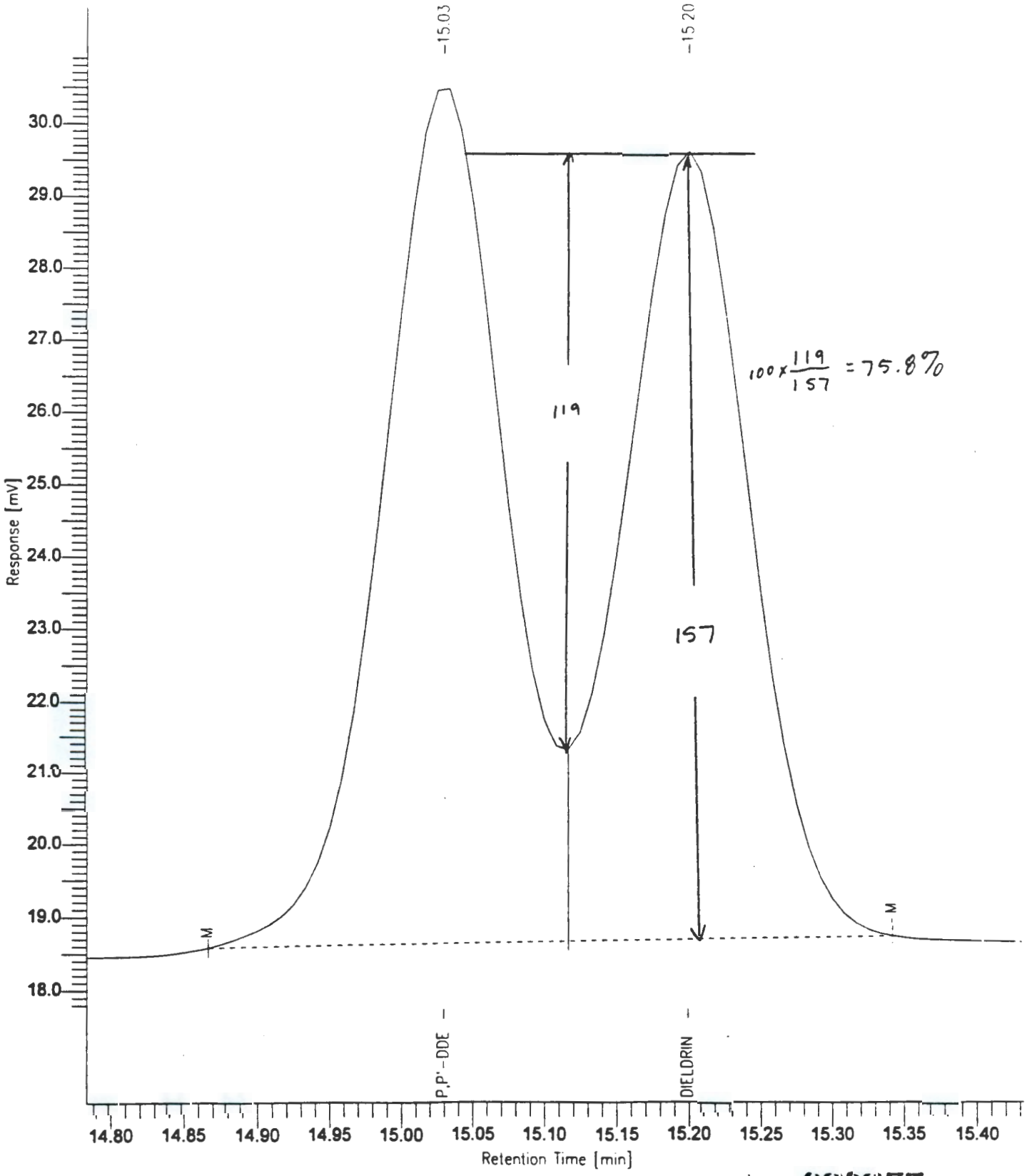
Sample #:
Date : 6/14/94 09:34 AM
Time of Injection: 6/13/94 01:55 PM
Low Point : 16.73 mV High Point : 80.05 mV
Plot Scale: 63.3 mV



Chromatogram

Sample Name : CK*RESC*1
FileName : C:\TC4\DATA1\992A005.RAW
Method :
Start Time : 14.78 min End Time : 15.43 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 6/14/94 02:33 PM
Time of Injection: 6/13/94 01:55 PM
Low Point : 17.74 mV High Point : 30.95 mV
Plot Scale: 13.2 mV

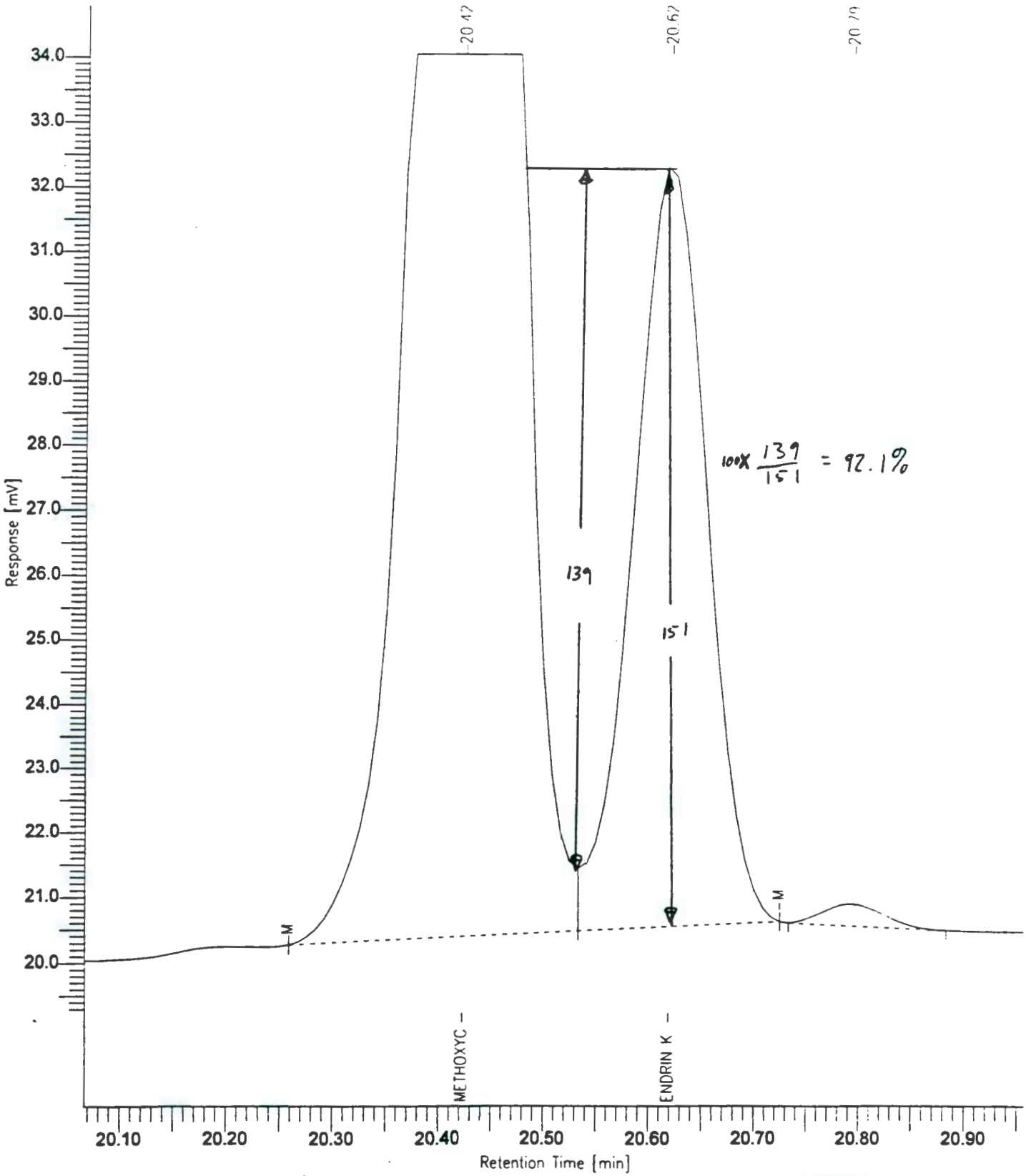


9513356.0625

Chromatogram

Sample Name : CK*RESC*1
FileName : C:\TC4\DATA1\992A005.RAW
Method :
Start Time : 20.07 min End Time : 20.96 min
Scale Factor: 0.0 Plot Offset: 19 mV

Sample #:
Date : 6/14/94 02:34 PM
Time of Injection: 6/13/94 01:55 PM
Low Point : 19.25 mV High Point : 34.06 mV
Plot Scale: 14.8 mV



000056

Software Version: 4.0<1C29>
Sample Name : CK*PEM*1 Time : 6/14/94 09:34 AM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 02:37 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A006.RAW
Result File : C:\TC4\DATA1\992A006.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A006.RST
Proc Method : C:\TC4\DATA1\992APEM from C:\TC4\DATA1\992A006.RST
Calib Method : C:\TC4\DATA1\992APEM from C:\TC4\DATA1\992A006.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 22

DATA REPORT

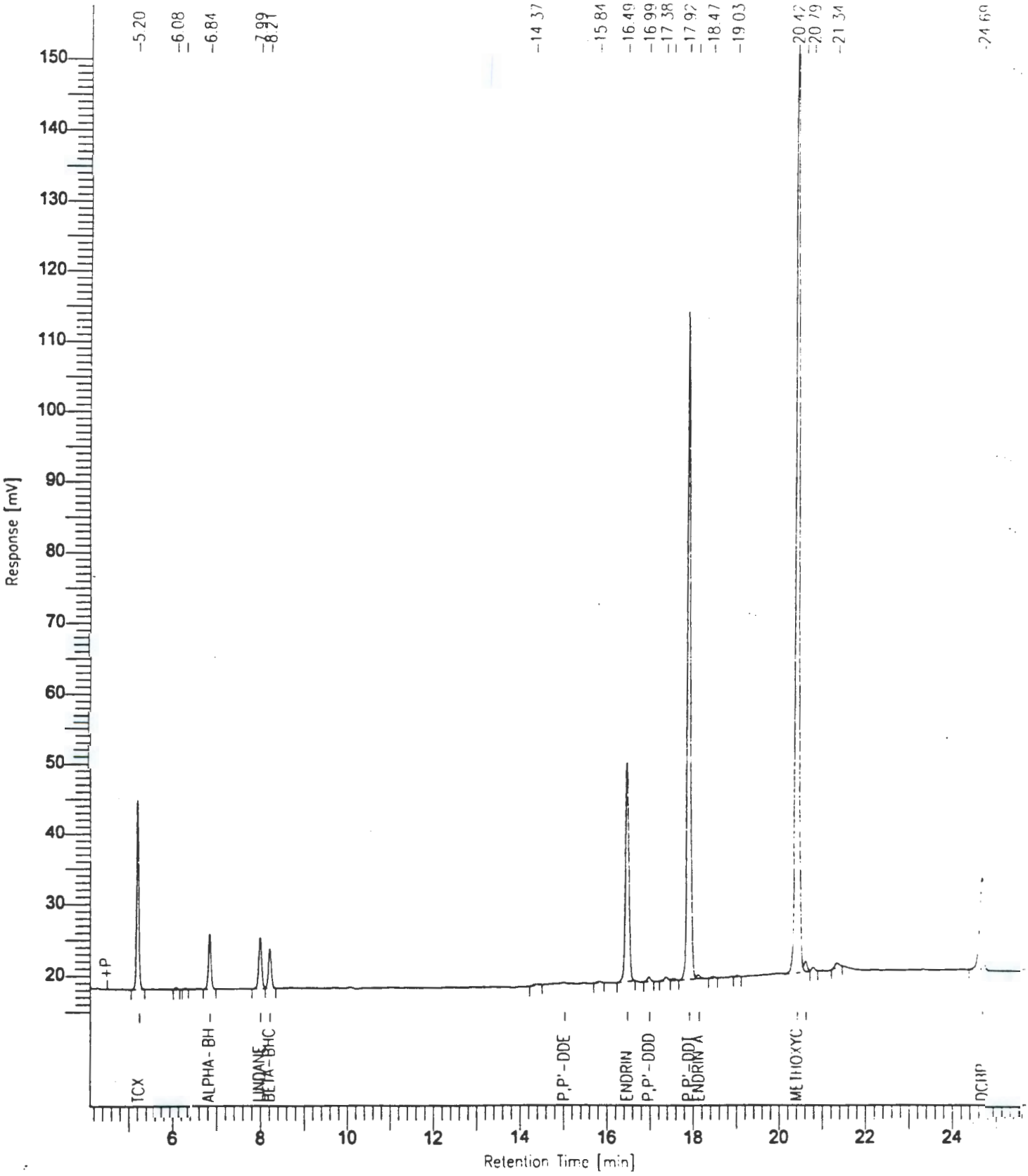
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.198	TCX	91132	B	26892	-0.8023
4	6.843	ALPHA-BHC	31882	B	7709	-0.0917
5	7.990	LINDANE	33478	B	7130	-0.0731
6	8.208	BETA-BHC	25831	V	5551	-0.0761
9	16.487	ENDRIN	168539	B	31281	-0.0271
10	16.985	P,P'-DDD	3358	B	640	-0.0612
13	17.919	P,P'-DDT	459426	B	95154	-0.0104
14	18.129	ENDRIN ALDEHYDE	3057	E	558	-0.1022
17	20.422	METHOXYCHLOR	783855	B	156627	-0.0263
18	20.619	ENDRIN KETONE	7227	E	1472	-0.0395
21	24.692	DCBP	108250	B	12896	-0.0290

9513356.0627

Chromatogram

Sample Name : CK*PEM*1
FileName : C:\TC4\DATA1\992A006.RAW
Method :
Start Time : 4.11 min End Time : 25.72 min
Scale Factor: 0.0 Plot Offset: 15 mV

Sample #:
Date : 6/14/94 09:34 AM
Time of Injection: 6/13/94 02:37 PM
Low Point : 14.92 mV High Point : 150.93 mV
Plot Scale: 136.0 mV



000058

Software Version: 4.0<1C29>
Sample Name : ICV*AR1660*1 Time : 6/14/94 09:35 AM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 03:19 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A007.RAW
Result File : C:\TC4\DATA1\992A007.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A007.RST
Proc Method : C:\TC4\DATA1\992A1660 from C:\TC4\DATA1\992A007.RST
Calib Method : C:\TC4\DATA1\992A1660 from C:\TC4\DATA1\992A007.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 4444.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 47

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.197	TCX	91771	B	26587	7e-15	0.0200
5	6.737	PCB-1016-1	13204	V	3079	5e-15	0.1000
6	7.934	PCB-1016-2	29960	B	5375	3e-15	0.1000
9	8.884		8784	B	1635	-------	8.7836e-08
10	9.110	PCB-1016-3	43970	V	6052	-8e-15	0.1000
11	9.689		17227	B	2910	-------	1.7227e-07
13	10.259		20887	B	2180	-------	2.0887e-07
14	10.448		6666	B	1299	-------	6.6665e-08
15	11.531		20217	B	2431	-------	2.0217e-07
16	11.697		5056	V	869	-------	5.0560e-08
17	12.036		12054	V	1342	-------	1.2054e-07
20	12.876		5812	B	946	-------	5.8120e-08

Result File : 992A007.RST, Printed On 6/14/94 09:35 AM

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
21	13.232		15781	B	2185	-------	1.5781e-07
22	13.510		17780	V	2261	-------	1.7780e-07
24	15.567		20006	B	3389	-------	2.0006e-07
25	15.857		12834	B	1565	-------	1.2834e-07
26	16.205		35655	B	5776	-------	3.5655e-07
27	16.501	PCB-1260-1	39228	V	7063	-1e-15	0.1000
28	17.148		12342	B	2419	-------	1.2342e-07
30	17.566		24451	V	4117	-------	2.4451e-07
31	17.706		14776	V	2723	-------	1.4776e-07
32	17.871		36771	V	6393	-------	3.6771e-07
33	17.976	PCB-1260-2	19082	V	4076	5e-15	0.1000
34	18.166		11166	V	2238	-------	1.1166e-07
36	19.025		24427	B	4322	-------	2.4427e-07
37	19.146		6494	V	1392	-------	6.4944e-08
38	19.256		14924	V	2675	-------	1.4924e-07
39	19.405	PCB-1260-3	51133	V	10088	6e-15	0.1000
41	20.425		15957	V	2684	-------	1.5957e-07
42	20.541		6393	V	1583	-------	6.3931e-08
43	20.639		25671	V	5156	-------	2.5671e-07
45	22.047		14656	B	1864	-------	1.4656e-07
47	24.690	DCBP	105896	B	12305	5e-15	0.0200
			801035		140978		0.6400

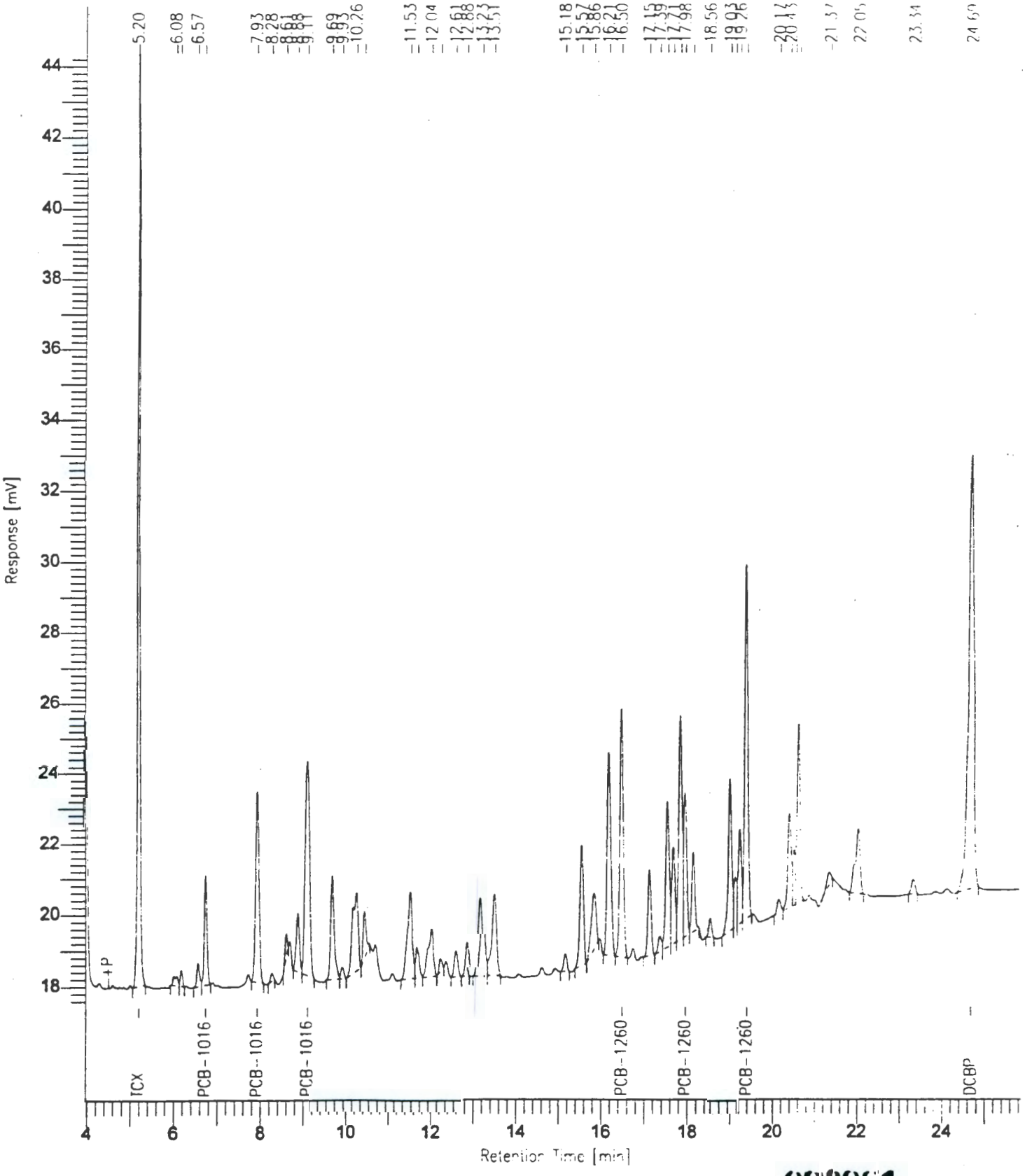
9513356.0630

Chromatogram

Sample Name : ICV*AR1660*1
FileName : C:\TC4\DATA1\992A007.RAW
Method :
Start Time : 3.97 min End Time : 25.90 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 6/14/94 09:35 AM
Time of Injection: 6/13/94 03:19 PM
Low Point : 17.43 mV High Point : 44.38 mV
Plot Scale: 26.9 mV

Page 1 of 1



000061

Software Version: 4.0<1C29>
Sample Name : ICV*AR1221*1 Time : 6/14/94 09:35 AM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 04:02 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A008.RAW
Result File : C:\TC4\DATA1\992A008.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A008.RST
Proc Method : C:\TC4\DATA1\992A1221 from C:\TC4\DATA1\992A008.RST
Calib Method : C:\TC4\DATA1\992A1221 from C:\TC4\DATA1\992A008.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 4444.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 15

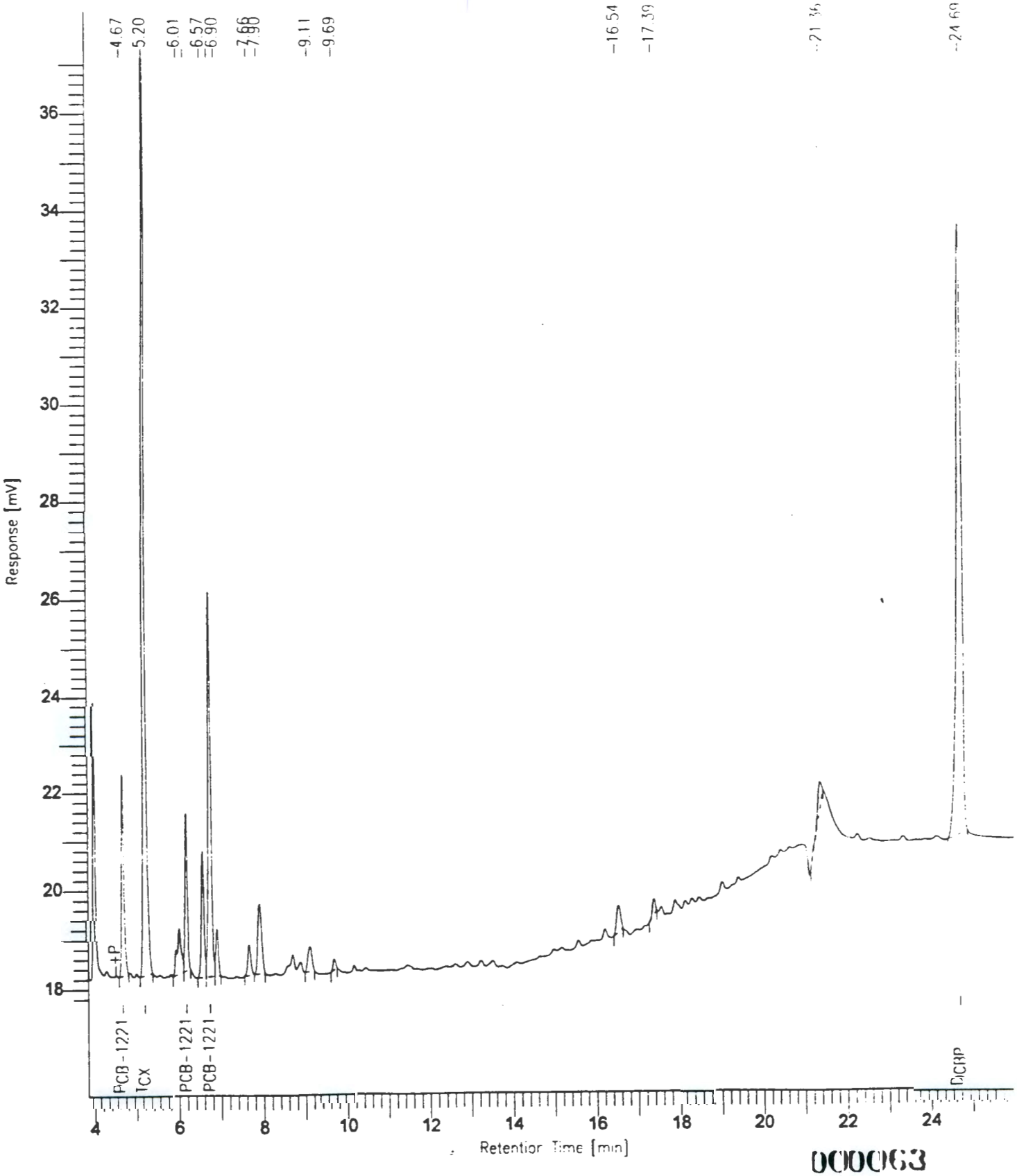
DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	4.669	PCB-1221-1	15973	B	4138	-9e-15	0.2000
2	5.198	TCX	98056	B	27374	-1e-15	0.0200
3	6.012		6727	B	937	-------	6.7270e-08
4	6.179	PCB-1221-2	12736	V	3241	5e-15	0.2000
5	6.565		11339	B	2562	-------	1.1339e-07
6	6.737	PCB-1221-3	36654	V	7967	3e-15	0.2000
9	7.899		8924	V	1414	-------	8.9240e-08
14	21.362		4534	B	571	-------	4.5335e-08
15	24.691	DCBP	109150	B	12597	2e-15	0.0200
			304093		60802		0.6400

Chromatogram

Sample Name : ICV*AR1221*1
FileName : C:\TC4\DATA1\992A008.RAW
Method :
Start Time : 3.84 min End Time : 26.04 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 6/14/94 09:35 AM
Time of Injection: 6/13/94 04:02 PM
Low Point : 17.71 mV High Point : 37.13 mV
Plot Scale: 19.4 mV



Software Version: 4.0<1C29>
Sample Name : ICV*AR1232*1 Time : 6/14/94 09:35 AM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 04:44 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A009.RAW
Result File : C:\TC4\DATA1\992A009.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A009.RST
Proc Method : C:\TC4\DATA1\992A1232 from C:\TC4\DATA1\992A009.RST
Calib Method : C:\TC4\DATA1\992A1232 from C:\TC4\DATA1\992A009.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 4444.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 22

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	5.198	TCX	94591	B	27653	5e-15	0.0200
5	6.738	PCB-1232-1	14930	V	3487	5e-15	0.1000
6	7.933	PCB-1232-2	15944	B	2791	4e-15	0.1000
7	8.696		7406	B	768	-------	7.4061e-08
8	8.884		5481	V	909	-------	5.4806e-08
9	9.111	PCB-1232-3	21483	V	2941	-9e-15	0.1000
10	9.691		6663	B	1310	-------	6.6628e-08
13	11.532		8506	B	1001	-------	8.5060e-08
14	12.037		4746	B	548	-------	4.7455e-08
16	12.610		5814	B	962	-------	5.8145e-08
17	12.875		7230	B	2242	-------	7.2305e-08
18	14.089		5082	B	858	-------	5.0815e-08

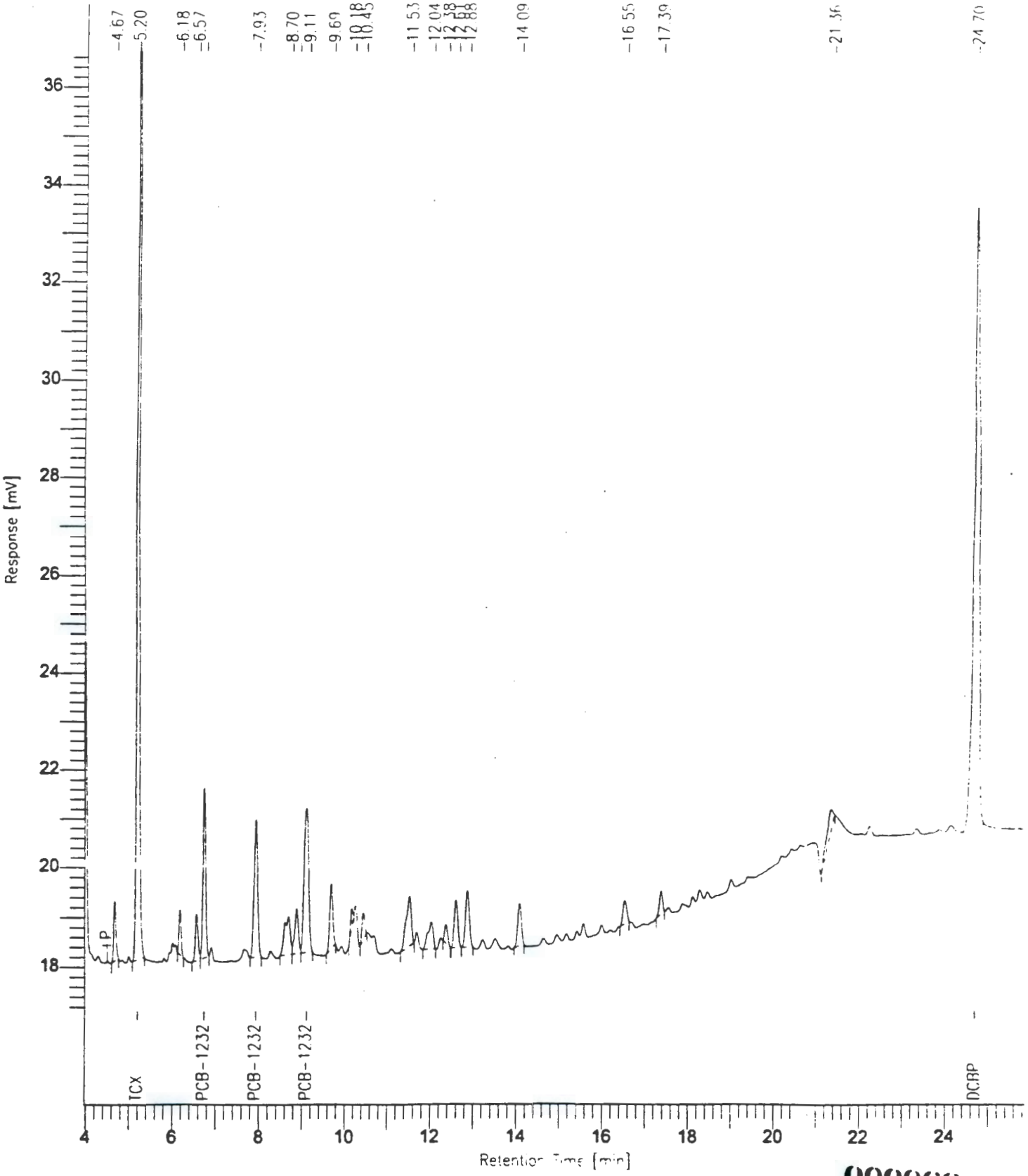
Result File : 992A009.RST, Printed On 6/14/94 09:35 AM

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
21	21.363		5211	B	415	-------	5.2105e-08
22	24.696	DCBP	108144	B	12764	-3e-15	0.0200
			311229		57549		0.3400

Chromatogram

Sample Name : ICV*AR1232*1
FileName : C:\TC4\DATA1\992A009.RAW
Method :
Start Time : 3.97 min End Time : 25.90 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 6/14/94 09:35 AM
Time of Injection: 6/13/94 04:44 PM
Low Point : 17.13 mV High Point : 36.73 mV
Plot Scale: 19.6 mV



Software Version: 4.0<1C29>
Sample Name : ICV*AR1242*1 Time : 6/14/94 09:36 AM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 05:27 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A010.RAW
Result File : C:\TC4\DATA1\992A010.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A010.RST
Proc Method : C:\TC4\DATA1\992A1242 from C:\TC4\DATA1\992A010.RST
Calib Method : C:\TC4\DATA1\992A1242 from C:\TC4\DATA1\992A010.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 4444.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 40

DATA REPORT

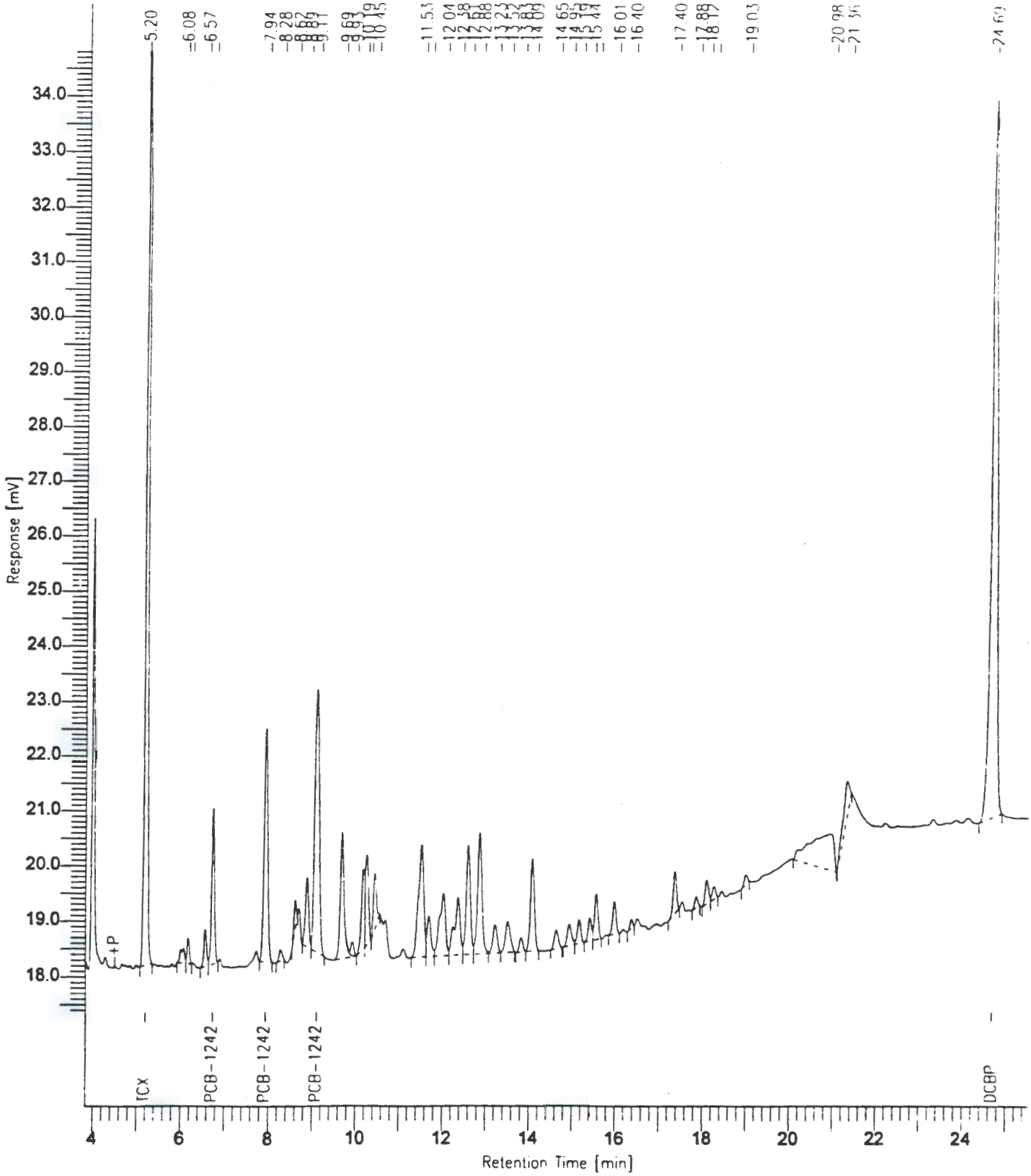
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.199	TCX	98650	B	28589	-5e-15	0.0200
5	6.739	PCB-1242-1	12389	V	2848	4e-15	0.1000
6	7.935	PCB-1242-2	24180	B	4258	-7e-16	0.1000
9	8.886		6742	B	1262	-------	6.7417e-08
10	9.111	PCB-1242-3	35125	V	4801	5e-15	0.1000
11	9.692		14349	B	2301	-------	1.4349e-07
13	10.185		7663	B	1448	-------	7.6630e-08
14	10.263		8355	V	1646	-------	8.3550e-08
15	10.450		5217	B	1028	-------	5.2170e-08
16	11.533		17713	B	2043	-------	1.7713e-07
17	11.699		4638	V	733	-------	4.6380e-08
18	12.038		11037	V	1132	-------	1.1037e-07

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
19	12.376		9879	V	1045	-------	9.8790e-08
20	12.611		13293	V	1990	-------	1.3293e-07
21	12.877		15609	V	2215	-------	1.5609e-07
23	13.522		4462	V	558	-------	4.4618e-08
25	14.090		10616	V	1685	-------	1.0616e-07
30	15.584		4646	V	831	-------	4.6462e-08
38	20.978		24463	B	674	-------	2.4463e-07
39	21.357		7028	B	623	-------	7.0278e-08
40	24.694	DCBP	115840	B	13110	-1e-15	0.0200
			451893		74820		0.3400

Chromatogram

Sample Name : ICV*AR1242*1
FileName : C:\TC4\DATA1\992A010.RAW
Method :
Start Time : 3.83 min End Time : 25.58 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 6/14/94 09:36 AM
Time of Injection: 6/13/94 05:27 PM
Low Point : 17.37 mV High Point : 34.82 mV
Plot Scale: 17.4 mV



Software Version: 4.0<1C29>
Sample Name : ICV*AR1248*1 Time : 6/14/94 09:36 AM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 06:09 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A011.RAW
Result File : C:\TC4\DATA1\992A011.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A011.RST
Proc Method : C:\TC4\DATA1\992A1248 from C:\TC4\DATA1\992A011.RST
Calib Method : C:\TC4\DATA1\992A1248 from C:\TC4\DATA1\992A011.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 4444.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 42

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.199	TCX	92170	B	27129	7e-15	0.0200
4	7.935		13054	B	2484	-------	1.3054e-07
5	8.616		7170	B	765	-------	7.1695e-08
7	9.113	PCB-1248-1	34175	V	4660	-3e-15	0.1000
8	9.691		7615	B	1419	-------	7.6150e-08
10	10.266		19788	B	2861	-------	1.9789e-07
11	10.449		7402	B	1619	-------	7.4015e-08
14	11.536	PCB-1248-2	24790	B	3380	2e-15	0.1000
15	11.700		7412	V	1212	-------	7.4125e-08
16	12.038		20478	V	2159	-------	2.0478e-07
17	12.378		19842	V	2371	-------	1.9842e-07
18	12.610		25425	V	3859	-------	2.5425e-07

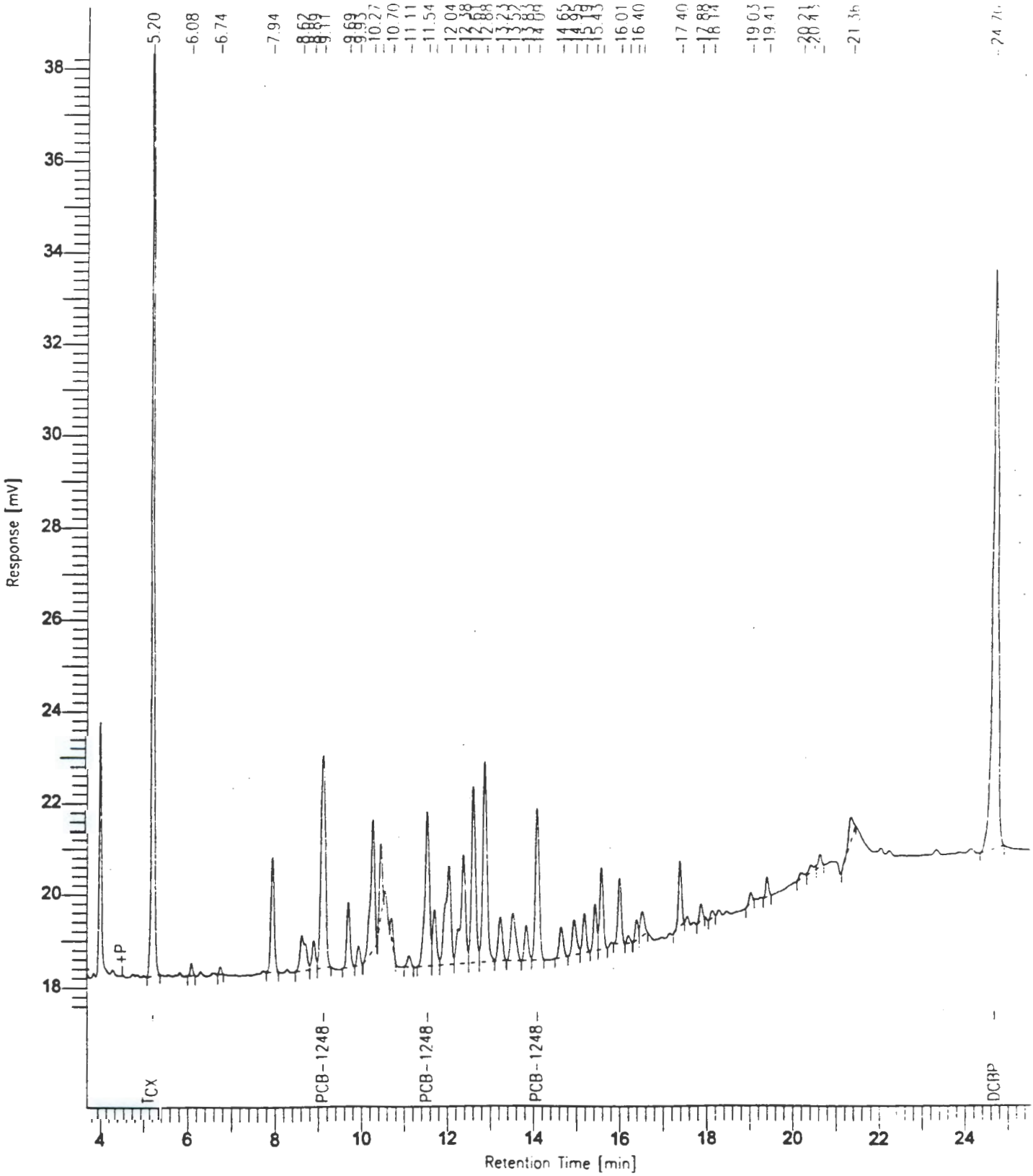
Result File : 992A011.RST, Printed On 6/14/94 09:36 AM

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
19	12.876		29938	V	4391	-------	2.9938e-07
20	13.233		6264	V	953	-------	6.2641e-08
21	13.522		8478	B	1035	-------	8.4785e-08
22	13.834		4672	B	762	-------	4.6723e-08
23	14.089	PCB-1248-3	20751	V	3321	-2e-15	0.1000
25	14.949		5331	V	758	-------	5.3306e-08
26	15.186		4955	V	865	-------	4.9552e-08
27	15.434		5567	V	1014	-------	5.5674e-08
28	15.584		10049	V	1790	-------	1.0049e-07
29	16.005		7706	B	1437	-------	7.7055e-08
33	17.398		7413	B	1447	-------	7.4130e-08
42	24.695	DCBP	109826	B	12684	4e-15	0.0200
			500271		84377		0.3400

Chromatogram

Sample Name : ICV*AR1248*1
FileName : C:\TC4\DATA1\992A011.RAW
Method :
Start Time : 3.68 min End Time : 25.58 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 6/14/94 09:36 AM
Time of Injection: 6/13/94 06:09 PM
Low Point : 17.46 mV High Point : 38.33 mV
Plot Scale: 20.9 mV



Software Version: 4.0<1C29>
Sample Name : ICV*AR1254*1 Time : 6/14/94 09:36 AM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 06:51 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A012.RAW
Result File : C:\TC4\DATA1\992A012.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A012.RST
Proc Method : C:\TC4\DATA1\992A1254 from C:\TC4\DATA1\992A012.RST
Calib Method : C:\TC4\DATA1\992A1254 from C:\TC4\DATA1\992A012.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 4444.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 33

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.199	TCX	93338	B	27432	-2e-15	0.0200
4	10.267		16522	B	2764	-------	1.6522e-07
6	11.535		10367	B	1344	-------	1.0367e-07
9	12.610		12402	V	1974	-------	1.2402e-07
11	13.235		30719	B	4327	-------	3.0719e-07
12	13.520	PCB-1254-1	37748	V	4830	4e-15	0.1000
13	13.834		12292	V	1915	-------	1.2292e-07
15	14.646		11828	B	1769	-------	1.1829e-07
16	14.946		13292	V	1965	-------	1.3292e-07
17	15.186		18648	V	3181	-------	1.8649e-07
18	15.435		5767	B	1073	-------	5.7673e-08
19	15.584	PCB-1254-2	42832	V	7269	5e-15	0.1000

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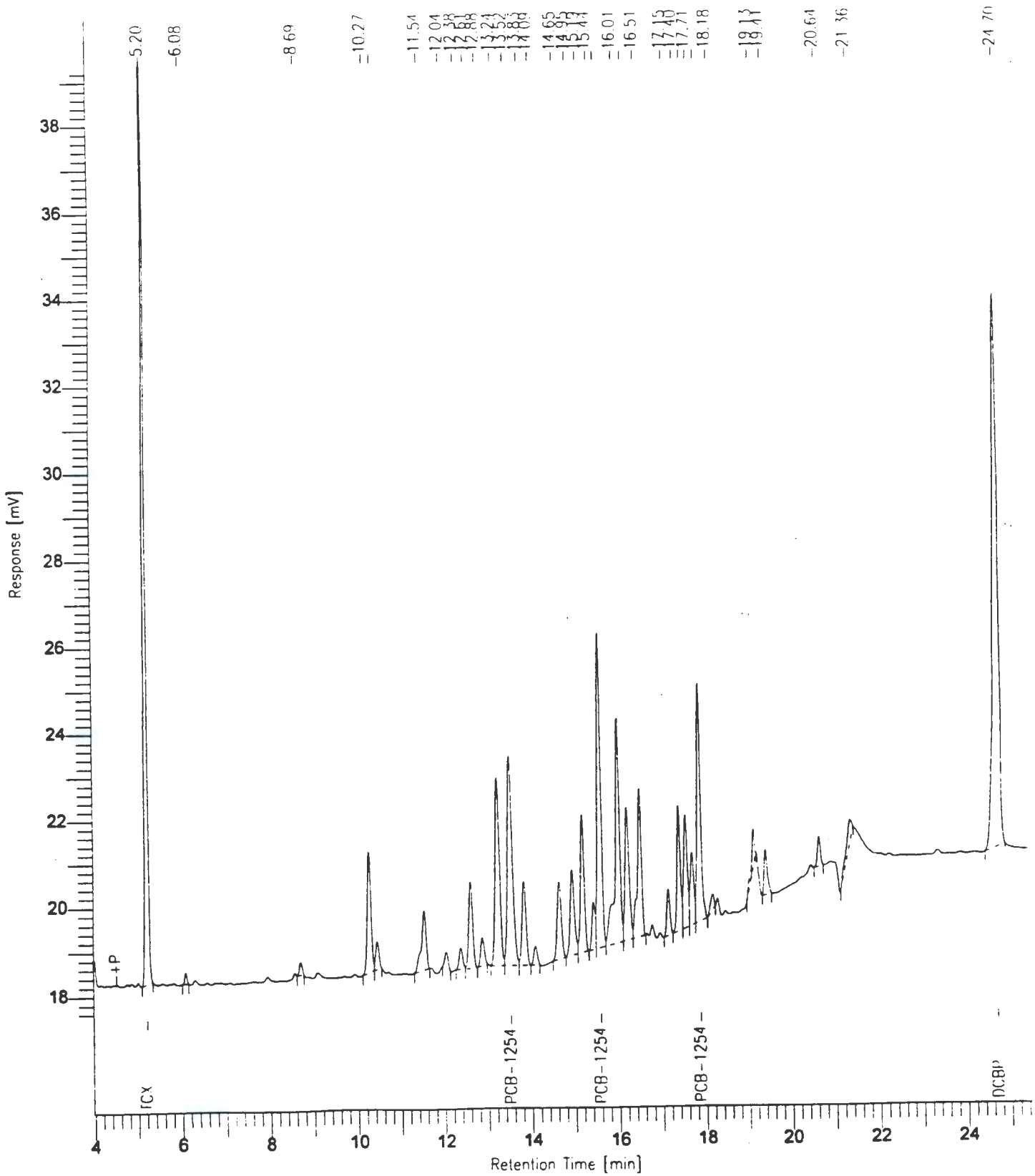
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
20	16.006		38495	V	5202	-------	3.8495e-07
21	16.209		19967	V	3061	-------	1.9967e-07
22	16.505		22400	V	3435	-------	2.2400e-07
23	17.153		5394	B	1068	-------	5.3943e-08
24	17.400		15656	V	2893	-------	1.5657e-07
25	17.559		15454	V	2612	-------	1.5454e-07
26	17.707		9843	V	1673	-------	9.8432e-08
27	17.876	PCB-1254-3	32118	V	5524	3e-15	0.1000
30	19.410		5529	B	1041	-------	5.5290e-08
32	21.357		5084	B	493	-------	5.0835e-08
33	24.696	DCBP	109394	B	12771	4e-15	0.0200
			585090		99615		0.3400

Chromatogram

Sample Name : ICV*AR1254*1
FileName : C:\TC4\DATA1\992A012.RAW
Method :
Start Time : 3.97 min
Scale Factor: 0.0

End Time : 25.48 min
Plot Offset: 17 mV

Sample #:
Date : 6/14/94 09:36 AM
Time of Injection: 6/13/94 06:51 PM
Low Point : 17.48 mV
Plot Scale: 21.9 mV



Software Version: 4.0<1C29>
Sample Name : ICV*TOXAPH*1 Time : 6/14/94 09:37 AM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 07:34 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A013.RAW
Result File : C:\TC4\DATA1\992A013.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A013.RST
Proc Method : C:\TC4\DATA1\992ATOX from C:\TC4\DATA1\992A013.RST
Calib Method : C:\TC4\DATA1\992ATOX from C:\TC4\DATA1\992A013.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 4444.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 57

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.199	TCX	94155	B	26782	1e-15	0.0200
6	11.355		8554	B	1028	-------	8.5545e-08
11	13.249		9890	B	1164	-------	9.8895e-08
12	13.662		6126	B	910	-------	6.1265e-08
14	14.415		9909	B	887	-------	9.9085e-08
15	14.769		11116	B	1303	-------	1.1116e-07
16	15.001		13063	V	1738	-------	1.3063e-07
17	15.158		18030	V	2038	-------	1.8030e-07
18	15.326		6784	V	1081	-------	6.7835e-08
19	15.553		10928	V	1374	-------	1.0928e-07
20	15.715		27987	V	3109	-------	2.7987e-07
21	16.008		33739	V	4084	-------	3.3739e-07

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
22	16.199		9649	V	1452	-------	9.6486e-08
23	16.301		10316	V	1381	-------	1.0316e-07
24	16.553		27514	V	3514	-------	2.7514e-07
25	16.667		16248	V	2906	-------	1.6248e-07
26	16.882		47707	V	3666	-------	4.7707e-07
27	17.205	TOXAPHENE-1	70362	V	7448	1e-14	0.5000
28	17.384		10345	V	2031	-------	1.0345e-07
29	17.616		39551	V	3506	-------	3.9551e-07
30	17.914		54983	V	7200	-------	5.4983e-07
31	18.127		44261	V	7320	-------	4.4261e-07
32	18.215		37655	V	6277	-------	3.7655e-07
33	18.337		13754	V	2956	-------	1.3754e-07
34	18.509		57209	V	6432	-------	5.7209e-07
35	18.758		19260	V	3400	-------	1.9260e-07
36	18.898		20893	V	3157	-------	2.0893e-07
37	19.017		27190	V	3990	-------	2.7190e-07
38	19.167		38734	V	4359	-------	3.8734e-07
39	19.470		35936	V	5072	-------	3.5936e-07
40	19.579	TOXAPHENE-2	73050	V	13510	1e-15	0.5000
41	19.752	TOXAPHENE-3	92503	V	11388	8e-15	0.5000
42	20.058		11605	B	2567	-------	1.1605e-07
44	20.349		20419	V	3572	-------	2.0419e-07
45	20.459		18915	V	2939	-------	1.8915e-07
46	20.604		43976	V	5812	-------	4.3976e-07
47	20.990		9142	B	1343	-------	9.1420e-08
48	21.264		6904	B	1517	-------	6.9035e-08
49	21.563		7616	B	1222	-------	7.6158e-08
50	21.678		6726	V	1287	-------	6.7265e-08
51	22.067		7060	B	1226	-------	7.0600e-08
53	22.775		9126	V	917	-------	9.1260e-08
57	24.695	DCBP	112460	B	12348	1e-15	0.0200
			1251352		181211		1.5400

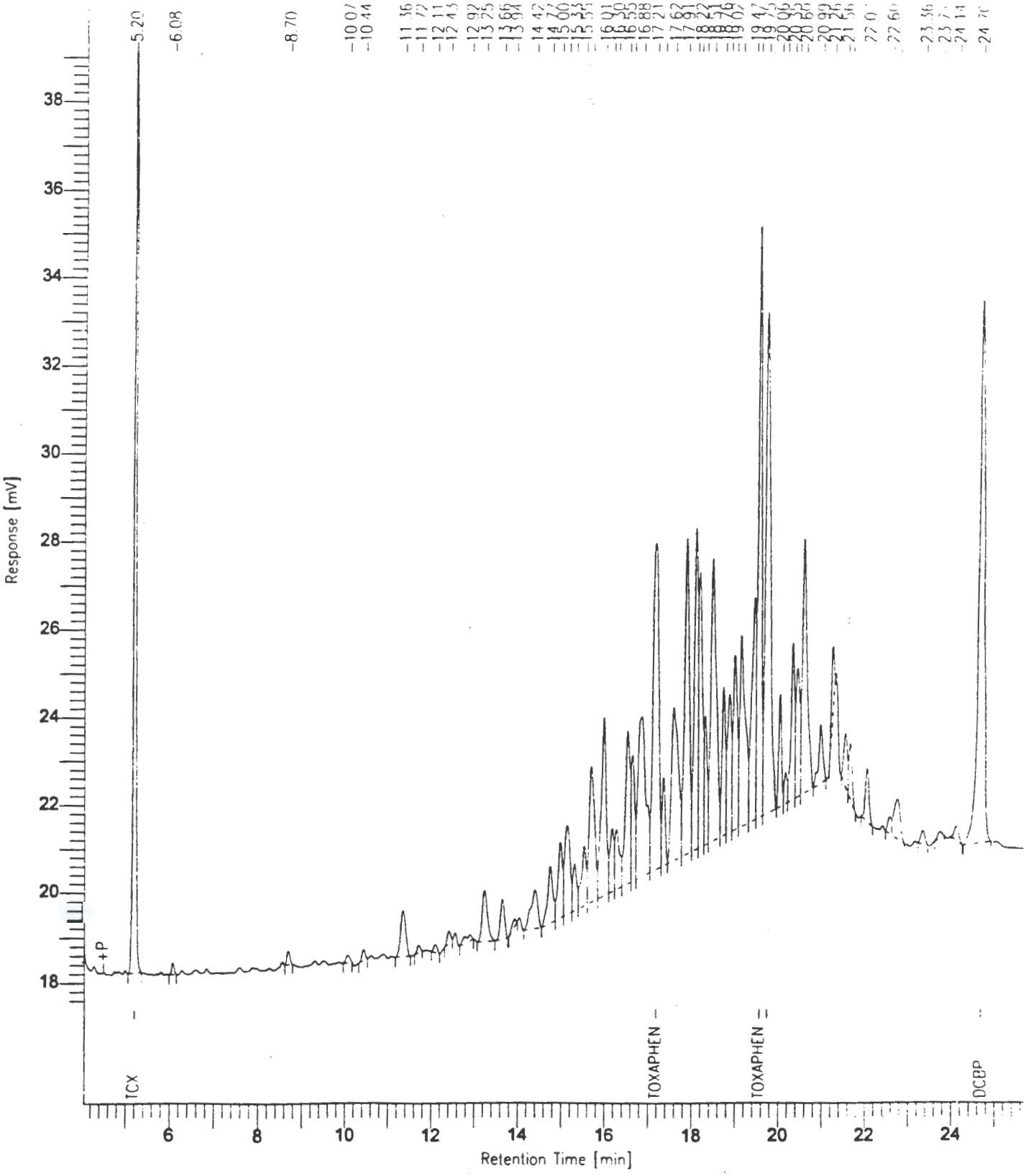
Chromatogram

Sample Name : ICV*TOXAPH*1
FileName : C:\TC4\DATA1\992A013.RAW
Method :
Start Time : 4.06 min
Scale Factor: 0.0

End Time : 25.76 min
Plot Offset: 17 mV

Sample #:
Date : 6/14/94 09:37 AM
Time of Injection: 6/13/94 07:34 PM
Low Point : 17.41 mV
Plot Scale: 21.7 mV

High Point : 39.12 mV



Software Version: 4.0<1C29>
Sample Name : ICV*INDAL*1 Time : 6/14/94 09:37 AM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 08:16 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A014.RAW
Result File : C:\TC4\DATA1\992A014.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A014.RST
Proc Method : C:\TC4\DATA1\992AAL from C:\TC4\DATA1\992A014.RST
Calib Method : C:\TC4\DATA1\992AAL from C:\TC4\DATA1\992A014.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 17

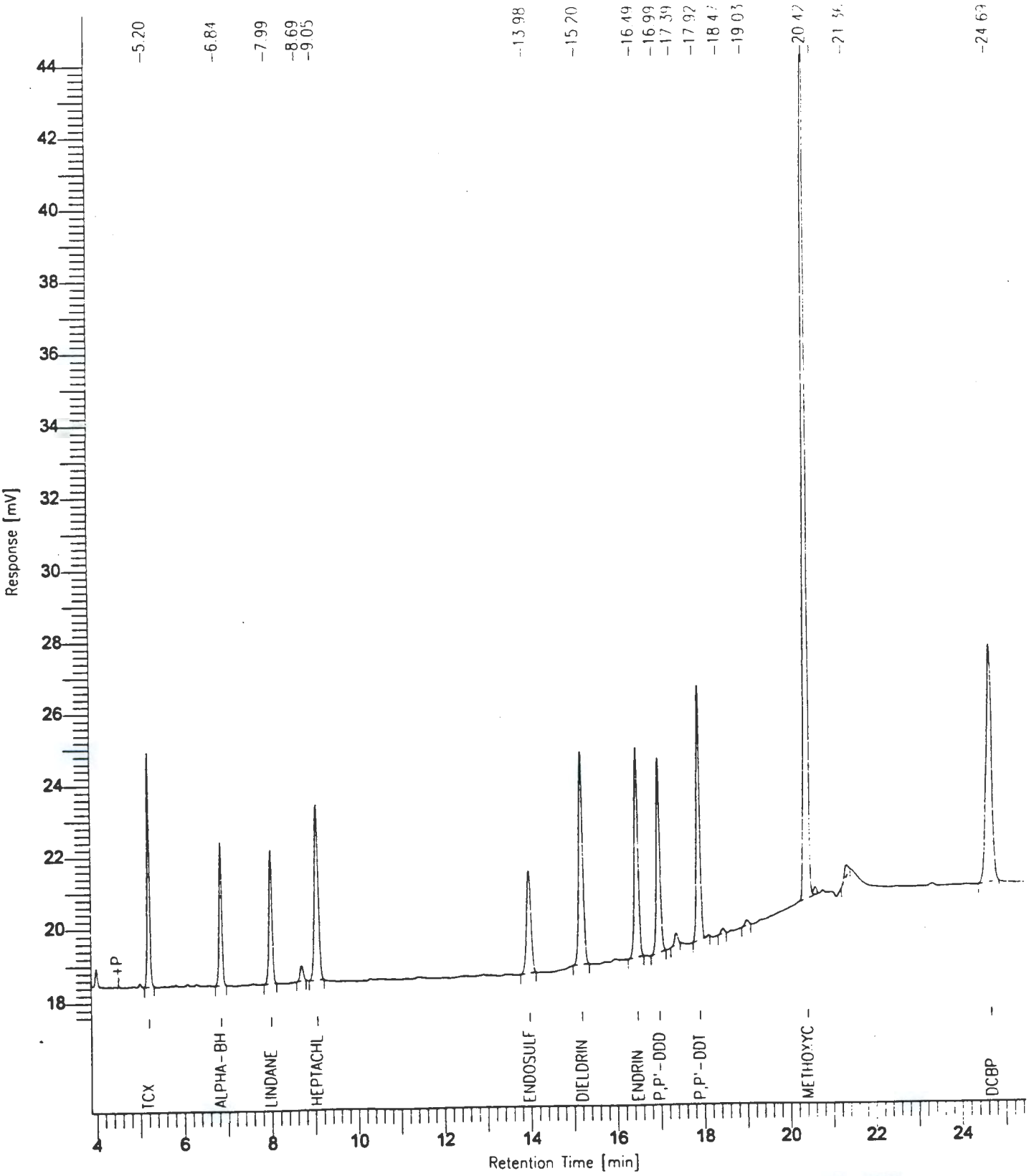
DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.198	TCX	22279	B	6520	-6e-15	0.0050
2	6.844	ALPHA-BHC	16801	B	3984	3e-15	0.0050
3	7.992	LINDANE	17768	B	3704	-2e-15	0.0050
5	9.050	HEPTACHLOR	30142	B	4872	-5e-15	0.0050
6	13.980	ENDOSULFAN A	20244	B	2853	5e-15	0.0050
7	15.201	DIELDRIN	38134	B	5967	5e-15	0.0100
8	16.486	ENDRIN	34376	B	5901	-1e-14	0.0100
9	16.991	P,P'-DDD	29893	B	5465	-4e-15	0.0100
11	17.917	P,P'-DDT	36634	B	7130	-1e-15	0.0100
14	20.424	METHOXYCHLOR	152366	B	31183	6e-15	0.0500
17	24.693	DCBP	57624	B	6628	5e-15	0.0100

Chromatogram

Sample Name : ICV*INDAL*1
FileName : C:\TC4\DATA1\992A014.RAW
Method :
Start Time : 3.87 min End Time : 25.58 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 6/14/94 09:37 AM
Time of Injection: 6/13/94 08:16 PM
Low Point : 17.59 mV High Point : 44.12 mV
Plot Scale: 26.5 mV



Software Version: 4.0<1C29>
Sample Name : ICV*INDBL*1 Time : 6/14/94 09:37 AM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 08:58 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A015.RAW
Result File : C:\TC4\DATA1\992A015.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A015.RST
Proc Method : C:\TC4\DATA1\992ABL from C:\TC4\DATA1\992A015.RST
Calib Method : C:\TC4\DATA1\992ABL from C:\TC4\DATA1\992A015.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 19

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.197	TCX	22424	B	6584	7e-15	0.0050
2	8.209	BETA-BHC	13264	B	2860	0.0000	0.0050
4	9.452	DELTA-BHC	15336	B	3000	6e-15	0.0050
5	10.215	ALDRIN	19930	B	3058	-1e-15	0.0050
6	12.474	HEPTACHLOR EPOXIDE	23294	B	3284	-6e-15	0.0050
7	13.176	GAMMA-CHLORDANE	28678	B	3973	4e-15	0.0050
8	13.895	ALPHA-CHLORDANE	27180	B	3816	9e-16	0.0050
9	15.029	P,P'-DDE	37056	B	6087	-5e-15	0.0100
11	17.101	ENDOSULFAN B	34795	B	6340	6e-15	0.0100
13	18.142	ENDRIN ALDEHYDE	30234	B	5975	3e-15	0.0100
14	18.510	ENDOSULFAN SULFATE	38180	B	7414	4e-15	0.0100
17	20.621	ENDRIN KETONE	34779	B	7121	-1e-15	0.0100

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
19	24.688	DCBP	57395	B	6598	-1e-15	0.0100
			382547		66111		0.0950

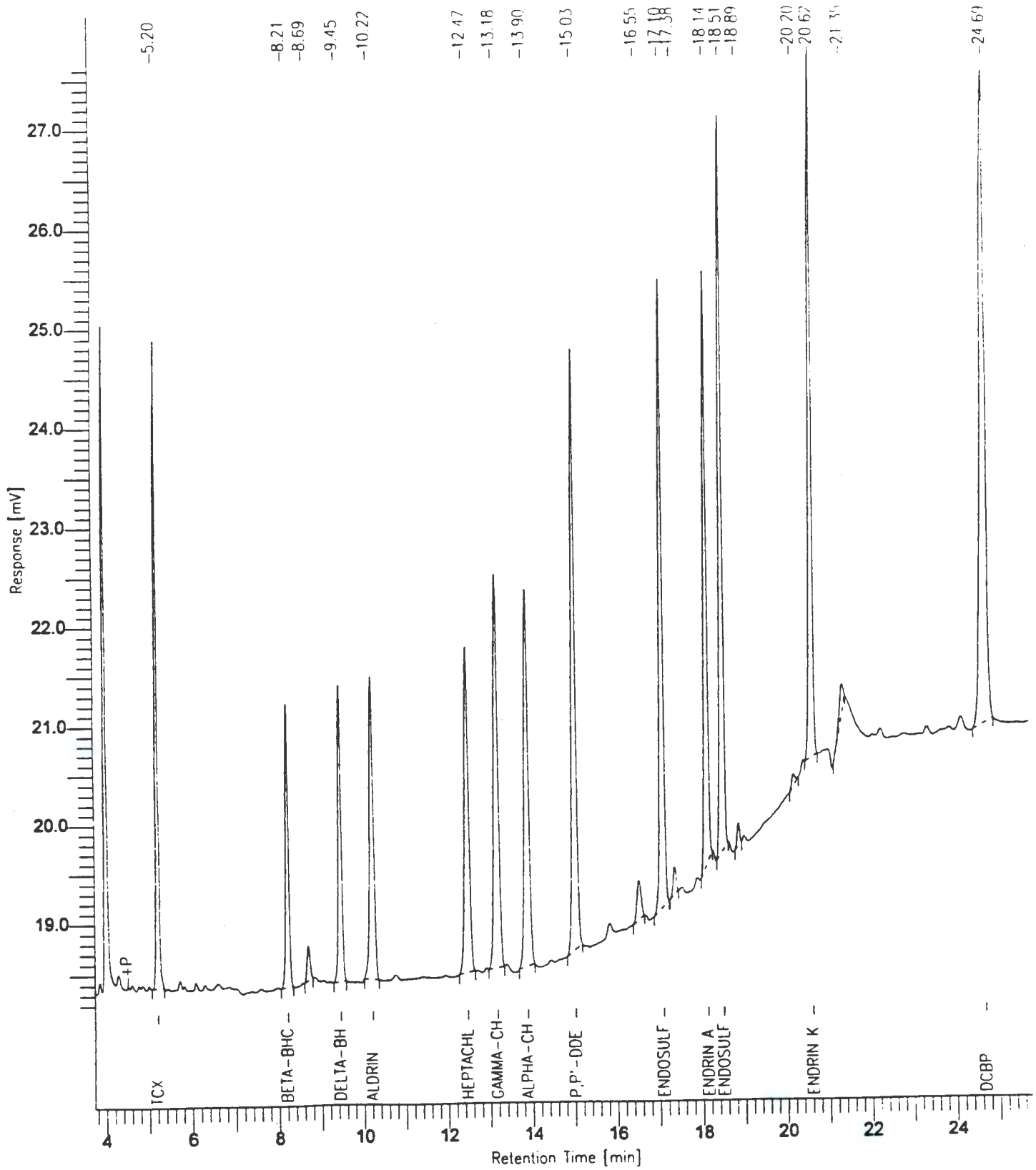
9513356.0652

Chromatogram

Sample Name : ICV*INDBL*1
FileName : C:\TC4\DATA1\992A015.RAW
Method :
Start Time : 3.72 min
Scale Factor: 0.0

End Time : 25.76 min
Plot Offset: 18 mV

Sample #:
Date : 6/14/94 09:37 AM
Time of Injection: 6/13/94 08:58 PM
Low Point : 18.12 mV
Plot Scale: 9.6 mV



000083

Software Version: 4.0<1C29>
Sample Name : ICV*INDAM*1 Time : 6/14/94 09:38 AM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 09:41 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A016.RAW
Result File : C:\TC4\DATA1\992A016.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A016.RST
Proc Method : C:\TC4\DATA1\992AAM from C:\TC4\DATA1\992A016.RST
Calib Method : C:\TC4\DATA1\992AAM from C:\TC4\DATA1\992A016.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 22

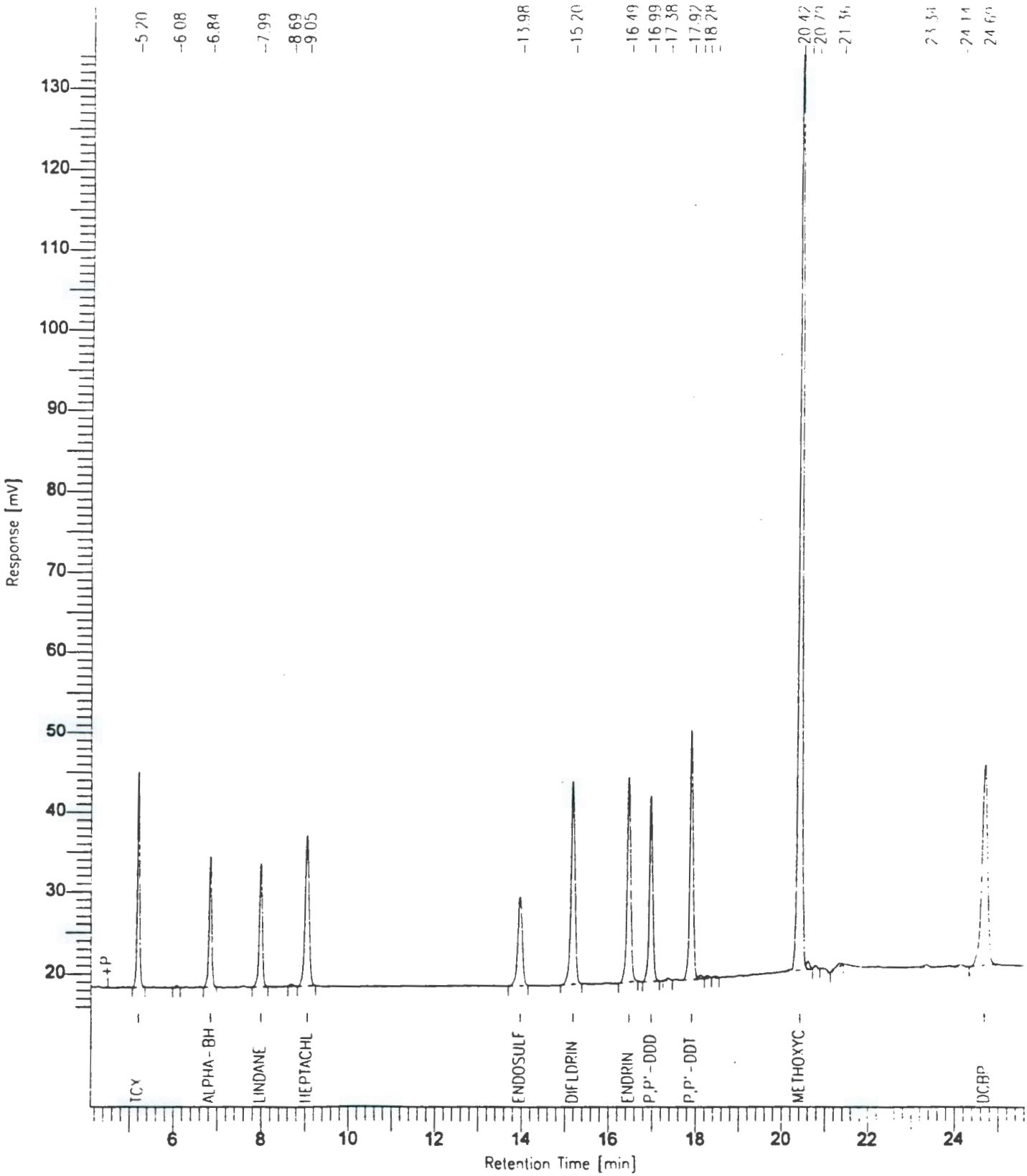
DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.198	TCX	94012	B	26837	7e-15	0.0200
3	6.844	ALPHA-BHC	68098	B	16149	3e-15	0.0200
4	7.991	LINDANE	72783	B	15163	-7e-16	0.0200
6	9.048	HEPTACHLOR	117035	B	18627	-9e-15	0.0200
7	13.976	ENDOSULFAN A	78574	B	10852	5e-15	0.0200
8	15.201	DIELDRIN	159784	B	25213	-8e-16	0.0400
9	16.485	ENDRIN	147787	B	25544	1e-15	0.0400
10	16.990	P,P'-DDD	123304	B	23151	6e-15	0.0400
12	17.917	P,P'-DDT	162210	B	31133	-5e-15	0.0400
16	20.423	METHOXYCHLOR	667379	B	130031	7e-15	0.2000
22	24.692	DCBP	222626	B	25225	0.0000	0.0400

Chromatogram

Sample Name : ICV*INDAM*1
FileName : C:\TC4\DATA1\992A016.RAW
Method :
Start Time : 4.11 min End Time : 25.72 min
Scale Factor: 0.0 Plot Offset: 15 mV

Sample #:
Date : 6/14/94 09:38 AM
Time of Injection: 6/13/94 09:41 PM
Low Point : 15.26 mV High Point : 134.46 mV
Plot Scale: 119.2 mV



Software Version: 4.0<1C29>
Sample Name : ICV*INDBM*1 Time : 6/14/94 09:38 AM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 10:23 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A017.RAW
Result File : C:\TC4\DATA1\992A017.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A017.RST
Proc Method : C:\TC4\DATA1\992ABM from C:\TC4\DATA1\992A017.RST
Calib Method : C:\TC4\DATA1\992ABM from C:\TC4\DATA1\992A017.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 24

DATA REPORT

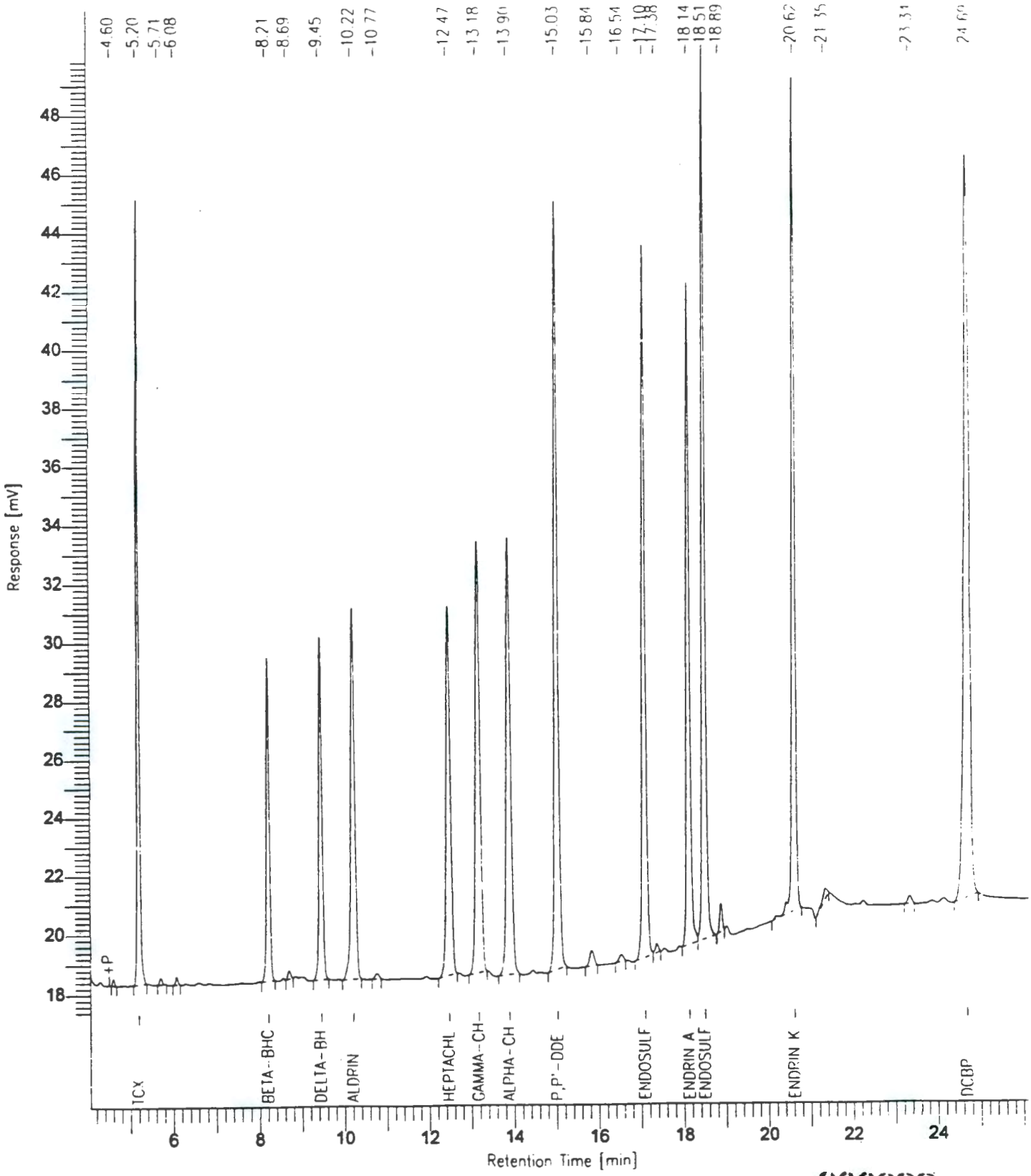
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	5.197	TCX	92941	B	27012	2e-15	0.0200
5	8.209	BETA-BHC	51909	B	11070	-3e-15	0.0200
7	9.453	DELTA-BHC	60350	B	11778	-3e-15	0.0200
8	10.216	ALDRIN	83396	B	12718	2e-15	0.0200
10	12.474	HEPTACHLOR EPOXIDE	88632	B	12667	1e-15	0.0200
11	13.179	GAMMA-CHLORDANE	108836	B	14805	2e-15	0.0200
12	13.895	ALPHA-CHLORDANE	108506	B	14990	-5e-15	0.0200
13	15.030	P,P'-DDE	153705	B	26353	-5e-15	0.0400
16	17.101	ENDOSULFAN B	134386	B	24370	3e-15	0.0400
18	18.143	ENDRIN ALDEHYDE	120667	B	22650	8e-15	0.0400
19	18.512	ENDOSULFAN SULFATE	156663	V	30432	6e-15	0.0400
21	20.621	ENDRIN KETONE	144200	B	28731	-3e-15	0.0400

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
24	24.693	DCBP	218387	B	25472	-4e-15	0.0400
			1522577		263046		0.3800

Chromatogram

Sample Name : ICV*INDBM*1
FileName : C:\TC4\DATA1\992A017.RAW
Method :
Start Time : 4.06 min End Time : 26.14 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 6/14/94 09:38 AM
Time of Injection: 6/13/94 10:23 PM
Low Point : 17.36 mV High Point : 49.98 mV
Plot Scale: 32.6 mV



Software Version: 4.0<1C29>
Sample Name : ICV*INDAH*1 Time : 6/14/94 09:39 AM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 11:05 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A018.RAW
Result File : C:\TC4\DATA1\992A018.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A018.RST
Proc Method : C:\TC4\DATA1\992AAH from C:\TC4\DATA1\992A018.RST
Calib Method : C:\TC4\DATA1\992AAH from C:\TC4\DATA1\992A018.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 29

DATA REPORT

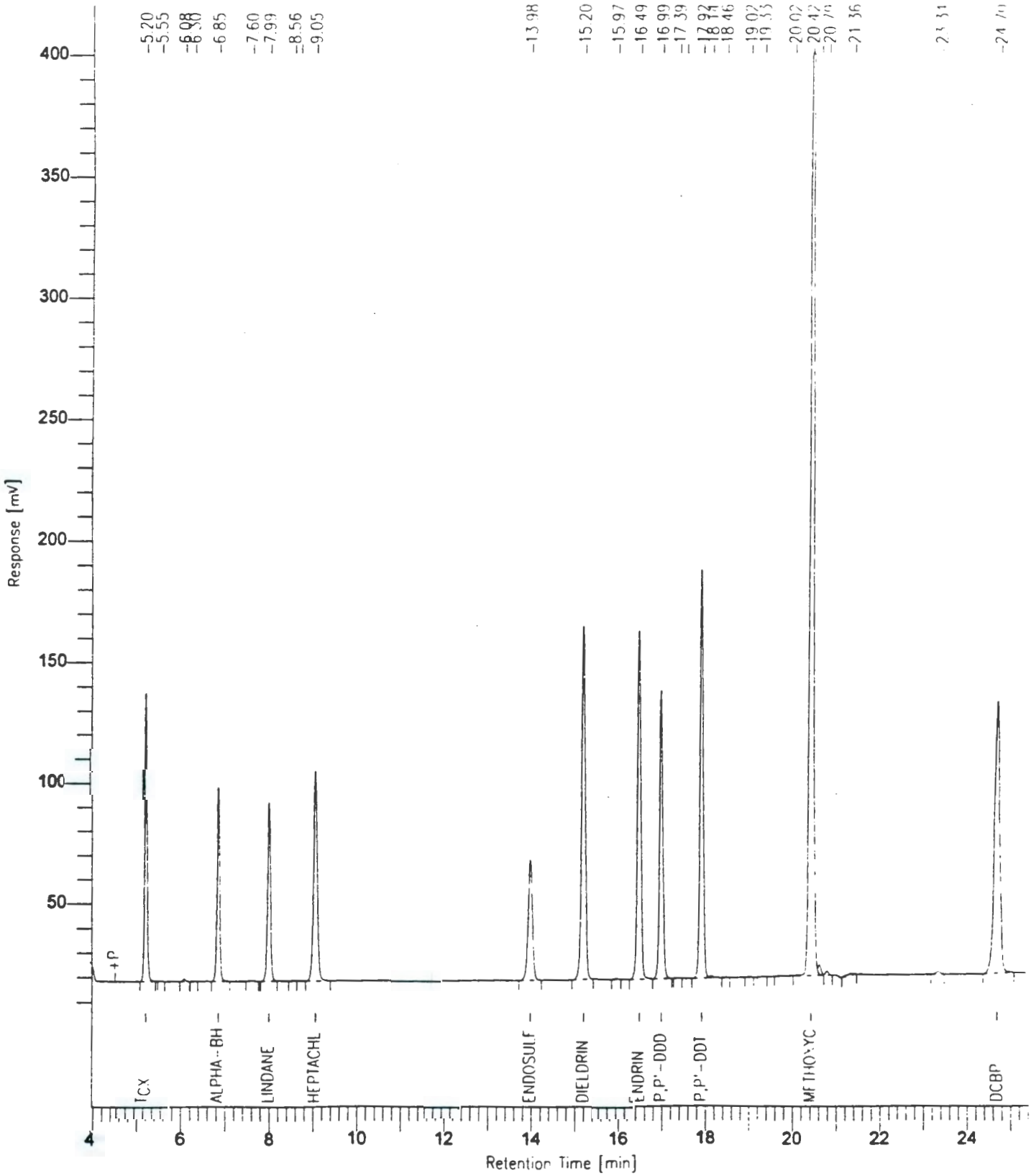
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.198	TCX	430128	B	119331	-2e-15	0.0800
5	6.845	ALPHA-BHC	321734	B	80489	-9e-16	0.0800
7	7.992	LINDANE	334816	B	73442	-4e-15	0.0800
10	9.051	HEPTACHLOR	508653	B	86648	-1e-15	0.0800
11	13.979	ENDOSULFAN A	339207	B	49769	6e-15	0.0800
12	15.204	DIELDRIN	857638	B	146934	-2e-15	0.1600
14	16.488	ENDRIN	789752	B	145017	-1e-14	0.1600
15	16.991	P,P'-DDD	610750	B	119300	-8e-15	0.1600
18	17.919	P,P'-DDT	847960	B	169337	-7e-15	0.1600
24	20.423	METHOXYCHLOR	2790567	V	534067	-3e-15	0.8000
29	24.697	DCBP	956976	B	113111	-1e-15	0.1600

9513556.0659

Chromatogram

Sample Name : ICV*INDAH*1
FileName : C:\TC4\DATA1\992A018.RAW
Method :
Start Time : 3.97 min End Time : 25.43 min
Scale Factor: 0.0 Plot Offset: 6 mV

Sample #:
Date : 6/14/94 09:39 AM
Time of Injection: 6/13/94 11:05 PM
Low Point : 5.85 mV High Point : 400.77 mV
Plot Scale: 394.9 mV



000090

Software Version: 4.0<1C29>
Sample Name : ICV*INDBH*1 Time : 6/14/94 09:39 AM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 11:48 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A019.RAW
Result File : C:\TC4\DATA1\992A019.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A019.RST
Proc Method : C:\TC4\DATA1\992ABH from C:\TC4\DATA1\992A019.RST
Calib Method : C:\TC4\DATA1\992ABH from C:\TC4\DATA1\992A019.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 35

DATA REPORT

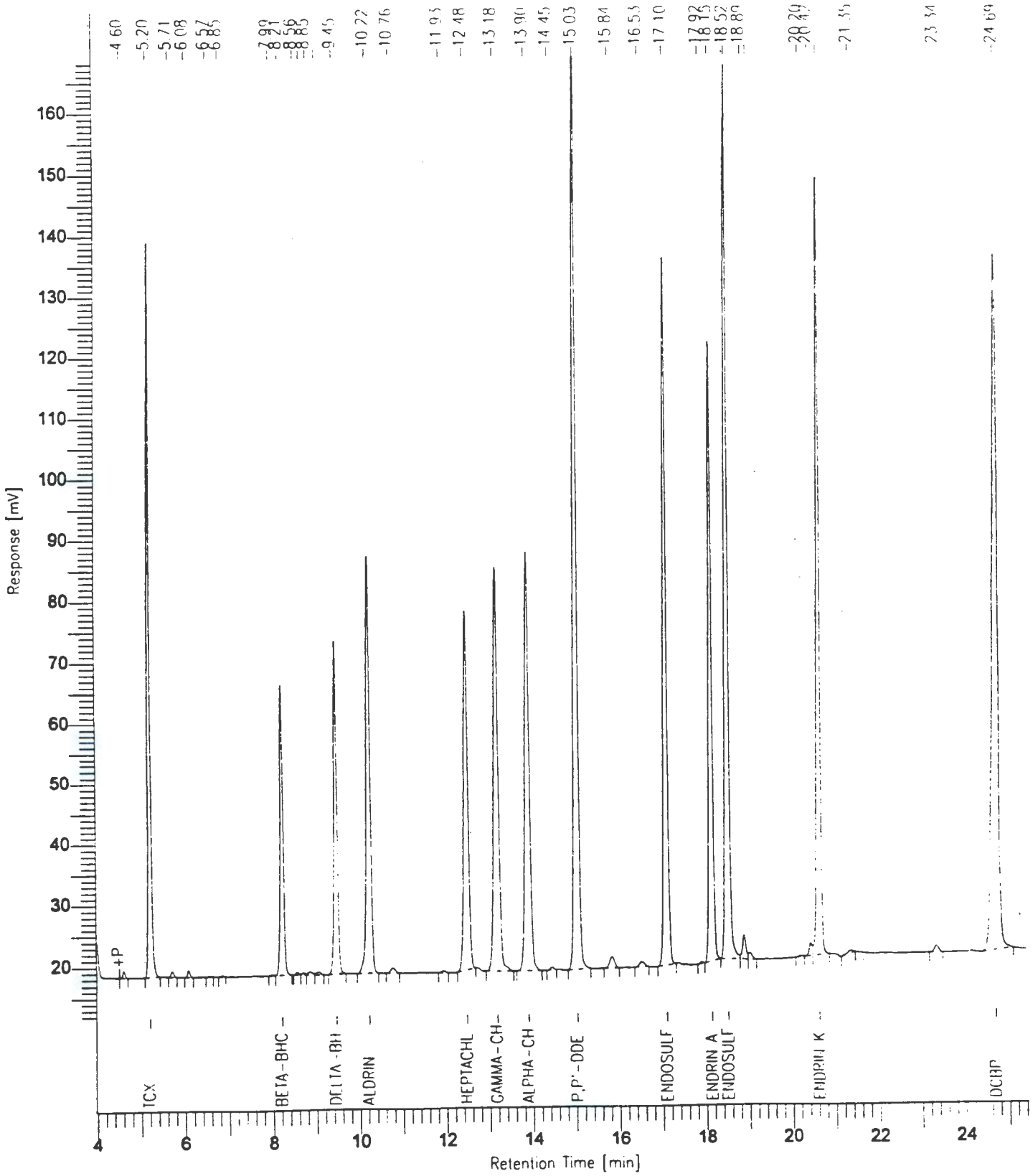
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	5.199	TCX	437440	B	120893	7e-15	0.0800
8	8.209	BETA-BHC	225397	V	47826	7e-15	0.0800
13	9.453	DELTA-BHC	274039	B	55034	-1e-15	0.0800
14	10.218	ALDRIN	421327	B	68691	-5e-15	0.0800
17	12.477	HEPTACHLOR EPOXIDE	395669	B	59195	6e-15	0.0800
18	13.178	GAMMA-CHLORDANE	485996	B	66561	-4e-15	0.0800
19	13.898	ALPHA-CHLORDANE	485102	B	69038	4e-15	0.0800
21	15.034	P,P'-DDE	877082	B	156843	8e-16	0.1600
24	17.104	ENDOSULFAN B	615486	B	117160	0.0000	0.1600
26	18.145	ENDRIN ALDEHYDE	519592	B	102501	-8e-15	0.1600
27	18.515	ENDOSULFAN SULFATE	766094	B	147120	-4e-15	0.1600
32	20.621	ENDRIN KETONE	627763	V	128934	-6e-15	0.1600

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
35	24.694	DCBP	974245	B	114725	3e-15	0.1600
			7105233		1254521		1.5200

Chromatogram

Sample Name : ICV*INDBH*1
FileName : C:\TC4\DATA1\992A019.RAW
Method :
Start Time : 3.97 min End Time : 25.43 min
Scale Factor: 0.0 Plot Offset: 12 mV

Sample #:
Date : 6/14/94 09:39 AM
Time of Injection: 6/13/94 11:48 PM
Low Point : 11.86 mV High Point : 168.80 mV
Plot Scale: 156.9 mV



Software Version: 4.0<1C29>
Sample Name : CK*PEM*2 Time : 6/14/94 09:40 AM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/14/94 01:12 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A021.RAW
Result File : C:\TC4\DATA1\992A021.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A021.RST
Proc Method : C:\TC4\DATA1\992APEM from C:\TC4\DATA1\992A021.RST
Calib Method : C:\TC4\DATA1\992APEM from C:\TC4\DATA1\992A021.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 20

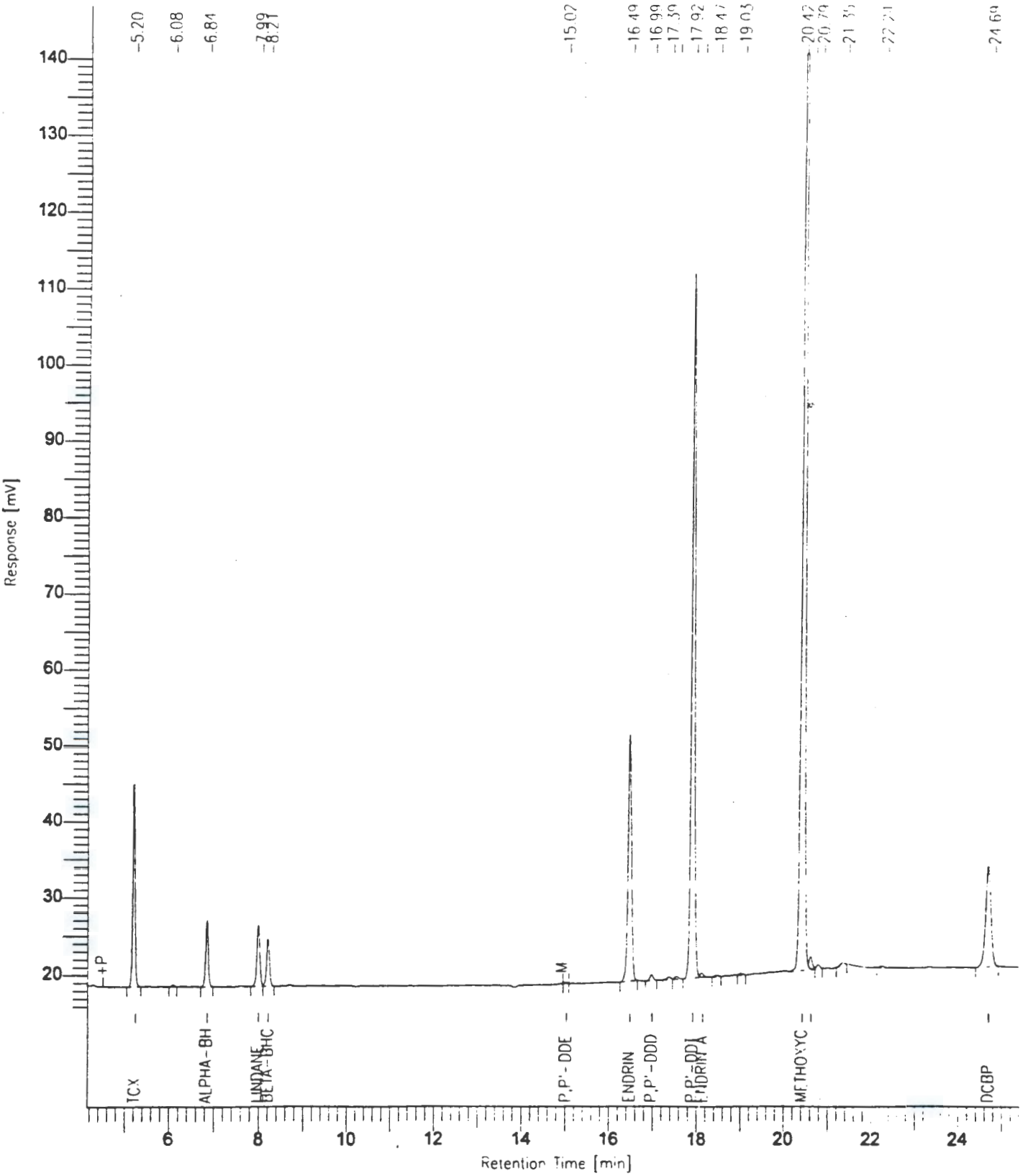
DATA REPORT

Peak #	Ret Time (min)	Component Name	Area (uV-sec)	BL	Height (uV)	Delta RT (%)
1	5.197	TCX	91321	B	26631	-0.8123
3	6.843	ALPHA-BHC	35293	B	8548	-0.0892
4	7.990	LINDANE	36969	B	7868	-0.0834
5	8.208	BETA-BHC	28351	V	6071	-0.0786
7	16.485	ENDRIN	178064	B	32540	-0.0361
8	16.988	P,P'-DDD	4287	B	780	-0.0436
11	17.919	P,P'-DDT	462564	B	92444	-0.0136
12	18.131	ENDRIN ALDEHYDE	2880	E	543	-0.0947
15	20.424	METHOXYCHLOR	819351	B	163231	-0.0170
16	20.619	ENDRIN KETONE	7988	E	1629	-0.0369
20	24.691	DCBP	113914	B	13181	-0.0312

Chromatogram

Sample Name : CK*PEM*2
FileName : C:\TC4\DATA1\992A021.RAW
Method :
Start Time : 4.15 min End Time : 25.48 min
Scale Factor: 0.0 Plot Offset: 15 mV

Sample #:
Date : 6/14/94 09:40 AM
Time of Injection: 6/14/94 01:12 AM
Low Point : 15.23 mV High Point : 140.81 mV
Plot Scale: 125.6 mV



Software Version: 4.0<1C29>
Sample Name : HEXANE
Sample Number:
Operator : LFS

Time : 6/14/94 02:12 PM
Study :

Instrument : HP58909
AutoSampler :
Rack/Vial : 0/0

Channel : A A/D mV Range : 1000

Interface Serial # : 9004570342 Data Acquisition Time: 6/14/94 10:23 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A034.RAW
Result File : C:\TC4\DATA1\992A034.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A034.RST
Proc Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A034.RST
Calib Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A034.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 6193.000000
Dilution Factor : 1.00

Noise Threshold: 33
Area Threshold : 444
Bunch Factor: 1
Multiplier : 1.0000
Divisor : 1.0000
Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 5

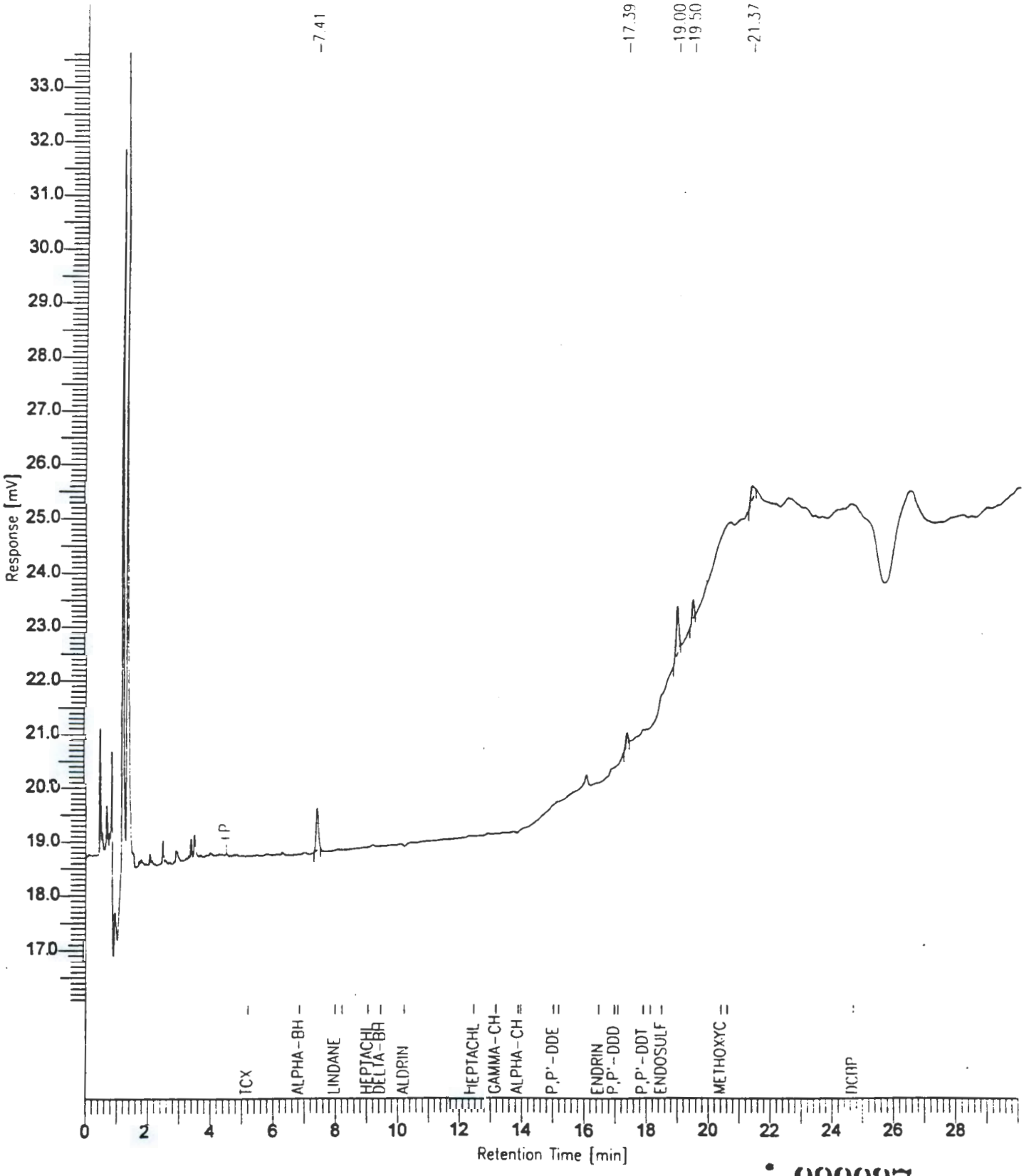
DATA REPORT

No peaks available to report

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\DATA1\992A034.RAW
Method :
Start Time : 0.00 min End Time : 30.00 min
Scale Factor: 0.0 Plot Offset: 16 mV

Sample #:
Date : 6/14/94 02:12 PM
Time of Injection: 6/14/94 10:23 AM
Low Point : 16.01 mV High Point : 33.65 mV
Plot Scale: 17.6 mV



Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*2 Time : 6/14/94 02:12 PM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/14/94 11:05 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A035.RAW
Result File : C:\TC4\DATA1\992A035.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A035.RST
Proc Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A035.RST
Calib Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A035.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 6193.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 8

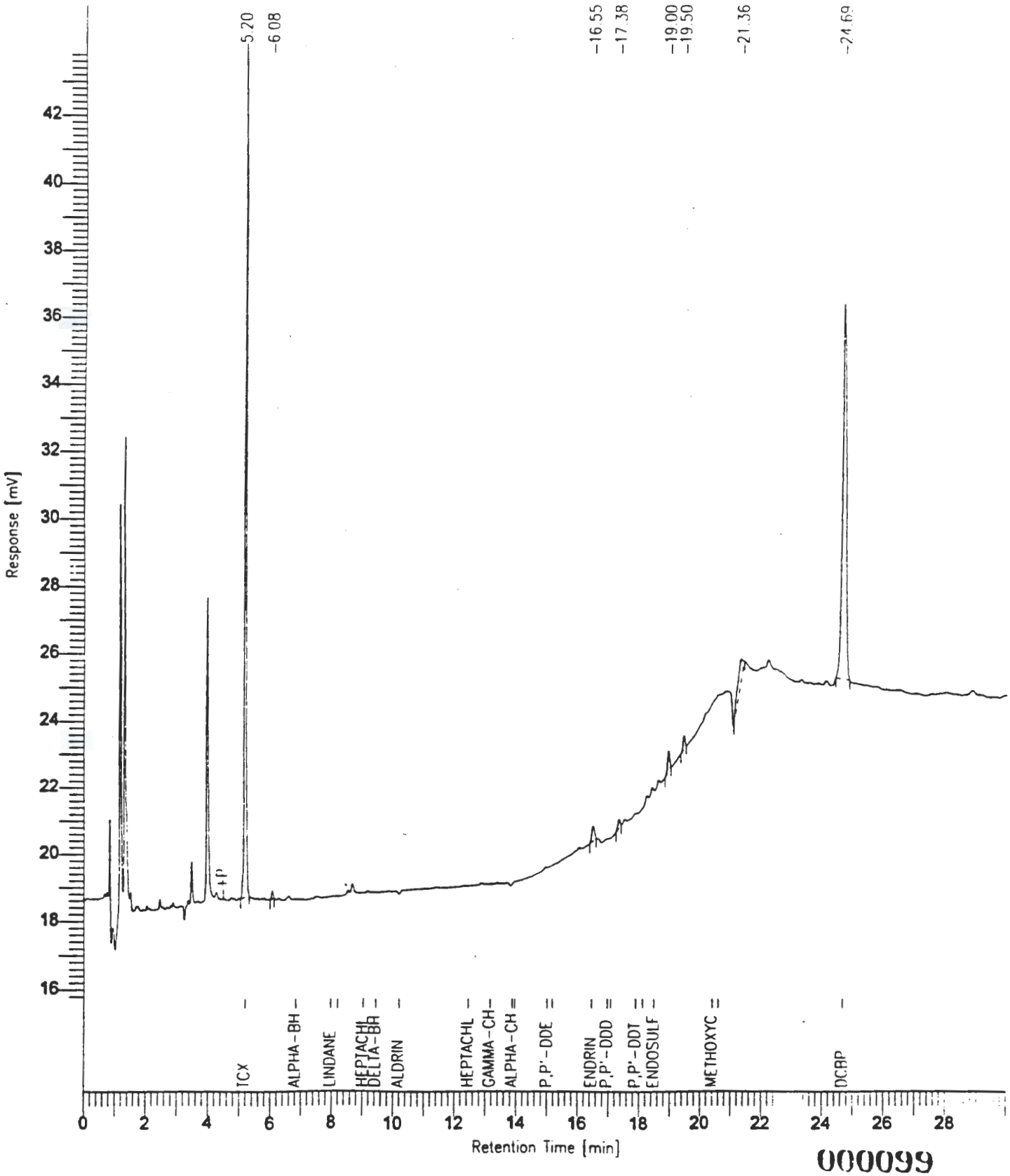
DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.197	TCX	87212	B	25352	-0.0142
7	21.356		9205	B	629	-------
8	24.689	DCBP	95660	B	11151	-0.0119
			192078		37132	

Chromatogram

Sample Name : MB*PIBLK*2
FileName : C:\TC4\DATA1\992A035.RAW
Method :
Start Time : 0.00 min End Time : 30.00 min
Scale Factor: 0.0 Plot Offset: 16 mV

Sample #:
Date : 6/14/94 02:12 PM
Time of Injection: 6/14/94 11:05 AM
Low Point : 15.76 mV High Point : 43.87 mV
Plot Scale: 28.1 mV



Software Version: 4.0<1C29>
Sample Name : CCS*INDAM*2 Time : 6/14/94 02:13 PM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/14/94 11:47 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A036.RAW
Result File : C:\TC4\DATA1\992A036.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A036.RST
Proc Method : C:\TC4\DATA1\992AAM from C:\TC4\DATA1\992A036.RST
Calib Method : C:\TC4\DATA1\992AAM from C:\TC4\DATA1\992A036.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 23

DATA REPORT

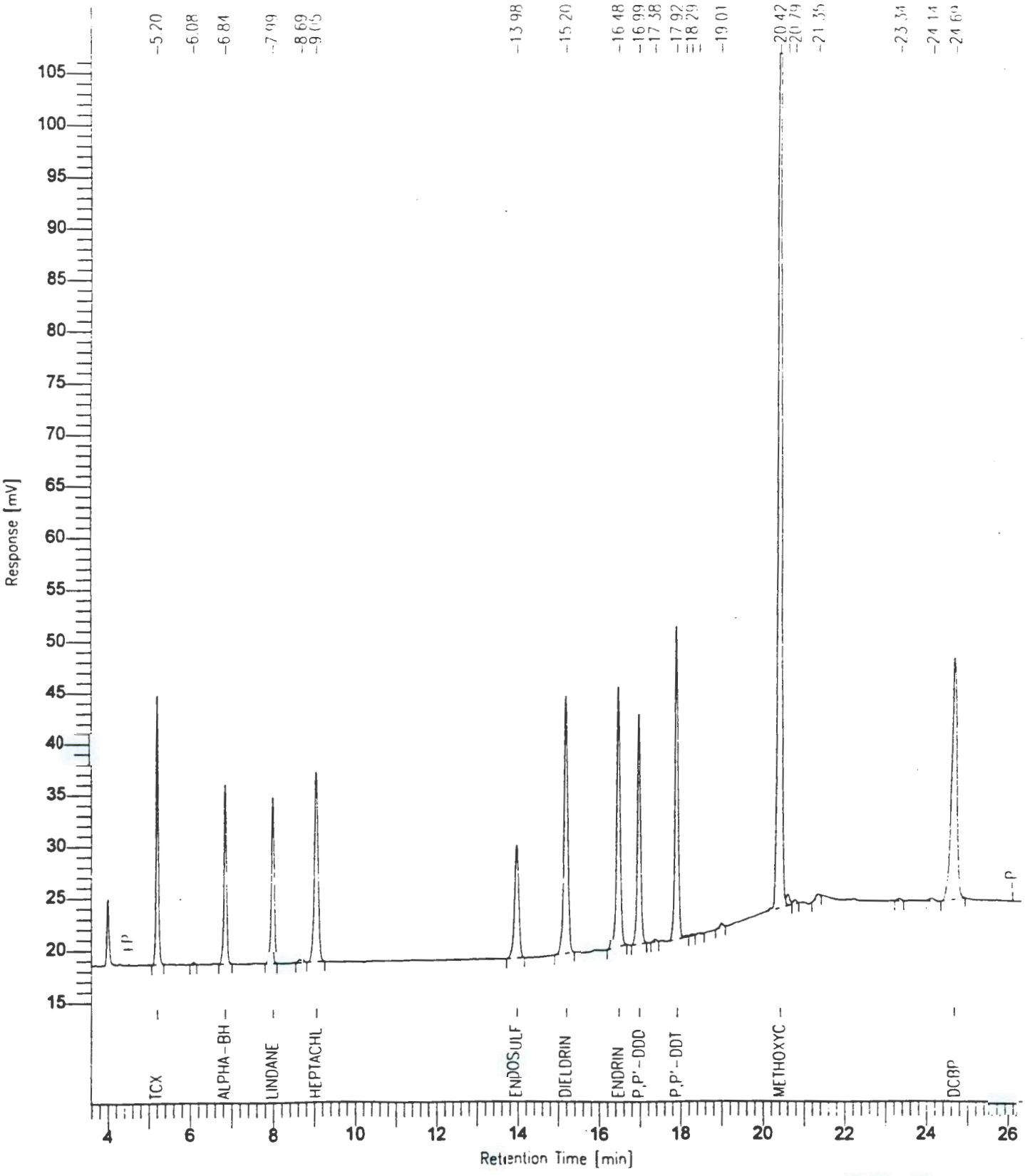
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.197	TCX	93702	B	26424	-0.0253	0.0200
3	6.843	ALPHA-BHC	73482	B	17345	-0.0149	0.0200
4	7.990	LINDANE	77298	B	16108	-0.0161	0.0200
6	9.046	HEPTACHLOR	117919	B	18471	-0.0195	0.0200
7	13.976	ENDOSULFAN A	79926	B	10950	-0.0059	0.0200
8	15.200	DIELDRIN	160113	B	25059	-0.0093	0.0400
9	16.484	ENDRIN	147714	B	25311	-0.0024	0.0400
10	16.988	P,P'-DDD	120754	B	22559	-0.0105	0.0400
12	17.916	P,P'-DDT	157579	B	30515	-0.0062	0.0400
17	20.423	METHOXYCHLOR	661694	B	126486	-0.0032	0.2000
23	24.693	DCBP	212836	B	23651	0.0044	0.0400

9513356.0670

Chromatogram

Sample Name : CCS*INDAM*2
FileName : C:\TC4\DATA1\992A036.RAW
Method :
Start Time : 3.58 min End Time : 26.38 min
Scale Factor: 0.0 Plot Offset: 14 mV

Sample #:
Date : 6/14/94 02:13 PM
Time of Injection: 6/14/94 11:47 AM
Low Point : 14.41 mV High Point : 106.85 mV
Plot Scale: 92.4 mV



000101

Software Version: 4.0<1C29>
Sample Name : CCS*INDBM*2 Time : 6/14/94 02:15 PM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/14/94 12:30 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A037.RAW
Result File : C:\TC4\DATA1\992A037.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A037.RST
Proc Method : C:\TC4\DATA1\992ABM.MTH
Calib Method : C:\TC4\DATA1\992ABM.MTH
Sequence File : C:\TC4\HP58909\992A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 25

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	5.197	TCX	95807	B	27461	-1e-15	0.0200
5	8.209	BETA-BHC	55574	B	11893	4e-15	0.0200
7	9.453	DELTA-BHC	66009	B	13014	6e-15	0.0200
8	10.216	ALDRIN	86774	B	13123	-5e-15	0.0200
10	12.477	HEPTACHLOR EPOXIDE	92318	B	12959	-7e-15	0.0200
11	13.175	GAMMA-CHLORDANE	110896	B	14970	4e-15	0.0200
12	13.895	ALPHA-CHLORDANE	109134	B	15132	-5e-15	0.0200
13	15.029	P,P'-DDE	157592	B	26470	-5e-15	0.0400
15	17.103	ENDOSULFAN B	141598	B	25775	8e-15	0.0400
17	18.144	ENDRIN ALDEHYDE	120560	B	23252	-9e-15	0.0400
18	18.512	ENDOSULFAN SULFATE	161277	V	31343	6e-15	0.0400
22	20.622	ENDRIN KETONE	154476	*V	31488	1e-15	0.0400

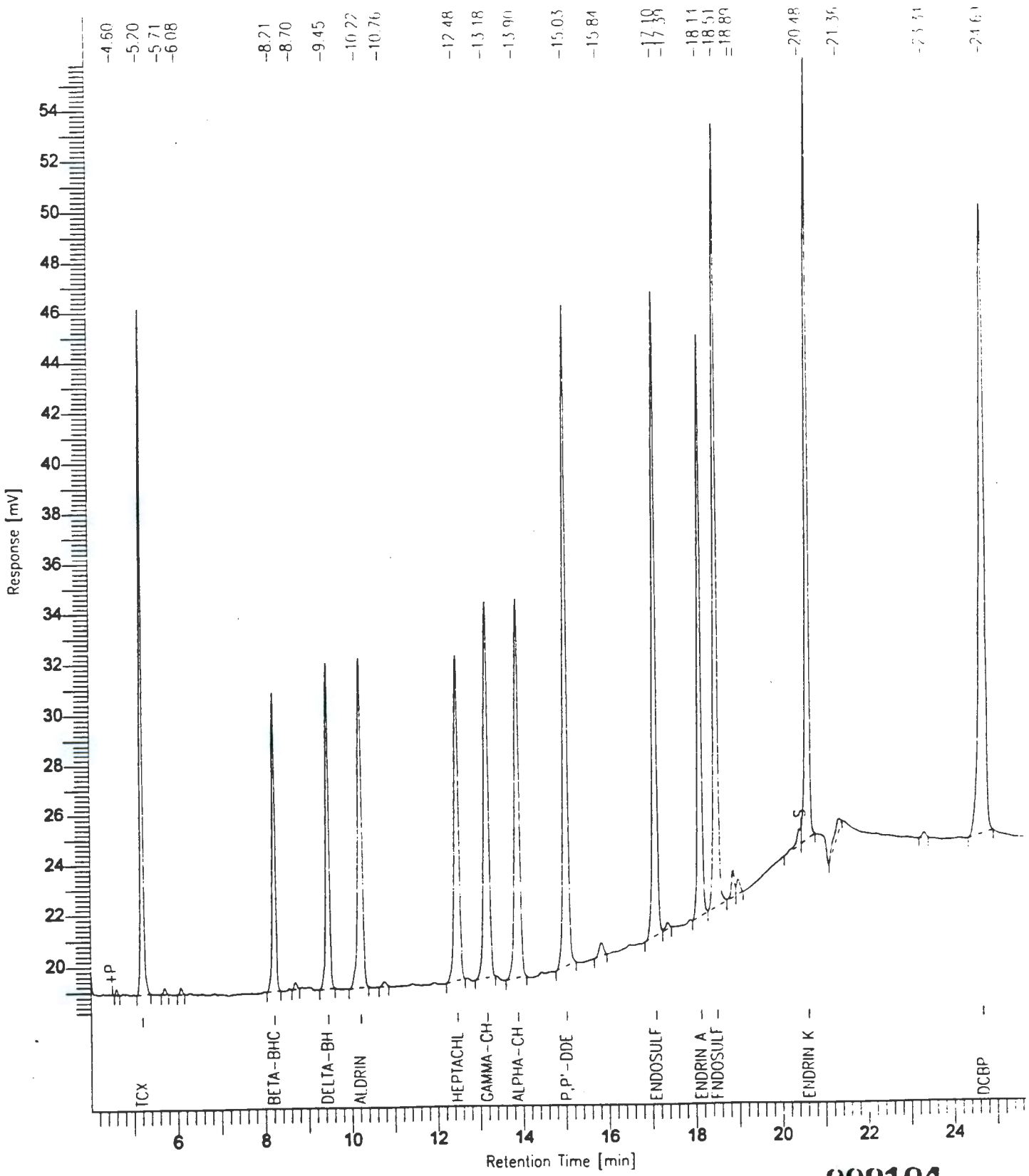
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
25	24.693	DCBP	215416	B	25117	5e-15	0.0400
			1567430		271994		0.3800

9513356.0673

Chromatogram

Sample Name : CCS*INDBM*2
FileName : C:\TC4\DATA1\992A037.RAW
Method : 992ABM.MTH
Start Time : 4.01 min End Time : 25.67 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 6/14/94 02:15 PM
Time of Injection: 6/14/94 12:30 PM
Low Point : 18.05 mV High Point : 55.93 mV
Plot Scale: 37.9 mV



Software Version: 4.0<1C29>
Sample Name : HEXANE
Sample Number: 1
Operator : LFS

Time : 6/16/94 08:12 AM
Study :

Instrument : HP58909
AutoSampler :
Rack/Vial : 0/0

Channel : A A/D mV Range : 1000

Interface Serial # : 9004570342 Data Acquisition Time: 6/14/94 05:58 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A044.RAW
Result File : C:\TC4\DATA1\992A044.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A044.RST
Proc Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A044.RST
Calib Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A044.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 6193.000000
Dilution Factor : 1.00

Noise Threshold: 33
Area Threshold : 444
Bunch Factor: 1
Multiplier : 1.0000
Divisor : 1.0000
Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 9

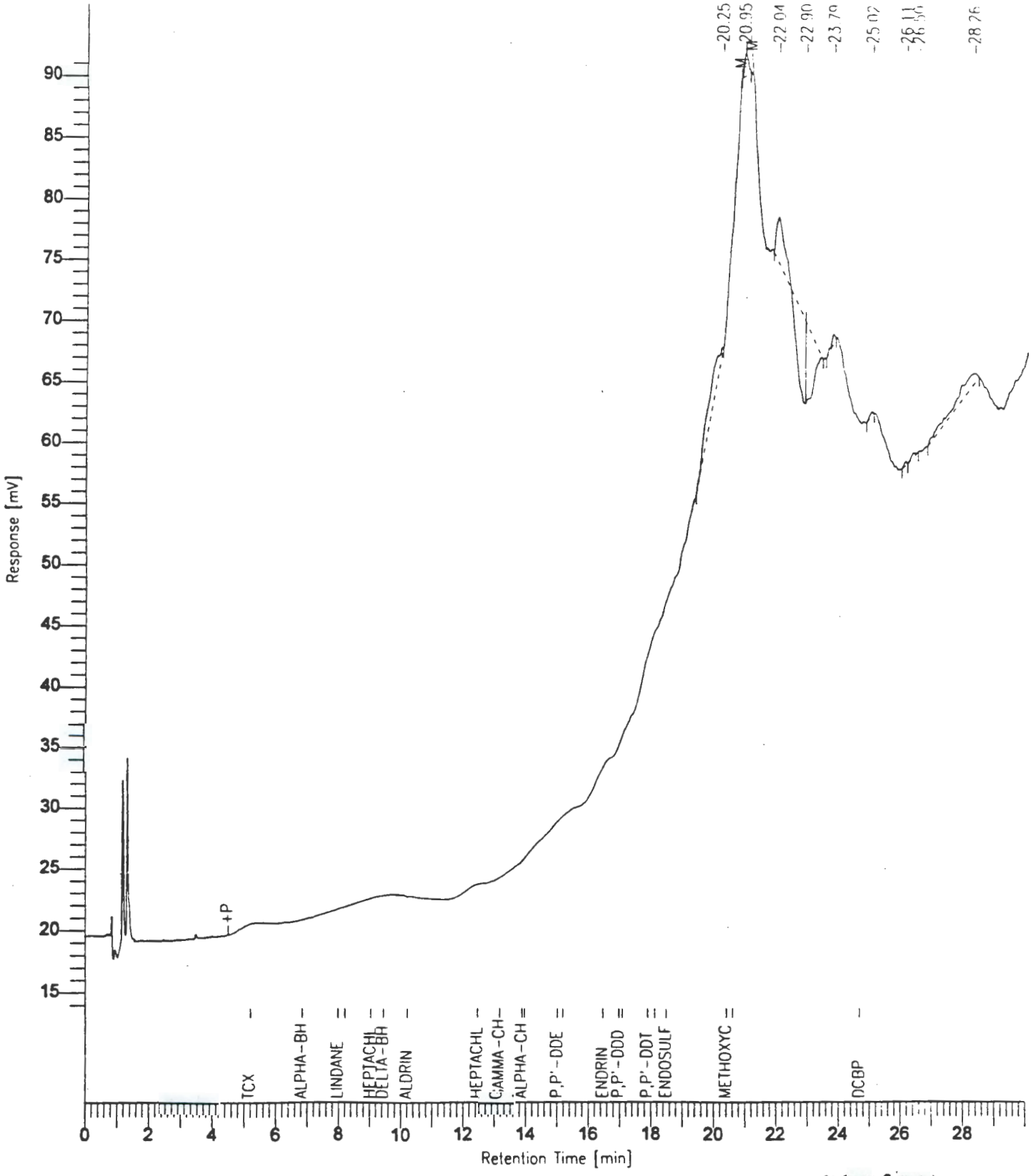
DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	20.249		78446	B	628	-------
2	20.948		15154	*B	1908	-------
3	22.039		64640	B	3779	-------
4	22.900		106141	V	-6756	-------
5	23.791		7056	B	739	-------
9	28.263		59159	B	893	-------
			330597		1193	

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\DATA1\992A044.RAW
Method :
Start Time : 0.00 min End Time : 30.00 min
Scale Factor: 0.0 Plot Offset: 14 mV

Sample #: 1
Date : 6/16/94 08:12 AM
Time of Injection: 6/14/94 05:58 PM
Low Point : 13.74 mV High Point : 91.99 mV
Plot Scale: 78.3 mV



Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*3 Time : 6/16/94 08:12 AM
Sample Number: 1 Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/14/94 06:46 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A045.RAW
Result File : C:\TC4\DATA1\992A045.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A045.RST
Proc Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A045.RST
Calib Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A045.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 6193.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 11

DATA REPORT

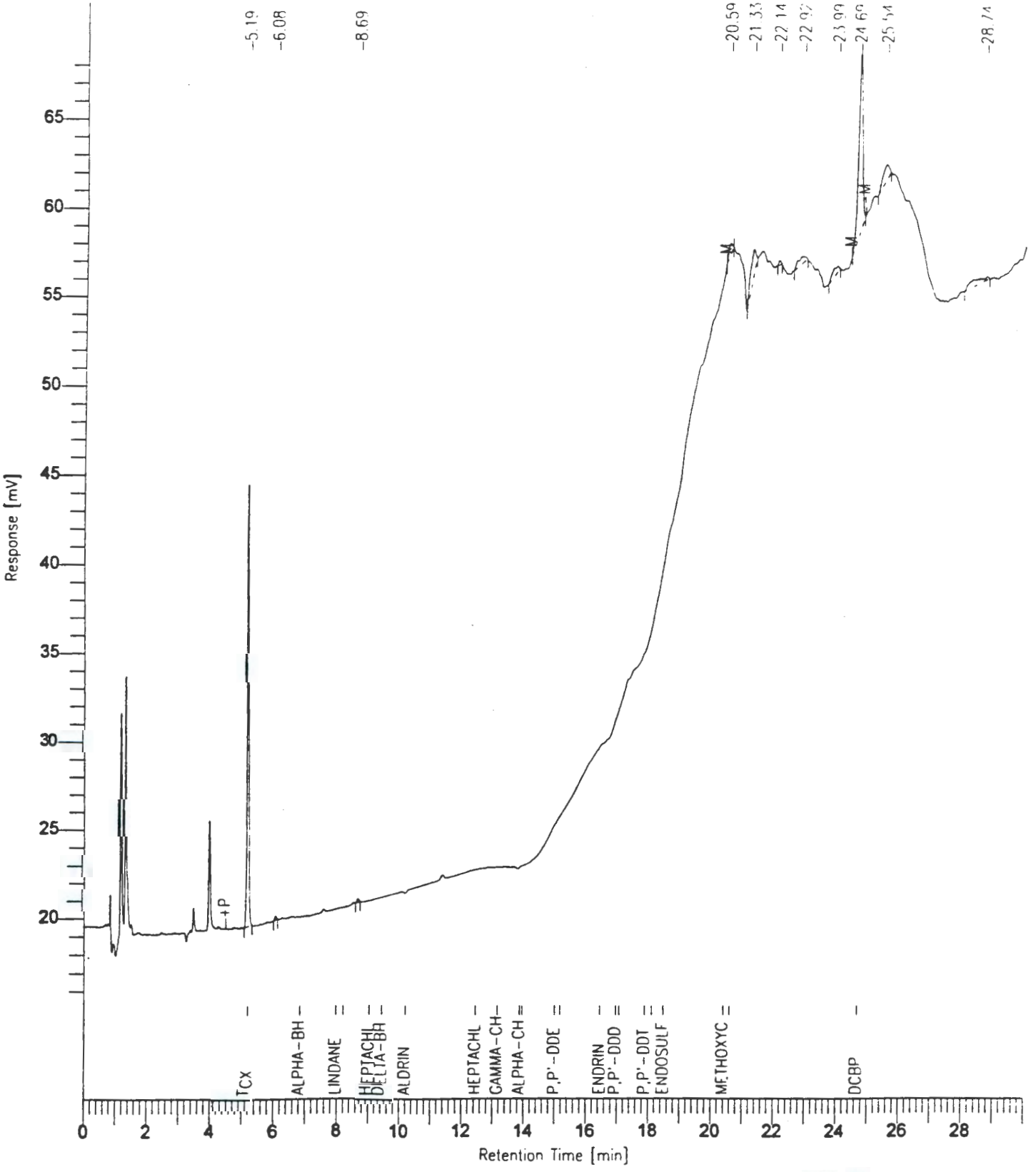
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.194	TCX	87423	B	25078	-0.0768
5	21.333		19552	B	1383	-------
7	22.915		7188	B	308	-------
8	23.992		6431	B	314	-------
9	24.685	DCBP	89312	*B	10169	-0.0266
10	25.542		13440	B	863	-------
11	28.736		11566	B	185	-------
			234912		38299	

9513566.0677

Chromatogram

Sample Name : MB*PIBLK*3
FileName : C:\TC4\DATA1\992A045.RAW
Method :
Start Time : 0.00 min End Time : 30.00 min
Scale Factor: 0.0 Plot Offset: 15 mV

Sample #: 1
Date : 6/16/94 08:12 AM
Time of Injection: 6/14/94 06:46 PM
Low Point : 15.25 mV High Point : 68.87 mV
Plot Scale: 53.6 mV



000108

Software Version: 4.0<1C29>
Sample Name : CK*PEM*3 Time : 6/16/94 08:12 AM
Sample Number: 1 Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/14/94 07:28 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A046.RAW
Result File : C:\TC4\DATA1\992A046.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A046.RST
Proc Method : C:\TC4\DATA1\992APEM from C:\TC4\DATA1\992A046.RST
Calib Method : C:\TC4\DATA1\992APEM from C:\TC4\DATA1\992A046.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 19

DATA REPORT

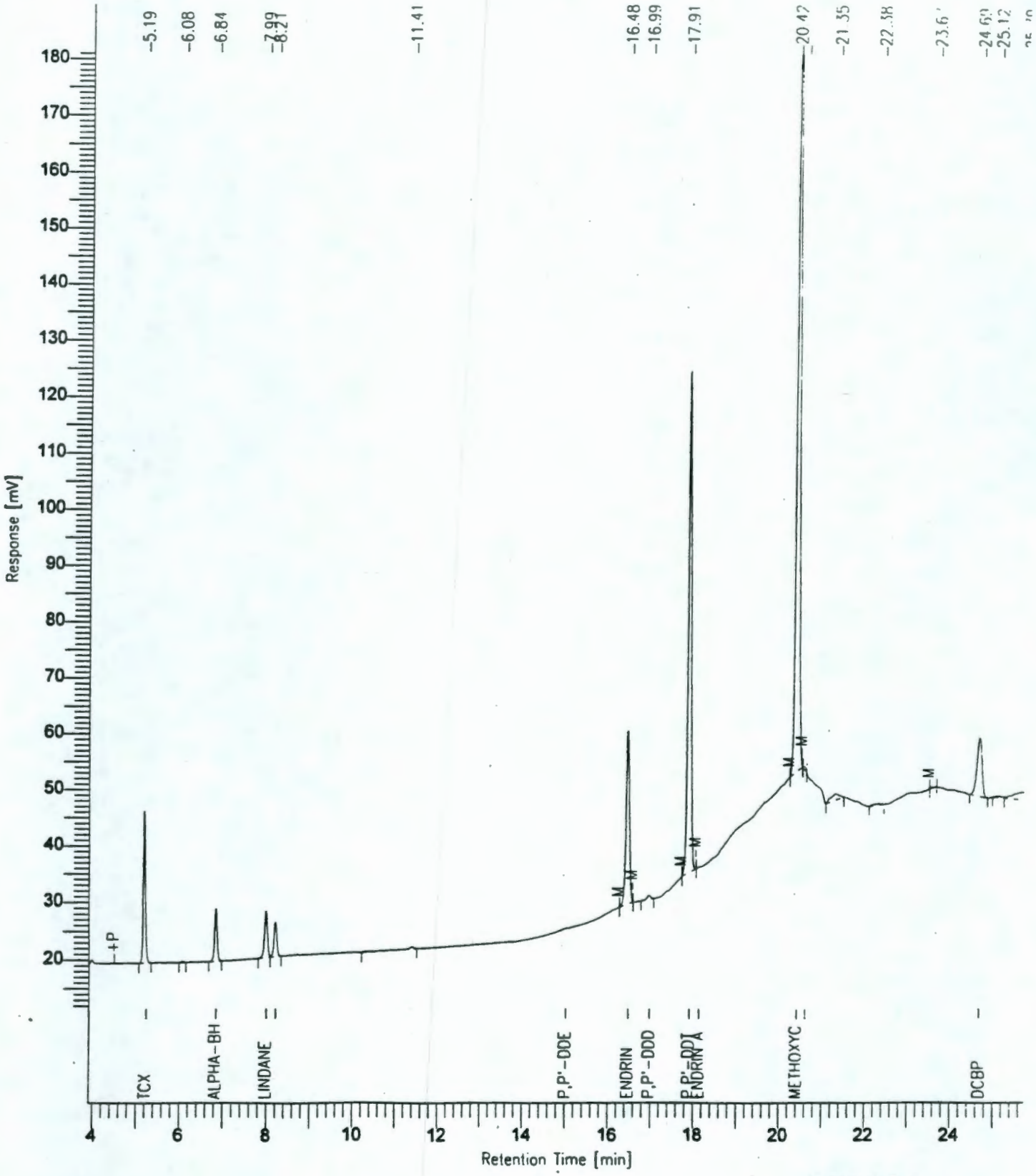
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.194	TCX	92426	B	26876	-0.8790
3	6.839	ALPHA-BHC	37442	B	9134	-0.1416
4	7.985	LINDANE	38433	B	8176	-0.1366
5	8.205	BETA-BHC	28459	V	6058	-0.1197
7	16.480	ENDRIN	170448	*B	31176	-0.0670
8	16.987	P,P'-DDD	4578	B	721	-0.0502
9	17.913	P,P'-DDT	446742	*B	89787	-0.0427
10	20.420	METHOXYCHLOR	771300	*B	154720	-0.0371
11	20.608	ENDRIN KETONE	2190	*B	738	-0.0883
15	24.685	DCBP	86781	B	10526	-0.0552
			1678800		337914	

9513356.0679

Chromatogram

Sample Name : CK*PEM*3
FileName : C:\TC4\DATA1\992A046.RAW
Method :
Start Time : 3.92 min End Time : 25.76 min
Scale Factor: 0.0 Plot Offset: 12 mV

Sample #: 1
Date : 6/16/94 08:12 AM
Time of Injection: 6/14/94 07:28 PM.
Low Point : 11.53 mV High Point : 181.25 mV
Plot Scale: 169.7 mV



000110

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*4 Time : 6/16/94 08:25 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/15/94 10:58 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A066.RAW
Result File : C:\TC4\DATA1\992A066.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A066.RST
Proc Method : C:\TC4\DATA1\992AAM from C:\TC4\DATA1\992A066.RST
Calib Method : C:\TC4\DATA1\992AAM from C:\TC4\DATA1\992A066.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 6193.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 13

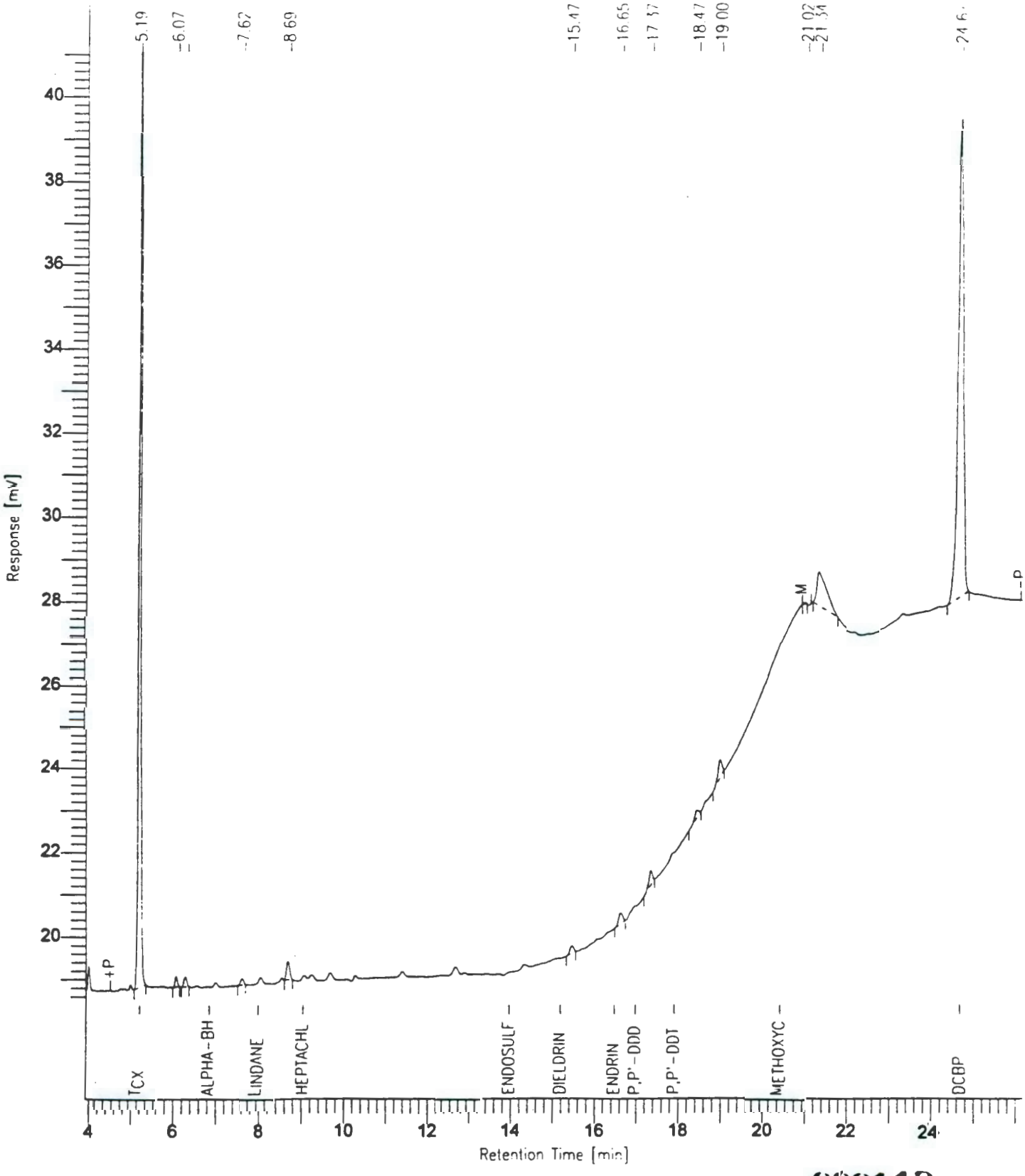
DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.191	TCX	88686	B	25483	-0.1365
12	21.338		13201	B	804	-------
13	24.669	DCBP	98752	B	11428	-0.0901
			200640		37715	

Chromatogram

Sample Name : MB*PIBLK*4
FileName : C:\TC4\DATA1\992A066.RAW
Method :
Start Time : 3.92 min End Time : 26.18 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 6/16/94 08:25 AM
Time of Injection: 6/15/94 10:58 AM
Low Point : 18.42 mV High Point : 41.07 mV
Plot Scale: 22.6 mV



Software Version: 4.0<1C29>
Sample Name : CCS*INDAM*3 Time : 6/16/94 08:25 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/15/94 11:40 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A067.RAW
Result File : C:\TC4\DATA1\992A067.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A067.RST
Proc Method : C:\TC4\DATA1\992AAM from C:\TC4\DATA1\992A067.RST
Calib Method : C:\TC4\DATA1\992AAM from C:\TC4\DATA1\992A067.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 30

DATA REPORT

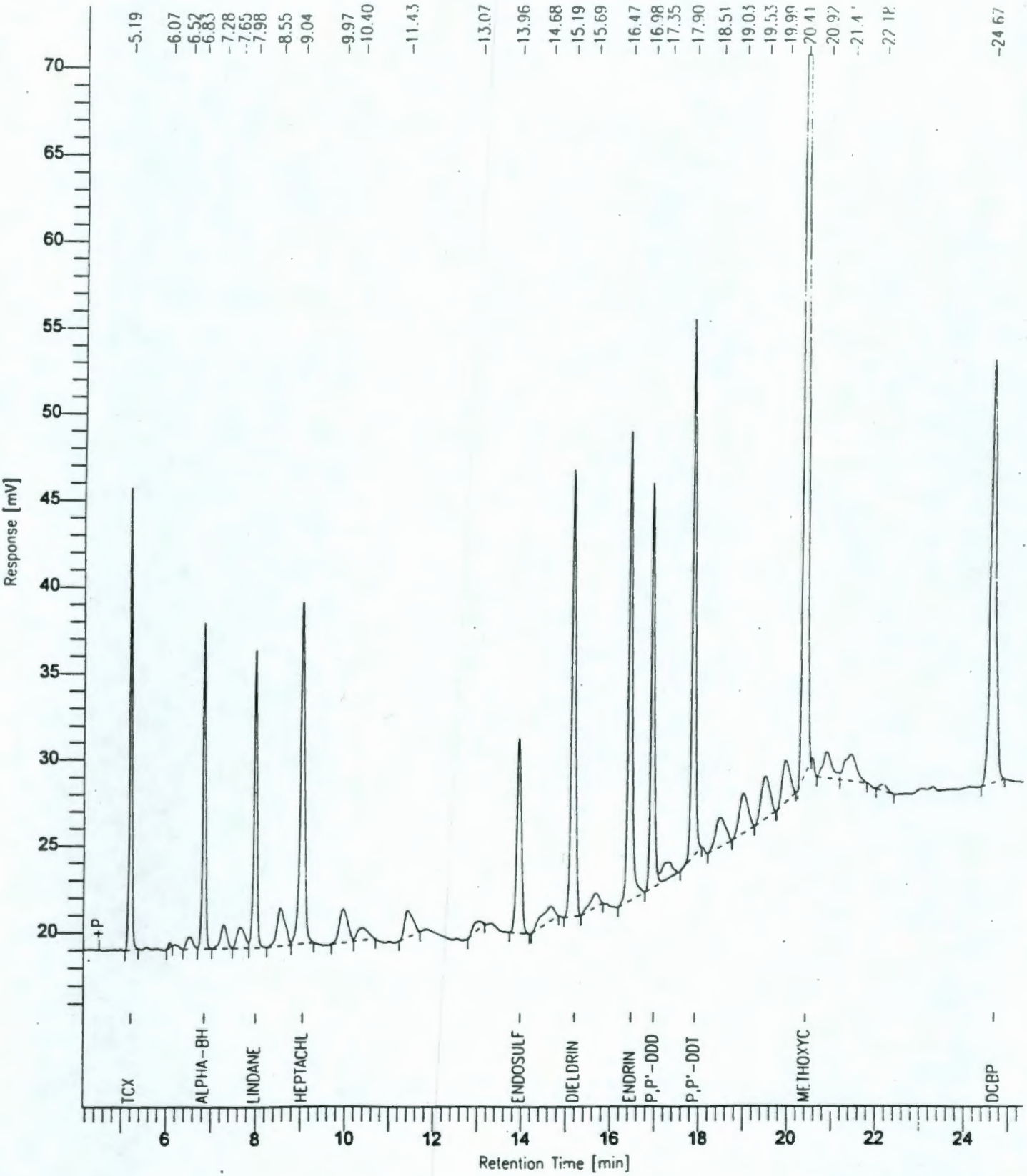
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.190	TCX	95487	B	26740	-0.1501	0.0200
4	6.834	ALPHA-BHC	79511	V	18904	-0.1436	0.0200
7	7.980	LINDANE	84393	V	17376	-0.1390	0.0200
9	9.036	HEPTACHLOR	134959	V	19815	-0.1358	0.0200
14	13.959	ENDOSULFAN A	82598	B	11372	-0.1224	0.0200
16	15.185	DIELDRIN	163031	B	25913	-0.1038	0.0400
18	16.471	ENDRIN	168188	B	27298	-0.0805	0.0400
19	16.977	P,P'-DDD	126101	B	23482	-0.0780	0.0400
21	17.904	P,P'-DDT	166546	B	31341	-0.0700	0.0400
26	20.412	METHOXYCHLOR	668272	B	128871	-0.0570	0.2000
30	24.671	DCBP	215906	B	24551	-0.0824	0.0400

9513356.0683

Chromatogram

Sample Name : CCS*INDAM*3
FileName : C:\TC4\DATA1\992A067.RAW
Method :
Start Time : 4.15 min End Time : 25.38 min
Scale Factor: 0.0 Plot Offset: 15 mV

Sample #:
Date : 6/16/94 08:25 AM
Time of Injection: 6/15/94 11:40 AM
Low Point : 15.48 mV High Point : 70.83 mV
Plot Scale: 55.3 mV



000114

Software Version: 4.0<1C29>
Sample Name : CCS*INDBM*3 Time : 6/16/94 08:28 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/15/94 12:23 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A068.RAW
Result File : C:\TC4\DATA1\992A068.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A068.RST
Proc Method : C:\TC4\DATA1\992ABM.MTH
Calib Method : C:\TC4\DATA1\992ABM.MTH
Sequence File : C:\TC4\HP58909\992A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 24

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	5.190	TCX	94506	B	26112	1e-15	0.0200
5	8.198	BETA-BHC	56251	B	11481	-4e-15	0.0200
7	9.440	DELTA-BHC	67669	B	12825	-3e-15	0.0200
8	10.202	ALDRIN	86721	B	12703	-3e-15	0.0200
10	12.459	HEPTACHLOR EPOXIDE	92841	B	12633	-5e-15	0.0200
11	13.161	GAMMA-CHLORDANE	110666	B	14358	4e-15	0.0200
12	13.877	ALPHA-CHLORDANE	109910	B	14611	3e-15	0.0200
13	15.015	P,P'-DDE	155862	B	25111	-6e-15	0.0400
16	17.090	ENDOSULFAN B	145451	B	25541	6e-15	0.0400
18	18.131	ENDRIN ALDEHYDE	123468	B	22262	-8e-15	0.0400
19	18.499	ENDOSULFAN SULFATE	159261	V	30124	-8e-15	0.0400
20	20.611	ENDRIN KETONE	148301	*B	29805	-1e-15	0.0400

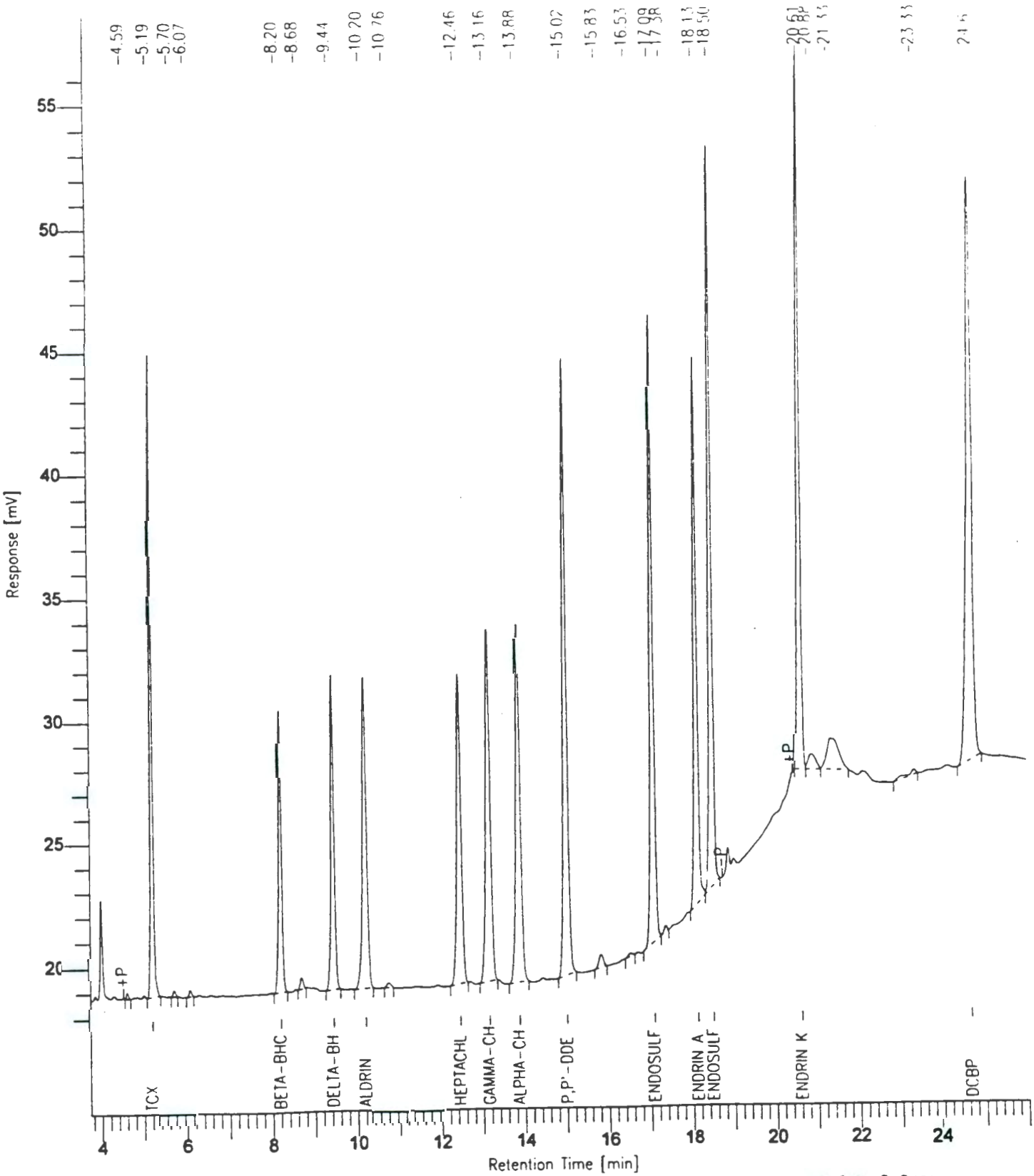
Peak #	Ret Time (min)	Component Name	Area (uV-sec)	BL	Height (uV)	Delta RT (%)	NG INJECTED
24	24.668	DCBP	211198	B	23687	1e-15	0.0400
			1562105		261254		0.3800

Chromatogram

Sample Name : CCS*INDBM*3
FileName : C:\TC4\DATA1\992A068.RAW
Method : 992ABM.MTH
Start Time : 3.72 min
Scale Factor: 0.0

End Time : 26.00 min
Plot Offset: 18 mV

Sample #:
Date : 6/16/94 08:28 AM
Time of Injection: 6/15/94 12:23 PM
Low Point : 17.94 mV
Plot Scale: 38.8 mV



Software Version: 4.0<1C29>
Sample Name : HEXANE
Sample Number:
Operator :

Time : 6/16/94 08:48 AM
Study :

Instrument : HP58909
AutoSampler :
Rack/Vial : 0/0

Channel : A A/D mV Range : 1000

Interface Serial # : 9004570342 Data Acquisition Time: 6/15/94 07:28 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A078.RAW
Result File : C:\TC4\DATA1\992A078.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A078.RST
Proc Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A078.RST
Calib Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A078.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 6193.000000
Dilution Factor : 1.00

Noise Threshold: 33
Area Threshold : 444
Bunch Factor: 1
Multiplier : 1.0000
Divisor : 1.0000
Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 5

DATA REPORT

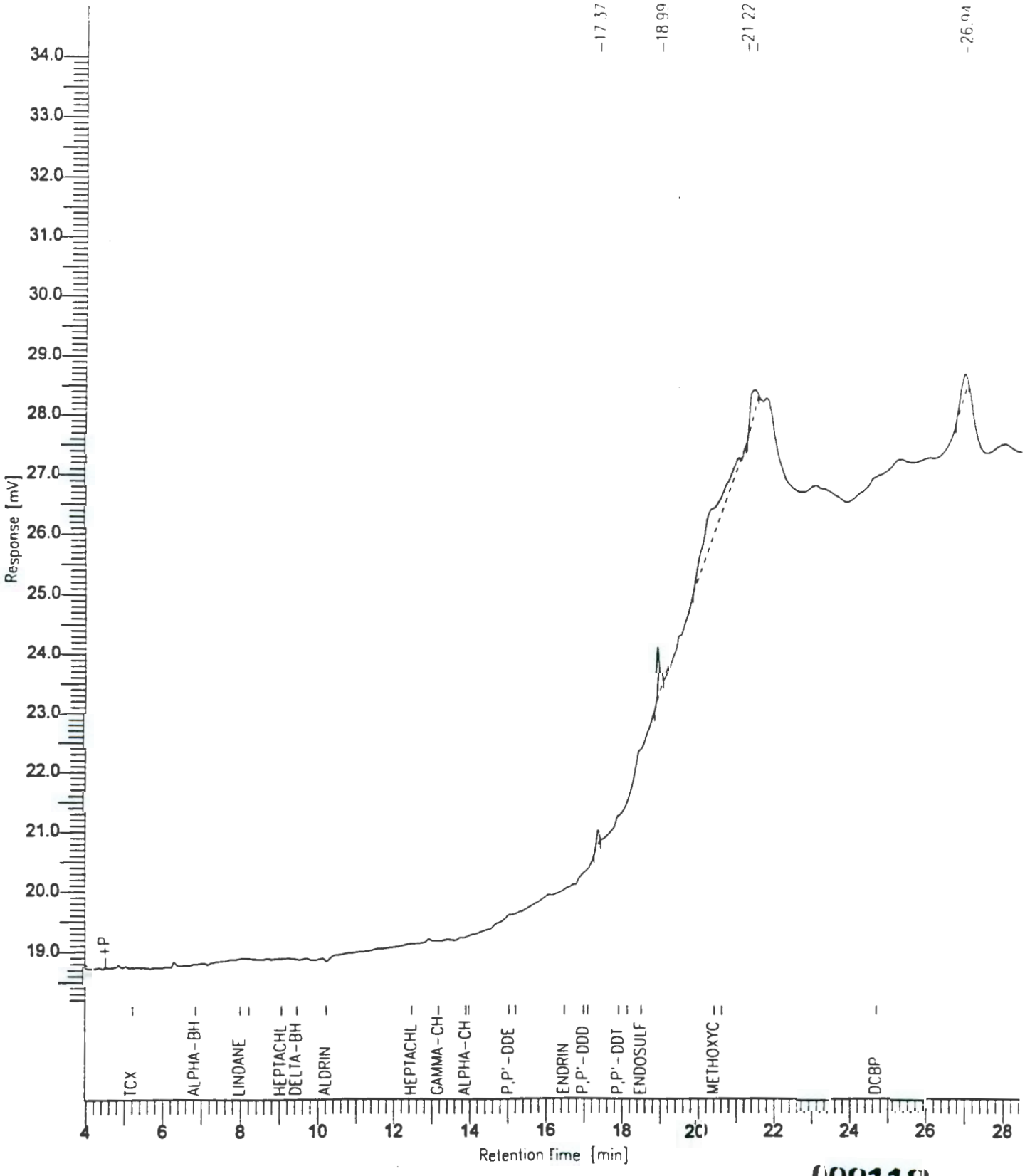
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
3	21.217		22642	B	-1e-13	-------
			22642		-1e-13	

9513356.0689

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\DATA1\992A078.RAW
Method :
Start Time : 3.97 min End Time : 28.45 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 6/16/94 08:48 AM
Time of Injection: 6/15/94 07:28 PM
Low Point : 18.11 mV High Point 34.07 mV
Plot Scale: 16.0 mV



Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*5 Time : 6/16/94 08:49 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/15/94 08:10 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A079.RAW
Result File : C:\TC4\DATA1\992A079.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A079.RST
Proc Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A079.RST
Calib Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A079.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 6193.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 9

DATA REPORT

Peak #	Ret Time (min)	Component Name	Area (uV-sec)	BL	Height (uV)	Delta RT (%)
1	5.192	TCX	90602	B	26637	-0.1236
7	20.990		37291	B	992	-------
8	21.349		6953	B	594	-------
9	24.672	DCBP	102124	B	12171	-0.0770
			236970		40394	

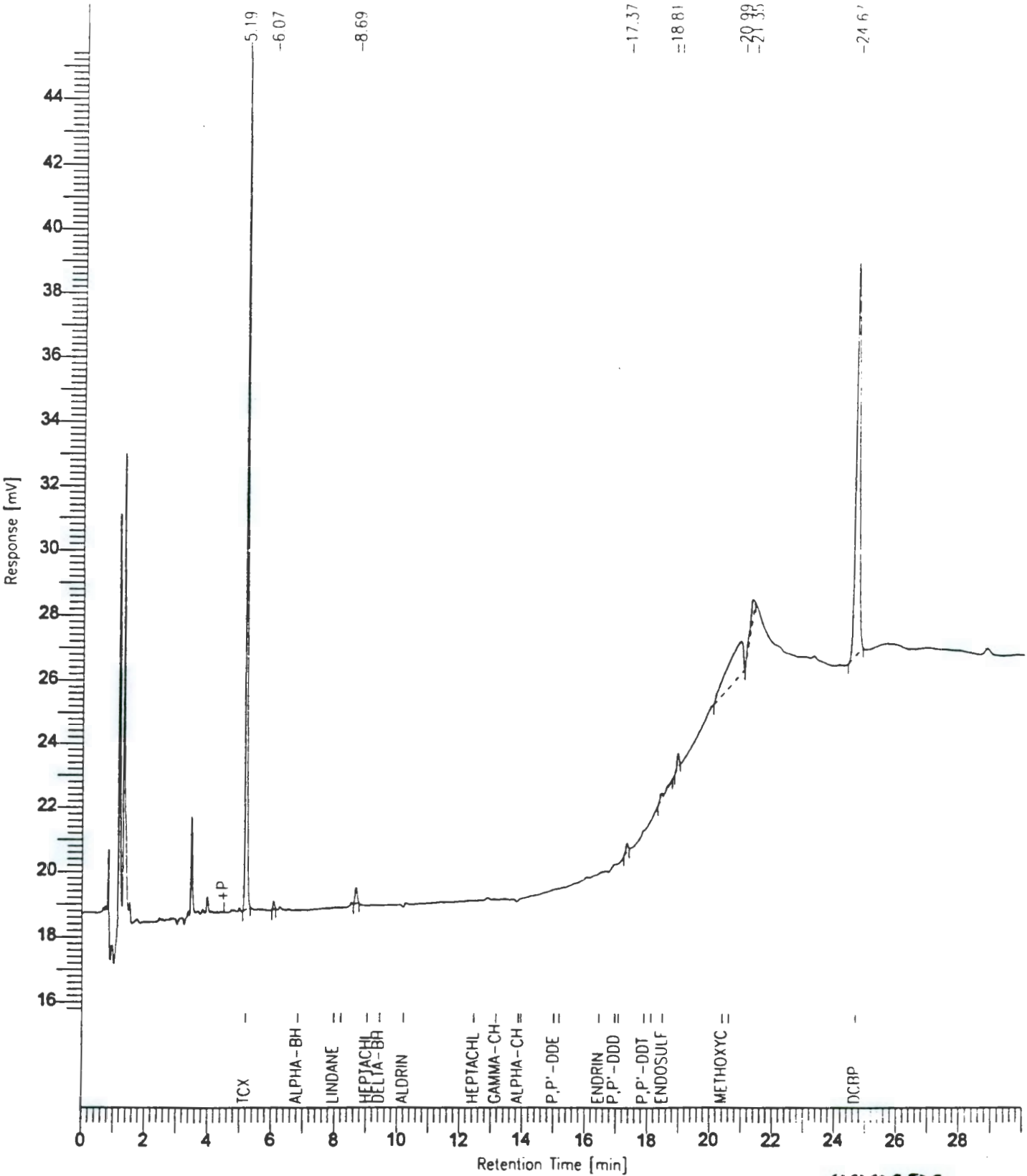
9513556.0690

Chromatogram

Sample Name : MB*PIBLK*5
FileName : C:\TC4\DATA1\992A079.RAW
Method :
Start Time : 0.00 min End Time : 30.00 min
Scale Factor: 0.0 Plot Offset: 16 mV

Sample #:
Date : 6/16/94 08:49 AM
Time of Injection: 6/15/94 08:10 PM
Low Point : 15.67 mV High Point : 45.47 mV
Plot Scale: 29.8 mV

Page 1 of 1



000121

Software Version: 4.0<1C29>
Sample Name : CK*PEM*4 Time : 6/16/94 08:50 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/15/94 08:53 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A080.RAW
Result File : C:\TC4\DATA1\992A080.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A080.RST
Proc Method : C:\TC4\DATA1\992APEM from C:\TC4\DATA1\992A080.RST
Calib Method : C:\TC4\DATA1\992APEM from C:\TC4\DATA1\992A080.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 22

DATA REPORT

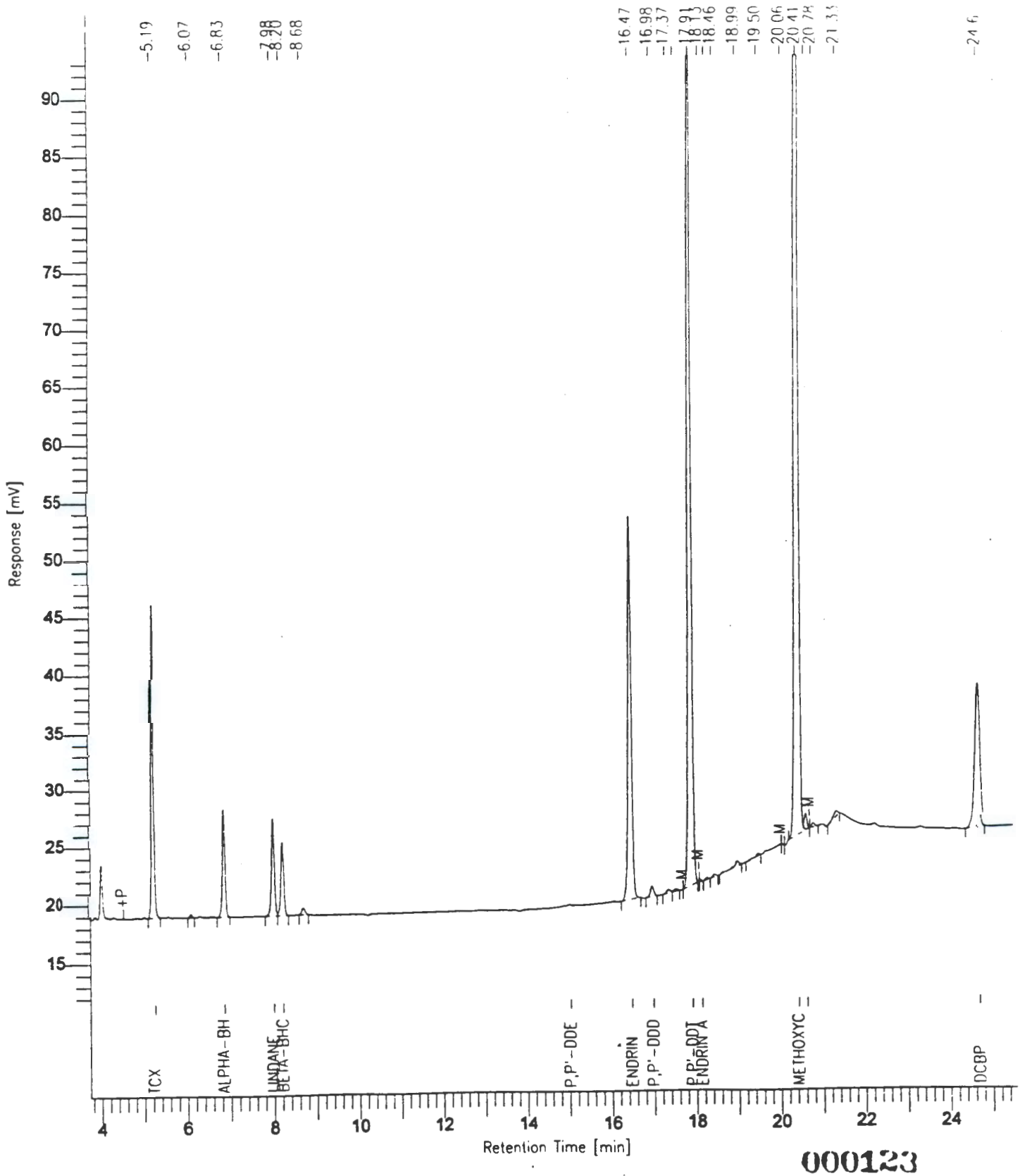
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.191	TCX	93950	B	27215	-0.9314
3	6.834	ALPHA-BHC	38782	B	9382	-0.2132
4	7.979	LINDANE	40266	B	8552	-0.2105
5	8.198	BETA-BHC	29926	V	6369	-0.2029
7	16.470	ENDRIN	186830	B	33588	-0.1268
8	16.977	P,P'-DDD	5223	B	916	-0.1048
11	17.906	P,P'-DDT	465678	*B	93865	-0.0859
18	20.412	METHOXYCHLOR	821026	*B	160855	-0.0726
19	20.607	ENDRIN KETONE	6194	*E	1414	-0.0959
22	24.670	DCBP	107264	B	12520	-0.1172
			1795140		354677	

9513356.0692

Chromatogram

Sample Name : CK*PEM*4
FileName : C:\TC4\DATA1\992A080.RAW
Method :
Start Time : 3.72 min End Time : 25.58 min
Scale Factor: 0.0 Plot Offset: 12 mV

Sample #:
Date : 6/16/94 08:50 AM
Time of Injection: 6/15/94 08:53 PM
Low Point : 11.55 mV High Point : 93.35 mV
Plot Scale: 81.8 mV



000123

Software Version: 4.0<1C29>
Sample Name : MB*NONE*1 6-8-94 Time : 6/16/94 08:51 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/15/94 09:36 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A081.RAW
Result File : C:\TC4\DATA1\992A081.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A081.RST
Proc Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A081.RST
Calib Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A081.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 6193.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 22

DATA REPORT

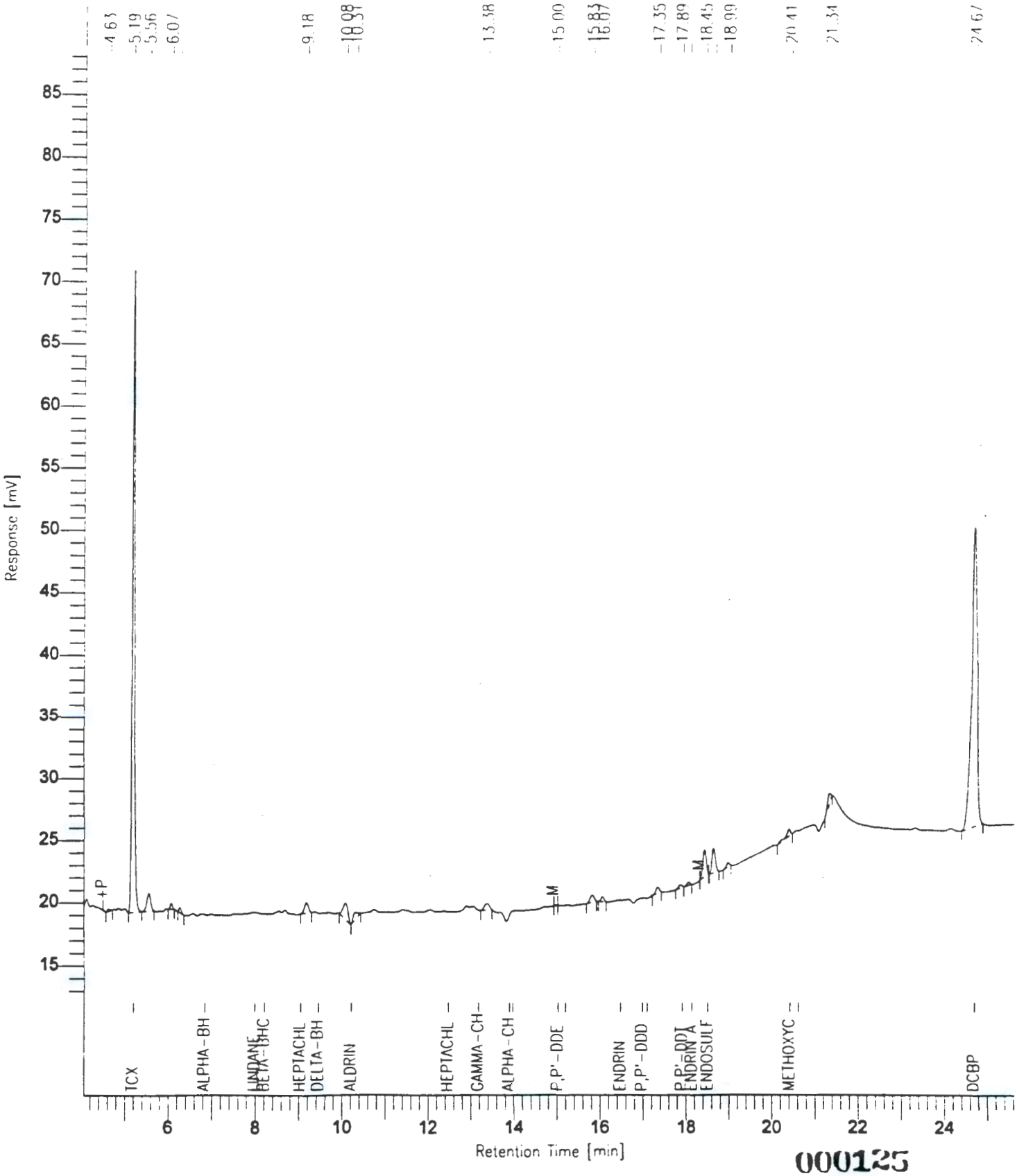
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
2	5.191	TCX	188432	B	51745	-0.1370
3	5.560		8754	B	1415	-------
7	10.080		10040	B	1295	-------
16	18.447	ENDOSULFAN SULFATE	12288	*B	2146	-0.3482
17	18.654		11190	B	2019	-------
21	24.669	DCBP	215128	B	24209	-0.0930
			445831		82829	

9513356.0694

Chromatogram

Sample Name : MB*NONE*1 6-8-94
FileName : C:\TC4\DATA1\992A081.RAW
Method :
Start Time : 4.06 min End Time : 25.62 min
Scale Factor: 0.0 Plot Offset: 12 mV

Sample #:
Date : 6/16/94 08:51 AM
Time of Injection: 6/15/94 09:36 PM
Low Point : 12.09 mV High Point : 88.26 mV
Plot Scale: 76.2 mV



000125

Software Version: 4.0<1C29>
Sample Name : HEXANE
Time : 6/16/94 09:26 AM
Sample Number:
Study :
Operator :

Instrument : HP58909
Channel : A
A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342
Data Acquisition Time: 6/16/94 05:23 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A092.RAW
Result File : C:\TC4\DATA1\992A092.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A092.RST
Proc Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A092.RST
Calib Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A092.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul
Area Reject : 6193.000000
Sample Amount : 1.0000
Dilution Factor : 1.00

Noise Threshold: 33
Area Threshold : 444
Bunch Factor: 1
Multiplier : 1.0000
Divisor : 1.0000
Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 2

DATA REPORT

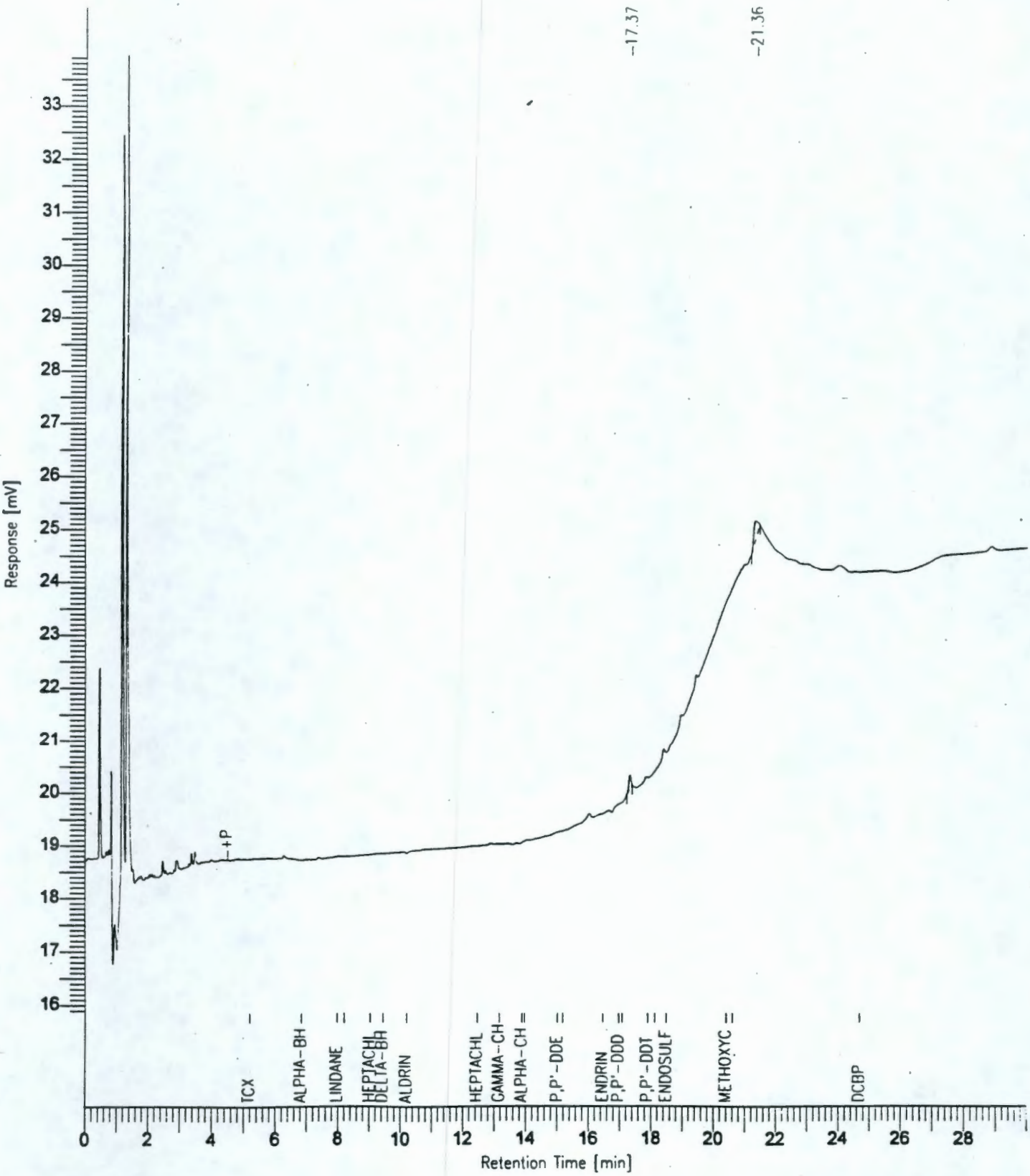
No peaks available to report

9513356.0696

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\DATA1\992A092.RAW
Method :
Start Time : 0.00 min End Time : 30.00 min
Scale Factor: 0.0 Plot Offset: 16 mV

Sample #:
Date : 6/16/94 09:26 AM
Time of Injection: 6/16/94 05:23 AM
Low Point : 15.86 mV High Point : 33.96 mV
Plot Scale: 18.1 mV



000127

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*6 Time : 6/16/94 09:26 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/16/94 06:05 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A093.RAW
Result File : C:\TC4\DATA1\992A093.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A093.RST
Proc Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A093.RST
Calib Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A093.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 6193.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 5

DATA REPORT

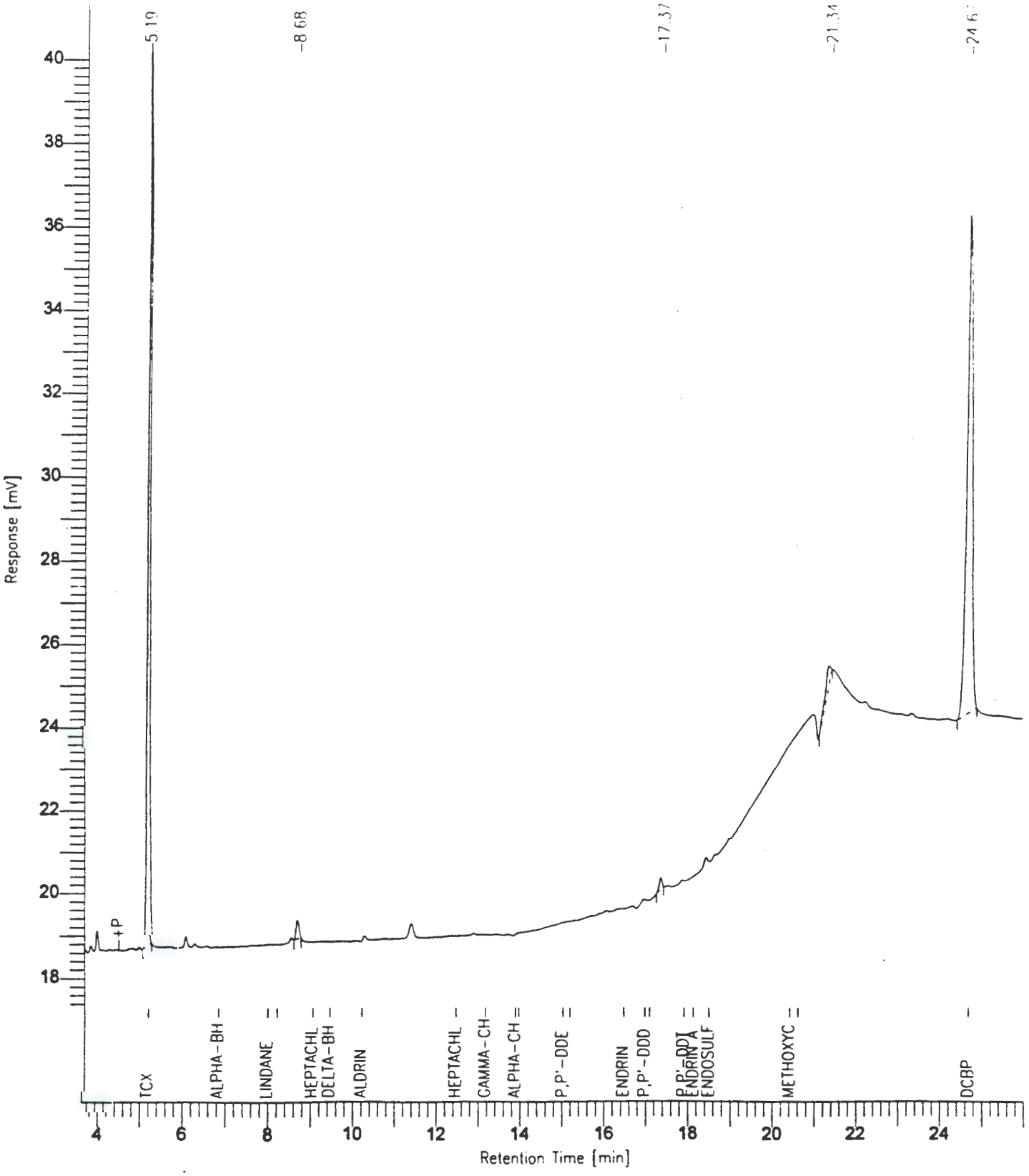
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.190	TCX	89181	B	25311	-0.1502
5	24.668	DCBP	104884	B	11925	-0.0953
			194064		37236	

9513356.0698

Chromatogram

Sample Name : MB*PIBLK*6
FileName : C:\TC4\DATA1\992A093.RAW
Method :
Start Time : 3.68 min End Time : 26.00 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #: Page 1 of 1
Date : 6/16/94 09:26 AM
Time of Injection: 6/16/94 06:05 AM
Low Point : 17.31 mV High Point : 40.18 mV
Plot Scale: 22.9 mV



000129

Software Version: 4.0<1C29>
Sample Name : CCS*INDAM*4 Time : 6/21/94 06:34 PM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/16/94 06:48 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A094.RAW
Result File : C:\TC4\DATA1\992A094.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A094.RST
Proc Method : C:\TC4\DATA1\992AAM from C:\TC4\DATA1\992A094.RST
Calib Method : C:\TC4\DATA1\992AAM from C:\TC4\DATA1\992A094.RST
Sequence File : C:\TC4\HP58909\992A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 16

DATA REPORT

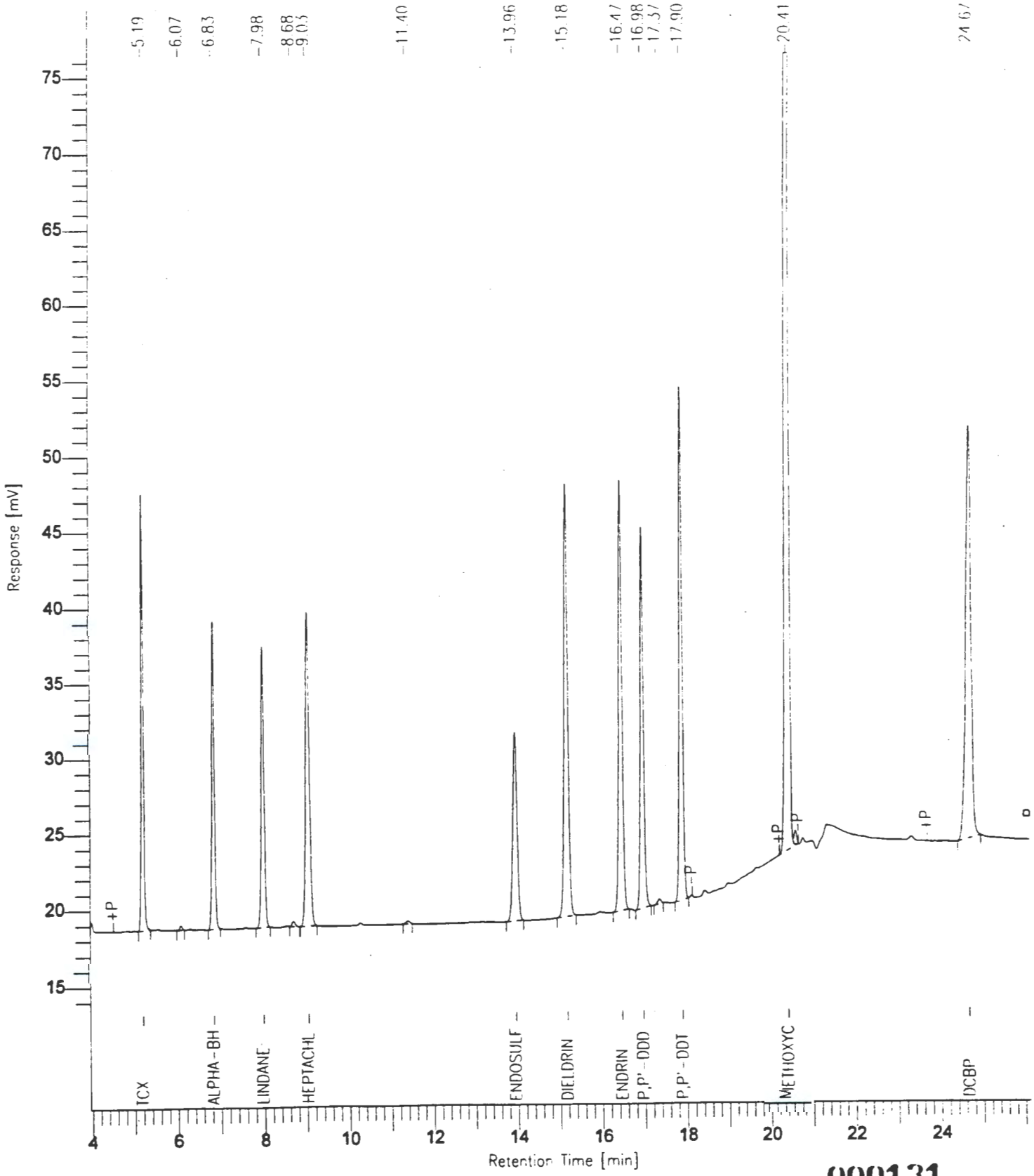
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.190	TCX	100402	B	28953	-7e-15	0.0200
3	6.833	ALPHA-BHC	82642	B	20429	3e-15	0.0200
4	7.977	LINDANE	86211	B	18714	-4e-15	0.0200
6	9.033	HEPTACHLOR	127161	B	20839	7e-15	0.0200
8	13.957	ENDOSULFAN A	88276	B	12543	0.0000	0.0200
9	15.183	DIELDRIN	176884	B	28714	-5e-15	0.0400
10	16.469	ENDRIN	160711	B	28658	7e-15	0.0400
11	16.976	P,P'-DDD	133408	B	25334	-7e-15	0.0400
13	17.902	P,P'-DDT	171162	B	34123	-1e-15	0.0400
14	20.411	METHOXYCHLOR	705006	*B	138777	-2e-15	0.2000
16	24.666	DCBP	236117	B	27359	-4e-15	0.0400

9513356.0700

Chromatogram

Sample Name : CCS*INDAM*4
FileName : C:\TC4\DATA1\992A094.RAW
Method :
Start Time : 3.95 min End Time : 26.11 min
Scale Factor: 0.0 Plot Offset: 13 mV

Sample #:
Date : 6/21/94 06:35 PM
Time of Injection: 6/16/94 06:48 AM
Low Point : 13.21 mV High Point : 76.41 mV
Plot Scale: 63.2 mV



000131

Software Version: 4.0<1C29>
Sample Name : CCS*INDAM*4 Time : 6/16/94 09:36 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/16/94 06:48 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A094.RAW
Result File : C:\TC4\DATA1\992A094.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A094.RST
Proc Method : C:\TC4\DATA1\992AAM.MTH
Calib Method : C:\TC4\DATA1\992AAM.MTH
Sequence File : C:\TC4\HP58909\992A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 15

DATA REPORT

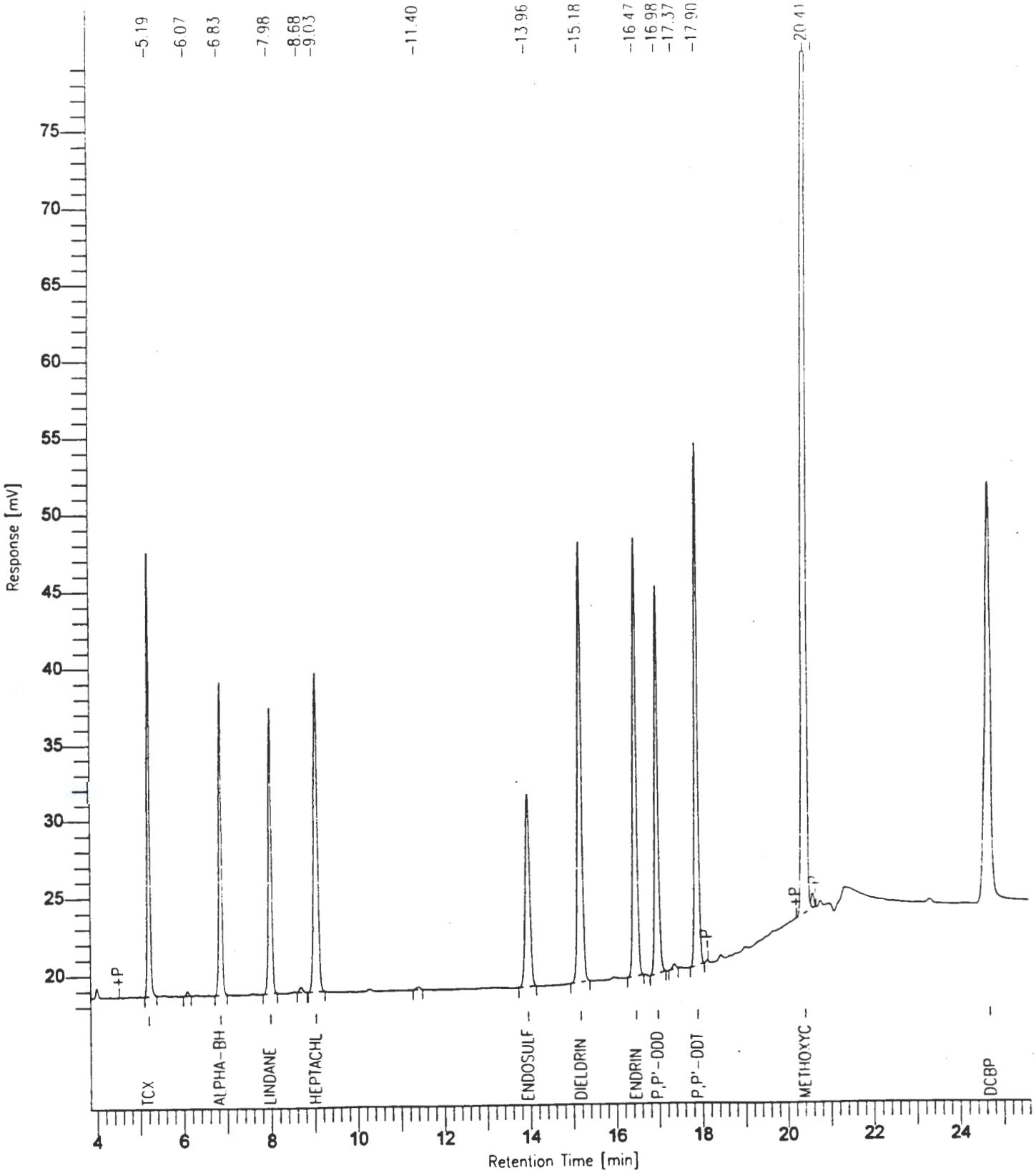
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.190	TCX	100402	B	28953	-7e-15	0.0200
3	6.833	ALPHA-BHC	82642	B	20429	3e-15	0.0200
4	7.977	LINDANE	86211	B	18714	-4e-15	0.0200
6	9.033	HEPTACHLOR	127161	B	20839	7e-15	0.0200
8	13.957	ENDOSULFAN A	88276	B	12543	0.0000	0.0200
9	15.183	DIELDRIN	176884	B	28714	-5e-15	0.0400
10	16.469	ENDRIN	160711	B	28658	7e-15	0.0400
11	16.976	P,P'-DDD	133408	B	25334	-7e-15	0.0400
13	17.902	P,P'-DDT	171162	B	34123	-1e-15	0.0400
14	20.411	METHOXYCHLOR	705006	*B	138777	-2e-15	0.2000
			1831864		357084		0.4600

9513356.0702

Chromatogram

Sample Name : CCS*INDAM*4
FileName : C:\TC4\DATA1\992A094.RAW
Method : 992AAM.MTH
Start Time : 3.84 min End Time : 25.62 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 6/16/94 09:36 AM
Time of Injection: 6/16/94 06:48 AM
Low Point : 17.51 mV High Point : 79.84 mV
Plot Scale: 62.3 mV



Software Version: 4.0<1C29>
Sample Name : CCS*INDBM*4 Time : 6/16/94 09:37 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/16/94 07:30 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A095.RAW
Result File : C:\TC4\DATA1\992A095.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A095.RST
Proc Method : C:\TC4\DATA1\992ABM from C:\TC4\DATA1\992A095.RST
Calib Method : C:\TC4\DATA1\992ABM from C:\TC4\DATA1\992A095.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 25

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	5.191	TCX	97754	B	27744	0.0079	0.0200
5	8.198	BETA-BHC	58323	B	12330	-0.0069	0.0200
7	9.439	DELTA-BHC	70932	B	14014	-0.0200	0.0200
8	10.200	ALDRIN	89186	B	13463	-0.0196	0.0200
10	12.456	HEPTACHLOR EPOXIDE	97076	B	13777	-0.0262	0.0200
11	13.158	GAMMA-CHLORDANE	115433	B	15426	-0.0190	0.0200
12	13.876	ALPHA-CHLORDANE	113450	B	15541	-0.0093	0.0200
13	15.013	P,P'-DDE	163388	B	27370	-0.0125	0.0400
16	17.089	ENDOSULFAN B	154663	B	27963	-0.0066	0.0400
19	18.131	ENDRIN ALDEHYDE	132750	B	24563	-0.0002	0.0400
20	18.498	ENDOSULFAN SULFATE	172313	V	33428	-0.0041	0.0400
21	20.609	ENDRIN KETONE	163524	*B	34117	-0.0102	0.0400

Result File : 992A095.RST, Printed On 6/16/94 09.37 AM

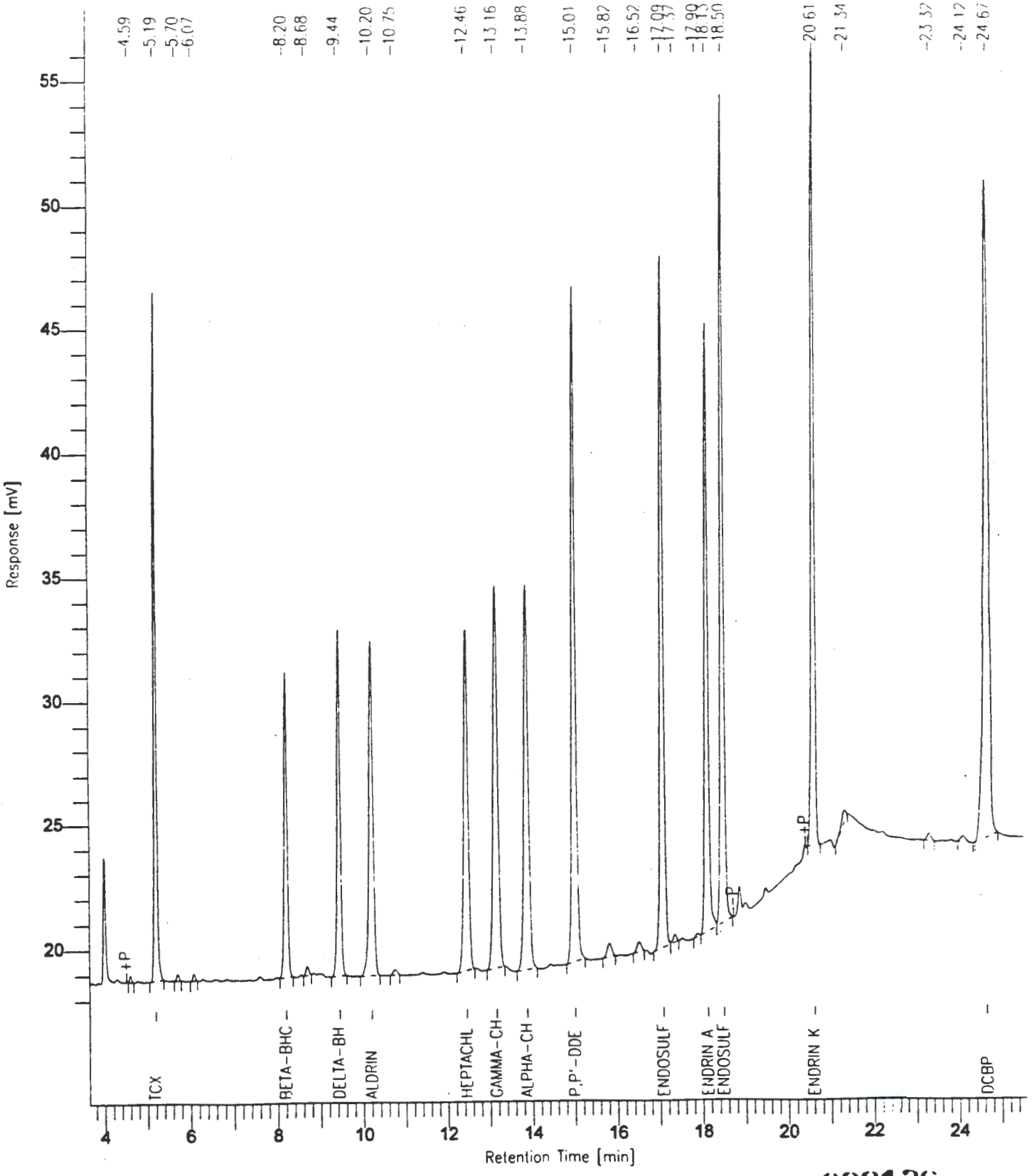
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
25	24.668	DCBP	230025	B	26565	-0.0030	0.0400
			1658817		286301		0.3800

9513356.0705

Chromatogram

Sample Name : CCS*INDBM*4
FileName : C:\TC4\DATA1\992A095.RAW
Method :
Start Time : 3.63 min End Time : 25.58 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 6/16/94 09:37 AM
Time of Injection: 6/16/94 07:30 AM
Low Point : 17.64 mV High Point : 56.02 mV
Plot Scale: 38.4 mV



000136

Software Version: 4.0<1C29>
Sample Name : CK*RESC*1 Time : 6/14/94 12:09 PM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 02:37 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B006.RAW
Result File : C:\TC4\DATA1\992B006.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B006.RST
Proc Method : C:\TC4\DATA1\992BRES from C:\TC4\DATA1\992B006.RST
Calib Method : C:\TC4\DATA1\992BRES from C:\TC4\DATA1\992B006.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 26

DATA REPORT

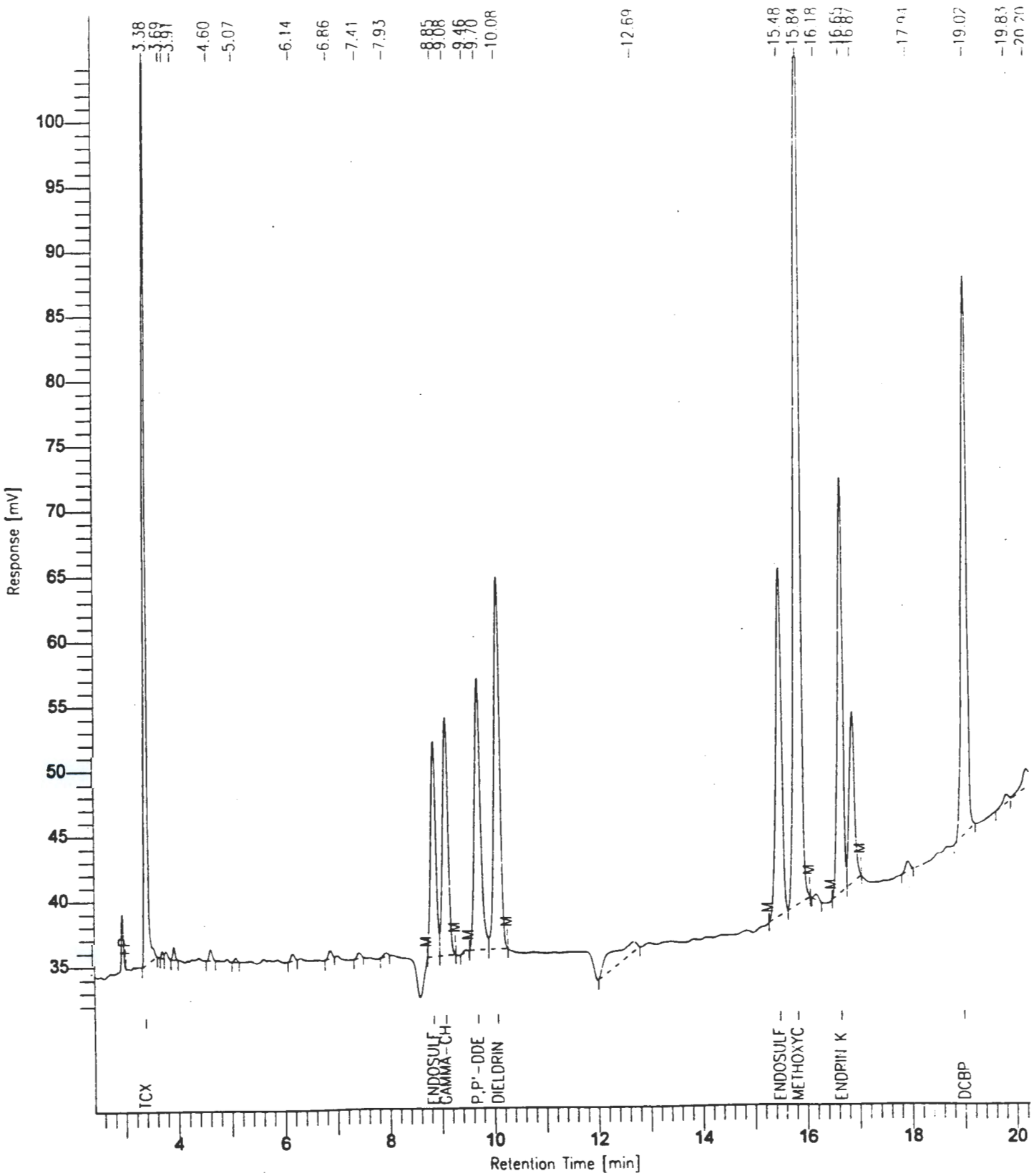
Peak #	Ret Time (min)	Component Name	Area (uV-sec)	BL	Height (uV)	Delta RT (%)	NG INJECTED
1	3.380	TCX	261416	B	88656	0.1668	0.0260
11	8.847	ENDOSULFAN A	113794	*B	16695	0.0284	0.0092
12	9.082	GAMMA-CHLORDANE	131821	*V	18418	0.0100	0.0100
14	9.697	P,P'-DDE	168796	*B	21080	0.0809	0.0193
15	10.078	DIELDRIN	217546	*V	28781	0.0057	0.0216
17	15.483	ENDOSULFAN SULFATE	202967	*B	26875	-0.0328	0.0203
18	15.837	METHOXYCHLOR	564082	*V	74099	0.0574	0.0919
20	16.653	ENDRIN KETONE	210854	*B	32014	-0.0150	0.0203
23	19.017	DCBP	289788	B	43021	0.0944	0.0202
			2161064		349639		0.2388

9513356.0707

Chromatogram

Sample Name : CK*RESC*1
FileName : C:\TC4\DATA1\992B006.RAW
Method :
Start Time : 2.41 min End Time : 20.25 min
Scale Factor: 0.0 Plot Offset: 31 mV

Sample #:
Date : 6/14/94 12:09 PM
Time of Injection: 6/13/94 02:37 PM
Low Point : 31.18 mV High Point : 104.57 mV
Plot Scale: 73.4 mV



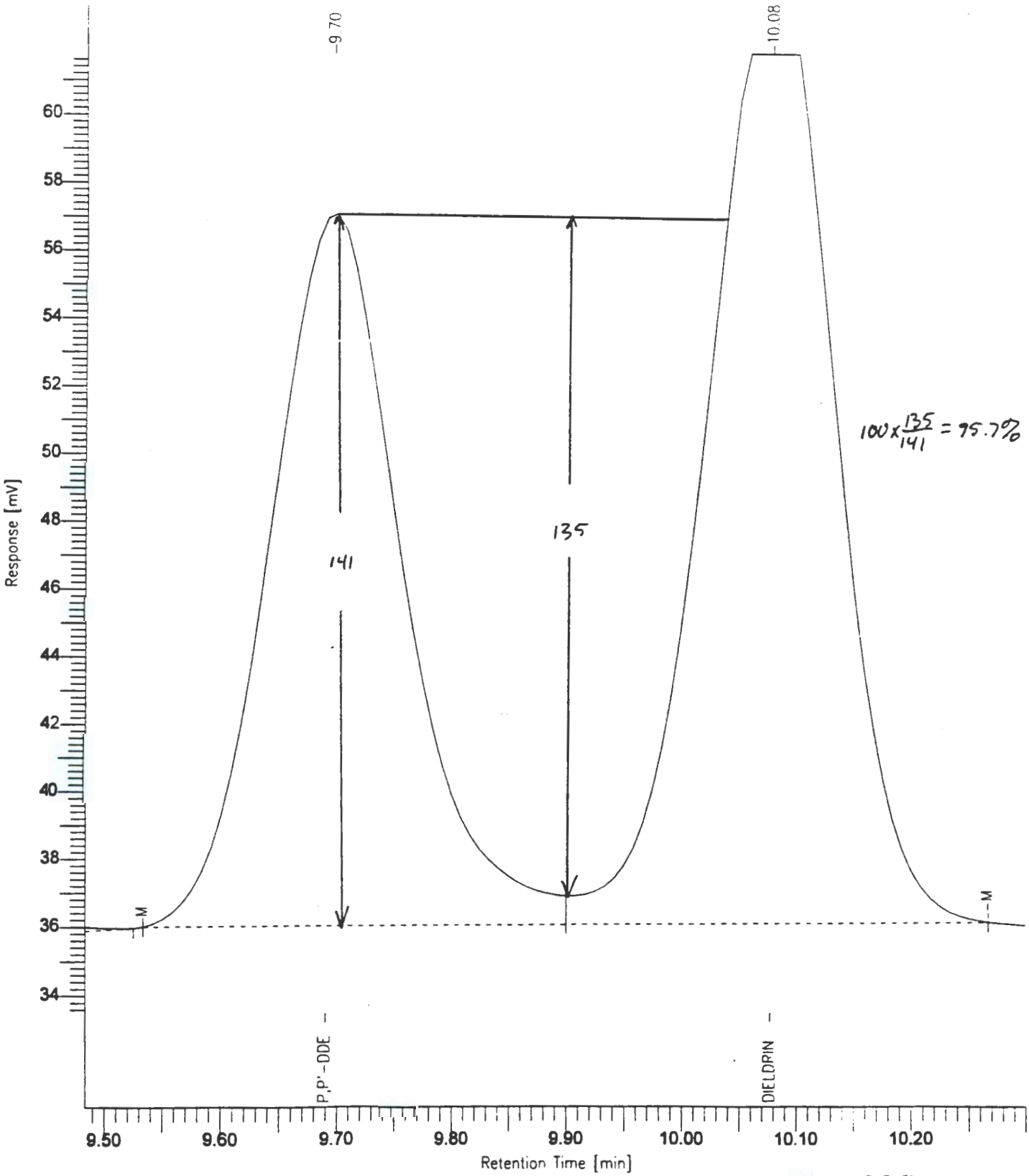
000138

9513356.0708

Chromatogram

Sample Name : CK*RESC*1
FileName : C:\TC4\DATA1\992B006.RAW
Method :
Start Time : 9.48 min End Time : 10.30 min
Scale Factor: 0.0 Plot Offset: 34 mV

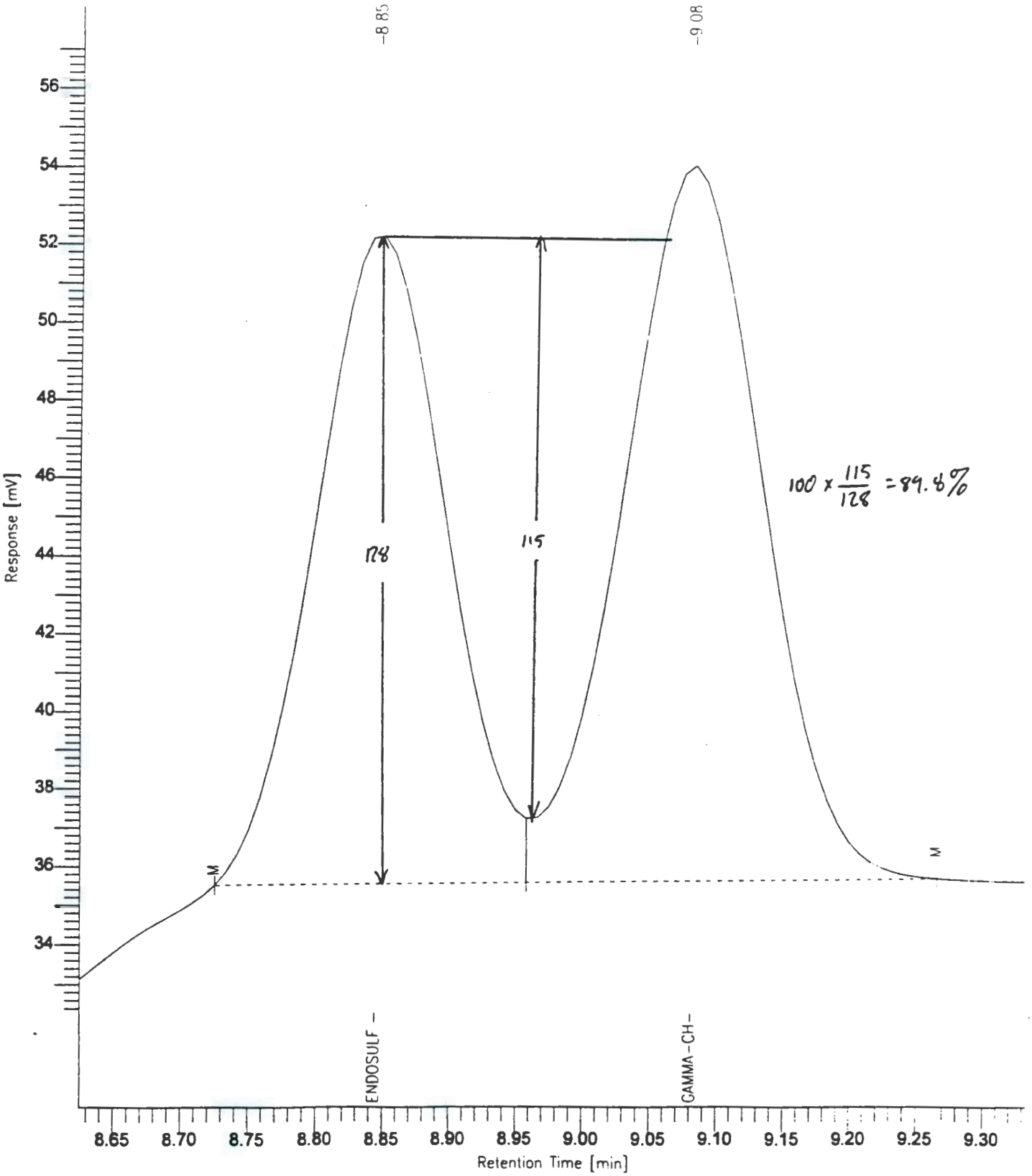
Sample #:
Date : 6/14/94 12:09 PM
Time of Injection: 6/13/94 02:37 PM
Low Point : 33.51 mV High Point : 61.78 mV
Plot Scale: 28.3 mV



Chromatogram

Sample Name : CK*RESC*1
FileName : C:\TC4\DATA1\992B006.RAW
Method :
Start Time : 8.62 min End Time : 9.33 min
Scale Factor: 0.0 Plot Offset: 32 mV

Sample #:
Date : 6/14/94 12:09 PM
Time of Injection: 6/13/94 02:37 PM
Low Point : 32.29 mV High Point : 57.12 mV
Plot Scale: 24.8 mV



Software Version: 4.0<1C29>
Sample Name : CK*PEM*1 Time : 6/14/94 12:11 PM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 03:19 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B007.RAW
Result File : C:\TC4\DATA1\992B007.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B007.RST
Proc Method : C:\TC4\DATA1\992BPEM from C:\TC4\DATA1\992B007.RST
Calib Method : C:\TC4\DATA1\992BPEM from C:\TC4\DATA1\992B007.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 25

DATA REPORT

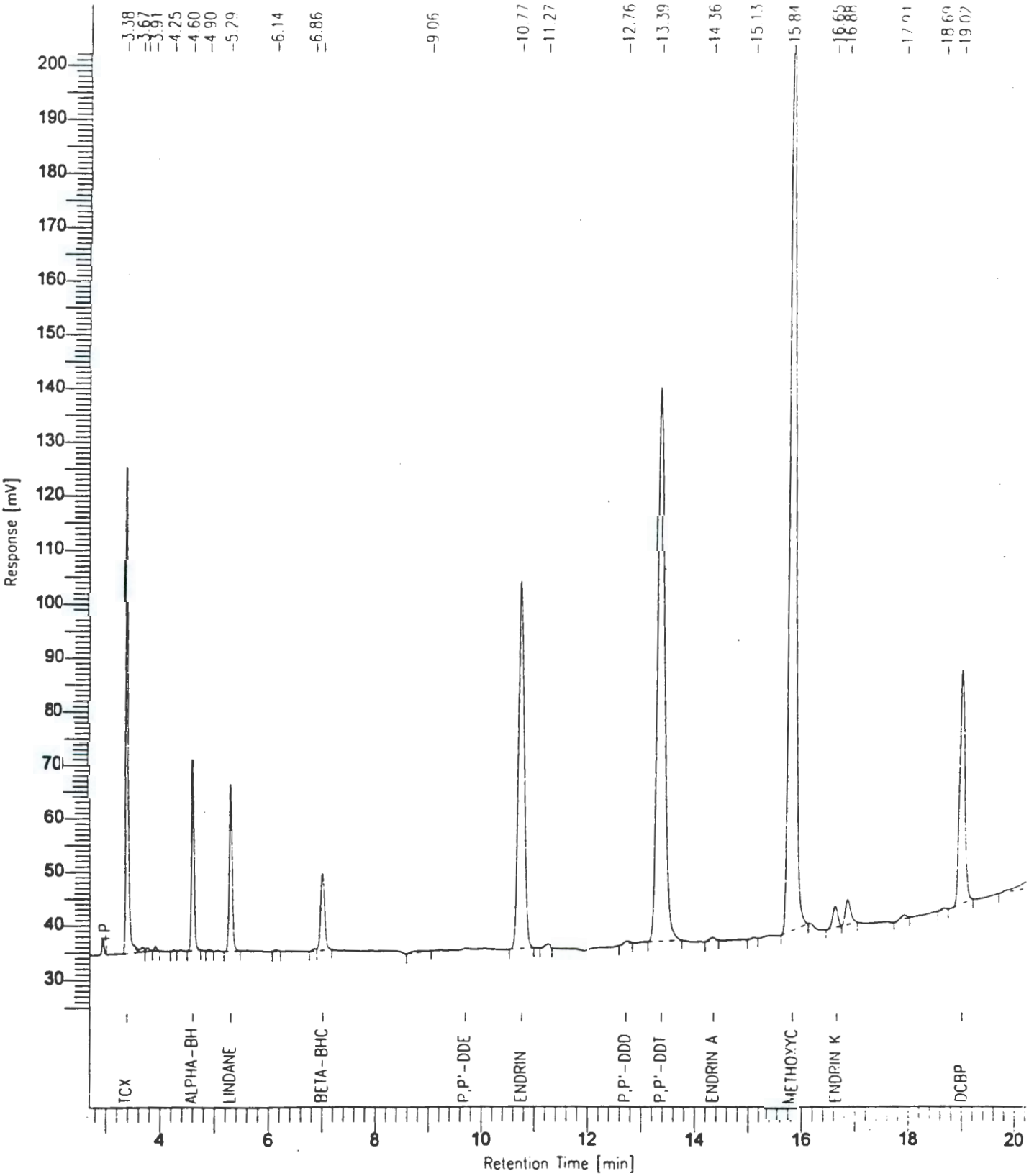
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	3.379	TCX	275945	B	93033	-0.0353
6	4.596	ALPHA-BHC	117502	B	36340	-0.0946
8	5.293	LINDANE	119006	B	31236	-0.0916
11	7.010	BETA-BHC	75660	V	14433	-0.0417
13	10.765	ENDRIN	524888	B	68620	-0.0587
15	12.760	P,P'-DDD	3625	B	457	0.2692
16	13.390	P,P'-DDT	961572	B	103306	-0.0230
17	14.357	ENDRIN ALDEHYDE	4461	B	561	-0.0403
19	15.837	METHOXYCHLOR	1382996	B	177911	-0.0267
20	16.646	ENDRIN KETONE	26979	B	4012	-0.0905
24	19.017	DCBP	291887	B	43743	-0.0165

9513356.0711

Chromatogram

Sample Name : CK*PEM*1
FileName : C:\TC4\DATA1\992B007.RAW
Method :
Start Time : 2.69 min End Time : 20.25 min
Scale Factor: 0.0 Plot Offset: 24 mV

Sample #:
Date : 6/14/94 12:11 PM
Time of Injection: 6/13/94 03:19 PM
Low Point : 24.11 mV High Point : 202.42 mV
Plot Scale: 178.3 mV



000142

Software Version: 4.0<1C29>
Sample Name : ICV*AR1660*1 Time : 6/14/94 12:11 PM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 04:02 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B008.RAW
Result File : C:\TC4\DATA1\992B008.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B008.RST
Proc Method : C:\TC4\DATA1\992B1660 from C:\TC4\DATA1\992B008.RST
Calib Method : C:\TC4\DATA1\992B1660 from C:\TC4\DATA1\992B008.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 4444.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 50

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	3.379	TCX	262795	B	90024	0.1448	0.0254
6	4.139		21229	V	6118	-------	2.1229e-07
9	4.719	PCB-1016-1	51660	V	12466	0.1646	0.0937
10	4.903		6372	E	1039	-------	6.3725e-08
11	5.052		13828	V	3520	-------	1.3829e-07
12	5.128		20056	V	4706	-------	2.0056e-07
13	5.385		9529	B	2268	-------	9.5286e-08
14	5.554	PCB-1016-2	87175	V	16631	0.1671	0.0857
15	5.813		47484	V	6938	-------	4.7484e-07
16	6.032		30755	V	5305	-------	3.0755e-07
17	6.292	PCB-1016-3	70240	V	9001	0.1581	0.0959
18	6.857		50772	B	7745	-------	5.0772e-07

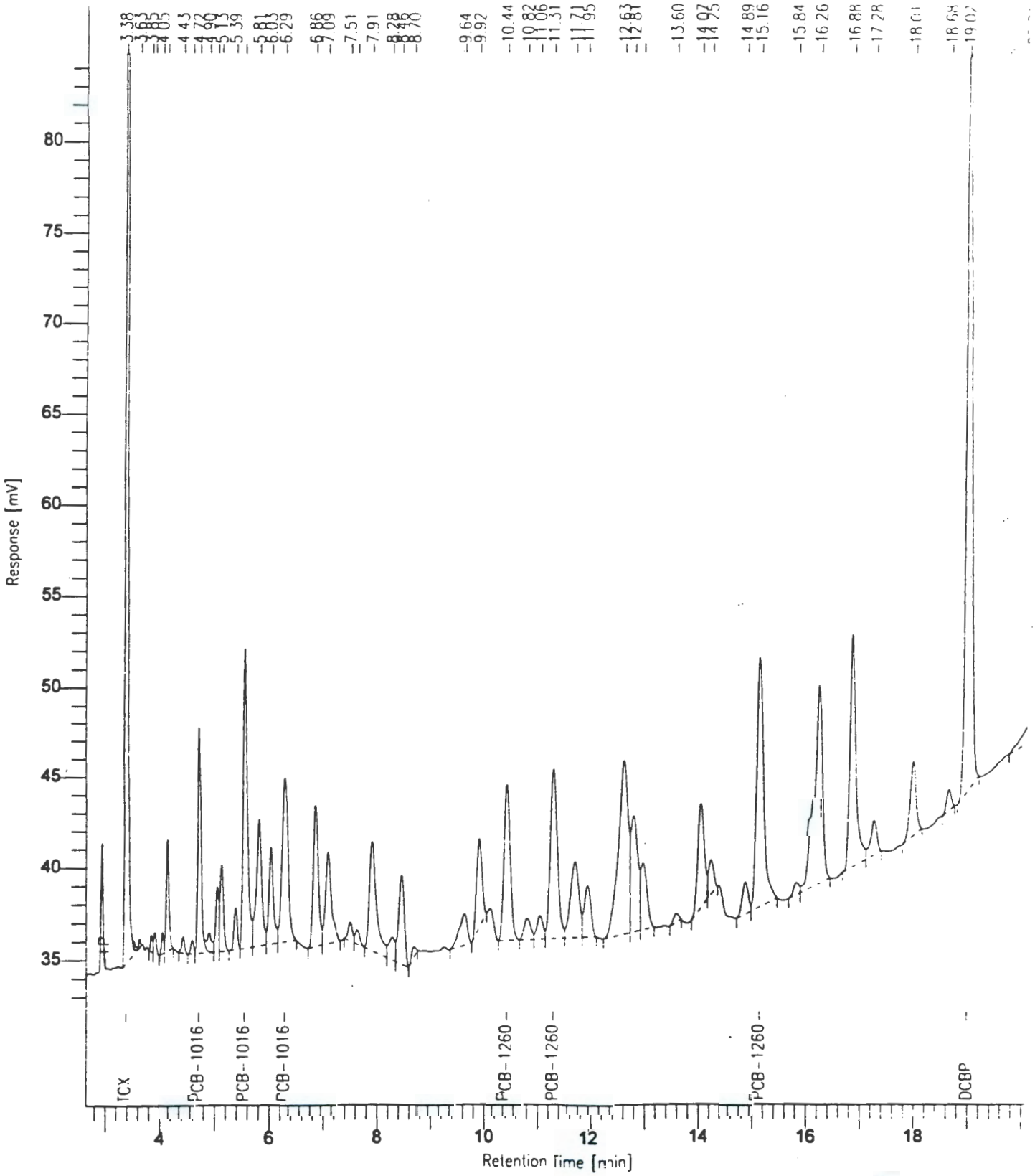
Result File : 992B008.RST, Printed On 6/14/94 12:11 PM

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
19	7.091		38698	V	4989	-------	3.8698e-07
20	7.507		5637	B	1028	-------	5.6371e-08
21	7.636		4527	V	775	-------	4.5269e-08
22	7.911		54736	V	5978	-------	5.4736e-07
23	8.284		10038	V	1231	-------	1.0038e-07
24	8.464		35241	V	4861	-------	3.5241e-07
26	9.642		18238	B	1710	-------	1.8239e-07
27	9.918		34694	B	4839	-------	3.4694e-07
28	10.437	PCB-1260-1	70043	B	8569	0.1143	0.0905
29	10.818		10106	B	1147	-------	1.0106e-07
30	11.056		10052	V	1279	-------	1.0052e-07
31	11.312	PCB-1260-2	86088	V	9335	0.1398	0.0903
32	11.712		46582	V	4152	-------	4.6582e-07
33	11.945		24057	V	2805	-------	2.4057e-07
34	12.633		124103	B	9581	-------	1.2410e-06
35	12.813		59053	V	6401	-------	5.9053e-07
36	12.985		28906	V	3656	-------	2.8906e-07
38	14.065		49523	B	5743	-------	4.9523e-07
39	14.250		12729	V	1926	-------	1.2729e-07
40	14.889		13886	B	1769	-------	1.3886e-07
41	15.155	PCB-1260-3	126411	V	13856	0.0978	0.0983
42	15.843		4916	B	696	-------	4.9165e-08
43	16.258		116819	V	11028	-------	1.1682e-06
44	16.875		100292	B	12916	-------	1.0029e-06
45	17.284		15874	V	1898	-------	1.5874e-07
46	18.008		31443	B	4146	-------	3.1443e-07
47	18.678		7247	B	1190	-------	7.2473e-08
48	19.017	DCBP	293379	B	43275	0.0933	0.0199
49	20.206		21652	B	1656	-------	2.1652e-07
50	21.753		93795	V	257	-------	9.3795e-07
			2220659		338451		0.5997

Chromatogram

Sample Name : ICV*AR1660*1
FileName : C:\TC4\DATA1\992B008.RAW
Method :
Start Time : 2.64 min End Time : 20.11 min
Scale Factor: 0.0 Plot Offset: 32 mV

Sample #:
Date : 6/14/94 12:11 PM
Time of Injection: 6/13/94 04:02 PM
Low Point : 32.20 mV High Point : 84.84 mV
Plot Scale: 52.6 mV



Software Version: 4.0<1C29>
Sample Name : ICV*AR1221*1 Time : 6/14/94 12:11 PM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 04:44 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B009.RAW
Result File : C:\TC4\DATA1\992B009.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B009.RST
Proc Method : C:\TC4\DATA1\992B1221 from C:\TC4\DATA1\992B009.RST
Calib Method : C:\TC4\DATA1\992B1221 from C:\TC4\DATA1\992B009.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 4444.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 21

DATA REPORT

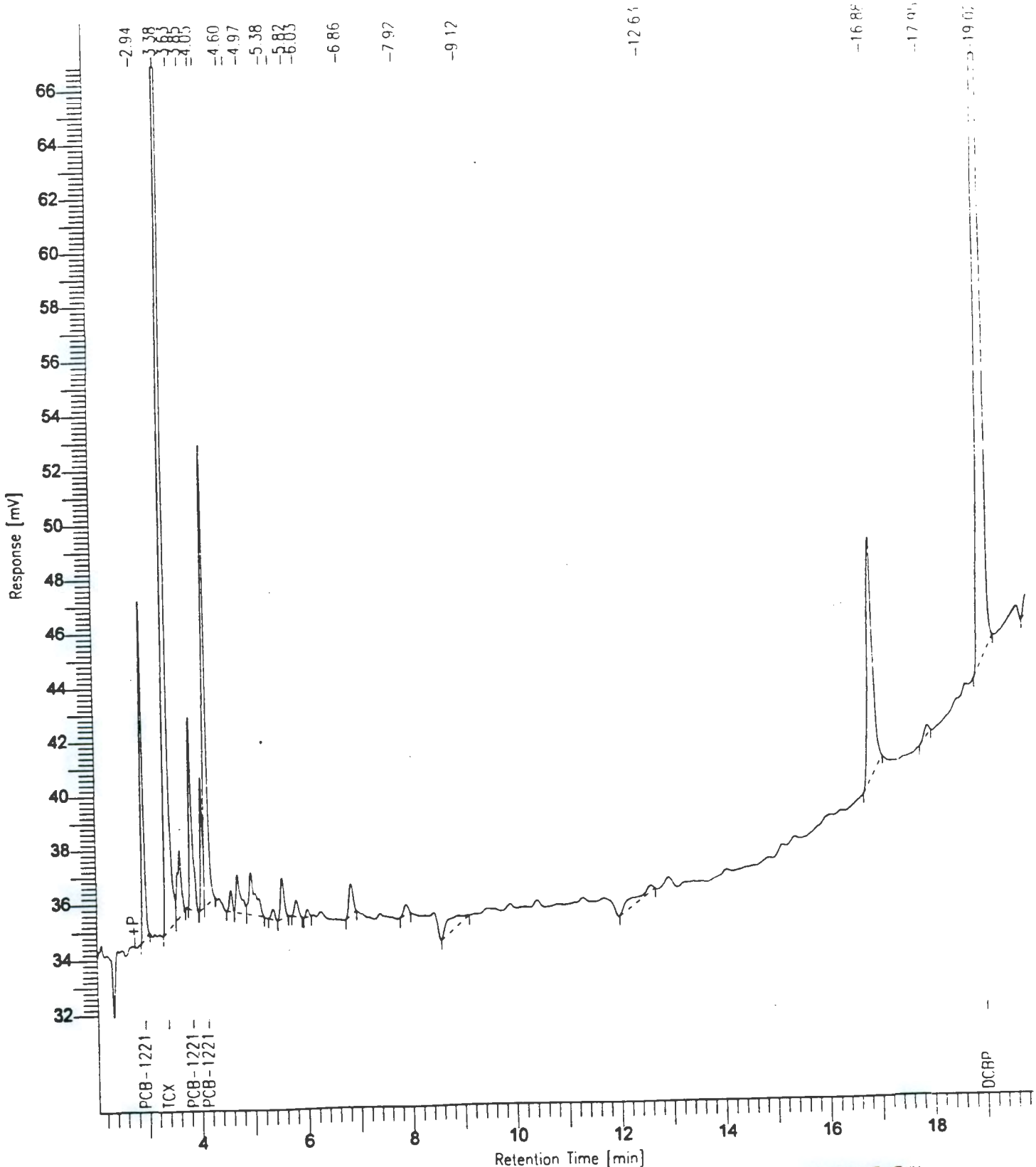
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	2.936	PCB-1221-1	36998	B	12686	1e-15	0.2000
2	3.380	TCX	256188	B	85512	2e-15	0.0200
3	3.634		12907	V	2464	-------	1.2907e-07
4	3.847	PCB-1221-2	26833	B	7243	8e-16	0.2000
5	4.053		15671	B	4960	-------	1.5671e-07
6	4.140	PCB-1221-3	62517	V	17022	-1e-14	0.2000
8	4.720		8672	V	1410	-------	8.6716e-08
9	4.973		12925	V	1556	-------	1.2925e-07
11	5.557		7204	B	1500	-------	7.2040e-08
14	6.862		6454	B	1156	-------	6.4540e-08
16	9.124		9714	B	22	-------	9.7143e-08
17	12.632		8592	B	220	-------	8.5920e-08

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
18	16.878		65884	B	8915	-------	6.5884e-07
20	19.019	DCBP	296322	B	44053	6e-15	0.0200
21	21.747		160359	B	315	-------	1.6036e-06
			987239		189034		0.6400

Chromatogram

Sample Name : ICV*AR1221*1
FileName : C:\TC4\DATA1\992B009.RAW
Method :
Start Time : 2.03 min
Scale Factor: 0.0
End Time : 19.88 min
Plot Offset: 32 mV

Sample #:
Date : 6/14/94 12:11 PM
Time of Injection: 6/13/94 04:44 PM
Low Point : 31.85 mV
High Point : 66.85 mV
Plot Scale: 35.0 mV



Software Version: 4.0<1C29>
Sample Name : ICV*AR1232*1 Time : 6/14/94 12:12 PM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 05:27 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B010.RAW
Result File : C:\TC4\DATA1\992B010.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B010.RST
Proc Method : C:\TC4\DATA1\992B1232 from C:\TC4\DATA1\992B010.RST
Calib Method : C:\TC4\DATA1\992B1232 from C:\TC4\DATA1\992B010.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 4444.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 34

DATA REPORT

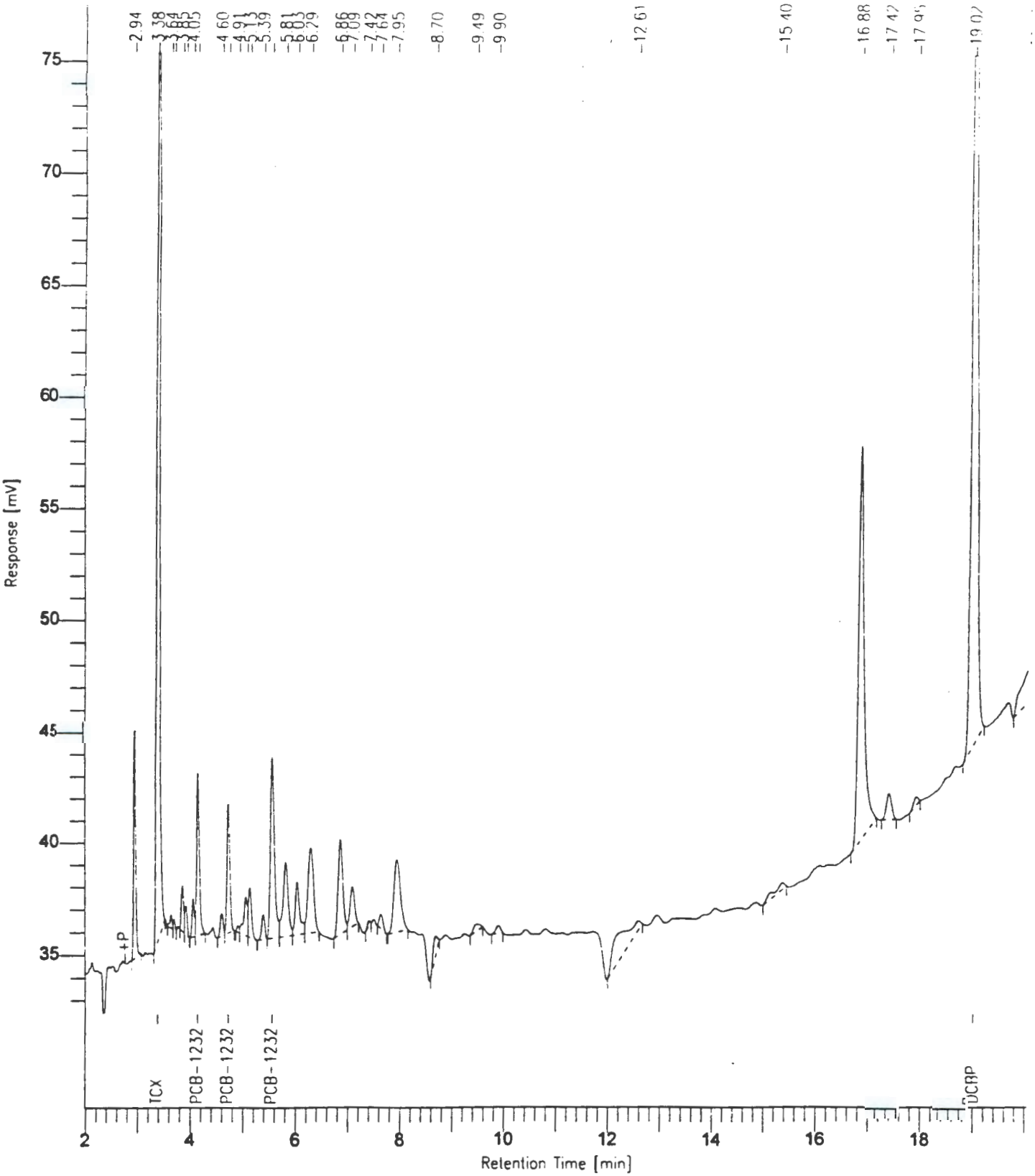
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	2.939		28932	B	10377	-------	2.8932e-07
2	3.381	TCX	256446	B	88261	6e-15	0.0200
5	3.846		6022	B	2048	-------	6.0219e-08
7	4.054		5511	B	1713	-------	5.5106e-08
8	4.140	PCB-1232-1	26529	V	7323	1e-14	0.1000
10	4.720	PCB-1232-2	22521	V	5875	6e-15	0.1000
12	5.055		8505	V	1710	-------	8.5054e-08
13	5.128		8726	V	2213	-------	8.7260e-08
14	5.386		4624	B	1103	-------	4.6245e-08
15	5.556	PCB-1232-3	43179	V	8172	-7e-15	0.1000
16	5.814		22411	V	3330	-------	2.2411e-07
17	6.034		14184	V	2351	-------	1.4184e-07

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
18	6.294		28097	V	3833	-------	2.8097e-07
19	6.860		27120	B	4287	-------	2.7120e-07
20	7.090		10975	V	1791	-------	1.0975e-07
23	7.945		29204	B	3254	-------	2.9204e-07
24	8.700		5990	B	807	-------	5.9903e-08
27	12.609		29402	B	407	-------	2.9403e-07
28	15.398		5326	B	279	-------	5.3255e-08
29	16.875		133346	B	17688	-------	1.3335e-06
30	17.419		8178	B	1189	-------	8.1780e-08
32	19.020	DCBP	300543	B	44337	-4e-15	0.0200
33	20.202		48904	B	2948	-------	4.8904e-07
34	21.758		123287	V	293	-------	1.2329e-06
			1197963		215588		0.3400

Chromatogram

Sample Name : ICV*AR1232*1
FileName : C:\TC4\DATA1\992B010.RAW
Method :
Start Time : 1.98 min End Time : 20.07 min
Scale Factor: 0.0 Plot Offset: 32 mV

Sample #:
Date : 6/14/94 12:12 PM
Time of Injection: 6/13/94 05:27 PM
Low Point : 32.42 mV High Point : 75.40 mV
Plot Scale: 43.0 mV



Software Version: 4.0<1C29>
Sample Name : ICV*AR1242*1 Time : 6/14/94 12:12 PM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 06:09 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B011.RAW
Result File : C:\TC4\DATA1\992B011.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B011.RST
Proc Method : C:\TC4\DATA1\992B1242 from C:\TC4\DATA1\992B011.RST
Calib Method : C:\TC4\DATA1\992B1242 from C:\TC4\DATA1\992B011.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 4444.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 38

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	2.940		20190	B	7642	-------	2.0190e-07
2	3.381	TCX	281106	B	95471	4e-15	0.0200
8	4.141		19159	V	5669	-------	1.9159e-07
11	4.721	PCB-1242-1	40443	V	9772	-1e-15	0.1000
12	4.904		4716	E	915	-------	4.7160e-08
13	5.054		12311	V	2833	-------	1.2311e-07
14	5.130		16387	V	3740	-------	1.6387e-07
15	5.386		7925	B	1824	-------	7.9249e-08
16	5.556	PCB-1242-2	69346	V	13059	-6e-15	0.1000
17	5.815		37922	V	5460	-------	3.7922e-07
18	6.034		24684	V	4111	-------	2.4684e-07
19	6.293		54745	V	7088	-------	5.4745e-07

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
20	6.859		41596	B	6307	-------	4.1596e-07
21	7.090		30384	V	3934	-------	3.0384e-07
22	7.509		4734	B	863	-------	4.7339e-08
23	7.638		9939	V	1673	-------	9.9391e-08
24	7.945	PCB-1242-3	52087	B	5659	-2e-15	0.1000
25	8.470		4494	B	700	-------	4.4941e-08
26	8.660		11996	V	1651	-------	1.1996e-07
28	9.569		8679	B	867	-------	8.6790e-08
29	9.905		8634	B	1162	-------	8.6343e-08
31	10.810		5158	B	680	-------	5.1580e-08
32	12.129		9470	B	692	-------	9.4705e-08
33	16.433		5368	B	8e-13	-------	5.3680e-08
34	16.877		74919	B	10371	-------	7.4919e-07
35	17.942		5546	B	778	-------	5.5460e-08
36	19.020	DCBP	312051	B	45899	-9e-15	0.0200
37	20.209		52156	B	2715	-------	5.2156e-07
38	21.736		144465	V	327	-------	1.4446e-06
			1370610		241860		0.3400

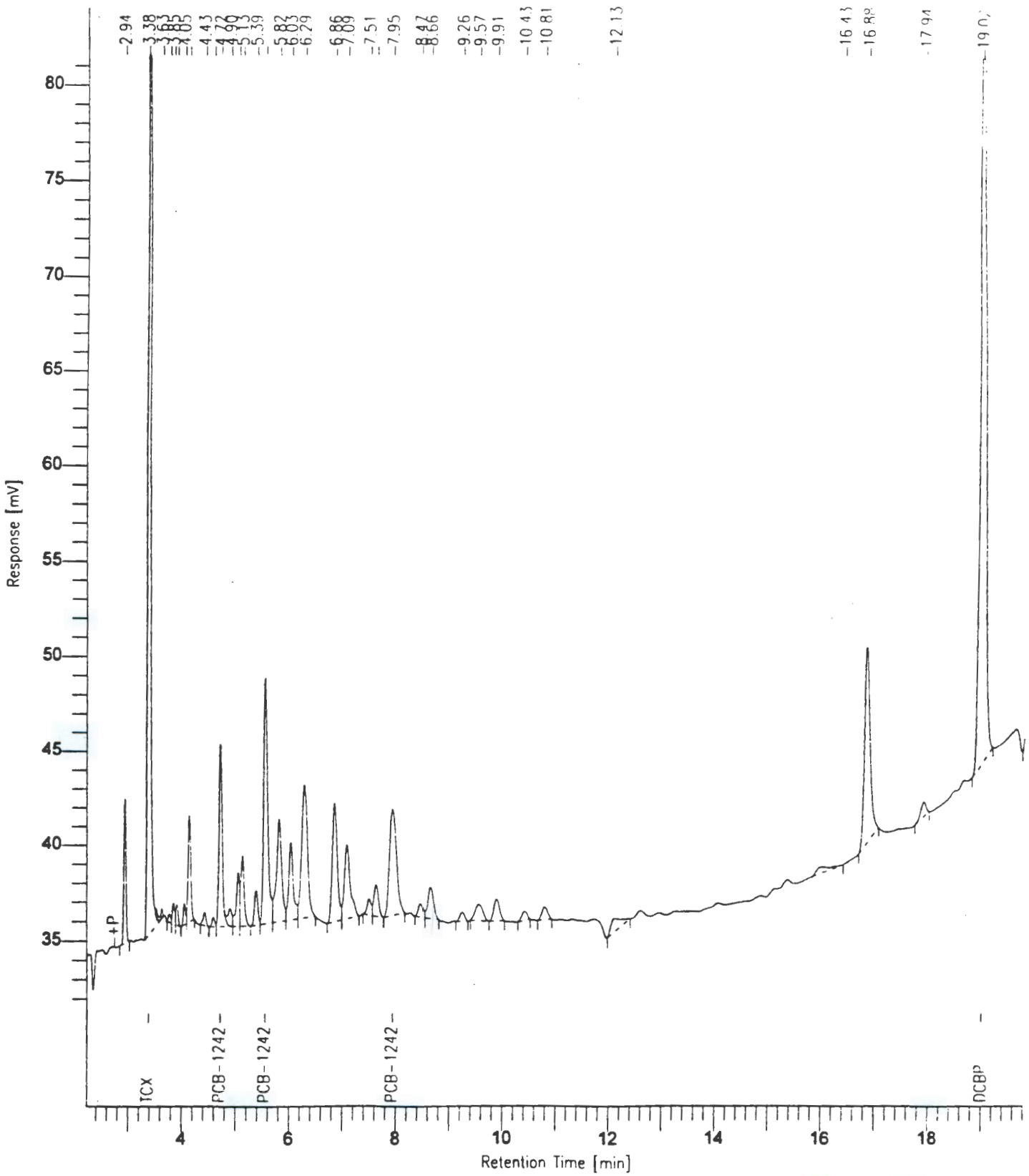
9513356.0723

Chromatogram

Sample Name : ICV*AR1242*1
FileName : C:\TC4\DATA1\992B011.RAW
Method :
Start Time : 2.22 min End Time : 19.83 min
Scale Factor: 0.0 Plot Offset: 31 mV

Sample #:
Date : 6/14/94 12:12 PM
Time of Injection: 6/13/94 06:09 PM
Low Point : 31.28 mV High Point : 81.56 mV
Plot Scale: 50.3 mV

Page 1 of 1



000154

Software Version: 4.0<1C29>
Sample Name : ICV*AR1248*1 Time : 6/14/94 12:12 PM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 06:51 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B012.RAW
Result File : C:\TC4\DATA1\992B012.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B012.RST
Proc Method : C:\TC4\DATA1\992B1248 from C:\TC4\DATA1\992B012.RST
Calib Method : C:\TC4\DATA1\992B1248 from C:\TC4\DATA1\992B012.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 4444.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 35

DATA REPORT

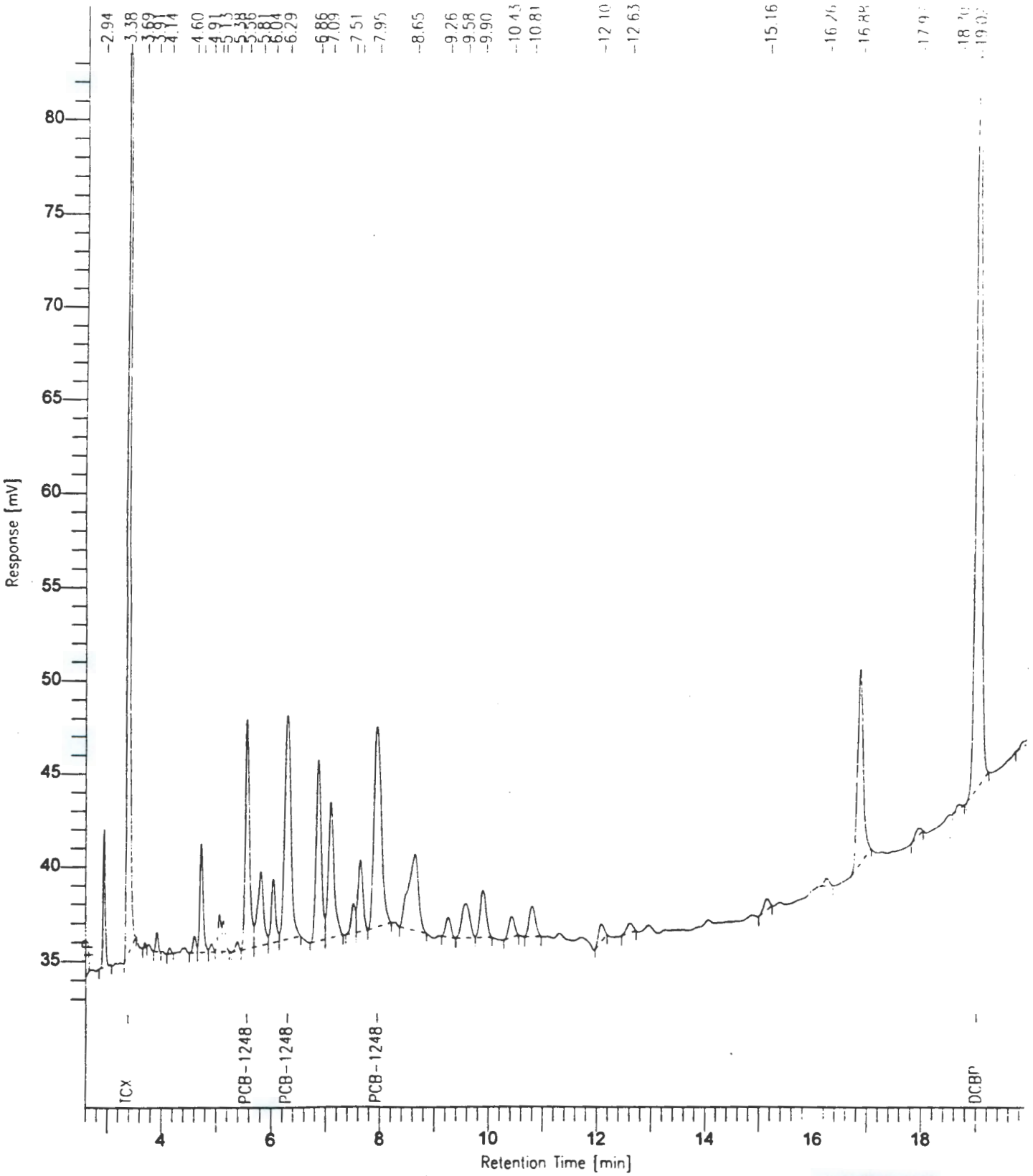
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	2.940		19825	B	7395	-------	1.9825e-07
2	3.381	TCX	246508	B	85152	9e-16	0.0200
7	4.720		24267	V	5869	-------	2.4267e-07
9	5.055		8584	V	1969	-------	8.5837e-08
10	5.128		5911	V	1614	-------	5.9108e-08
12	5.556	PCB-1248-1	65463	B	12371	-5e-15	0.1000
13	5.809		30105	V	3944	-------	3.0105e-07
14	6.035		18451	V	3384	-------	1.8451e-07
15	6.294	PCB-1248-2	95563	V	12073	-2e-15	0.1000
16	6.860		64063	B	9739	-------	6.4063e-07
17	7.089		53087	V	7303	-------	5.3087e-07
18	7.511		8604	B	1556	-------	8.6036e-08

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
19	7.639		24297	V	3866	-------	2.4297e-07
20	7.950	PCB-1248-3	102070	B	10837	2e-15	0.1000
21	8.647		53124	B	4111	-------	5.3124e-07
22	9.256		6926	B	1036	-------	6.9263e-08
23	9.584		18559	B	1818	-------	1.8559e-07
24	9.903		19460	V	2522	-------	1.9460e-07
25	10.432		8152	B	1098	-------	8.1525e-08
26	10.812		13126	B	1629	-------	1.3126e-07
27	12.095		6819	B	922	-------	6.8193e-08
29	15.159		4472	B	599	-------	4.4725e-08
31	16.880		75994	B	10523	-------	7.5995e-07
34	19.021	DCBP	303901	B	44714	6e-15	0.0200
35	21.751		112807	B	247	-------	1.1281e-06
			1390138		236294		0.3400

Chromatogram

Sample Name : ICV*AR1248*1
FileName : C:\TC4\DATA1\992B012.RAW
Method :
Start Time : 2.60 min End Time : 19.92 min
Scale Factor: 0.0 Plot Offset: 32 mV

Sample #: Page 1 of 1
Date : 6/14/94 12:13 PM
Time of Injection: 6/13/94 06:51 PM
Low Point : 32.24 mV High Point : 83.54 mV
Plot Scale: 51.3 mV



Software Version: 4.0<1C29>
Sample Name : ICV*AR1254*1 Time : 6/14/94 12:13 PM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 07:34 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B013.RAW
Result File : C:\TC4\DATA1\992B013.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B013.RST
Proc Method : C:\TC4\DATA1\992B1254 from C:\TC4\DATA1\992B013.RST
Calib Method : C:\TC4\DATA1\992B1254 from C:\TC4\DATA1\992B013.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 4444.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 22 Area Threshold : 111 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 41

DATA REPORT

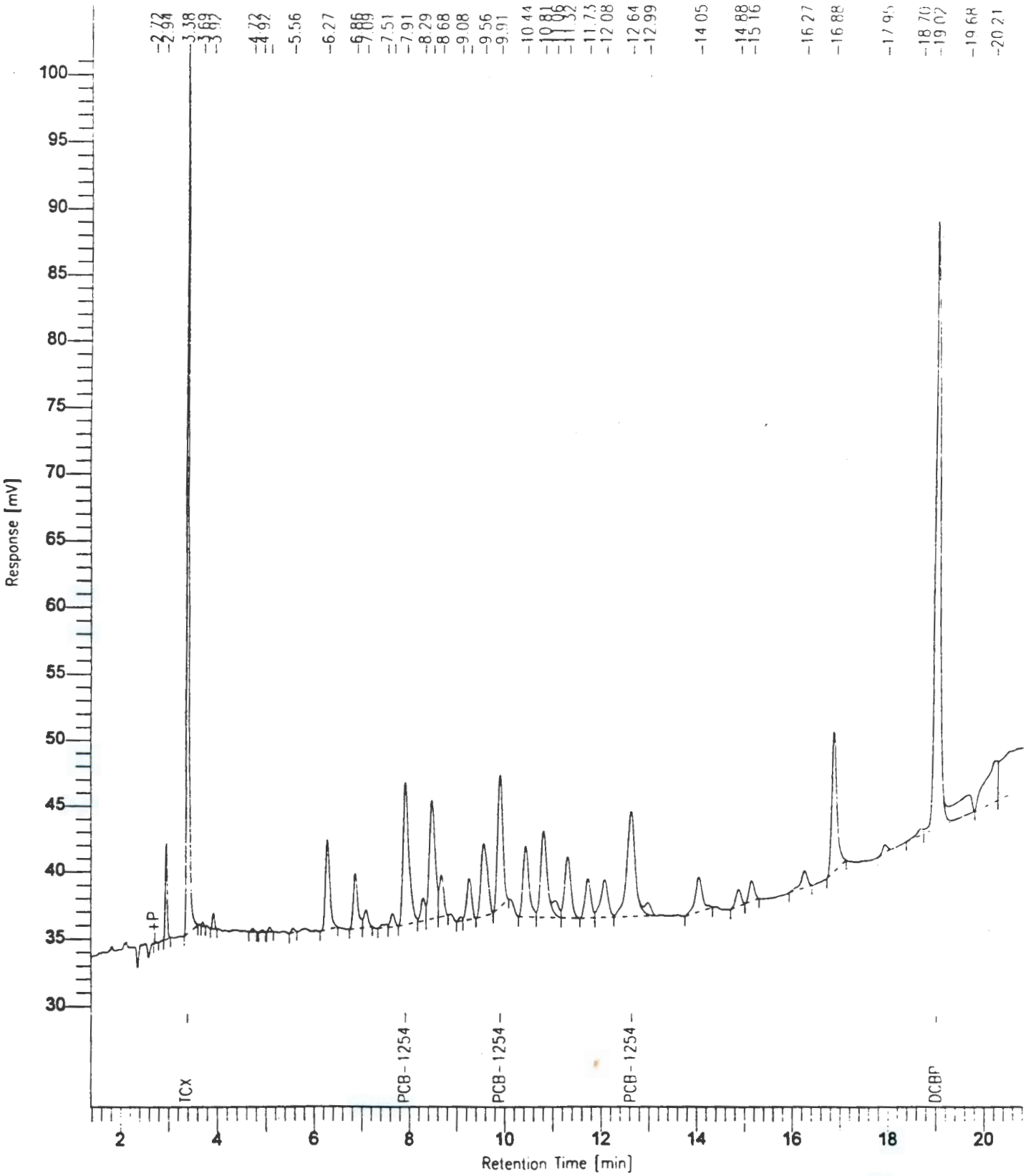
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	2.940		18983	B	7233	-------	1.8983e-07
3	3.382	TCX	218370	B	75158	-6e-15	0.0200
10	6.269		43450	B	6804	-------	4.3451e-07
11	6.857		27416	B	4167	-------	2.7416e-07
12	7.085		8153	V	1294	-------	8.1526e-08
14	7.646		6256	V	976	-------	6.2560e-08
15	7.914	PCB-1254-1	92265	B	10817	-4e-15	0.1000
16	8.292		11054	V	1716	-------	1.1054e-07
17	8.475		77596	V	9002	-------	7.7596e-07
18	8.676		20746	V	3160	-------	2.0746e-07
20	9.259		22342	V	3118	-------	2.2342e-07
21	9.563		53125	B	5502	-------	5.3125e-07

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
22	9.907	PCB-1254-2	75987	B	10010	-1e-15	0.1000
23	10.439		46942	B	5383	-------	4.6942e-07
24	10.813		63886	V	6576	-------	6.3886e-07
25	11.057		9218	E	1032	-------	9.2180e-08
26	11.315		42113	V	4630	-------	4.2113e-07
27	11.734		24918	B	2955	-------	2.4918e-07
28	12.083		30418	V	2838	-------	3.0418e-07
29	12.640	PCB-1254-3	100253	V	7988	-4e-15	0.1000
30	12.986		8336	E	881	-------	8.3365e-08
31	14.053		27860	B	2614	-------	2.7860e-07
32	14.884		10062	B	1293	-------	1.0062e-07
33	15.155		12202	B	1558	-------	1.2202e-07
34	16.265		12199	B	1283	-------	1.2199e-07
35	16.877		79631	B	10680	-------	7.9631e-07
37	18.699		4903	B	487	-------	4.9033e-08
38	19.020	DCBP	323113	V	45832	-5e-15	0.0200
39	19.680		42152	E	1457	-------	4.2153e-07
40	20.212		57377	B	3084	-------	5.7377e-07
41	22.792		299274	V	132	-------	2.9927e-06
			1870601		239658		0.3400

Chromatogram

Sample Name : ICV*AR1254*1
FileName : C:\TC4\DATA1\992B013.RAW
Method :
Start Time : 1.38 min End Time : 20.82 min
Scale Factor: 0.0 Plot Offset: 30 mV

Sample #:
Date : 6/14/94 12:13 PM
Time of Injection: 6/13/94 07:34 PM
Low Point : 29.52 mV High Point : 101.63 mV
Plot Scale: 72.1 mV



Software Version: 4.0<1C29>
Sample Name : ICV*TOXAPH*1 Time : 6/14/94 12:13 PM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 08:16 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B014.RAW
Result File : C:\TC4\DATA1\992B014.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B014.RST
Proc Method : C:\TC4\DATA1\992BTOX from C:\TC4\DATA1\992B014.RST
Calib Method : C:\TC4\DATA1\992BTOX from C:\TC4\DATA1\992B014.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 4444.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 54

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	2.939		21926	B	8193	-------	2.1926e-07
2	3.380	TCX	256555	B	87553	-4e-15	0.0200
5	4.597		5641	B	1415	-------	5.6405e-08
11	7.504		16470	B	2389	-------	1.6470e-07
13	8.058		6656	B	985	-------	6.6559e-08
14	8.237		11192	V	1300	-------	1.1192e-07
15	8.501		20068	V	2359	-------	2.0068e-07
16	8.907		39362	B	2645	-------	3.9362e-07
17	9.261		22258	V	2520	-------	2.2258e-07
18	9.414		12879	V	1679	-------	1.2879e-07
19	9.829		38610	V	2860	-------	3.8610e-07
20	10.217		38851	V	3447	-------	3.8851e-07

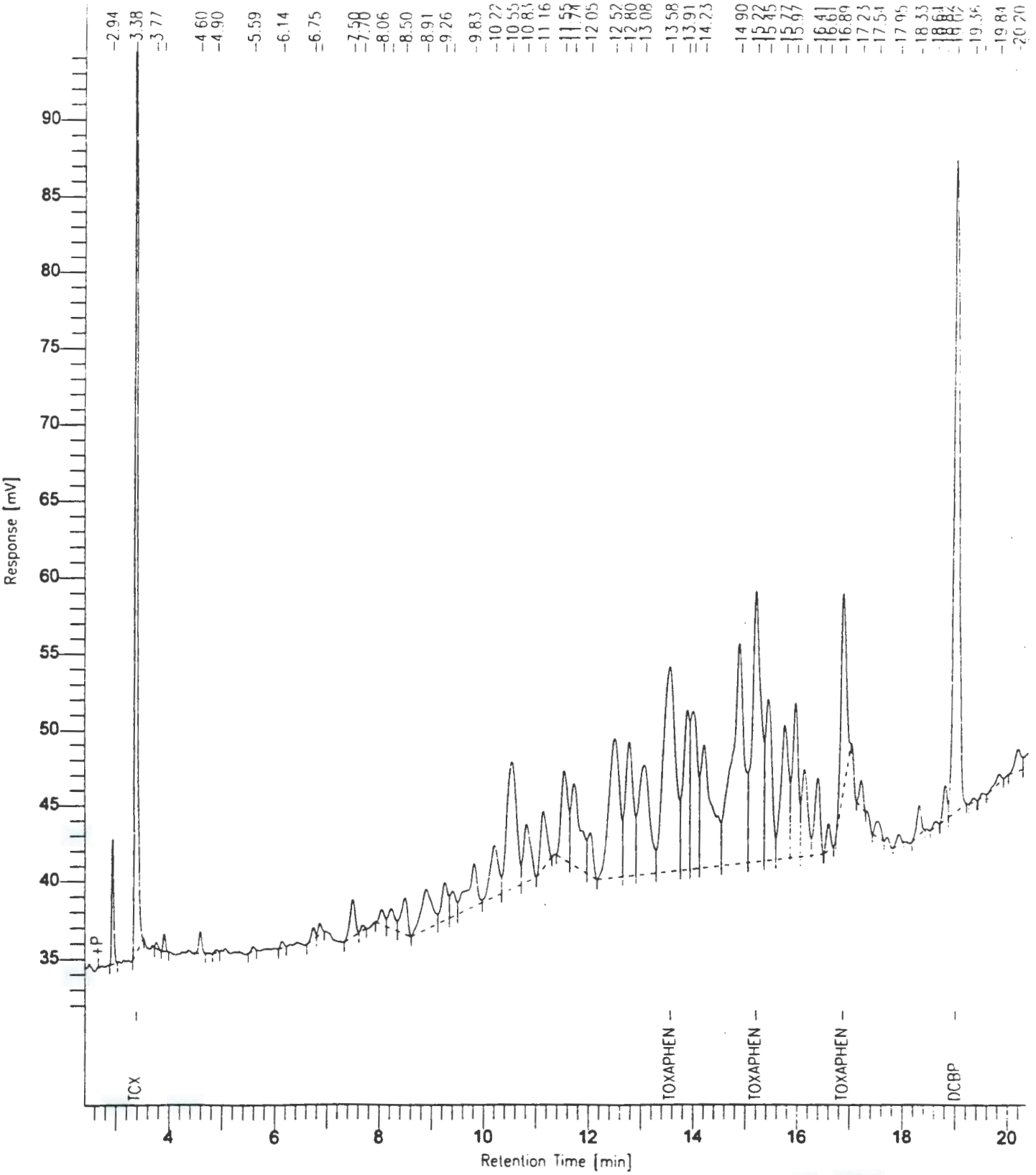
Result File : 992B014.RST, Printed On 6/14/94 12:13 PM

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
21	10.546		108849	V	8408	-------	1.0885e-06
22	10.830		37115	V	3834	-------	3.7115e-07
23	11.156		31639	B	3773	-------	3.1639e-07
24	11.553		53246	B	5894	-------	5.3246e-07
25	11.740		67994	V	5387	-------	6.7994e-07
26	12.053		20095	V	2856	-------	2.0095e-07
27	12.518		133965	B	9216	-------	1.3397e-06
28	12.797		94741	V	8893	-------	9.4741e-07
29	13.083		107727	V	7215	-------	1.0773e-06
30	13.580	TOXAPHENE-1	223293	V	13546	-6e-15	0.5000
31	13.911		91351	V	10561	-------	9.1351e-07
32	14.020		97819	V	10447	-------	9.7819e-07
33	14.227		123170	V	8129	-------	1.2317e-06
34	14.903		233608	V	14557	-------	2.3361e-06
35	15.218	TOXAPHENE-2	209284	V	17835	-3e-15	0.5000
36	15.448		93725	V	10674	-------	9.3725e-07
37	15.767		92521	V	8831	-------	9.2521e-07
38	15.974		83160	V	10231	-------	8.3160e-07
39	16.149		47041	V	5744	-------	4.7041e-07
40	16.408		36568	V	5081	-------	3.6568e-07
41	16.613		9576	B	1783	-------	9.5755e-08
42	16.889	TOXAPHENE-3	93601	B	13131	1e-15	0.5000
43	17.230		8664	B	1777	-------	8.6645e-08
44	17.544		7986	B	1061	-------	7.9863e-08
46	18.333		11707	B	1961	-------	1.1707e-07
48	18.821		12036	B	2329	-------	1.2036e-07
49	19.018	DCBP	291600	V	42927	-7e-15	0.0200
52	19.843		4840	B	566	-------	4.8400e-08
53	20.197		12669	B	1453	-------	1.2669e-07
54	21.747		65941	V	264	-------	6.5941e-07
			2995999		355709		1.5400

Chromatogram

Sample Name : ICV*TOXAPH*1
FileName : C:\TC4\DATA1\992B014.RAW
Method :
Start Time : 2.41 min End Time : 20.39 min
Scale Factor: 0.0 Plot Offset: 32 mV

Sample #:
Date : 6/14/94 12:13 PM
Time of Injection: 6/13/94 08:16 PM
Low Point : 31.67 mV High Point : 94.45 mV
Plot Scale: 62.8 mV



Software Version: 4.0<1C29>
Sample Name : ICV*INDAL*1 Time : 6/14/94 12:14 PM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 08:58 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B015.RAW
Result File : C:\TC4\DATA1\992B015.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B015.RST
Proc Method : C:\TC4\DATA1\992BAL from C:\TC4\DATA1\992B015.RST
Calib Method : C:\TC4\DATA1\992BAL from C:\TC4\DATA1\992B015.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 17

DATA REPORT

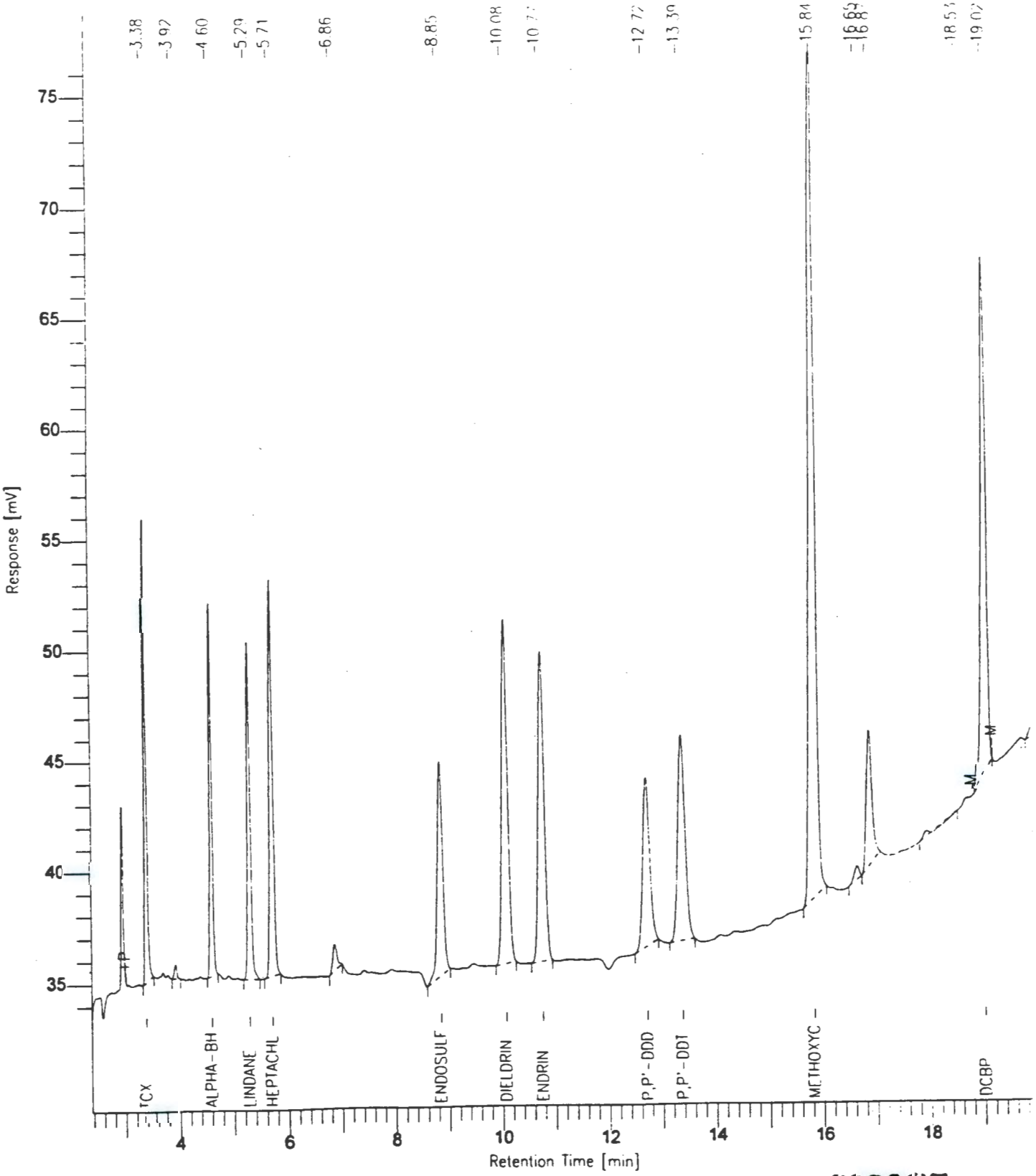
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	3.380	TCX	59156	B	21247	6e-15	0.0050
3	4.596	ALPHA-BHC	54564	B	17126	9e-15	0.0050
4	5.293	LINDANE	59122	B	15284	7e-15	0.0050
5	5.706	HEPTACHLOR	82220	B	17953	-3e-15	0.0050
7	8.849	ENDOSULFAN A	70328	B	9675	4e-15	0.0050
8	10.080	DIELDRIN	117228	B	15647	-5e-15	0.0100
9	10.765	ENDRIN	109827	B	14058	4e-15	0.0100
10	12.723	P,P'-DDD	69892	B	7686	2e-15	0.0100
11	13.385	P,P'-DDT	87653	B	9368	-5e-15	0.0100
12	15.836	METHOXYCHLOR	305356	B	40569	4e-15	0.0500
16	19.018	DCBP	152292	*B	23437	-1e-15	0.0100

9513556.0734

Chromatogram

Sample Name : ICV*INDAL*1
FileName : C:\TC4\DATA1\992B015.RAW
Method :
Start Time : 2.37 min End Time : 19.88 min
Scale Factor: 0.0 Plot Offset: 34 mV

Sample #:
Date : 6/14/94 12:14 PM
Time of Injection: 6/13/94 08:58 PM
Low Point : 33.53 mV High Point : 76.73 mV
Plot Scale: 43.2 mV



000165

Software Version: 4.0<1C29>
Sample Name : ICV*INDBL*1 Time : 6/14/94 12:27 PM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 09:41 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B016.RAW
Result File : C:\TC4\DATA1\992B016.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B016.RST
Proc Method : C:\TC4\DATA1\992BBL.MTH
Calib Method : C:\TC4\DATA1\992BBL.MTH
Sequence File : C:\TC4\HP58909\992A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 22

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	3.379	TCX	104439	B	36798	4e-15	0.0050
6	6.297	ALDRIN	57733	B	11641	-9e-16	0.0050
8	7.010	BETA-BHC	36910	V	6966	-3e-15	0.0050
9	7.629	DELTA-BHC	47318	B	8527	-5e-15	0.0050
10	8.058	HEPTACHLOR EPOXIDE	69182	B	10932	1e-15	0.0050
11	9.084	GAMMA-CHLORDANE	72427	B	10087	8e-15	0.0050
12	9.264	ALPHA-CHLORDANE	71653	V	10025	-9e-15	0.0050
13	9.698	P,P'-DDE	83168	B	10280	-7e-15	0.0100
14	12.700	ENDOSULFAN B	117470	B	13388	6e-15	0.0100
15	14.354	ENDRIN ALDEHYDE	71650	B	7333	4e-15	0.0100
17	15.485	ENDOSULFAN SULFATE	106246	B	14235	4e-15	0.0100
19	16.654	ENDRIN KETONE	104106	B	15807	-7e-15	0.0100

Result File : 992B016.RST, Printed On 6/14/94 12:27 PM

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
22	19.019	DCBP	153277	B	22935	-2e-15	0.0100
			1095578		178953		0.0950

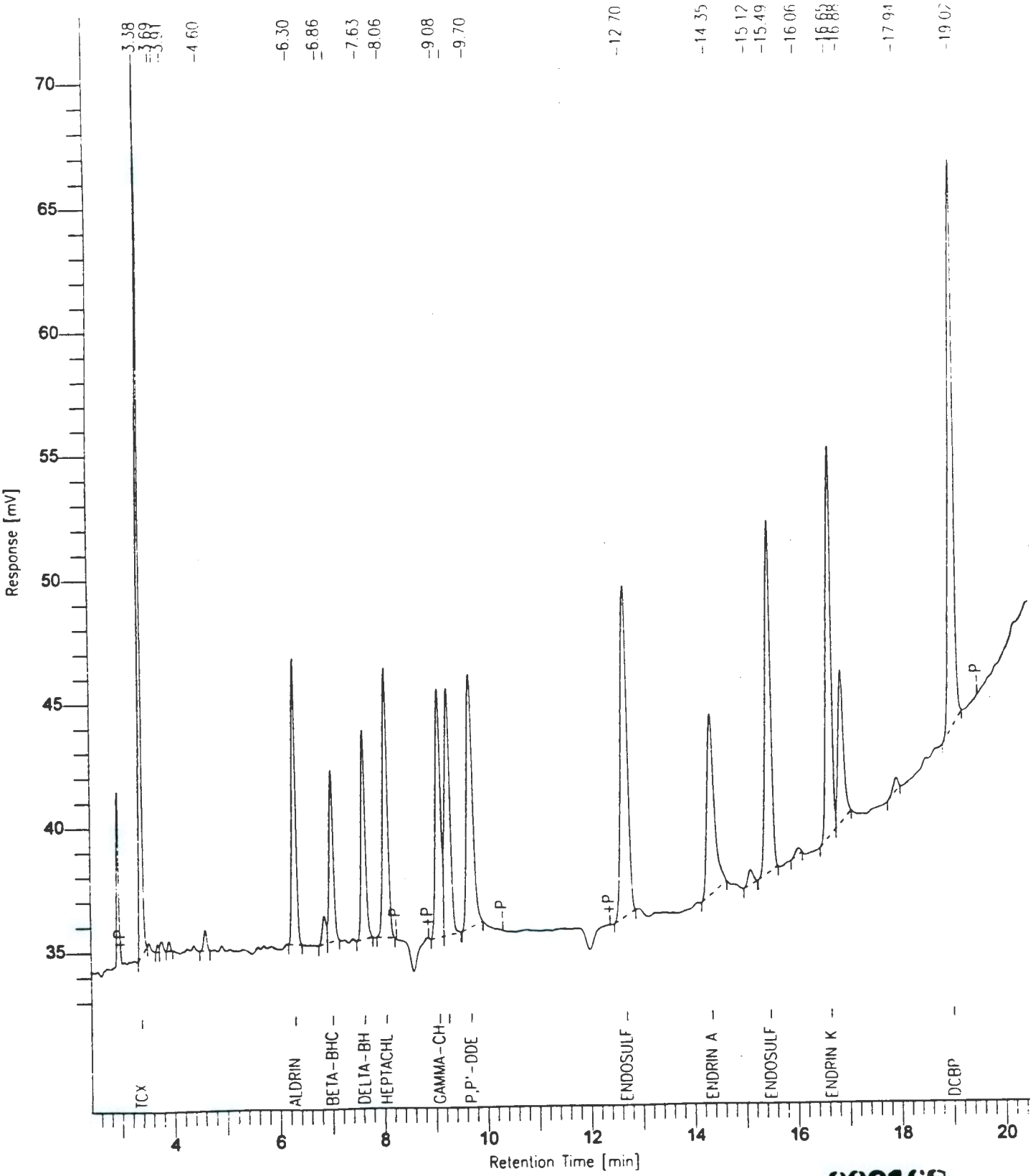
9513556.0737

Chromatogram

Sample Name : ICV*INDBL*1
FileName : C:\TC4\DATA1\992B016.RAW
Method : 992BBL.MTH
Start Time : 2.41 min
Scale Factor: 0.0

End Time : 20.49 min
Plot Offset: 32 mV

Sample #:
Date : 6/14/94 12:27 PM
Time of Injection: 6/13/94 09:41 PM
Low Point : 32.38 mV
Plot Scale: 38.5 mV



000168

Software Version: 4.0<1C29>
Sample Name : ICV*INDAM*1 Time : 6/14/94 12:17 PM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 10:23 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B017.RAW
Result File : C:\TC4\DATA1\992B017.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B017.RST
Proc Method : C:\TC4\DATA1\992BAM from C:\TC4\DATA1\992B017.RST
Calib Method : C:\TC4\DATA1\992BAM from C:\TC4\DATA1\992B017.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 21

DATA REPORT

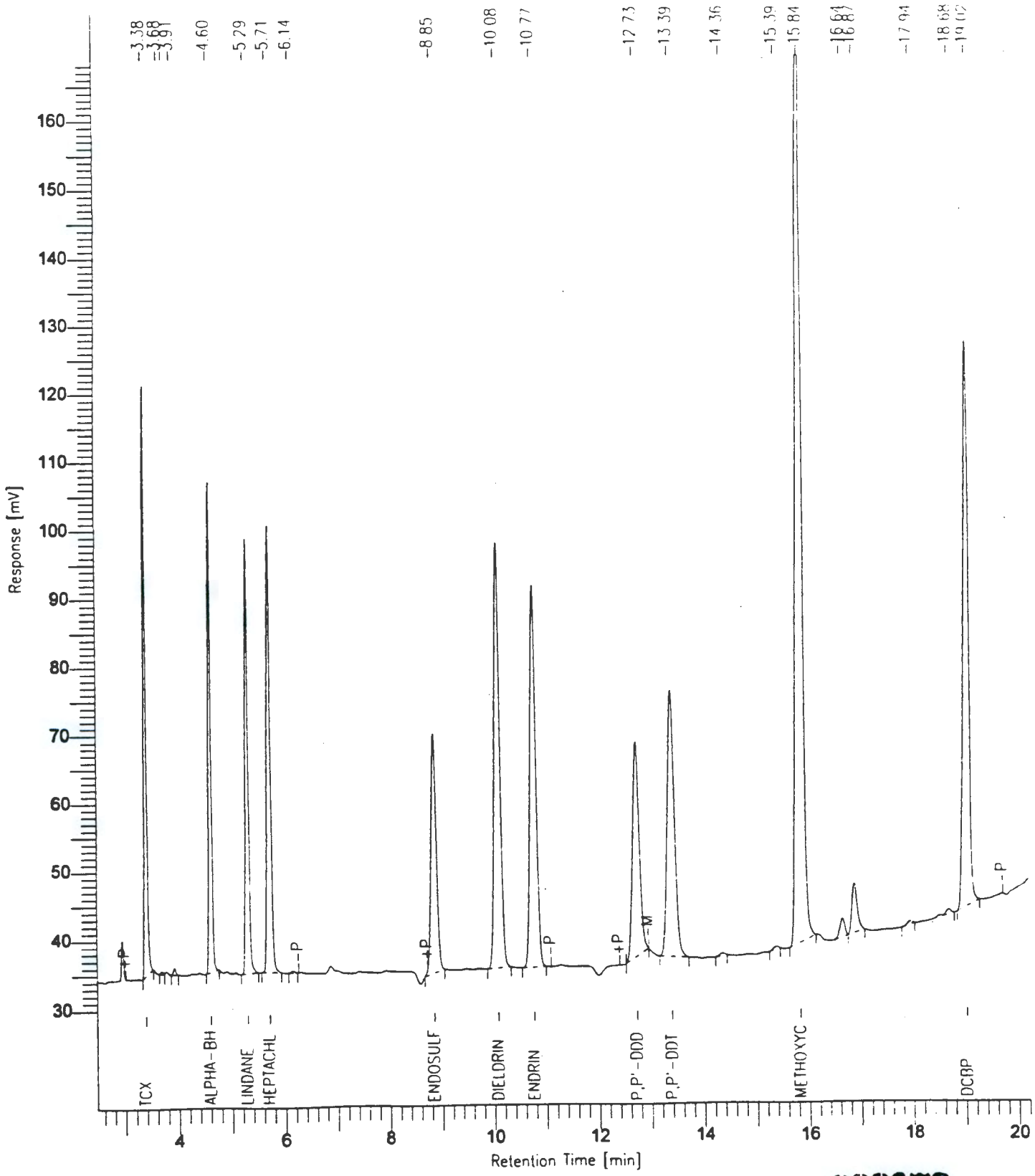
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	3.380	TCX	253722	B	88072	-2e-15	0.0200
5	4.598	ALPHA-BHC	234876	B	72123	-3e-15	0.0200
6	5.294	LINDANE	245097	B	63965	-2e-15	0.0200
7	5.706	HEPTACHLOR	305423	B	65654	1e-15	0.0200
9	8.849	ENDOSULFAN A	247356	*B	35136	-9e-15	0.0200
10	10.079	DIELDRIN	464478	B	62551	-6e-15	0.0400
11	10.766	ENDRIN	434082	B	56047	6e-15	0.0400
12	12.725	P,P'-DDD	281380	*B	31539	-3e-15	0.0400
13	13.389	P,P'-DDT	363784	B	39116	4e-15	0.0400
16	15.837	METHOXYCHLOR	1165680	B	150258	3e-15	0.2000
21	19.018	DCBP	570539	B	82933	-9e-15	0.0400

9513356.0739

Chromatogram

Sample Name : ICV*INDAM*1
FileName : C:\TC4\DATA1\992B017.RAW
Method :
Start Time : 2.46 min End Time : 20.21 min
Scale Factor: 0.0 Plot Offset: 29 mV

Sample #:
Date : 6/14/94 12:17 PM
Time of Injection: 6/13/94 10:23 PM
Low Point : 29.29 mV High Point : 168.83 mV
Plot Scale: 139.5 mV



000170

Software Version: 4.0<1C29>
Sample Name : ICV*INDBM*1 Time : 6/14/94 12:18 PM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 11:05 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B018.RAW
Result File : C:\TC4\DATA1\992B018.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B018.RST
Proc Method : C:\TC4\DATA1\992BBM from C:\TC4\DATA1\992B018.RST
Calib Method : C:\TC4\DATA1\992BBM from C:\TC4\DATA1\992B018.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 26

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	3.380	TCX	248826	B	85612	2e-15	0.0200
8	6.298	ALDRIN	236852	B	46874	5e-15	0.0200
10	7.010	BETA-BHC	140927	V	26278	6e-15	0.0200
12	7.629	DELTA-BHC	209320	V	37065	-2e-15	0.0200
13	8.058	HEPTACHLOR EPOXIDE	268659	V	40820	-4e-15	0.0200
14	9.083	GAMMA-CHLORDANE	271812	B	37271	-1e-15	0.0200
15	9.266	ALPHA-CHLORDANE	268838	V	37653	8e-15	0.0200
16	9.699	P,P'-DDE	345996	*B	43546	0.0000	0.0400
17	12.699	ENDOSULFAN B	459371	*B	51795	7e-15	0.0400
18	14.354	ENDRIN ALDEHYDE	288998	*B	27960	-8e-16	0.0400
20	15.486	ENDOSULFAN SULFATE	420417	B	55995	4e-15	0.0400
22	16.653	ENDRIN KETONE	446038	B	65580	-6e-15	0.0400

Result File : 992B018.RST, Printed On 6/14/94 12:18 PM

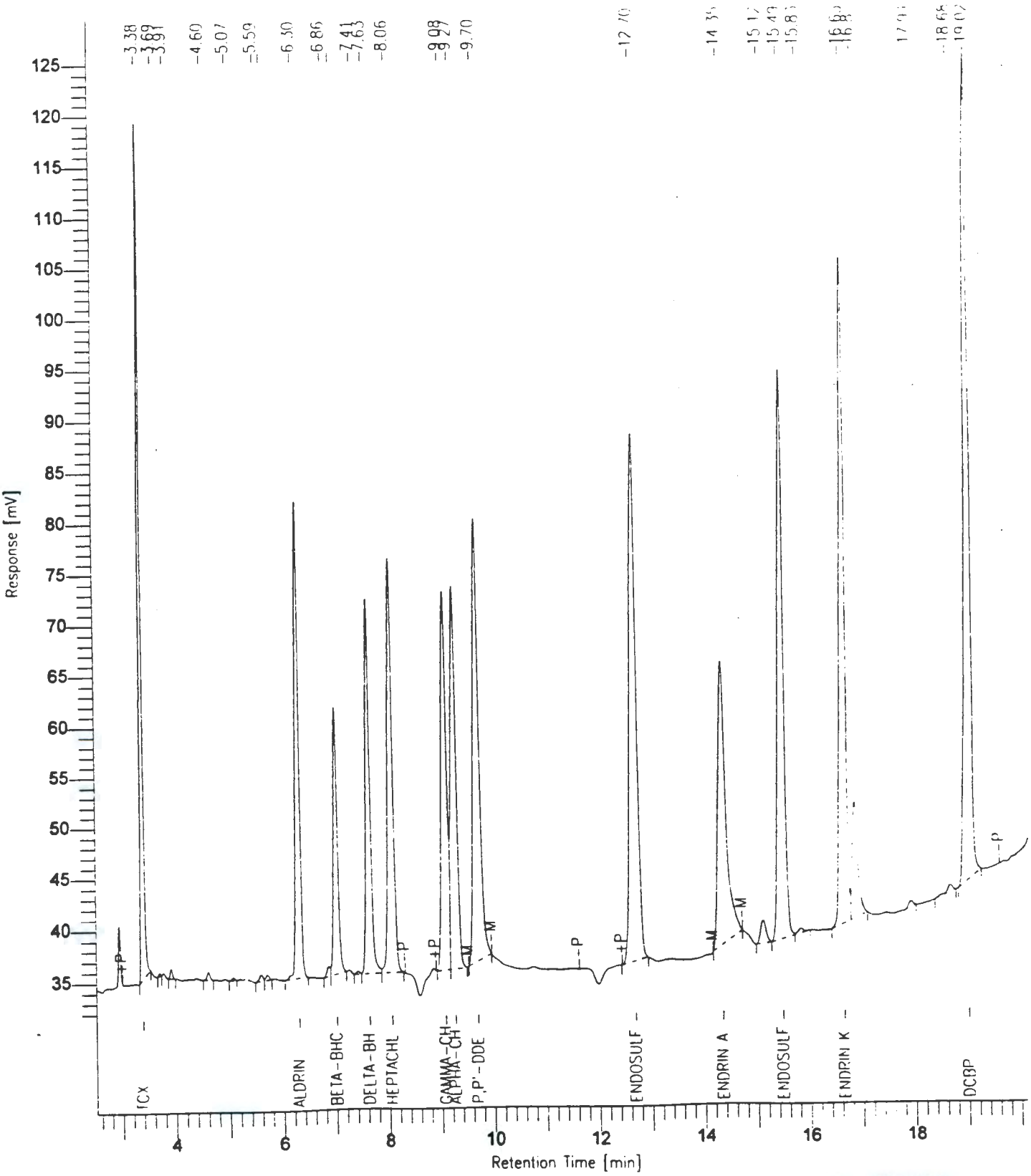
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
26	19.016	DCBP	569889	B	81229	-2e-15	0.0400
			4175943		637679		0.3800

9513356.0742

Chromatogram

Sample Name : ICV*INDBM*1
FileName : C:\TC4\DATA1\992B018.RAW
Method :
Start Time : 2.50 min End Time : 20.16 min
Scale Factor: 0.0 Plot Offset: 31 mV

Sample #:
Date : 6/14/94 12:18 PM
Time of Injection: 6/13/94 11:05 PM
Low Point : 31.48 mV High Point : 125.11 mV
Plot Scale: 93.6 mV



000173

Software Version: 4.0<1C29>
Sample Name : ICV*INDAH*1 Time : 6/14/94 12:18 PM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/13/94 11:48 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B019.RAW
Result File : C:\TC4\DATA1\992B019.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B019.RST
Proc Method : C:\TC4\DATA1\992BAH from C:\TC4\DATA1\992B019.RST
Calib Method : C:\TC4\DATA1\992BAH from C:\TC4\DATA1\992B019.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 33

DATA REPORT

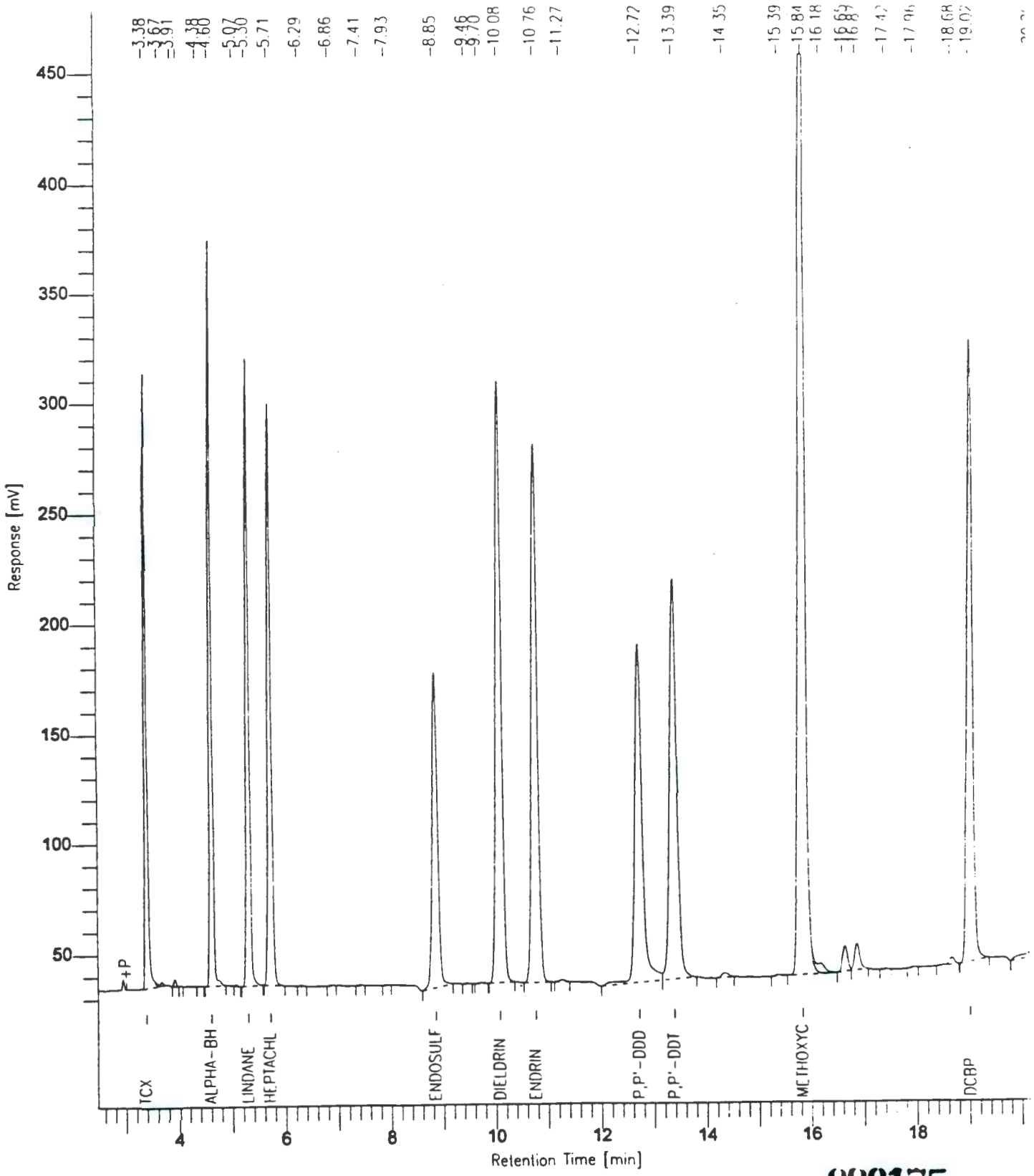
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	3.380	TCX	857813	B	281948	9e-16	0.0800
6	4.599	ALPHA-BHC	1166125	B	338867	9e-15	0.0800
8	5.295	LINDANE	1142031	B	287507	-1e-15	0.0800
9	5.707	HEPTACHLOR	1224444	B	264117	0.0000	0.0800
14	8.849	ENDOSULFAN A	1026736	B	143505	5e-15	0.0800
17	10.079	DIELDRIN	2032680	B	274140	-4e-15	0.1600
18	10.764	ENDRIN	1889415	B	244849	3e-15	0.1600
20	12.722	P,P'-DDD	1510889	B	154290	-4e-15	0.1600
21	13.389	P,P'-DDT	1704644	V	182318	-6e-15	0.1600
24	15.836	METHOXYCHLOR	4215003	V	524925	-4e-15	0.8000
31	19.016	DCBP	2007734	B	283221	-2e-15	0.1600

9513356.0744

Chromatogram

Sample Name : ICV*INDAH*1
FileName : C:\TC4\DATA1\992B019.RAW
Method :
Start Time : 2.46 min End Time : 20.16 min
Scale Factor: 0.0 Plot Offset: 24 mV

Sample #:
Date : 6/14/94 12:18 PM
Time of Injection: 6/13/94 11:48 PM
Low Point : 23.90 mV High Point : 457.14 mV
Plot Scale: 433.2 mV



000175

Software Version: 4.0<1C29>
Sample Name : ICV*INDBH*1 Time : 6/14/94 12:23 PM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/14/94 12:30 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B020.RAW
Result File : C:\TC4\DATA1\992B020.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B020.RST
Proc Method : C:\TC4\DATA1\992BBH.MTH
Calib Method : C:\TC4\DATA1\992BBH.MTH
Sequence File : C:\TC4\HP58909\992A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 31

DATA REPORT

Peak #	Ret Time (min)	Component Name	Area (uV-sec)	BL	Height (uV)	Delta RT (%)	NG INJECTED
1	3.380	TCX	856696	B	282778	-5e-15	0.0800
10	6.299	ALDRIN	1063746	B	215249	-7e-15	0.0800
11	7.010	BETA-BHC	558840	*B	106251	-6e-15	0.0800
13	7.632	DELTA-BHC	1027606	B	186476	-2e-15	0.0800
14	8.059	HEPTACHLOR EPOXIDE	1079652	B	170966	-7e-15	0.0800
16	9.084	GAMMA-CHLORDANE	1103193	V	154037	-3e-15	0.0800
17	9.266	ALPHA-CHLORDANE	1111063	*V	155467	0.0000	0.0800
18	9.700	P,P'-DDE	1650624	*B	210918	4e-15	0.1600
21	12.701	ENDOSULFAN B	1940217	V	221156	-4e-15	0.1600
23	14.355	ENDRIN ALDEHYDE	1221970	*B	112453	8e-16	0.1600
25	15.486	ENDOSULFAN SULFATE	1712488	B	228357	-4e-15	0.1600
27	16.655	ENDRIN KETONE	1913928	B	281901	-6e-15	0.1600

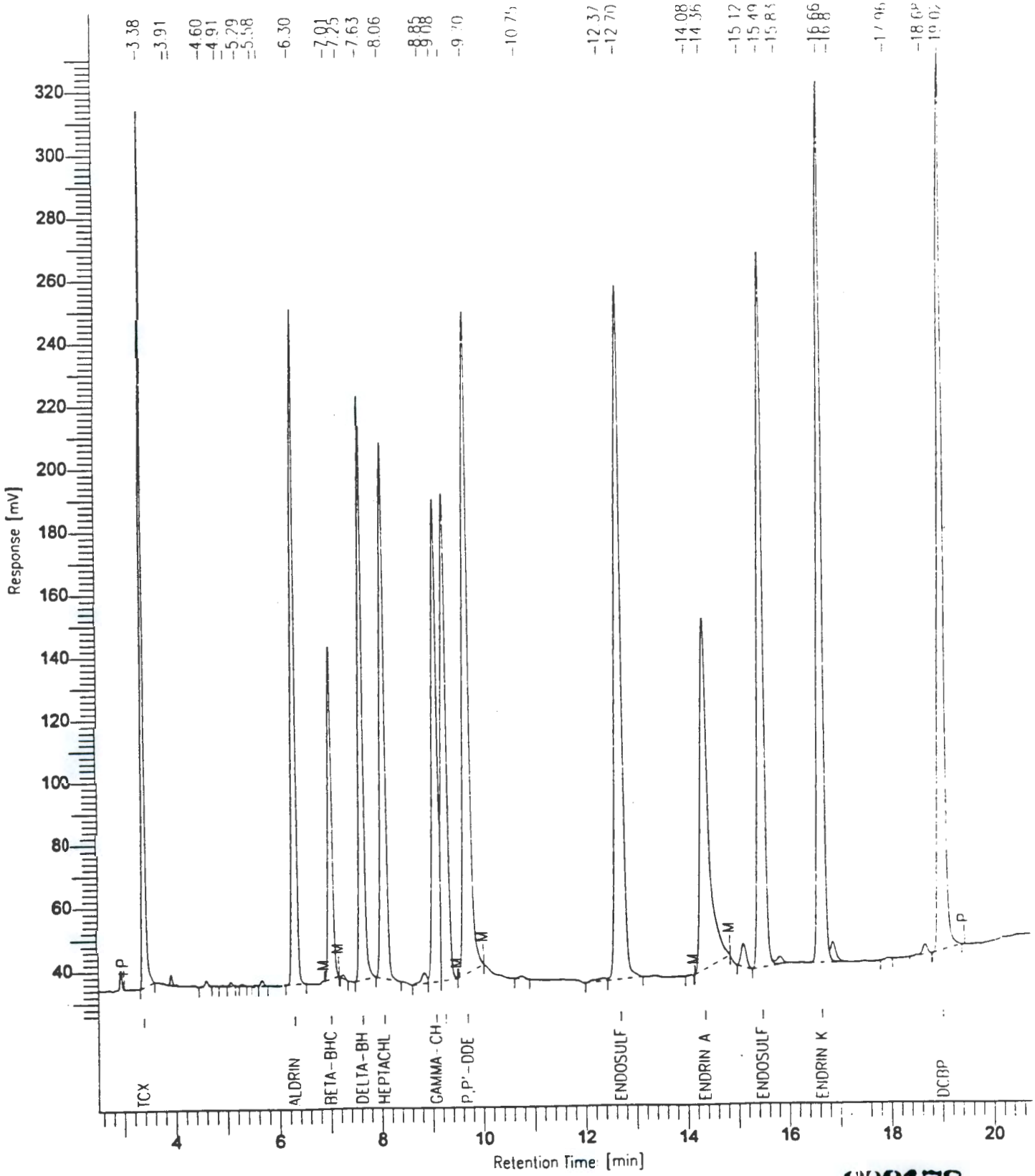
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
31	19.018	DCBP	2033016	B	286463	-9e-15	0.1600
			17273040		2612471		1.5200

9513356.0747

Chromatogram

Sample Name : ICV*INDBH*1
FileName : C:\TC4\DATA1\992B020.RAW
Method : 992BBH.MTH
Start Time : 2.50 min End Time : 20.77 min
Scale Factor: 0.0 Plot Offset: 26 mV

Sample #:
Date : 6/14/94 12:23 PM
Time of Injection: 6/14/94 12:30 AM
Low Point : 25.87 mV High Point : 330.28 mV
Plot Scale: 304.4 mV



Software Version: 4.0<1C29>
Sample Name : CK*PEM*2 Time : 6/14/94 12:25 PM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/14/94 01:55 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B022.RAW
Result File : C:\TC4\DATA1\992B022.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B022.RST
Proc Method : C:\TC4\DATA1\992BPEM from C:\TC4\DATA1\992B022.RST
Calib Method : C:\TC4\DATA1\992BPEM from C:\TC4\DATA1\992B022.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 25

DATA REPORT

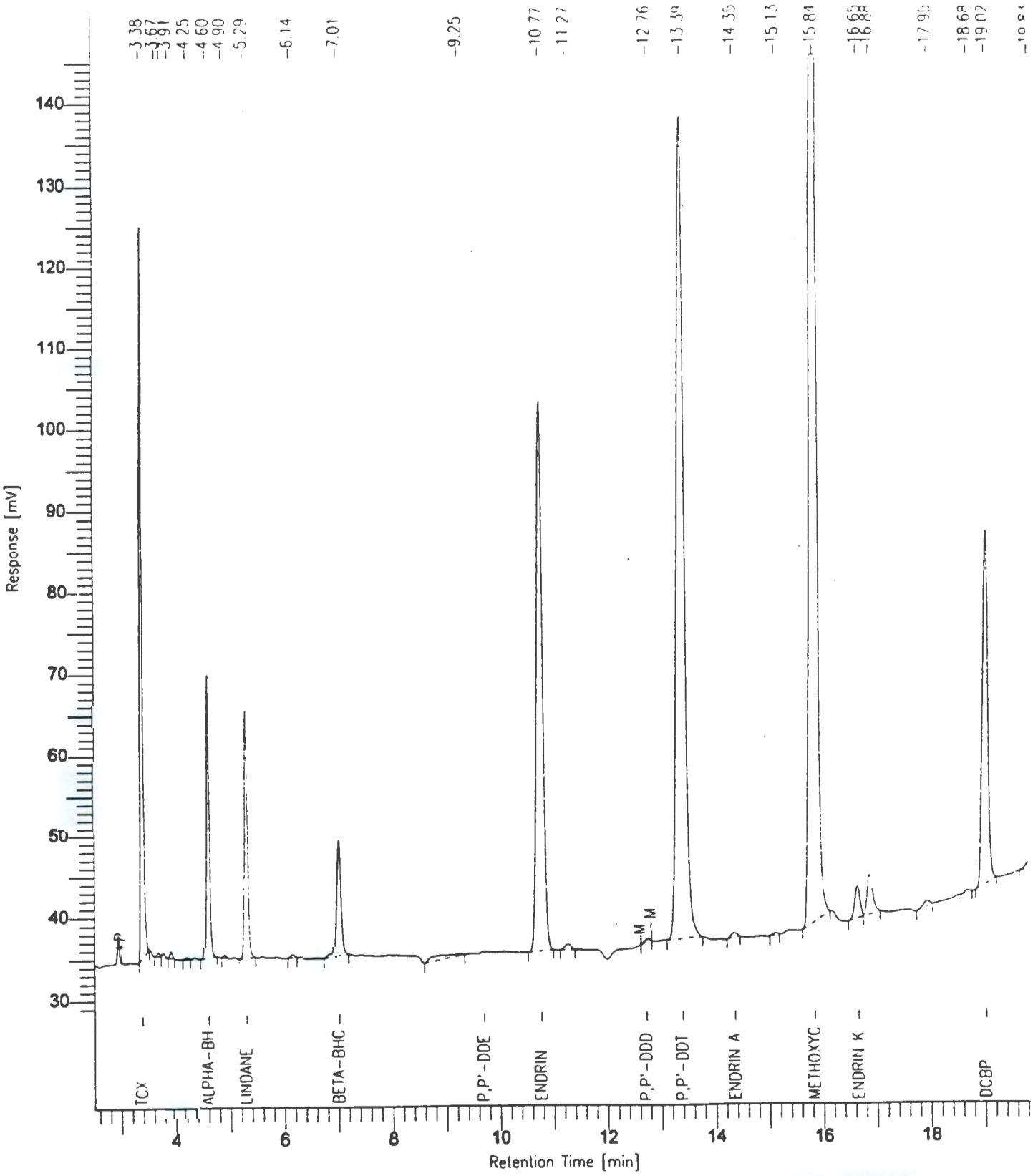
Peak #	Ret Time (min)	Component Name	Area (uV-sec)	BL	Height (uV)	Delta RT (%)
1	3.380	TCX	266905	B	91692	-0.0207
6	4.596	ALPHA-BHC	115973	B	35311	-0.0853
8	5.293	LINDANE	118234	B	30574	-0.0881
10.	7.009	BETA-BHC	77897	B	14168	-0.0574
12	10.765	ENDRIN	524600	B	67543	-0.0627
14	12.761	P,P'-DDD	2679	*B	352	0.2791
15	13.389	P,P'-DDT	963776	B	101140	-0.0341
16	14.351	ENDRIN ALDEHYDE	4457	B	585	-0.0856
18	15.838	METHOXYCHLOR	1406675	B	178393	-0.0181
19	16.646	ENDRIN KETONE	27383	B	3976	-0.0942
23	19.018	DCBP	297271	B	43497	-0.0069

9515656.0749

Chromatogram

Sample Name : CK*PEM*2
FileName : C:\TC4\DATA1\992B022.RAW
Method :
Start Time : 2.50 min End Time : 19.83 min
Scale Factor: 0.0 Plot Offset: 28 mV

Sample #:
Date : 6/14/94 12:25 PM
Time of Injection: 6/14/94 01:55 AM
Low Point : 28.27 mV High Point : 145.51 mV
Plot Scale: 117.2 mV



Software Version: 4.0<1C29>
Sample Name : HEXANE
Sample Number:
Operator : LFS

Time : 6/16/94 09:39 AM
Study :

Instrument : HP58909
AutoSampler :
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 9004570342 Data Acquisition Time: 6/14/94 11:05 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B035.RAW
Result File : C:\TC4\DATA1\992B035.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B035.RST
Proc Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B035.RST
Calib Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B035.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 11070.000000
Dilution Factor : 1.00

Noise Threshold: 33
Area Threshold : 444
Bunch Factor: 1
Multiplier : 1.0000
Divisor : 1.0000
Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 5

DATA REPORT

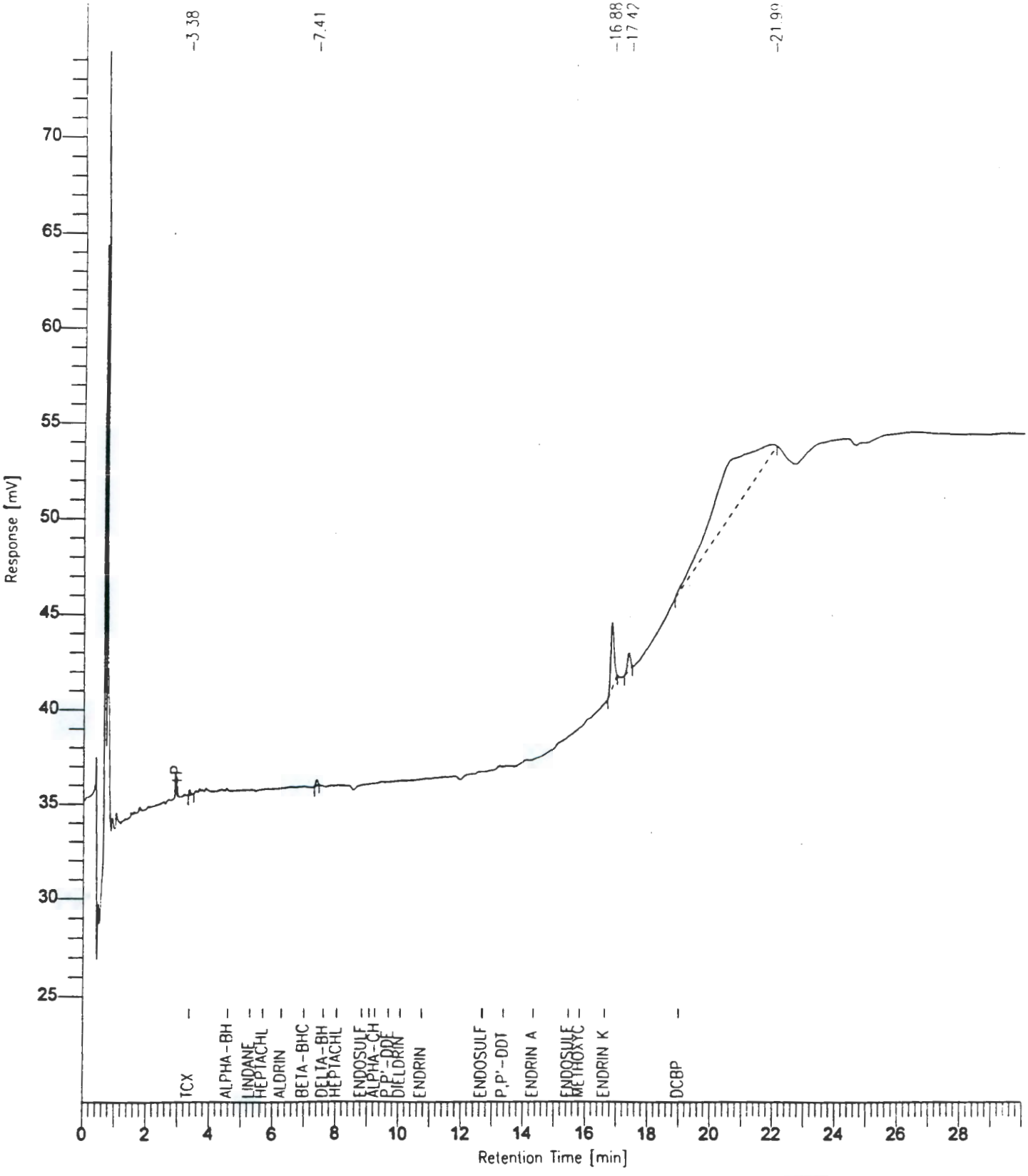
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
3	16.877		25885	B	3478	-------
5	21.993		270494	B	3[illegible]	-------
			296379		3820	

9513356.0751

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\DATA1\992B035.RAW
Method :
Start Time : 0.00 min End Time : 30.00 min
Scale Factor: 0.0 Plot Offset: 24 mV

Sample #:
Date : 6/16/94 09:39 AM
Time of Injection: 6/14/94 11:05 AM
Low Point : 24.39 mV High Point : 74.46 mV
Plot Scale: 50.1 mV



000182

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*2 Time : 6/16/94 09:39 AM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/14/94 11:47 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B036.RAW
Result File : C:\TC4\DATA1\992B036.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B036.RST
Proc Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B036.RST
Calib Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B036.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 11070.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 19

DATA REPORT

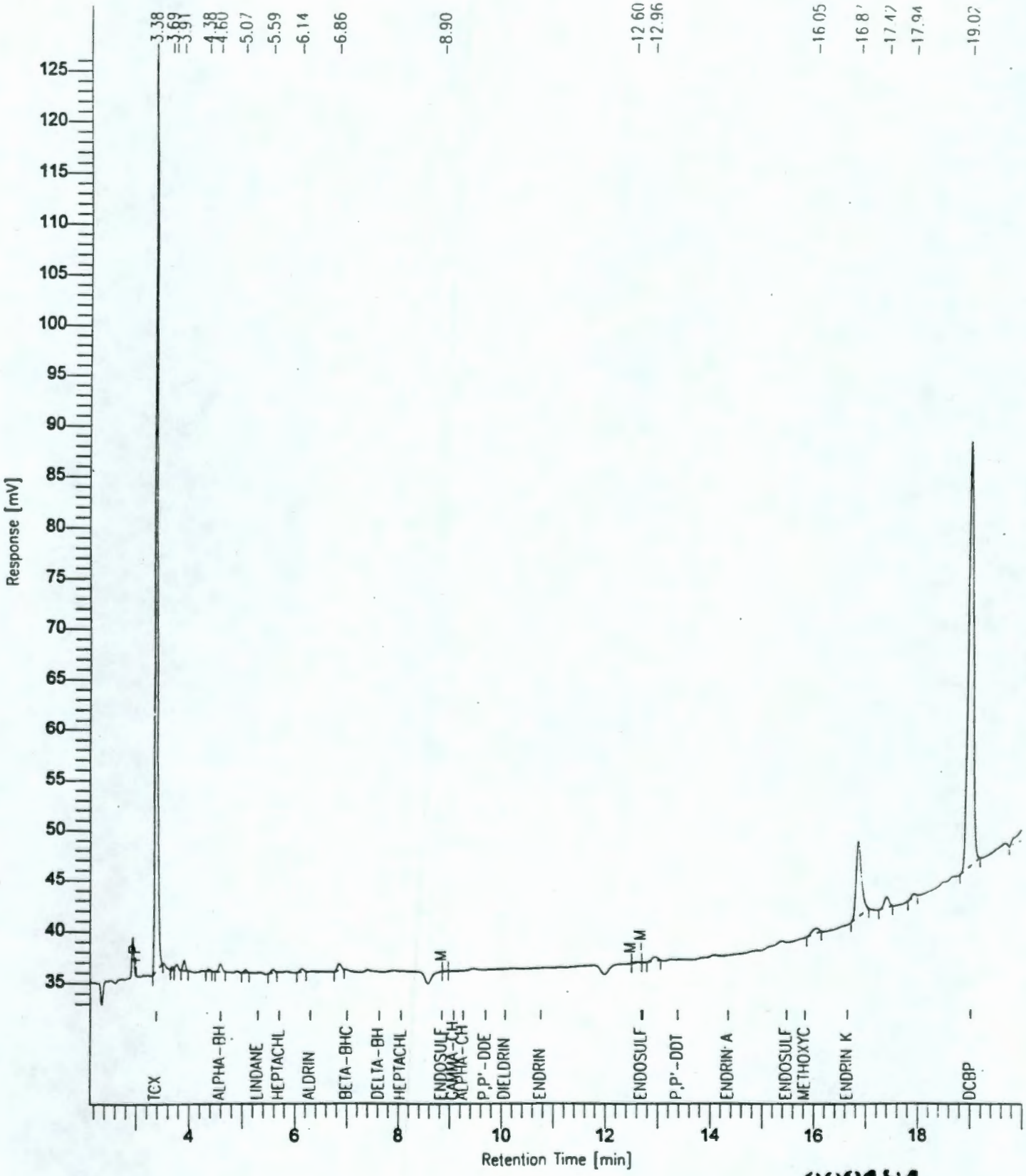
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	3.379	TCX	263857	B	92478	-0.0028
15	16.873		54094	B	7514	-------
18	19.017	DCBP	280213	B	42126	-0.0061
19	21.746		162446	B	324	-------
			760610		142441	

9513356.0753

Chromatogram

Sample Name : MB*PIBLK*2
FileName : C:\TC4\DATA1\992B036.RAW
Method :
Start Time : 2.12 min End Time : 20.02 min
Scale Factor: 0.0 Plot Offset: 32 mV

Sample #:
Date : 6/16/94 09:39 AM
Time of Injection: 6/14/94 11:47 AM
Low Point : 32.37 mV High Point : 126.74 mV
Plot Scale: 94.4 mV



000184

Software Version: 4.0<1C29>
Sample Name : CCS*INDAM*2 Time : 6/16/94 09:40 AM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/14/94 12:30 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B037.RAW
Result File : C:\TC4\DATA1\992B037.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B037.RST
Proc Method : C:\TC4\DATA1\992BAM from C:\TC4\DATA1\992B037.RST
Calib Method : C:\TC4\DATA1\992BAM from C:\TC4\DATA1\992B037.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 20

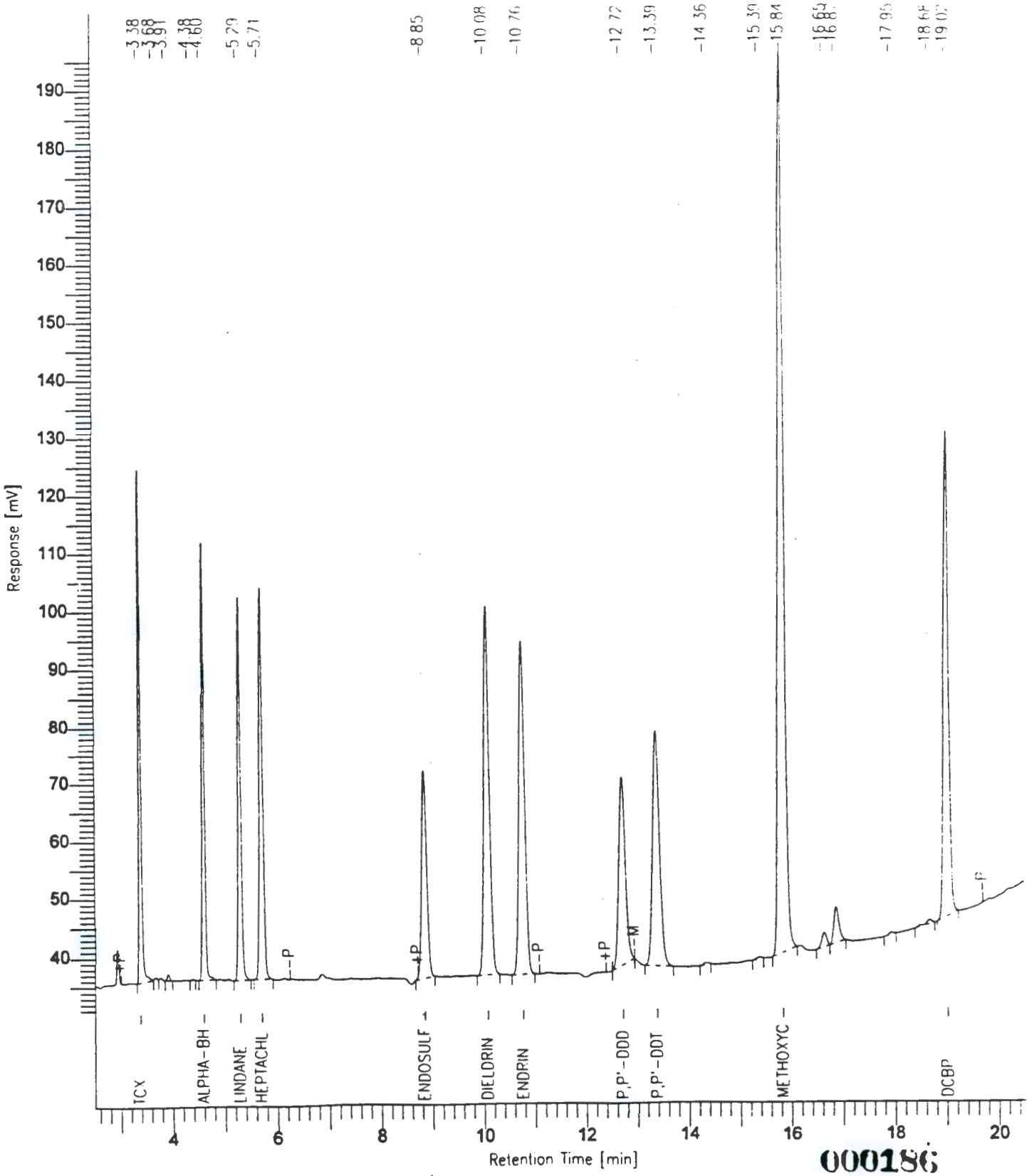
DATA REPORT

Peak #	Ret Time (min)	Component Name	Area (uV-sec)	BL	Height (uV)	Delta RT (%)	NG INJECTED
1	3.380	TCX	264883	B	90418	0.0057	0.0200
5	4.598	ALPHA-BHC	247736	B	76196	0.0030	0.0200
6	5.294	LINDANE	255000	B	66798	0.0050	0.0200
7	5.706	HEPTACHLOR	313318	B	68112	0.0065	0.0200
8	8.848	ENDOSULFAN A	251865	*B	36035	-0.0108	0.0200
9	10.080	DIELDRIN	474442	B	64325	0.0094	0.0400
10	10.764	ENDRIN	445700	B	58012	-0.0186	0.0400
11	12.722	P,P'-DDD	292162	*B	32631	-0.0252	0.0400
12	13.388	P,P'-DDT	380088	B	40992	-0.0093	0.0400
15	15.837	METHOXYCHLOR	1207248	B	156058	-0.0027	0.2000
20	19.018	DCBP	568132	B	84153	-0.0011	0.0400

Chromatogram

Sample Name : CCS*INDAM*2
FileName : C:\TC4\DATA1\992B037.RAW
Method :
Start Time : 2.50 min End Time : 20.54 min
Scale Factor: 0.0 Plot Offset: 31 mV

Sample #:
Date : 6/16/94 09:40 AM
Time of Injection: 6/14/94 12:30 PM
Low Point : 30.52 mV High Point : 195.63 mV
Plot Scale: 165.1 mV



Software Version: 4.0<1C29>
Sample Name : CCS*INDBM*2 Time : 6/16/94 09:40 AM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/14/94 01:12 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B038.RAW
Result File : C:\TC4\DATA1\992B038.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B038.RST
Proc Method : C:\TC4\DATA1\992BBM from C:\TC4\DATA1\992B038.RST
Calib Method : C:\TC4\DATA1\992BBM from C:\TC4\DATA1\992B038.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 22

DATA REPORT

Peak #	Ret Time (min)	Component Name	Area (uV-sec)	BL	Height (uV)	Delta RT (%)	NG INJECTED
1	3.380	TCX	235704	B	80241	0.0207	0.0200
7	6.298	ALDRIN	247594	B	50455	-0.0031	0.0200
8	7.009	BETA-BHC	155243	B	28709	-0.0206	0.0200
10	7.629	DELTA-BHC	221125	B	40390	-0.0064	0.0200
11	8.057	HEPTACHLOR EPOXIDE	277401	B	43498	-0.0080	0.0200
12	9.083	GAMMA-CHLORDANE	286165	B	39339	0.0024	0.0200
13	9.263	ALPHA-CHLORDANE	280948	V	39628	-0.0300	0.0200
14	9.695	P,P'-DDE	381854	*B	49048	-0.0445	0.0400
15	12.695	ENDOSULFAN B	484316	B	54901	-0.0290	0.0400
16	14.351	ENDRIN ALDEHYDE	304044	*B	29741	-0.0198	0.0400
18	15.483	ENDOSULFAN SULFATE	437128	B	58780	-0.0172	0.0400
19	16.653	ENDRIN KETONE	465544	B	70166	0.0051	0.0400

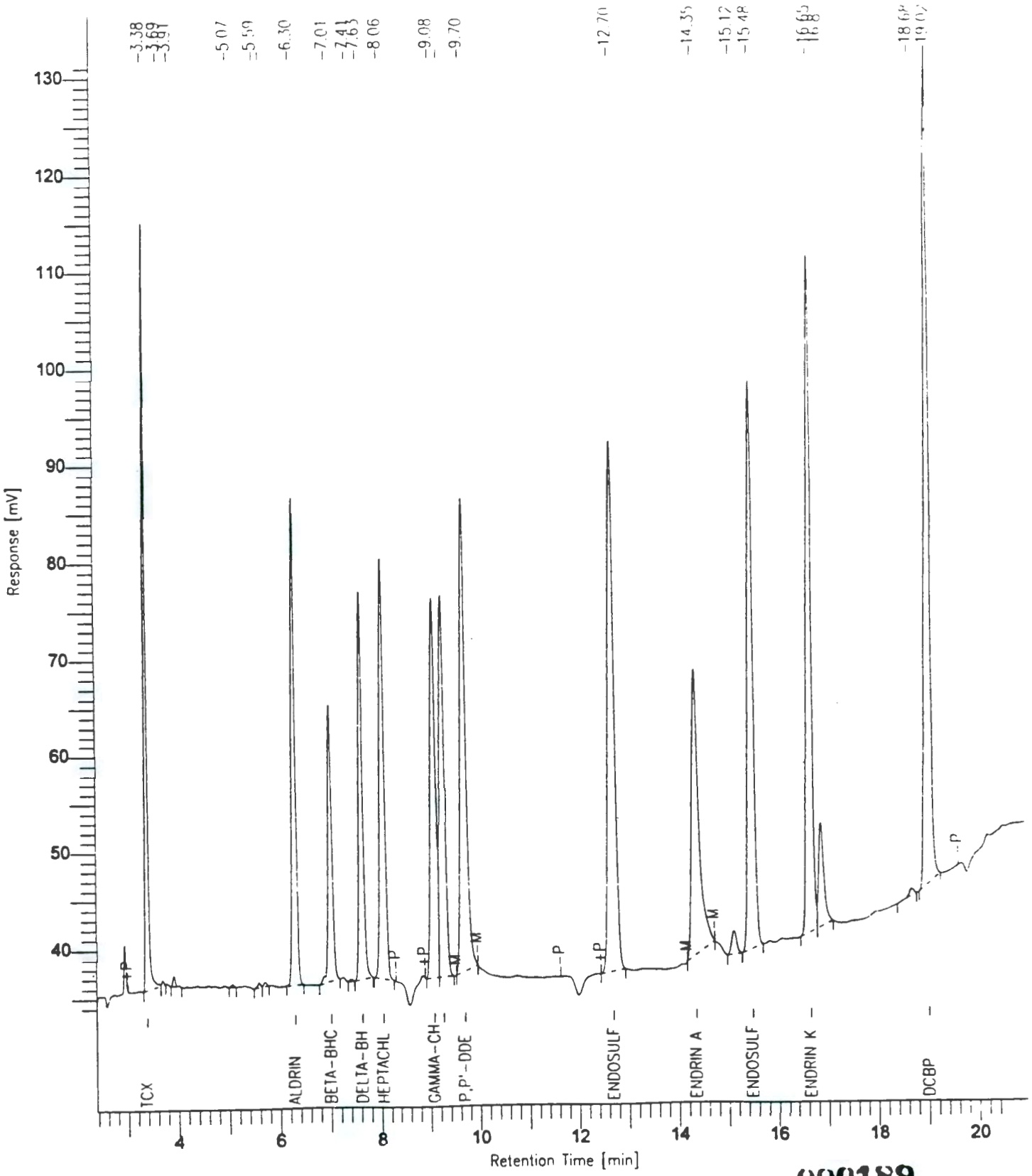
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
22	19.016	DCBP	589553	B	85820	-0.0005	0.0400
			4366619		670716		0.3800

9913356.0758

Chromatogram

Sample Name : CCS*INDBM*2
FileName : C:\TC4\DATA1\992B038.RAW
Method :
Start Time : 2.37 min End Time : 20.96 min
Scale Factor: 0.0 Plot Offset: 33 mV

Sample #:
Date : 6/16/94 09:40 AM
Time of Injection: 6/14/94 01.12 PM
Low Point : 33.23 mV High Point : 131.73 mV
Plot Scale: 98.5 mV



000189

Software Version: 4.0<1C29>
Sample Name : HEXANE
Sample Number: 1
Operator : LFS

Time : 6/16/94 09:41 AM
Study :

Instrument : HP58909
AutoSampler :
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 9004570342 Data Acquisition Time: 6/14/94 06:46 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B045.RAW
Result File : C:\TC4\DATA1\992B045.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B045.RST
Proc Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B045.RST
Calib Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B045.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 11070.000000
Dilution Factor : 1.00

Noise Threshold: 33
Multiplier : 1.0000

Area Threshold : 444
Divisor : 1.0000

Bunch Factor: 1
Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 10

DATA REPORT

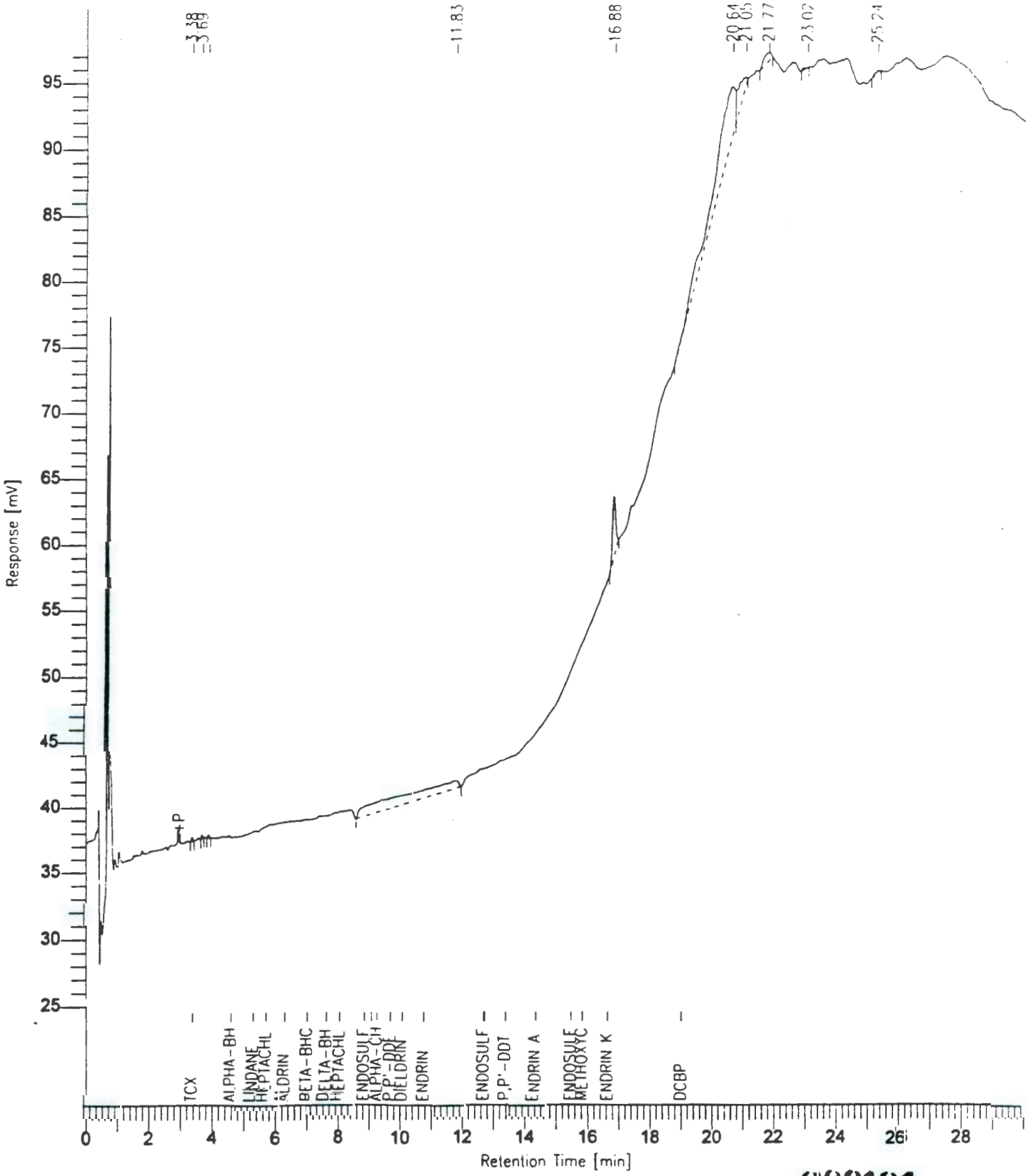
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
4	11.829		131816	B	565	-------
5	16.877		33709	B	4612	-------
6	20.639		209311	B	3648	-------
7	21.050		31512	V	487	-------
8	21.773		12080	B	609	-------
			418429		9920	

9513356.0760

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\DATA1\992B045.RAW
Method :
Start Time : 0.00 min End Time : 30.00 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 1
Date : 6/16/94 09:41 AM
Time of Injection: 6/14/94 06:46 PM
Low Point : 24.55 mV High Point : 97.33 mV
Plot Scale: 72.8 mV



000191

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*3 Time : 6/16/94 09:41 AM
Sample Number: 1 Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/14/94 07:28 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B046.RAW
Result File : C:\TC4\DATA1\992B046.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B046.RST
Proc Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B046.RST
Calib Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B046.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 11070.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 19

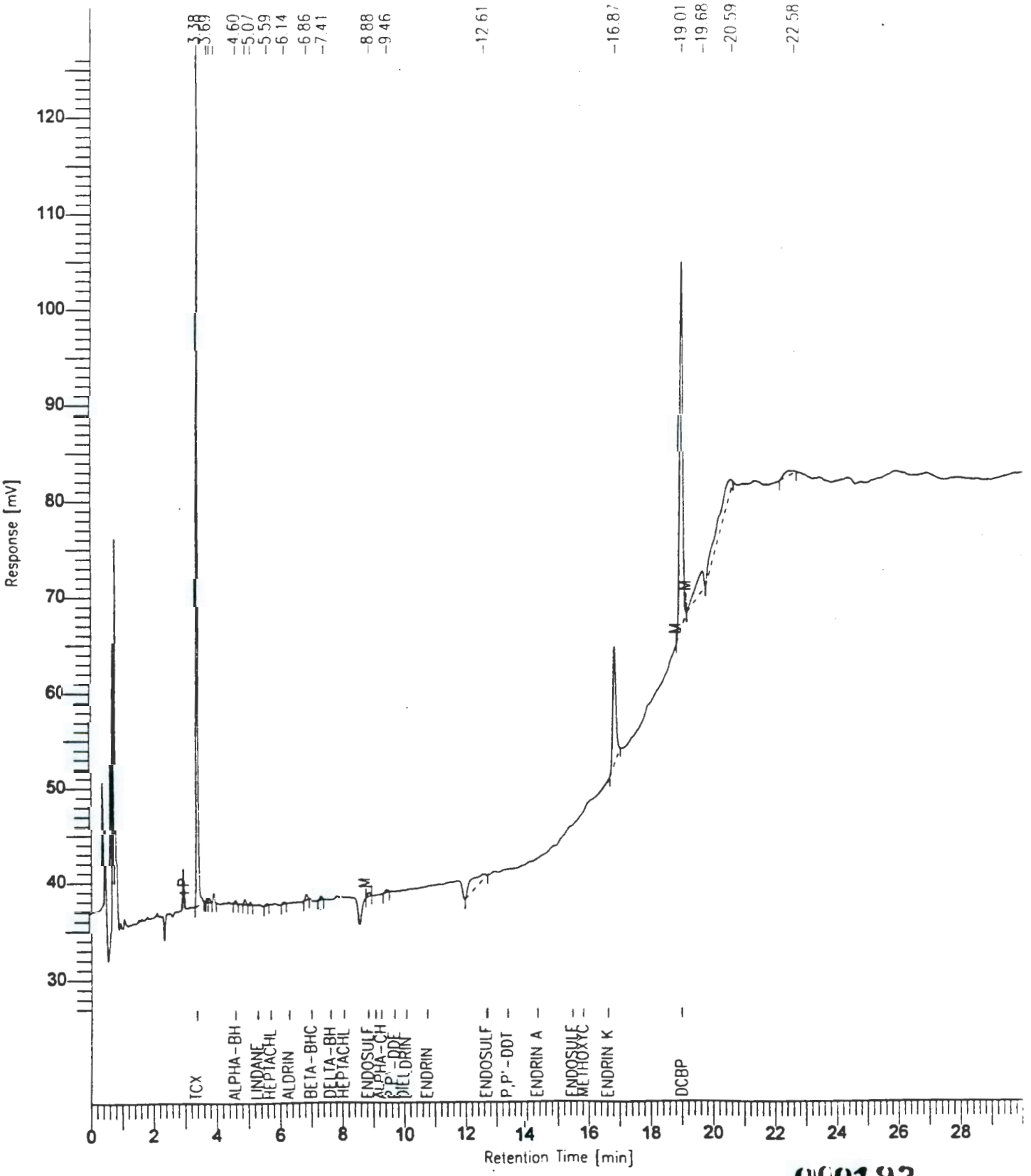
DATA REPORT

Peak #	Ret Time (min)	Component Name	Area (uV-sec)	BL	Height (uV)	Delta RT (%)
1	3.378	TCX	257297	B	90404	-0.0425
14	12.607		35511	B	519	-------
15	16.868		87736	B	12333	-------
16	19.014	DCBP	250786	*B	38245	-0.0183
17	19.682		41236	B	2019	-------
18	20.893		82767	B	1026	-------
			755333		144546	

Chromatogram

Sample Name : MB*PIBLK*3
FileName : C:\TC4\DATA1\992B046.RAW
Method :
Start Time : 0.00 min End Time : 30.00 min
Scale Factor: 0.0 Plot Offset: 27 mV

Sample #: 1
Date : 6/16/94 09:41 AM
Time of Injection: 6/14/94 07:28 PM
Low Point : 26.97 mV High Point : 126.55 mV
Plot Scale: 99.6 mV



Software Version: 4.0<1C29>
Sample Name : CK*PEM*3 Time : 6/16/94 09:41 AM
Sample Number: 1 Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/14/94 08:10 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B047.RAW
Result File : C:\TC4\DATA1\992B047.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B047.RST
Proc Method : C:\TC4\DATA1\992BPEM from C:\TC4\DATA1\992B047.RST
Calib Method : C:\TC4\DATA1\992BPEM from C:\TC4\DATA1\992B047.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 23

DATA REPORT

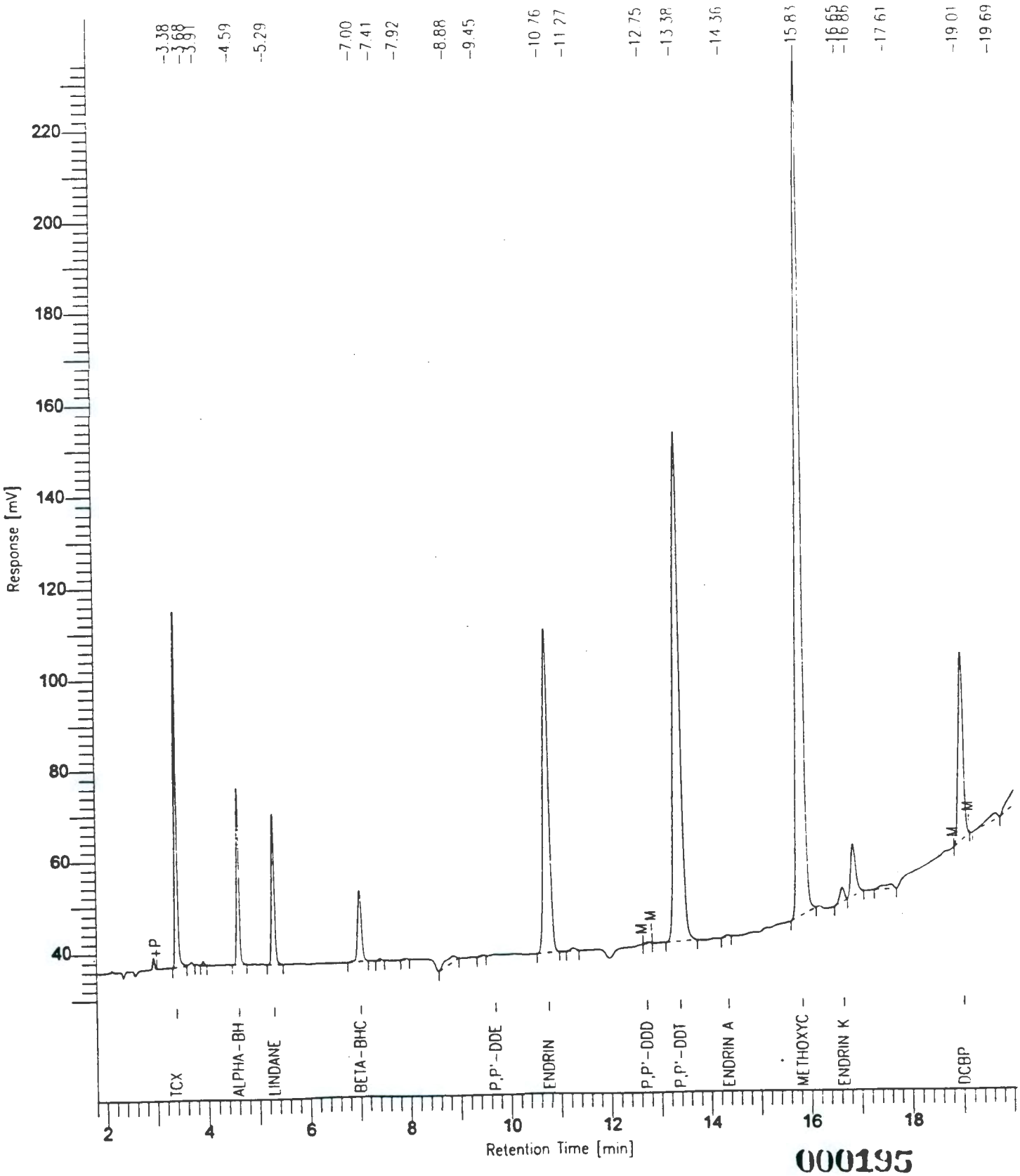
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	3.378	TCX	225242	B	79294	-0.0638
4	4.594	ALPHA-BHC	123746	B	38844	-0.1419
5	5.290	LINDANE	125382	B	33020	-0.1478
6	7.003	BETA-BHC	81285	B	15438	-0.1415
10	9.453	P,P'-DDE	1567	B	270	-2.5679
11	10.761	ENDRIN	541994	B	71279	-0.1016
13	12.753	P,P'-DDD	1805	*B	272	0.2140
14	13.383	P,P'-DDT	1019608	B	111579	-0.0741
15	14.356	ENDRIN ALDEHYDE	2410	B	319	-0.0472
16	15.832	METHOXYCHLOR	1459014	B	188623	-0.0573
17	16.646	ENDRIN KETONE	20912	B	3183	-0.0909
20	19.013	DCBP	268249	*B	41397	-0.0328

9513356.0761

Chromatogram

Sample Name : CK*PEM*3
FileName : C:\TC4\DATA1\992B047.RAW
Method :
Start Time : 1.80 min End Time : 20.07 min
Scale Factor: 0.0 Plot Offset: 28 mV

Sample #: 1
Date : 6/16/94 09:41 AM
Time of Injection: 6/14/94 08:10 PM
Low Point : 28.30 mV High Point : 234.64 mV
Plot Scale: 206.3 mV



000195

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*4 Time : 6/16/94 10:01 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/15/94 11:40 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B067.RAW
Result File : C:\TC4\DATA1\992B067.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B067.RST
Proc Method : C:\TC4\DATA1\992BAM from C:\TC4\DATA1\992B067.RST
Calib Method : C:\TC4\DATA1\992BAM from C:\TC4\DATA1\992B067.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 11070.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 400 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 18

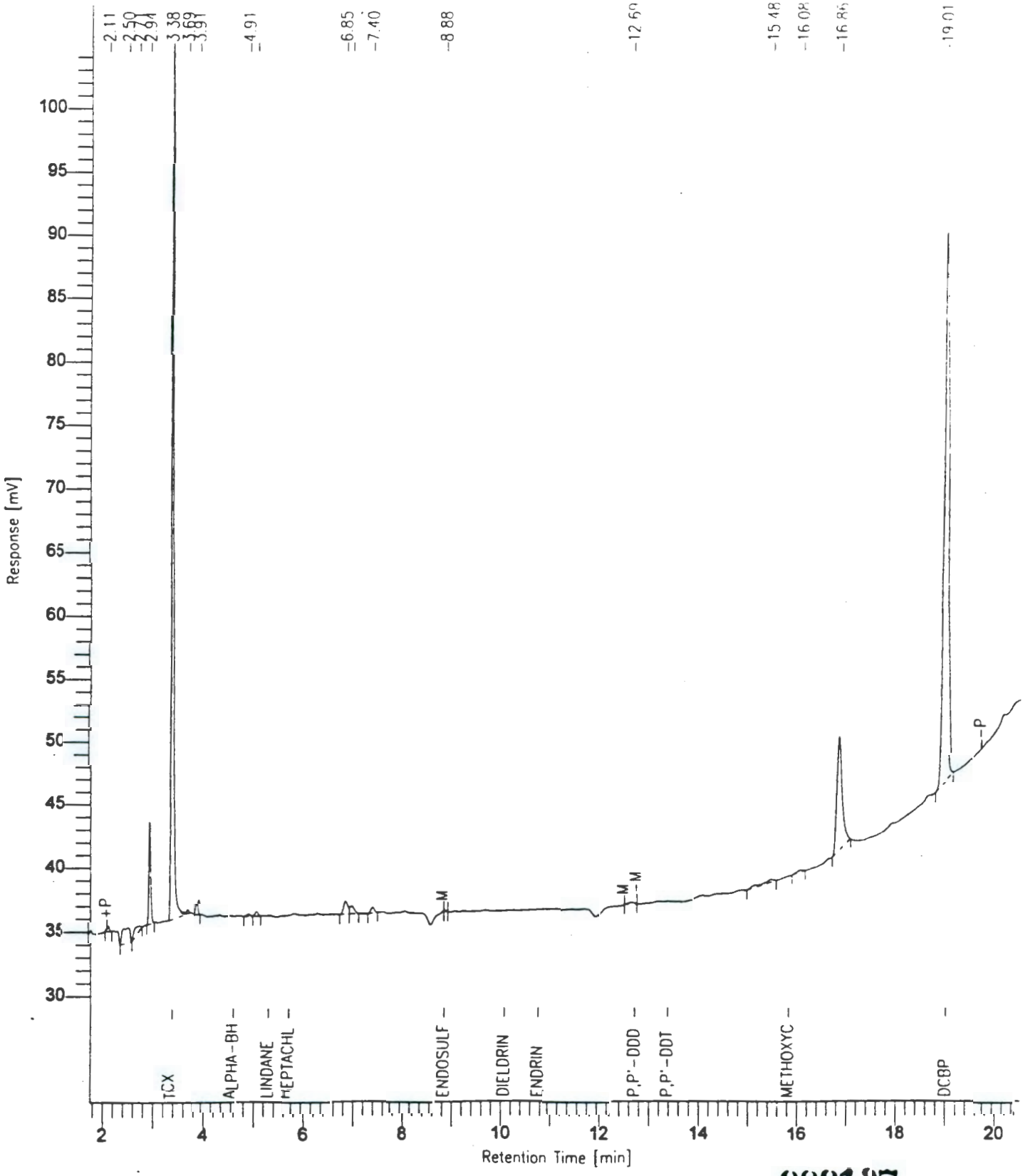
DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
2	2.499		12431	B	1162	-------
4	2.935		21390	B	8070	-------
5	3.377	TCX	215369	B	74237	-0.0745
17	16.863		68426	B	9121	-------
18	19.006	DCBP	290810	B	43498	-0.0611
			608428		136088	

Chromatogram

Sample Name : MB*PIBLK*4
FileName : C:\TC4\DATA1\992B067.RAW
Method :
Start Time : 1.75 min End Time : 20.54 min
Scale Factor: 0.0 Plot Offset: 29 mV

Sample #: Page 1 of 1
Date : 6/16/94 10:01 AM
Time of Injection: 6/15/94 11.40 AM
Low Point : 29.04 mV High Point 104.38 mV
Plot Scale: 75.3 mV



Software Version: 4.0<1C29>
Sample Name : CCS*INDAM*3 Time : 6/16/94 10:02 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/15/94 12:23 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B068.RAW
Result File : C:\TC4\DATA1\992B068.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B068.RST
Proc Method : C:\TC4\DATA1\992BAM from C:\TC4\DATA1\992B068.RST
Calib Method : C:\TC4\DATA1\992BAM from C:\TC4\DATA1\992B068.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 17

DATA REPORT

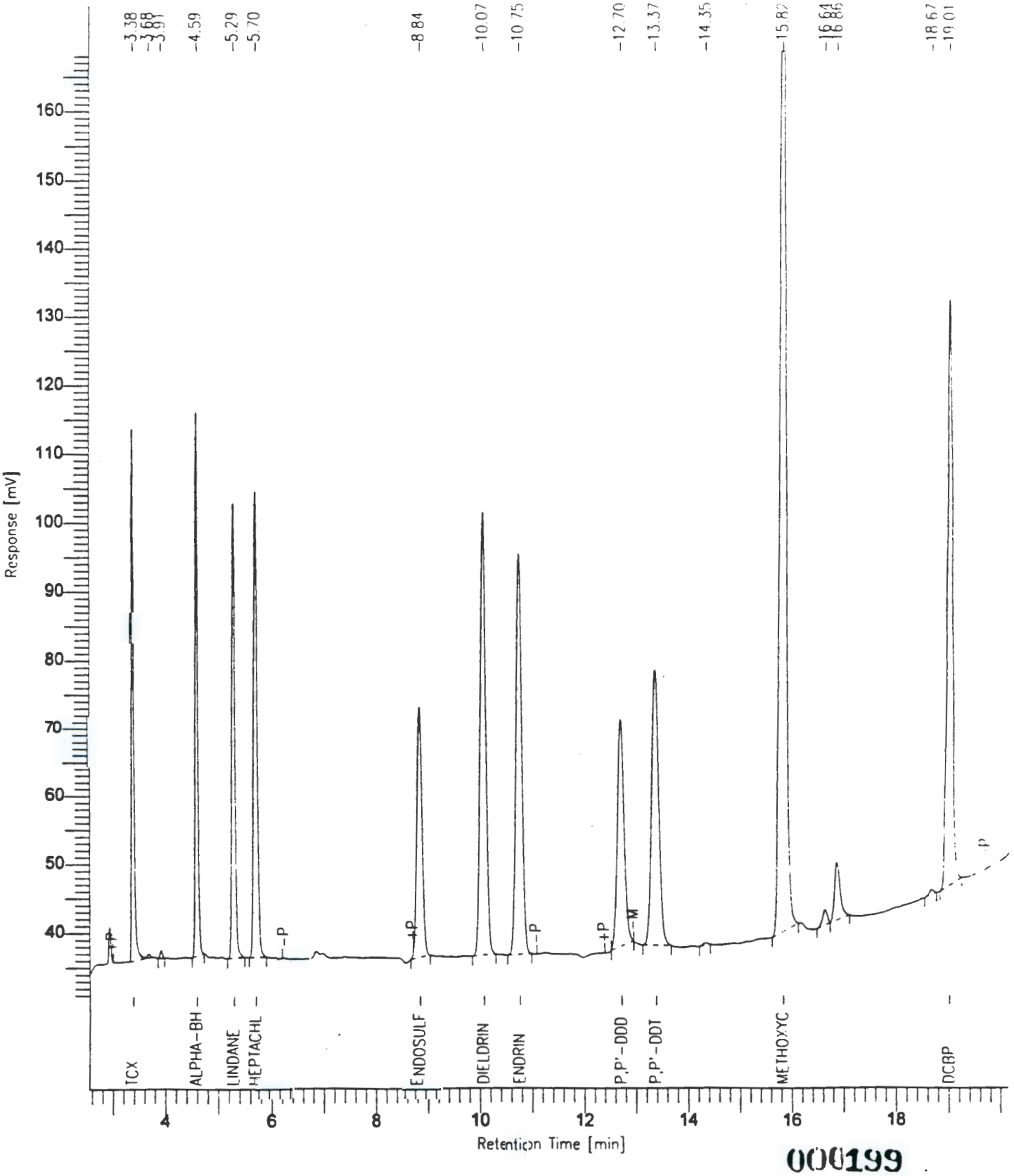
Peak #	Ret Time (min)	Component Name	Area (uV-sec)	BL	Height (uV)	Delta RT (%)	NG INJECTED
1	3.377	TCX	225156	B	78094	-0.0775	0.0200
4	4.592	ALPHA-BHC	251623	B	79416	-0.1165	0.0200
5	5.287	LINDANE	256966	B	67255	-0.1228	0.0200
6	5.699	HEPTACHLOR	315936	B	68133	-0.1290	0.0200
7	8.839	ENDOSULFAN A	256652	*B	36867	-0.1150	0.0200
8	10.068	DIELDRIN	478518	B	64726	-0.1067	0.0400
9	10.751	ENDRIN	452389	B	58581	-0.1449	0.0400
10	12.704	P,P'-DDD	298554	*B	33385	-0.1678	0.0400
11	13.372	P,P'-DDT	384026	B	40442	-0.1306	0.0400
13	15.824	METHOXYCHLOR	1225572	B	157535	-0.0804	0.2000
17	19.006	DCBP	578176	B	85681	-0.0608	0.0400

9513556.0768

Chromatogram

Sample Name : CCS*INDAM*3
FileName : C:\TC4\DATA1\992B068.RAW
Method :
Start Time : 2.55 min End Time : 20.16 min
Scale Factor: 0.0 Plot Offset: 31 mV

Sample #:
Date : 6/16/94 10:02 AM
Time of Injection: 6/15/94 12:23 PM
Low Point : 30.91 mV High Point : 168.72 mV
Plot Scale: 137.8 mV



Software Version: 4.0<1C29>
Sample Name : CCS*INDBM*3 Time : 6/16/94 10:03 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/15/94 01:05 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B069.RAW
Result File : C:\TC4\DATA1\992B069.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B069.RST
Proc Method : C:\TC4\DATA1\992BBM from C:\TC4\DATA1\992B069.RST
Calib Method : C:\TC4\DATA1\992BBM from C:\TC4\DATA1\992B069.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 27

DATA REPORT

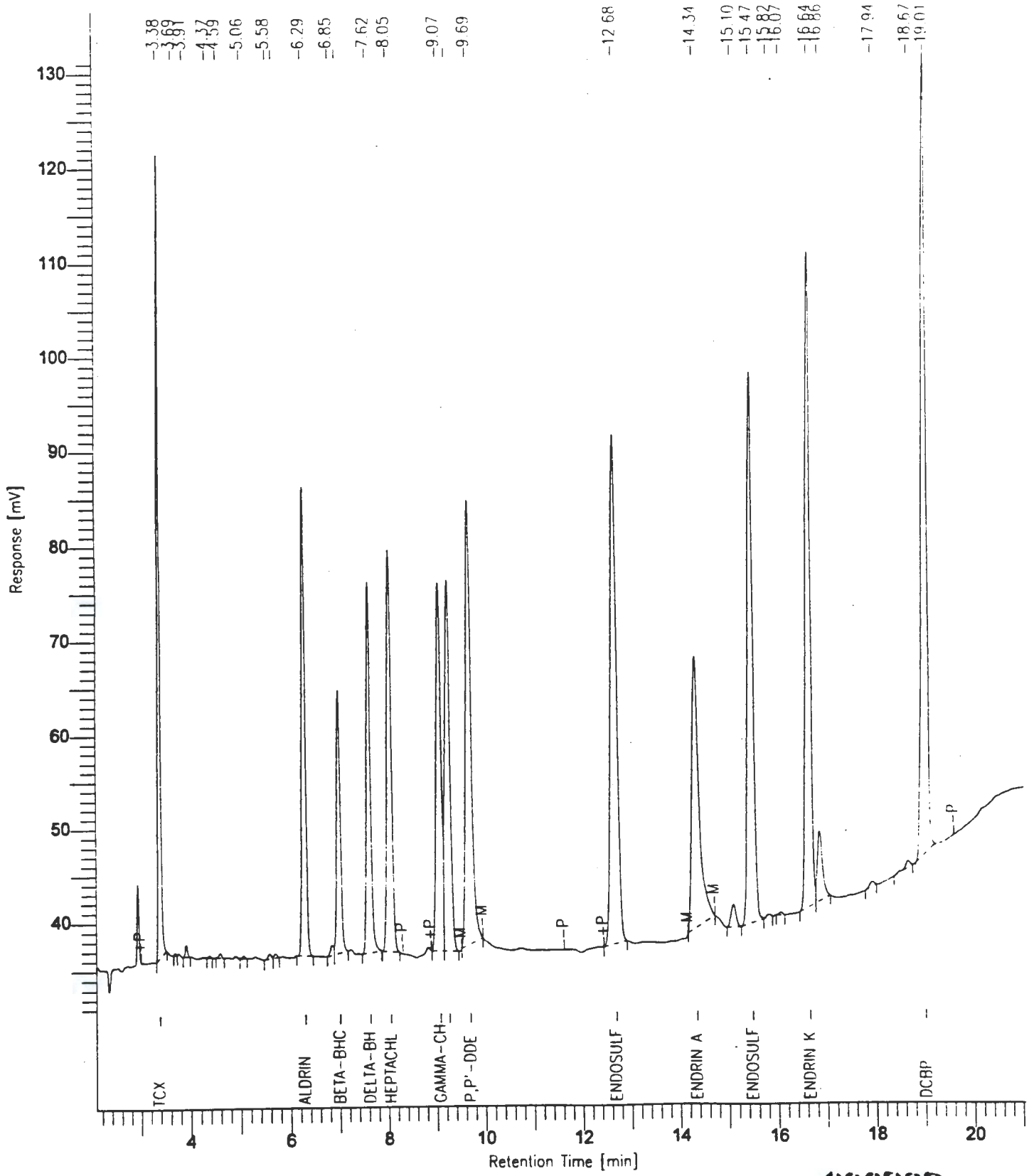
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	3.377	TCX	241486	B	85440	-0.0910	0.0200
9	6.290	ALDRIN	242918	B	49851	-0.1320	0.0200
11	6.998	BETA-BHC	146821	V	28074	-0.1814	0.0200
12	7.617	DELTA-BHC	217943	B	39394	-0.1547	0.0200
13	8.046	HEPTACHLOR EPOXIDE	271763	B	42865	-0.1524	0.0200
14	9.070	GAMMA-CHLORDANE	278782	B	39265	-0.1412	0.0200
15	9.252	ALPHA-CHLORDANE	284233	V	39466	-0.1511	0.0200
16	9.685	P,P'-DDE	367654	*B	47209	-0.1482	0.0400
17	12.683	ENDOSULFAN B	474727	B	54047	-0.1239	0.0400
18	14.338	ENDRIN ALDEHYDE	297244	*B	29008	-0.1129	0.0400
20	15.469	ENDOSULFAN SULFATE	435380	B	58556	-0.1113	0.0400
23	16.641	ENDRIN KETONE	461286	B	69427	-0.0679	0.0400

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
27	19.006	DCBP	582347	B	84877	-0.0535	0.0400
			4302583		667480		0.3800

Chromatogram

Sample Name : CCS*INDBM*3
FileName : C:\TC4\DATA1\992B069.RAW
Method :
Start Time : 2.08 min End Time : 21.05 min
Scale Factor: 0.0 Plot Offset: 30 mV

Sample #:
Date : 6/16/94 10:03 AM
Time of Injection: 6/15/94 01:05 PM
Low Point : 30.46 mV High Point : 131.53 mV
Plot Scale: 101.1 mV



Software Version: 4.0<1C29>
Sample Name : HEXANE
Time : 6/16/94 10:28 AM
Sample Number:
Study :
Operator :

Instrument : HP58909
Channel : B
A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342
Data Acquisition Time: 6/15/94 08:10 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B079.RAW
Result File : C:\TC4\DATA1\992B079.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B079.RST
Proc Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B079.RST
Calib Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B079.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul
Area Reject : 11070.000000
Sample Amount : 1.0000
Dilution Factor : 1.00

Noise Threshold: 33
Area Threshold : 444
Bunch Factor: 1
Multiplier : 1.0000
Divisor : 1.0000
Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 4

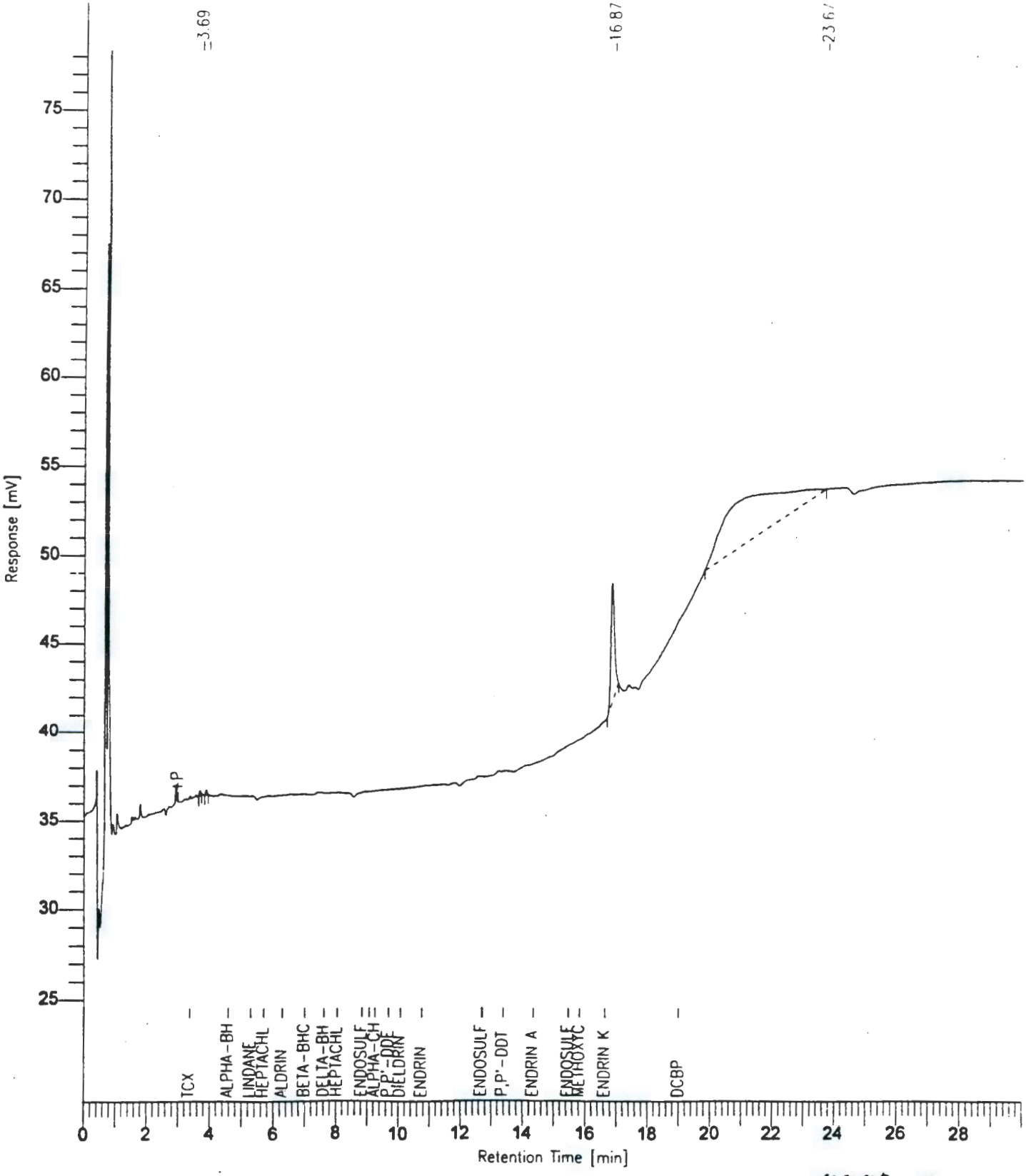
DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
3	16.872		54543	B	6748	-------
4	23.674		350140	B	46	-------
			404684		6794	

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\DATA1\992B079.RAW
Method :
Start Time : 0.00 min End Time : 30.00 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #:
Date : 6/16/94 10:28 AM
Time of Injection: 6/15/94 08:10 PM
Low Point : 24.58 mV High Point : 78.36 mV
Plot Scale: 53.8 mV



Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*5 Time : 6/16/94 10:29 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/15/94 08:53 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B080.RAW
Result File : C:\TC4\DATA1\992B080.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B080.RST
Proc Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B080.RST
Calib Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B080.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 11070.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 14

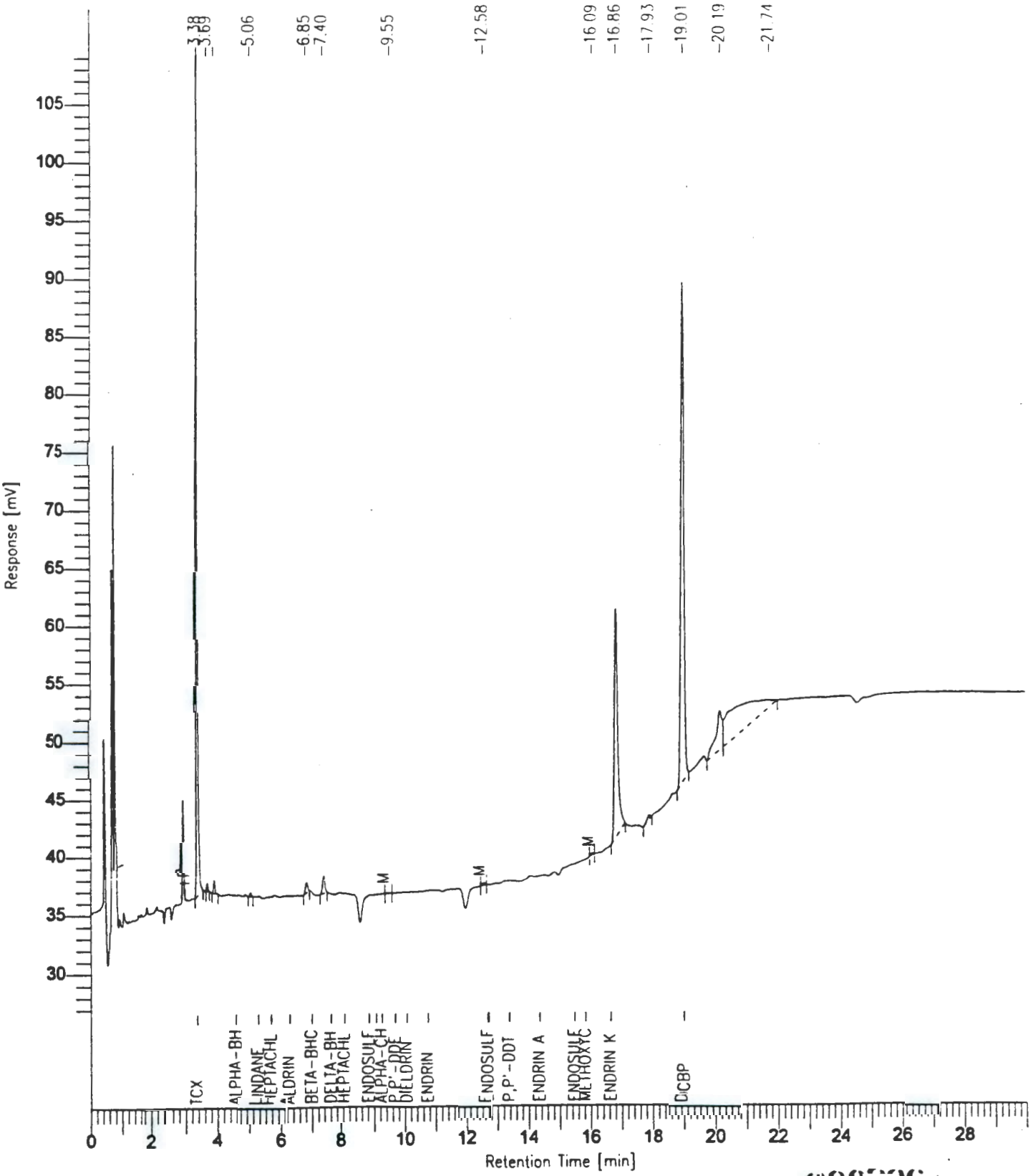
DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	3.377	TCX	207775	B	73199	-0.0669
10	16.856		150966	B	19766	-------
12	19.008	DCBP	288979	B	43113	-0.0523
13	20.186		49233	B	3403	-------
14	21.742		172824	V	678	-------
			869778		140159	

Chromatogram

Sample Name : MB*PIBLK*5
FileName : C:\TC4\DATA1\992B080.RAW
Method :
Start Time : 0.00 min End Time : 30.00 min
Scale Factor: 0.0 Plot Offset: 27 mV

Sample #: Page 1 of 1
Date : 6/16/94 10:29 AM
Time of Injection: 6/15/94 08:53 PM
Low Point : 26.64 mV High Point : 109.22 mV
Plot Scale: 82.6 mV



Software Version: 4.0<1C29>
Sample Name : CK*PEM*4 Time : 6/16/94 10:29 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/15/94 09:36 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B081.RAW
Result File : C:\TC4\DATA1\992B081.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B081.RST
Proc Method : C:\TC4\DATA1\992BPEM from C:\TC4\DATA1\992B081.RST
Calib Method : C:\TC4\DATA1\992BPEM from C:\TC4\DATA1\992B081.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 27

DATA REPORT

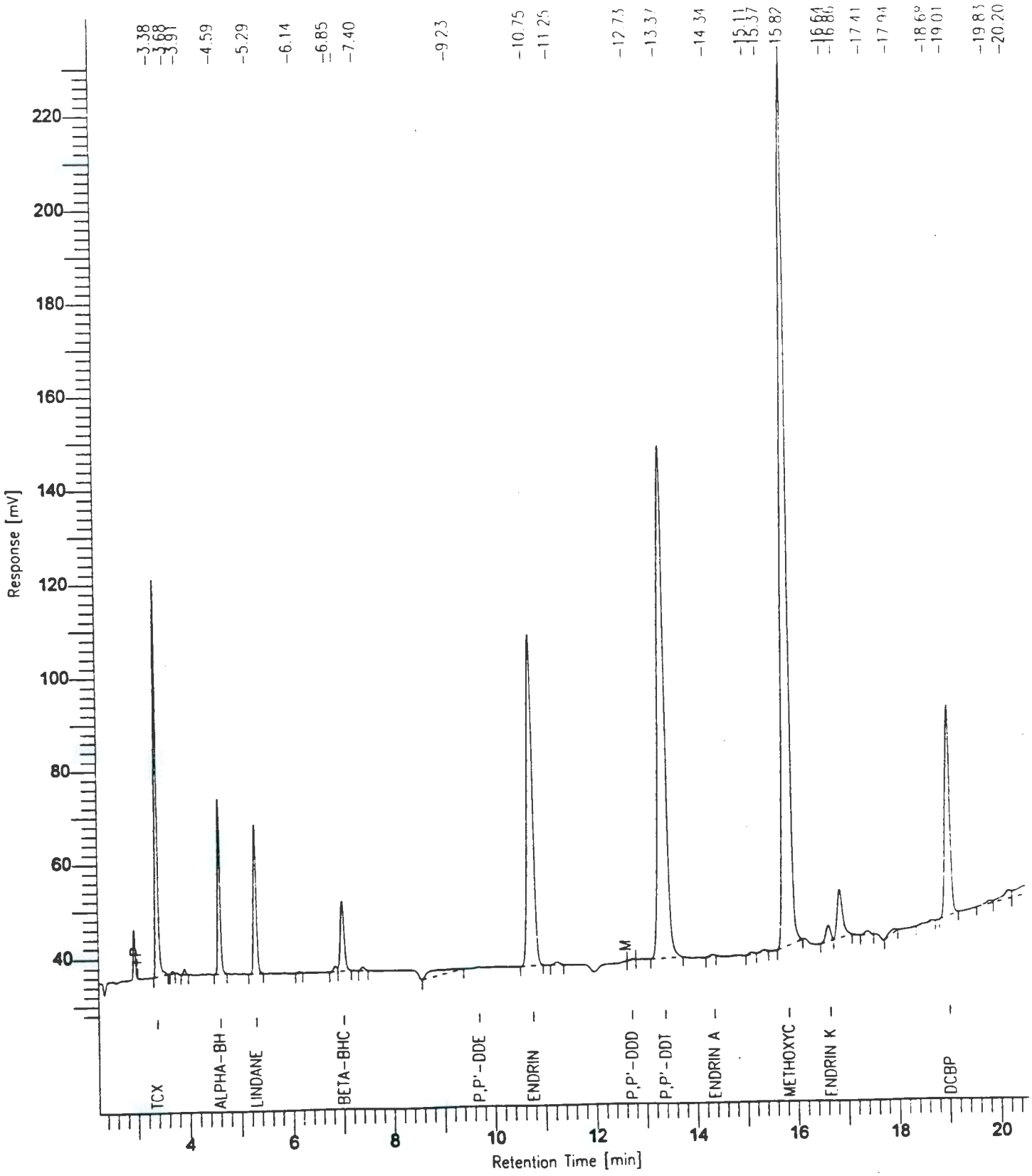
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	3.377	TCX	247179	B	85531	-0.0895
4	4.592	ALPHA-BHC	119642	B	37220	-0.1895
5	5.287	LINDANE	121686	B	32153	-0.2025
8	6.998	BETA-BHC	78452	V	14915	-0.2150
11	10.751	ENDRIN	545942	B	71093	-0.1884
13	12.734	P,P'-DDD	1697	*B	269	0.0700
14	13.373	P,P'-DDT	1024113	B	109785	-0.1547
15	14.336	ENDRIN ALDEHYDE	2157	B	328	-0.1914
18	15.824	METHOXYCHLOR	1492684	B	190409	-0.1041
19	16.635	ENDRIN KETONE	22180	B	3383	-0.1600
24	19.009	DCBP	304304	B	45344	-0.0563

9513356.0777

Chromatogram

Sample Name : CK*PEM*4
FileName : C:\TC4\DATA1\992B081.RAW
Method :
Start Time : 2.22 min End Time : 20.54 min
Scale Factor: 0.0 Plot Offset: 27 mV

Sample #:
Date : 6/16/94 10:29 AM
Time of Injection: 6/15/94 09:36 PM
Low Point : 27.46 mV High Point : 230.92 mV
Plot Scale: 203.5 mV



000208

Software Version: 4.0<1C29>
Sample Name : MB*NONE*1 6-8-94 Time : 6/16/94 10:30 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/15/94 10:18 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B082.RAW
Result File : C:\TC4\DATA1\992B082.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B082.RST
Proc Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B082.RST
Calib Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B082.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 11070.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 26

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
3	3.377	TCX	397141	B	138952	-0.0681
5	3.781		11267	V	3047	-------
8	4.352		20796	V	3700	-------
10	5.806		14926	B	1026	-------
15	8.872	ENDOSULFAN A	23957	B	854	0.2647
16	12.565		40291	B	509	-------
17	14.060		23482	B	2134	-------
20	16.045		36448	V	4534	-------
21	16.858		102051	B	14002	-------
22	18.400		12834	B	-9e-13	-------
24	19.007	DCBP	564806	B	83568	-0.0583
25	20.189		40258	B	2674	-------

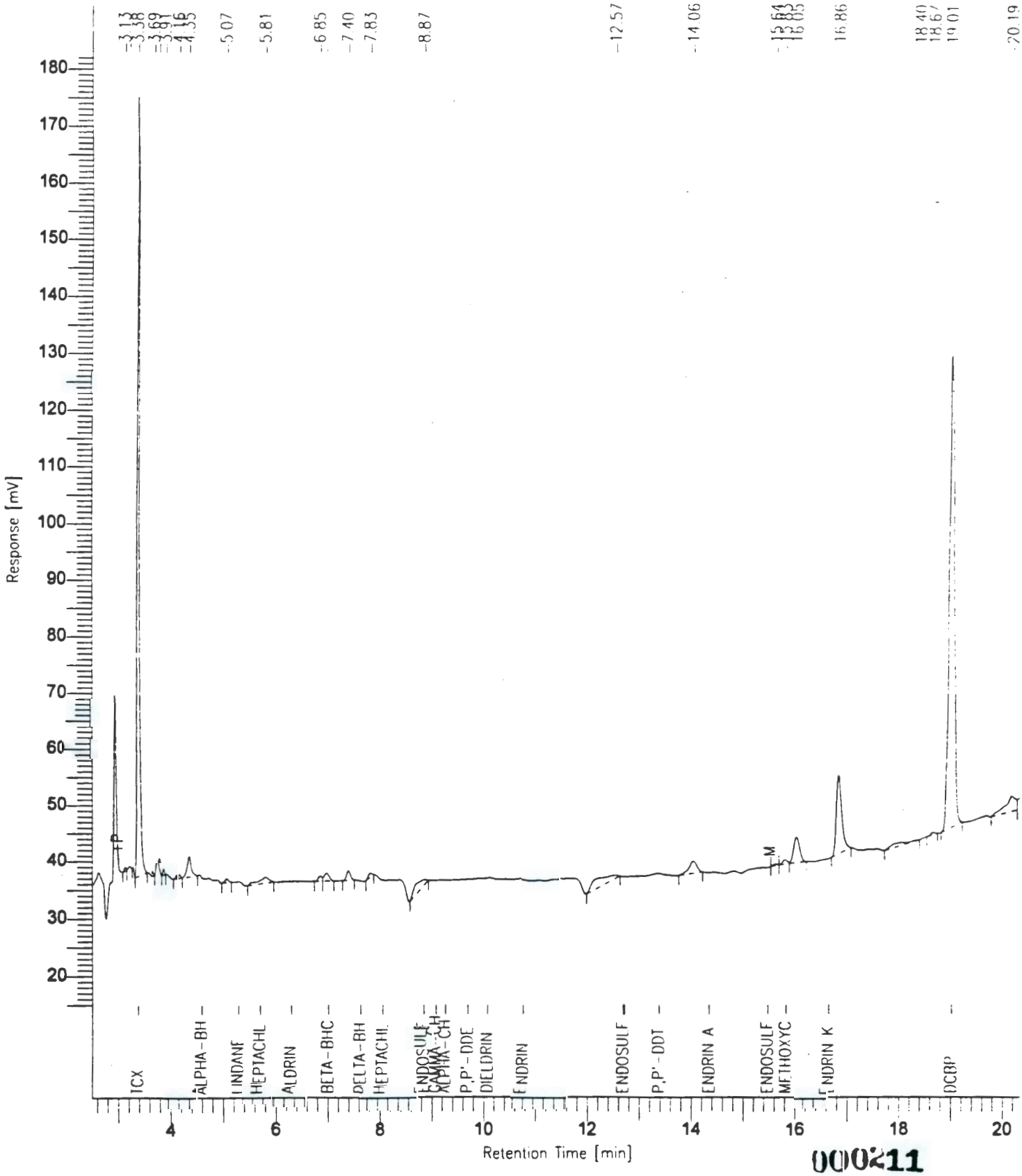
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
26	21.732		133289	V	317	-------
			1421548		255316	

9513356.0780

Chromatogram

Sample Name : MB*NONE*1 6-8-94
FileName : C:\TC4\DATA1\992B082.RAW
Method :
Start Time : 2.50 min End Time : 20.35 min
Scale Factor: 0.0 Plot Offset: 15 mV

Sample #:
Date : 6/16/94 10:30 AM
Time of Injection: 6/15/94 10:18 PM
Low Point : 14.98 mV High Point : 182.93 mV
Plot Scale: 167.9 mV



000211

Software Version: 4.0<1C29>
Sample Name : HEXANE
Time : 6/16/94 10:37 AM
Sample Number:
Study :
Operator :

Instrument : HP58909
Channel : B
A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342
Data Acquisition Time: 6/16/94 06:05 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B093.RAW
Result File : C:\TC4\DATA1\992B093.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B093.RST
Proc Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B093.RST
Calib Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B093.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul
Area Reject : 11070.000000
Sample Amount : 1.0000
Dilution Factor : 1.00

Noise Threshold: 33
Area Threshold : 444
Bunch Factor: 1
Multiplier : 1.0000
Divisor : 1.0000
Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 5

DATA REPORT

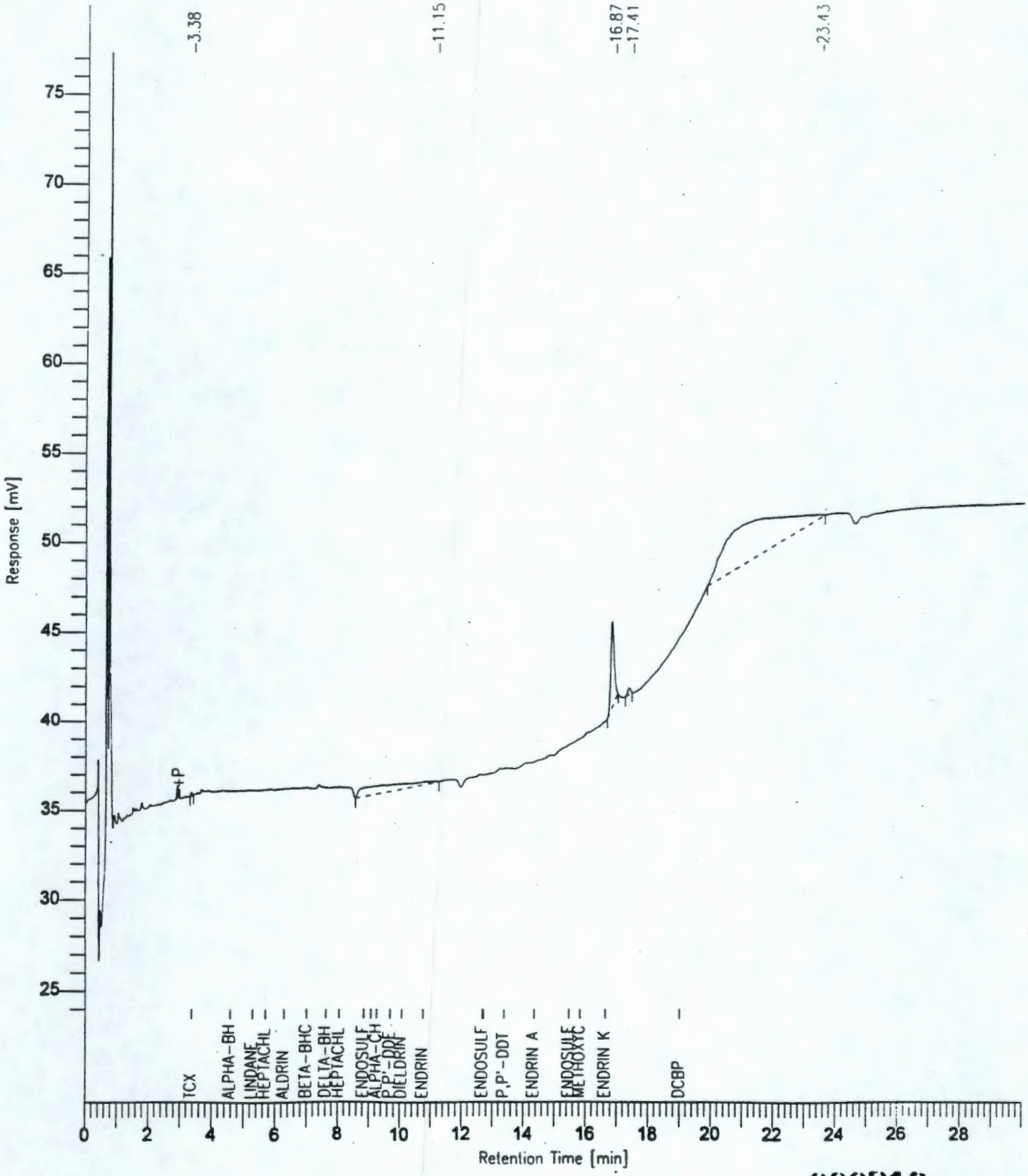
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
2	11.146		47632	B	75	-------
3	16.866		36577	B	4784	-------
5	23.430		296127	B	217	-------
			380336		5077	

9513356.0782

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\DATA1\992B093.RAW
Method :
Start Time : 0.00 min End Time : 30.00 min
Scale Factor: 0.0 Plot Offset: 24 mV

Sample #:
Date : 6/16/94 10:37 AM
Time of Injection: 6/16/94 06:05 AM
Low Point : 24.00 mV High Point : 77.34 mV
Plot Scale: 53.3 mV



000213

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*6 Time : 6/16/94 10:38 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/16/94 06:48 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B094.RAW
Result File : C:\TC4\DATA1\992B094.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B094.RST
Proc Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B094.RST
Calib Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B094.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 11070.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 11

DATA REPORT

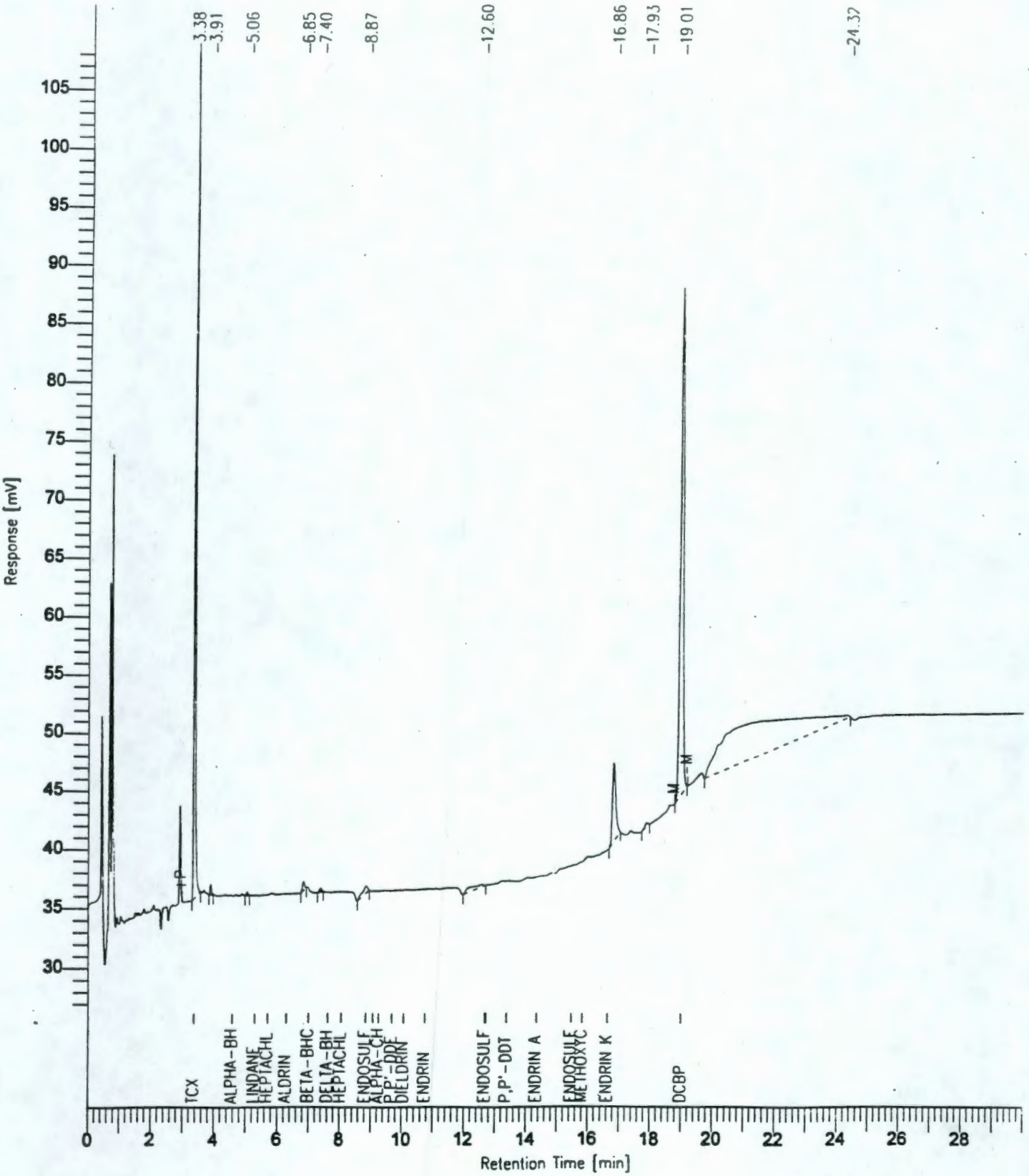
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	3.377	TCX	211918	B	73074	-0.0650
8	16.859		52212	B	6812	-------
10	19.005	DCBP	294254	*B	43516	-0.0663
11	24.322		541958	B	236	-------
			1100344		123638	

9513356.0784

Chromatogram

Sample Name : MB*PIBLK*6
FileName : C:\TC4\DATA1\992B094.RAW
Method :
Start Time : 0.00 min End Time : 30.00 min
Scale Factor: 0.0 Plot Offset: 26 mV

Sample #:
Date : 6/16/94 10:38 AM
Time of Injection: 6/16/94 06:48 AM
Low Point : 26.26 mV High Point : 108.26 mV
Plot Scale: 82.0 mV



000215

Software Version: 4.0<1C29>
Sample Name : CCS*INDAM*4 Time : 6/16/94 10:38 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/16/94 07:30 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B095.RAW
Result File : C:\TC4\DATA1\992B095.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B095.RST
Proc Method : C:\TC4\DATA1\992BAM from C:\TC4\DATA1\992B095.RST
Calib Method : C:\TC4\DATA1\992BAM from C:\TC4\DATA1\992B095.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 17

DATA REPORT

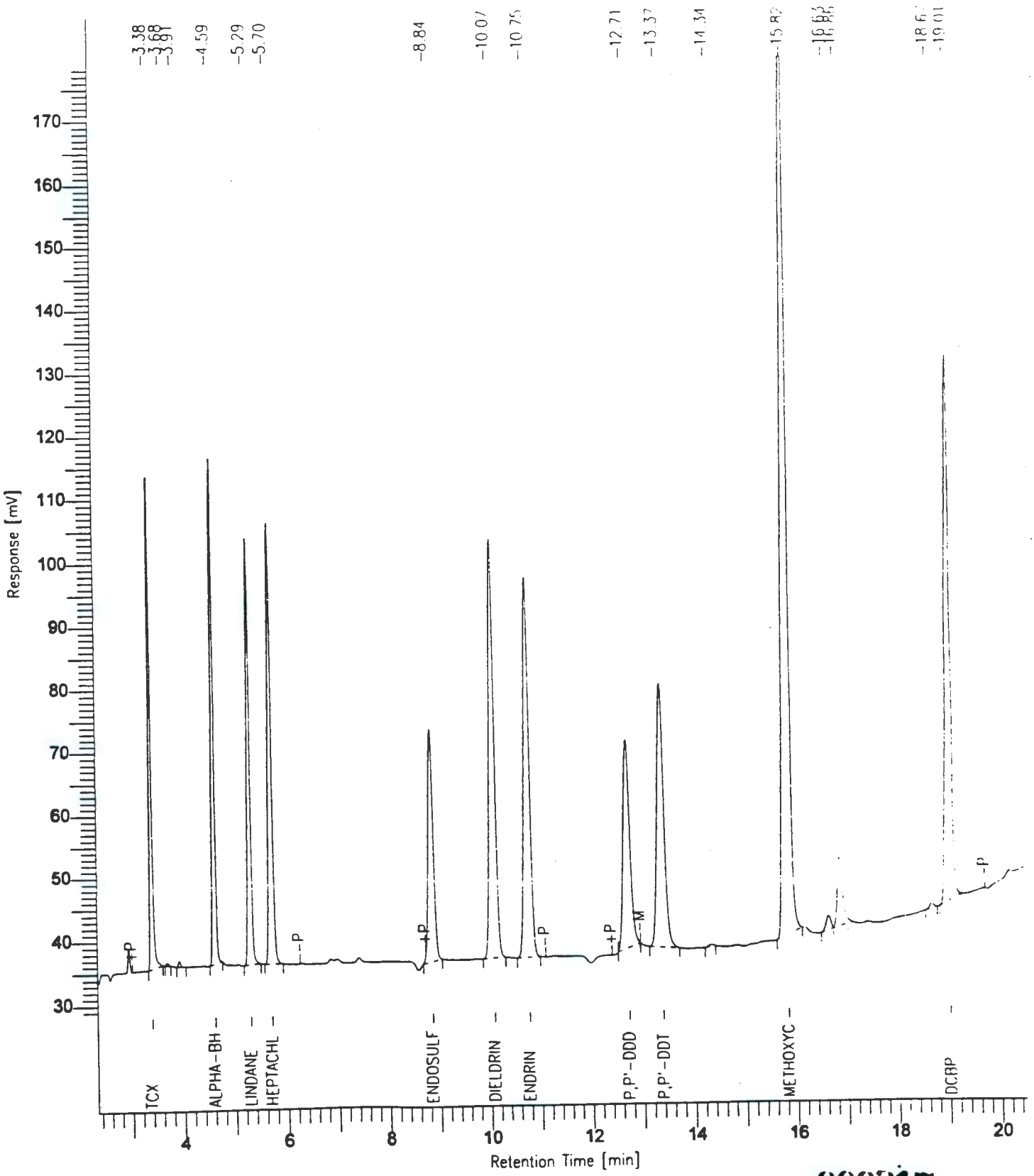
Peak #	Ret Time (min)	Component Name	Area (uV-sec)	BL	Height (uV)	Delta RT (%)	NG INJECTED
1	3.377	TCX	228224	B	78722	-0.0621	0.0200
4	4.592	ALPHA-BHC	258935	B	80196	-0.1199	0.0200
5	5.287	LINDANE	263317	B	68408	-0.1310	0.0200
6	5.699	HEPTACHLOR	325010	B	69982	-0.1145	0.0200
7	8.837	ENDOSULFAN A	262455	*B	37190	-0.1292	0.0200
8	10.065	DIELDRIN	492778	B	66544	-0.1348	0.0400
9	10.750	ENDRIN	465188	B	60383	-0.1515	0.0400
10	12.705	P,P'-DDD	304093	*B	33287	-0.1603	0.0400
11	13.368	P,P'-DDT	395440	B	41947	-0.1592	0.0400
13	15.823	METHOXYCHLOR	1242258	B	159082	-0.0915	0.2000
17	19.008	DCBP	597132	B	86464	-0.0527	0.0400

9513356.0786

Chromatogram

Sample Name : CCS*INDAM*4
FileName : C:\TC4\DATA1\992B095.RAW
Method :
Start Time : 2.32 min End Time : 20.49 min
Scale Factor: 0.0 Plot Offset: 28 mV

Sample #:
Date : 6/16/94 10:38 AM
Time of Injection: 6/16/94 07:30 AM
Low Point : 28.14 mV High Point : 178.90 mV
Plot Scale: 150.8 mV



000217

Software Version: 4.0<1C29>
Sample Name : CCS*INDBM*4 Time : 6/16/94 10:38 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/16/94 08:13 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B096.RAW
Result File : C:\TC4\DATA1\992B096.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B096.RST
Proc Method : C:\TC4\DATA1\992BBM from C:\TC4\DATA1\992B096.RST
Calib Method : C:\TC4\DATA1\992BBM from C:\TC4\DATA1\992B096.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 25

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	3.377	TCX	254582	B	86256	-0.0913	0.0200
8	6.289	ALDRIN	248899	B	49766	-0.1376	0.0200
9	6.997	BETA-BHC	150365	B	27644	-0.1903	0.0200
10	7.618	DELTA-BHC	219816	B	39116	-0.1436	0.0200
11	8.047	HEPTACHLOR EPOXIDE	277353	B	43634	-0.1405	0.0200
12	9.071	GAMMA-CHLORDANE	282923	B	39071	-0.1377	0.0200
13	9.252	ALPHA-CHLORDANE	288002	V	39742	-0.1563	0.0200
14	9.684	P,P'-DDE	363997	*B	45886	-0.1536	0.0400
15	12.680	ENDOSULFAN B	477955	*B	54583	-0.1515	0.0400
16	14.336	ENDRIN ALDEHYDE	297667	*B	28743	-0.1268	0.0400
18	15.467	ENDOSULFAN SULFATE	440570	B	58243	-0.1205	0.0400
20	16.636	ENDRIN KETONE	468312	B	69273	-0.1025	0.0400

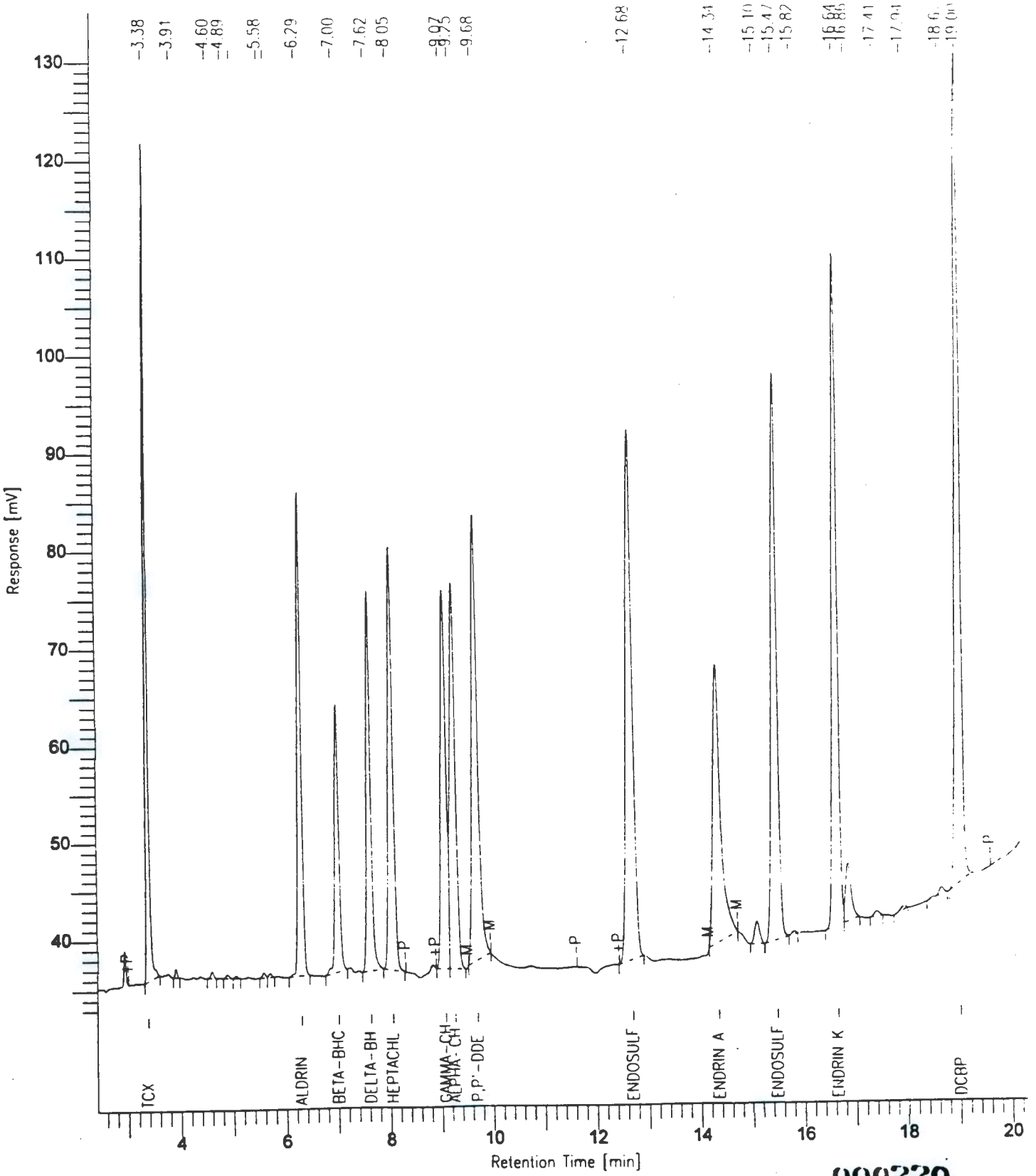
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
25	19.004	DCBP	593712	B	85806	-0.0658	0.0400
			4364152		667762		0.3800

9513556.0789

Chromatogram

Sample Name : CCS*INDBM*4
FileName : C:\TC4\DATA1\992B096.RAW
Method :
Start Time : 2.41 min End Time : 20.30 min
Scale Factor: 0.0 Plot Offset: 32 mV

Sample #:
Date : 6/16/94 10:38 AM
Time of Injection: 6/16/94 08:13 AM
Low Point : 32.36 mV High Point : 130.38 mV
Plot Scale: 98.0 mV



000220

RAW QC DATA

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK1

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

Matrix: (soil/water) SOIL Lab Sample ID: MB*NONE*1

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: decanted: (Y/N) Y Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/15/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	3.3	U
742-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5566-34-7	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170.	U
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	67.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*1 Time : 6/14/94 09:40 AM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/14/94 12:30 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A020.RAW
Result File : C:\TC4\DATA1\992A020.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A020.RST
Proc Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A020.RST
Calib Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A020.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 6118.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 21

DATA REPORT

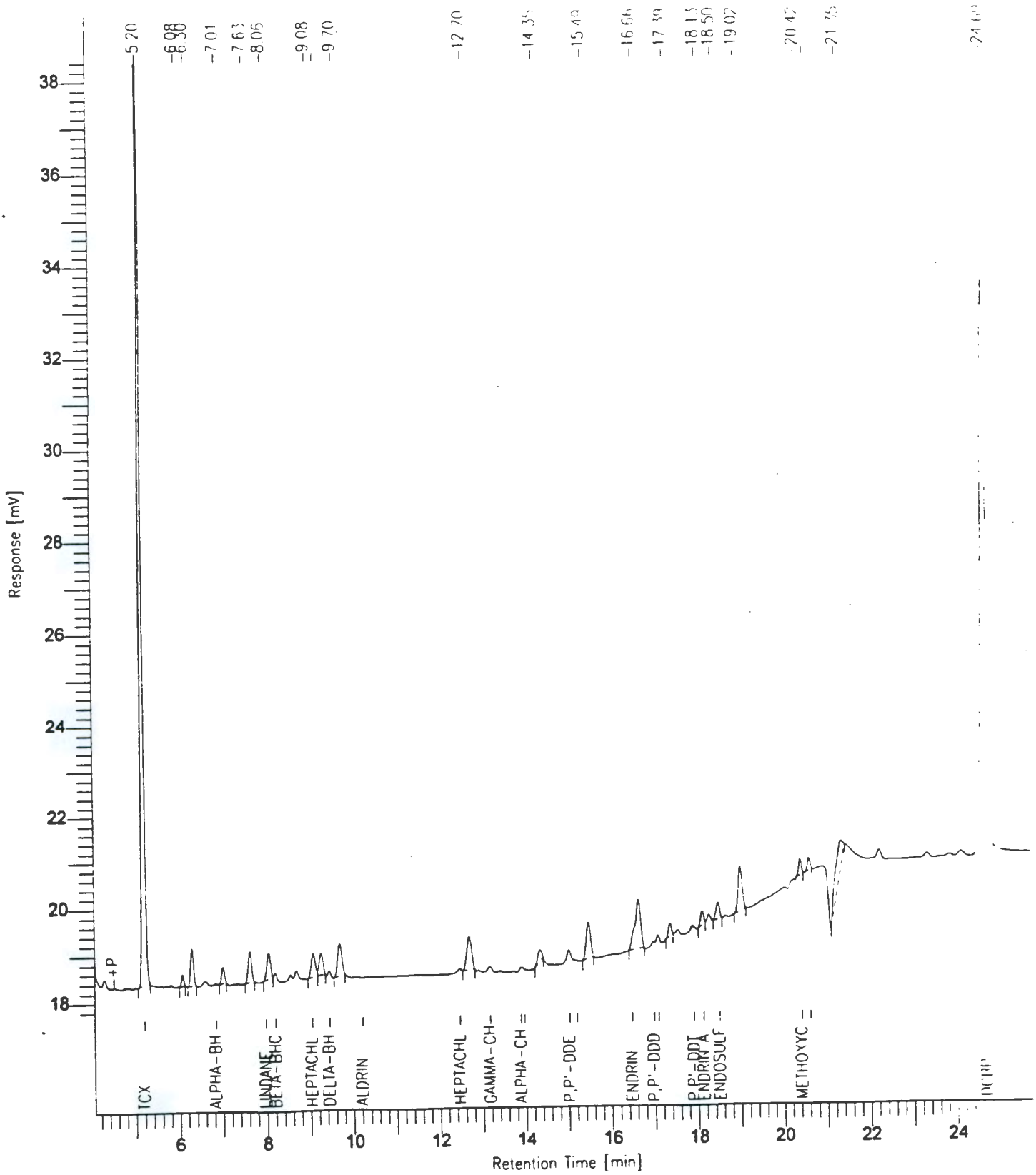
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.197	TCX	88049	B	25521	-0.0158
13	16.656		9906	B	1064	-------
17	19.017		6561	B	978	-------
20	21.354		9453	B	610	-------
21	24.692	DCBP	107897	B	12444	0.0009
			221865		40616	

9513356.0793

Chromatogram

Sample Name : MB*PIBLK*1
FileName : C:\TC4\DATA1\992A020.RAW
Method :
Start Time : 4.06 min End Time : 25.76 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 6/14/94 09:40 AM
Time of Injection: 6/14/94 12:30 AM
Low Point : 17.64 mV High Point : 38.40 mV
Plot Scale: 20.8 mV



000224

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*1 Time : 6/14/94 12:24 PM
Sample Number: Study :
Operator : LFS

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/14/94 01:12 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B021.RAW
Result File : C:\TC4\DATA1\992B021.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B021.RST
Proc Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B021.RST
Calib Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B021.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 11070.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 19

DATA REPORT

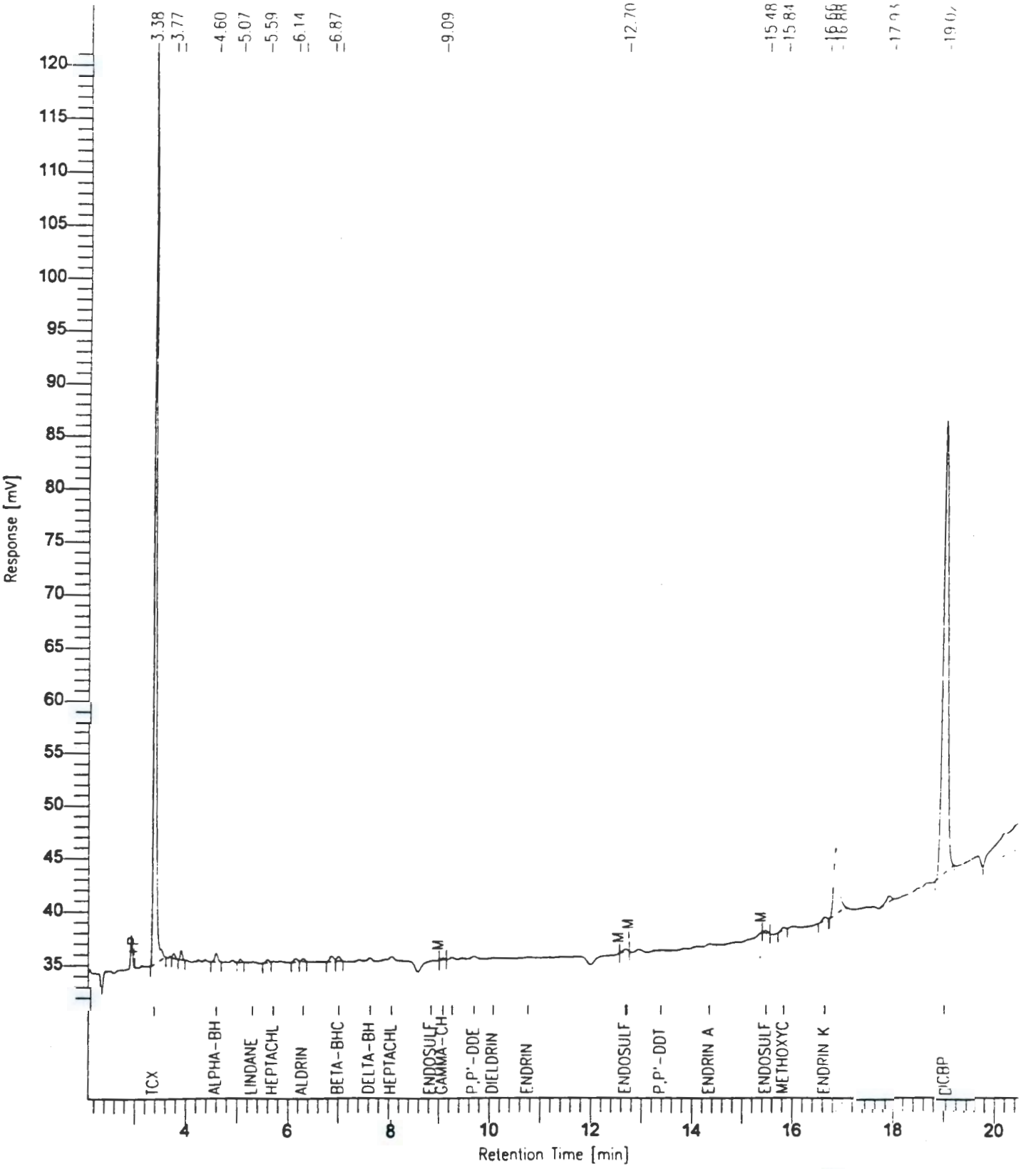
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	3.380	TCX	266007	B	90033	0.0012
16	16.875		46698	B	6302	-------
18	19.017	DCBP	289306	B	42938	-0.0023
19	21.747		171630	B	293	-------
			773641		139566	

9513356.0795

Chromatogram

Sample Name : MB*PIBLK*1
FileName : C:\TC4\DATA1\992B021.RAW
Method :
Start Time : 2.08 min End Time : 20.49 min
Scale Factor: 0.0 Plot Offset: 31 mV

Sample #:
Date : 6/14/94 12:24 PM
Time of Injection: 6/14/94 01:12 AM
Low Point : 31.20 mV High Point : 121.18 mV
Plot Scale: 90.0 mV



0002226

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H06LEA01MS

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

Matrix: (soil/water) SOIL Lab Sample ID: SPM1*CDMHNSS*40

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 6 decanted: (Y/N) Y Date Received: 06/08/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/15/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.2 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	15.	
76-44-8	Heptachlor	14.	
309-00-2	Aldrin	14.	
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	30.	
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	31.	
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	38.	
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.6	U
742-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5566-34-7	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	71.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	36.	U
11096-82-5	Aroclor-1260	36.	U

Software Version: 4.0<1C29>
Sample Name : SPM1*CDMHNSS*40 Time : 6/16/94 08:53 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/15/94 11:01 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A083.RAW
Result File : C:\TC4\DATA1\992A083.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A083.RST
Proc Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A083.RST
Calib Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A083.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 6193.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 23

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	4.760		8751	B	1422	-------
3	5.191	TCX	147760	B	41993	-0.1268
4	5.540		7012	B	1307	-------
6	7.980	LINDANE	175298	B	38181	-0.1299
8	9.036	HEPTACHLOR	243660	B	39612	-0.1318
9	10.203	ALDRIN	181299	B	26747	-0.1303
11	15.186	DIELDRIN	376253	B	62461	-0.0970
13	16.472	ENDRIN	345232	B	64096	-0.0785
14	16.971	P,P'-DDD	16469	B	2933	-0.1111
16	17.905	P,P'-DDT	444429	B	89285	-0.0681
17	18.452	ENDOSULFAN SULFATE	15853	B	2796	-0.3210
18	18.654		43415	V	7501	-------

Result File : 992A083.RST, Printed On 6/16/94 08:53 AM

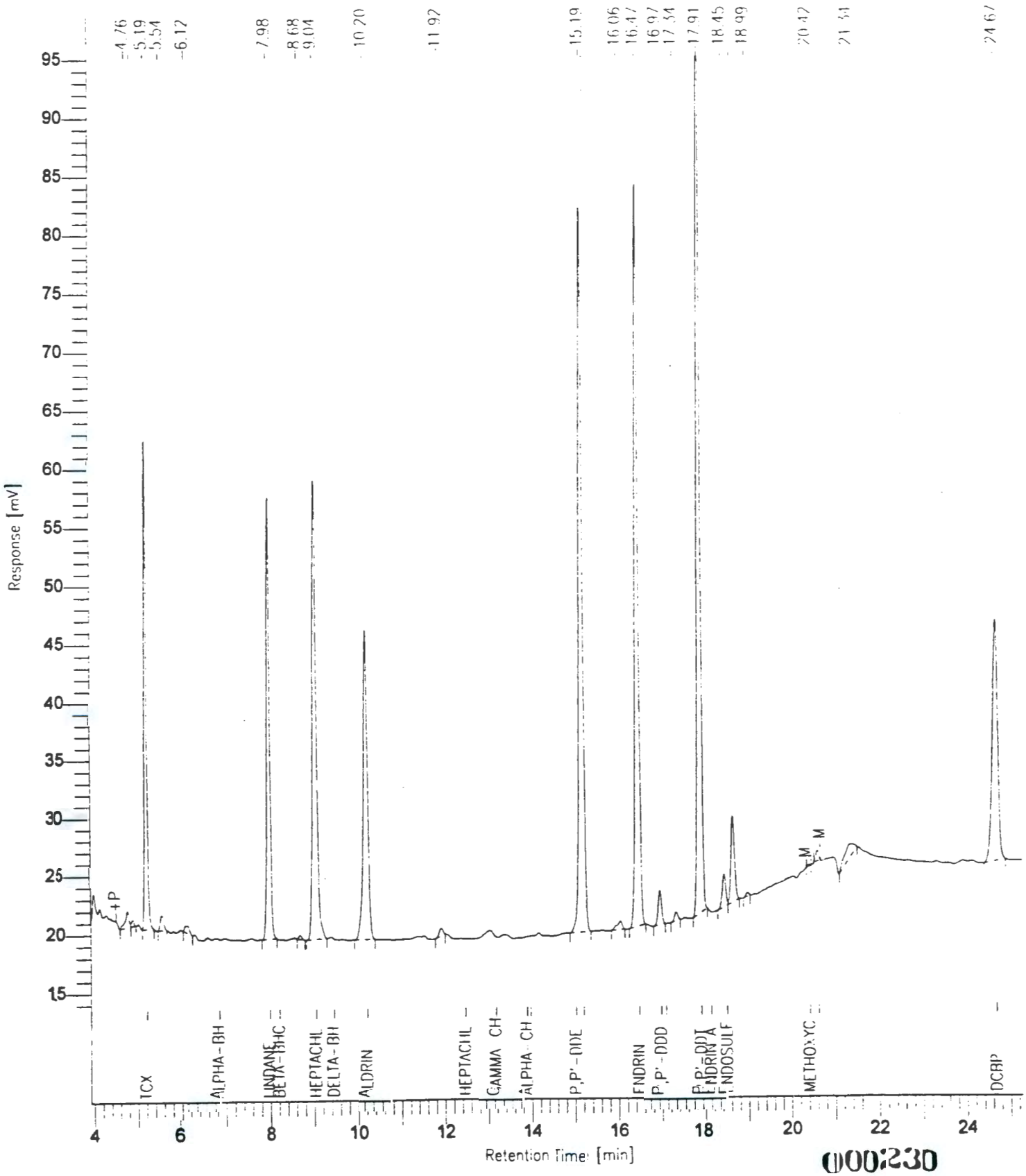
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
22	21.344		18414	B	1164	-------
23	24.668	DCBP	181777	B	20880	-0.0964
			2205622		400379	

9513356.0799

Chromatogram

Sample Name : SPM1*CDMHNSS*40
FileName : C:\TC4\DATA1\992A083.RAW
Method :
Start Time : 3.92 min End Time : 25.29 min
Scale Factor: 0.0 Plot Offset: 14 mV

Sample #:
Date : 6/16/94 08:53 AM
Time of Injection: 6/15/94 11:01 PM
Low Point : 13.62 mV High Point : 95.04 mV
Plot Scale: 81.4 mV



000230

Software Version: 4.0<1C29>
Sample Name : SPM1*CDMHNSS*40 Time : 6/16/94 10:32 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/15/94 11:43 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B084.RAW
Result File : C:\TC4\DATA1\992B084.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B084.RST
Proc Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B084.RST
Calib Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B084.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 11070.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 39

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
2	3.217		33238	V	8438	-------
3	3.377	TCX	320544	B	112323	-0.0740
4	3.577		32777	V	7612	-------
9	4.355		35951	V	5628	-------
11	4.738		11605	V	1549	-------
14	5.287	LINDANE	532552	V	137653	-0.1184
15	5.699	HEPTACHLOR	615272	B	131348	-0.1194
16	6.290	ALDRIN	453306	B	92796	-0.1226
18	6.979	BETA-BHC NV	14198	V	1854	-0.4448
19	7.249		16481	V	2878	-------
21	7.845		19031	B	1675	-------
23	9.684	P,P'-DDE NV	13387	B	1389	-0.1563

Result File : 992B084.RST, Printed On 6/16/94 10:32 AM

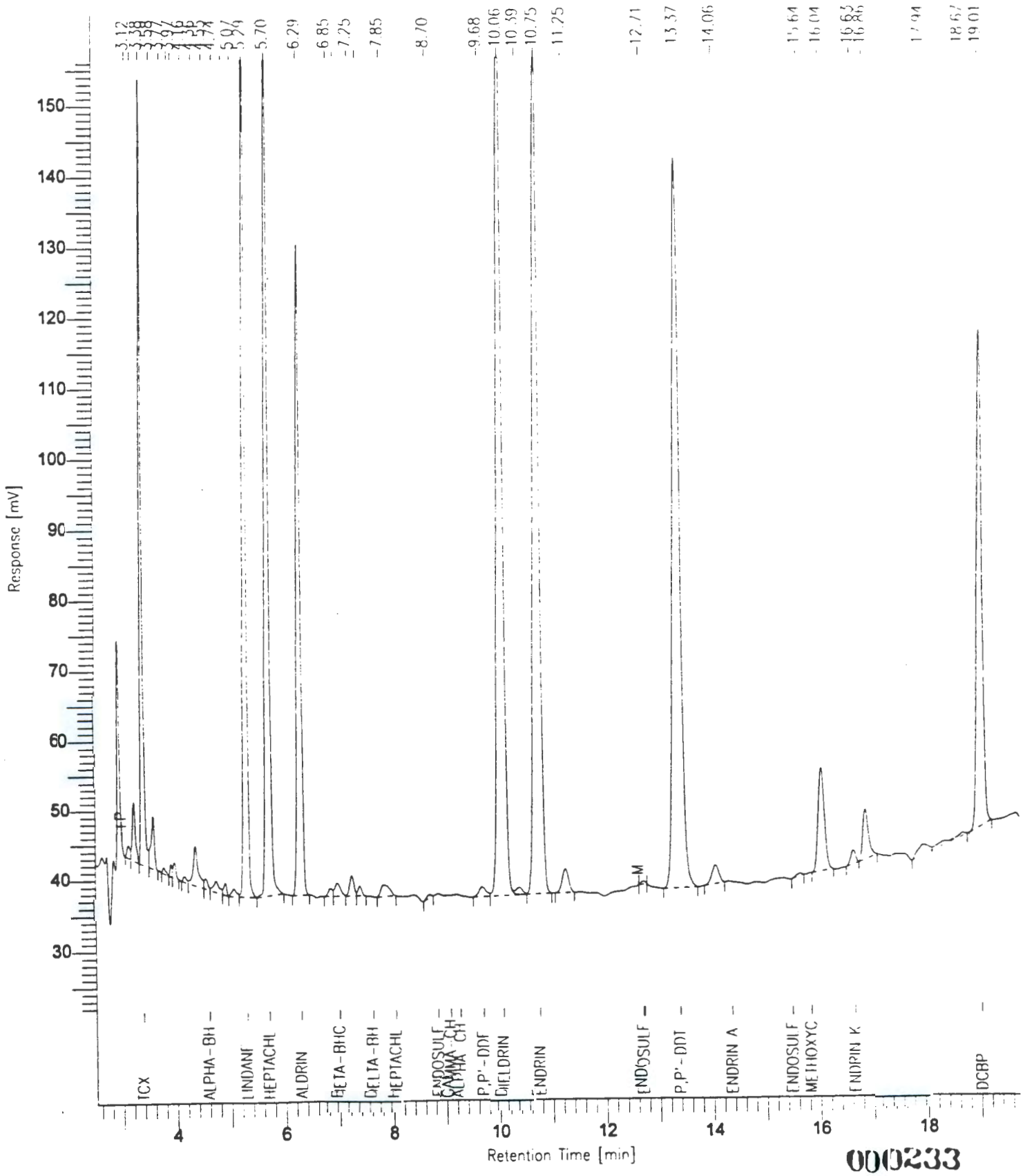
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
24	10.064	DIELDRIN	991092	V	133163	-0.1406
26	10.749	ENDRIN	937039	V	122599	-0.1616
27	11.251		27930	B	3397	-------
29	13.368	P,P'-DDT	974320	B	103955	-0.1566
30	14.057		24317	B	2676	-------
32	16.042		121491	B	14845	-------
33	16.632	ENDRIN KETONE	12926	B	2009	-0.1239
34	16.861		53564	B	7199	-------
35	17.938		21201	B	1479	-------
36	18.669		13630	V	448	-------
37	19.007	DCBP	482478	B	70714	-0.0559
38	20.033		26345	B	1973	-------
39	21.550		189846	V	712	-------
			5974522		970311	

9513356.0802

Chromatogram

Sample Name : SPM1*CDMHNSS*40
FileName : C:\TC4\DATA1\992B084.RAW
Method :
Start Time : 2.50 min End Time : 19.73 min
Scale Factor: 0.0 Plot Offset: 22 mV

Sample #:
Date : 6/16/94 10:32 AM
Time of Injection: 6/15/94 11:43 PM
Low Point : 21.61 mV High Point : 156.53 mV
Plot Scale: 134.9 mV



000233

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H06LEA01MSD

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 50312

Matrix: (soil/water) SOIL Lab Sample ID: SPM2*CDMHNSS*40

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 6 decanted: (Y/N) Y Date Received: 06/08/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/15/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.2 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	14.	
76-44-8	Heptachlor	14.	
309-00-2	Aldrin	13.	P
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	29.	
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	29.	
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	42.	
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.6	U
742-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5566-34-7	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	71.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	36.	U
11096-82-5	Aroclor-1260	36.	U

Software Version: 4.0<1C29>
Sample Name : SPM2*CDMHNSS*40 Time : 6/16/94 08:53 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/15/94 11:43 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992A084.RAW
Result File : C:\TC4\DATA1\992A084.RST
Inst Method : HP58909 from C:\TC4\DATA1\992A084.RST
Proc Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A084.RST
Calib Method : C:\TC4\DATA1\992A from C:\TC4\DATA1\992A084.RST
Sequence File : C:\TC4\DATA1\992A.SEQ

Sample Volume : 1 ul Area Reject : 6193.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 26

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	4.760		7402	B	1038	-------
3	5.191	TCX	143360	B	39361	-0.1331
4	5.558		8108	B	1410	-------
6	6.124		6422	V	818	-------
8	7.979	LINDANE	163115	B	34866	-0.1457
10	9.034	HEPTACHLOR	230197	B	36520	-0.1519
11	10.203	ALDRIN	197463	B	25549	-0.1302
15	15.184	DIELDRIN	349748	B	56687	-0.1099
16	16.059		8397	B	1076	-------
17	16.471	ENDRIN	323632	B	57973	-0.0848
18	16.970	P,P'-DDD	18724	B	3291	-0.1205
20	17.904	P,P'-DDT	506342	B	99525	-0.0712

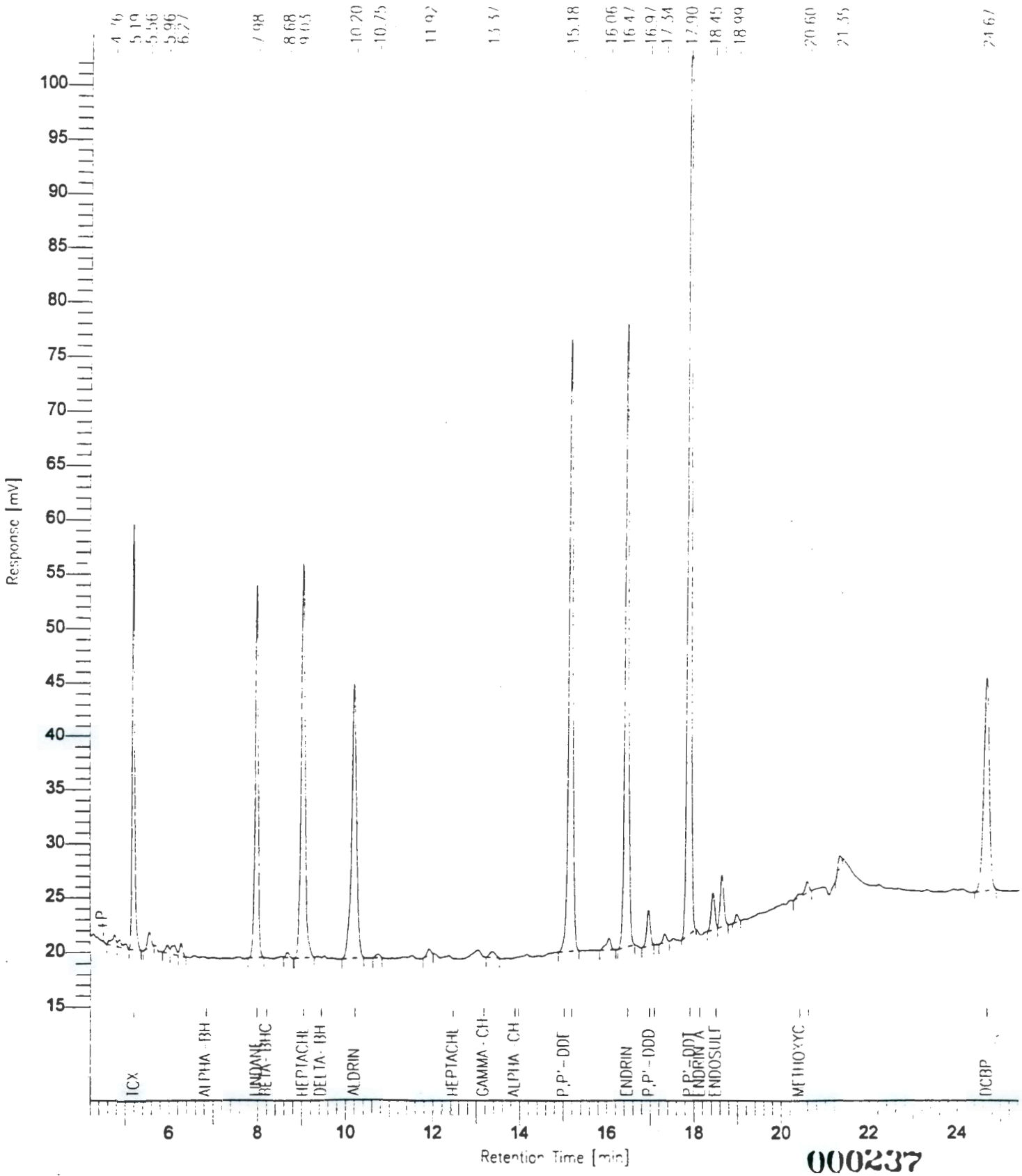
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
21	18.450	ENDOSULFAN SULFATE	19505	B	3373	-0.3348
22	18.654		27582	V	4797	-------
24	20.602	ENDRIN KETONE	8582	B	1042	-0.0903
26	24.667	DCBP	176456	B	19941	-0.1011
			2195036		387267	

9513356.0806

Chromatogram

Sample Name : SPM2*CDMHNSS*40
FileName : C:\TC4\DATA1\992A084.RAW
Method :
Start Time : 4.20 min End Time : 25.43 min
Scale Factor: 0.0 Plot Offset: 15 mV

Sample #:
Date : 6/16/94 08:53 AM
Time of Injection: 6/15/94 11:43 PM
Low Point : 14.93 mV High Point : 102.87 mV
Plot Scale: 87.9 mV



000237

9513356.0807

Software Version: 4.0<1C29>
Sample Name : SPM2*CDMHNSS*40 Time : 6/16/94 10:32 AM
Sample Number: Study :
Operator :

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 6/16/94 12:26 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\DATA1\992B085.RAW
Result File : C:\TC4\DATA1\992B085.RST
Inst Method : HP58909 from C:\TC4\DATA1\992B085.RST
Proc Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B085.RST
Calib Method : C:\TC4\DATA1\992B from C:\TC4\DATA1\992B085.RST
Sequence File : C:\TC4\DATA1\992B.SEQ

Sample Volume : 1 ul Area Reject : 11070.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 41

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
3	3.377	TCX	346630	B	121380	-0.0785
4	3.525		14951	E	2818	-------
6	3.780		17516	V	3821	-------
10	4.356		38868	V	5560	-------
11	4.549		11874	V	2399	-------
13	4.739		11198	V	1838	-------
16	5.288	LINDANE	496534	V	129238	-0.1087
17	5.701	HEPTACHLOR	582092	B	123449	-0.0939
18	6.291	ALDRIN	423585	B	87928	-0.1141
19	6.978	BETA-BHC W✓	91193	B	12128	-0.4628
20	7.250		15691	V	2775	-------
21	7.399		12725	V	2427	-------

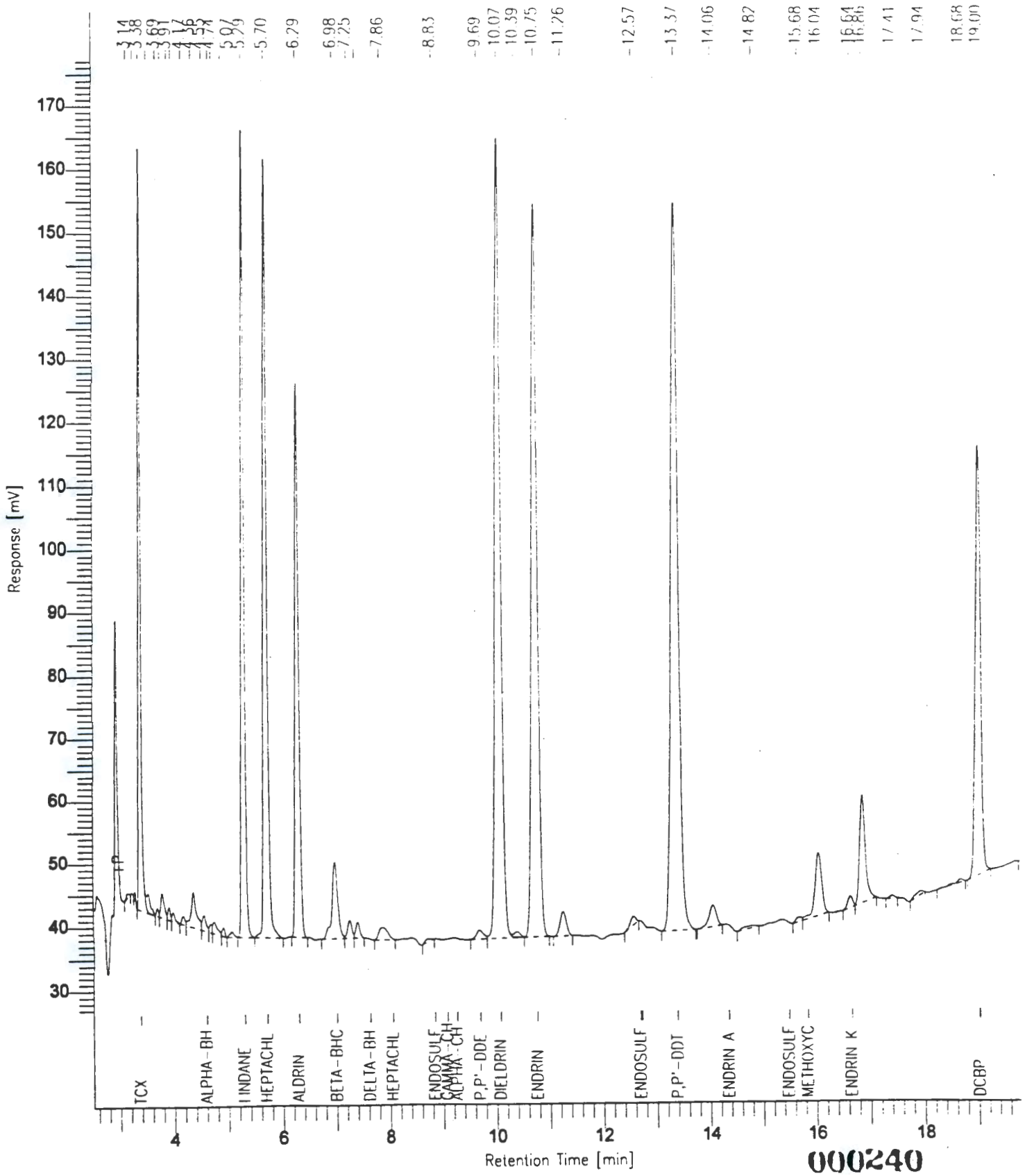
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
22	7.862		22850	B	1951	-------
24	9.686	P,P'-DDE NC	13011	B	1420	-0.1329
25	10.067	DIELDRIN	940168	V	126950	-0.1184
27	10.752	ENDRIN	888056	V	116474	-0.1357
28	11.255		31037	B	3756	-------
30	13.372	P,P'-DDT	1076446	B	115736	-0.1323
31	14.058		31932	B	3310	-------
34	16.041		88607	V	10020	-------
35	16.637	ENDRIN KETONE ~~NO~~ .F? 0.2 PY 0.F0 BDL	12105	B	1834	-0.0964
36	16.856		126693	V	17388	-------
40	19.004	DCBP	467763	B	68450	-0.0707
41	20.825		30418	B	0	-------
			5791942		963049	

9513356.0809

Chromatogram

Sample Name : SPM2*CDMHNSS*40
FileName : C:\TC4\DATA1\992B085.RAW
Method :
Start Time : 2.50 min End Time : 19.78 min
Scale Factor: 0.0 Plot Offset: 26 mV

Sample #:
Date : 6/16/94 10:32 AM
Time of Injection: 6/16/94 12:26 AM
Low Point : 26.35 mV High Point : 177.41 mV
Plot Scale: 151.1 mV



000240

OTHER RELEVANT DOCUMENTS

SOIL SAMPLE CALCULATION

BATCH # 650312 COMPLETED BY LFS

SAMPLE SPMI + COMHNSS #40 DATE 6-21-611

ANALYTE Aldrin Curve #2

EQUATION:

$$UG/KG = \frac{(Au)(Is)(Ve)}{(As)(Vi)(Ws)(D)}$$

Au = RESPONSE OF UNKNOWN COMPOUND = 453306

Is = AMOUNT OF STANDARD INJECTED (NG) = .02

Ve = EXTRACT VOLUME (UL) EFFECTIVE FINAL VOLUME = 10,000

As = RESPONSE OF STANDARD = 236852

Vi = INJECTION VOLUME (UL) = 1

Ws = SAMPLE WEIGHT (G) = 30

$$D = \frac{100 - \%\ MOISTURE}{100} = \frac{100 - 6.4}{100} = .936$$

$$UG/KG = \frac{(453306)(.02)(10000)}{(236852)(1)(30)(.936)} = 13.6\ ug/kg$$

Environmental Science and Engineering 06/21/94 STATUS: P# 1 OF 2

*** SAMPLE ARRIVAL NOTICE FOR DEPARTMENT 1243 *** C# 1 OF 1

PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
LAB COORDINATOR EDWARD MANSFIELD

COLLECTION DATES: A=06/06/94
RECEIPT DATES : A=06/08/94
LAB DUE DATES : A=06/10/94
TURNAROUND : 2 DAYS MATRIX : SOIL DET. LIMIT SPEC'D : NONE SPECIFIED
QC : SAMPLE FRACTIONS , SS, SS, SV-M, SV-M
COMMENTS/QC FR: 48 HR TAT. LEVEL IV DELIVERABLE FOR SAMPLE
*21.

SAMPLE SEQ #
COLLECTION DATE CODES: A
RECEIPT DATE CODES: A
LAB DUE DATE CODES: A

				EXTRACT GROUP	DET.LMT. CRITERIA	4 0
001	Aldrin	,UG/KG-DRY	39333*CLP90	OLM01.8S		O
002	alpha-BHC	,UG/KG-DRY	39076*CLP90	OLM01.8S		O
003	beta-BHC	,UG/KG-DRY	34257*CLP90	OLM01.8S		O
004	delta-BHC	,UG/KG-DRY	34262*CLP90	OLM01.8S		O
005	gamma-BHC (Lindane)	,UG/KG-DRY	39783*CLP90	OLM01.8S		O
006	gamma-Chlordane	,UG/KG-DRY	39811*CLP90	OLM01.8S		O
007	alpha-Chlordane	,UG/KG-DRY	97501*CLP90	OLM01.8S		O
008	4,4'-DDD	,UG/KG-DRY	39311*CLP90	OLM01.8S		O
009	4,4'-DDE	,UG/KG-DRY	39321*CLP90	OLM01.8S		O
010	4,4'-DDT	,UG/KG-DRY	39301*CLP90	OLM01.8S		O
011	Dieldrin	,UG/KG-DRY	39383*CLP90	OLM01.8S		O
012	Endosulfan I	,UG/KG-DRY	34364*CLP90	OLM01.8S		O
013	Endosulfan II	,UG/KG-DRY	34359*CLP90	OLM01.8S		O
014	Endosulfan sulfate	,UG/KG-DRY	34354*CLP90	OLM01.8S		O
015	Endrin	,UG/KG-DRY	39393*CLP90	OLM01.8S		O
016	Endrin ketone	,UG/KG-DRY	98591*CLP90	OLM01.8S		O
017	Endrin aldehyde	,UG/KG-DRY	34369*CLP90	OLM01.8S		O
018	Heptachlor	,UG/KG-DRY	39413*CLP90	OLM01.8S		O
019	Heptachlor epoxide	,UG/KG-DRY	39423*CLP90	OLM01.8S		O
020	Methoxychlor	,UG/KG-DRY	39481*CLP90	OLM01.8S		O
021	Toxaphene	,UG/KG-DRY	39403*CLP90	OLM01.8S		O
022	Aroclor-1016	,UG/KG-DRY	39514*CLP90	OLM01.8S		O
023	Aroclor-1221	,UG/KG-DRY	39491*CLP90	OLM01.8S		O
024	Aroclor-1232	,UG/KG-DRY	39495*CLP90	OLM01.8S		O
025	Aroclor-1242	,UG/KG-DRY	39499*CLP90	OLM01.8S		O
026	Aroclor-1248	,UG/KG-DRY	39503*CLP90	OLM01.8S		O
027	Aroclor-1254	,UG/KG-DRY	39507*CLP90	OLM01.8S		O
028	Aroclor-1260	,UG/KG-DRY	39511*CLP90	OLM01.8S		O
029	ALDRIN	,UG/KG-DRY	39333*8080/3540-G	8080S		D
030	BHC,A	,UG/KG-DRY	39076*8080/3540-G	8080S		D
031	BHC,B	,UG/KG-DRY	34257*8080/3540-G	8080S		D
032	BHC,D	,UG/KG-DRY	34262*8080/3540-G	8080S		D
033	BHC,G(LINDANE)	,UG/KG-DRY	39783*8080/3540-G	8080S		D
034	CHLORDANE	,UG/KG-DRY	39351*8080/3540-G	8080S		D
035	DDD,PP'	,UG/KG-DRY	39311*8080/3540-G	8080S		D
036	DDE,PP'	,UG/KG-DRY	39321*8080/3540-G	8080S		D
037	DDT,PP'	,UG/KG-DRY	39301*8080/3540-G	8080S		D
038	DIELDRIN	,UG/KG-DRY	39383*8080/3540-G	8080S		D
039	ENDOSULFAN,A	,UG/KG-DRY	34364*8080/3540-G	8080S		D
040	ENDOSULFAN,B	,UG/KG-DRY	34359*8080/3540-G	8080S		D

O=OPEN L=IN LAB E=EXTRACTED N=NOT REQUESTED D=DONE S=SCHEDULED
* "STORET" = NOT ON DEPT AVAIL NUMS "_" = SHORT HOLDING TIME

9513356.0813

3.0 ESE Analytical Data Batch

ESE BATCH : G50312

QC TYPE : FDER/SW
ANALYST : LEE STEVENS
EXTRACTOR : Z. MATHIS
DATA ENTRY : CLP UPLOAD

REPORT DATE/TIME : 06/21/94 18:09:35
ANALYSIS DATE : 06/13/94
EXTRACT DATE : 06/08/94

STATUS :

METHOD BLANK CORRECTION METHOD : NONE

FIELD GRP QC TYPE	PROJECT NUMBER	PROJECT NAME	LAB COORDINATOR
CDMHNSS	1944022G 0201	CDM - HANFORD N. SLOPE	EDWARD MANSFIELD

Sample Specific Raw Data

SAMPLE CODE	EXTRACT DATE	ANALYSIS DATE	ANALYSIS TIME	SAMPLE WEIGHT (G)	EXTRACT VOLUME (ML)	INJECTION VOLUME (NA)	%MOISTURE
CCS*INDAM*2		06/14/94	11:47AM	1	1	1	
CCS*INDAM*2*C		06/14/94	11:47AM	1	1	1	
CCS*INDBM*2		06/14/94	12:30PM	1	1	1	
CCS*INDBM*2*C		06/14/94	12:30PM	1	1	1	
CCS*INDAM*3		06/15/94	11:40AM	1	1	1	
CCS*INDAM*3*C		06/15/94	11:40AM	1	1	1	
CCS*INDBM*3		06/15/94	12:23PM	1	1	1	
CCS*INDBM*3*C		06/15/94	12:23PM	1	1	1	
MB*NONE*1	06/08/94	06/15/94	09:36PM	30	10	1	
DA*CDMHNSS*40	06/08/94	06/15/94	10:18PM	30	10	1	6.4
SPM1*CDMHNSS*40	06/08/94	06/15/94	11:01PM	30	10	1	6.4
SPM2*CDMHNSS*40	06/08/94	06/15/94	11:43PM	30	10	1	6.4
CCS*INDAM*4		06/16/94	06:48AM	1	1	1	
CCS*INDAM*4*C		06/16/94	06:48AM	1	1	1	
CCS*INDBM*4		06/16/94	07:30AM	1	1	1	
CCS*INDBM*4*C		06/16/94	07:30AM	1	1	1	

Parameter Specific Raw Data

SAMPLE CODE	STORET NAME	STATUS	RESPONSE (PK AREA)	UNC CONC (NG/ML)	DIL	TYPE	CURVE	RET TIME	SPIKE SOL CONC (NG/ML)	SPIKE SAMP VOL (G)	SPIKE VOLUME (ML)	DIL CODE	CALC'D TARGET (NG/G)
CCS*INDAM*2	alpha-BHC	OK	73482	21.6	1			6.843					20
	gamma-BHC	OK	77298	21.2	1			7.99					20
	Heptachlor	OK	117919	20.2	1			9.046					20
	Endosulfan I	OK	79926	20.3	1			13.976					20
	Dieldrin	OK	160113	40.1	1			15.2					40
	Endrin	OK	147714	40.0	1			16.484					40
	4,4'-DDD	OK	120754	39.2	1			16.988					40
	4,4'-DDT	OK	157579	38.9	1			17.916					40
	Methoxychlor	OK	661694	198	1			20.423					200
	TCX	OK	93702	19.9	1			5.197					20
	DCBP	OK	212836	38.2	1			24.693					40
CCS*INDAM*2*C	alpha-BHC	OK	247736	21.1	1		2	4.598					20
	gamma-BHC	OK	255000	20.8	1		2	5.294					20
	Heptachlor	OK	313318	20.5	1		2	5.706					20
	Endosulfan I	OK	251865	20.4	1		2	8.848					20
	Dieldrin	OK	474442	40.9	1		2	10.08					40
	Endrin	OK	445700	41.1	1		2	10.764					40
	4,4'-DDD	OK	292162	41.5	1		2	12.722					40
	4,4'-DDT	OK	380088	41.8	1		2	13.388					40
	Methoxychlor	OK	1207248	207	1		2	15.837					200
	TCX	OK	264883	20.9	1		2	3.38					20
	DCBP	OK	568132	39.8	1		2	19.018					40
CCS*INDBM*2	beta-BHC	OK	55574	21.4	1			8.209					20
	delta-BHC	OK	66009	21.9	1			9.453					20
	Aldrin	OK	86774	20.8	1			10.216					20
	Hept. epoxide	OK	92318	20.8	1			12.477					20
	4,4'-DDE	OK	157592	41.0	1			15.029					40
	Endosulfan II	OK	141598	42.1	1			17.103					40
	Endo.sulfate	OK	161277	41.2	1			18.512					40
	Endrin ketone	OK	154476	42.9	1			20.622					40
	Endrin aldehyde	OK	120560	40.0	1			18.144					40
	a. Chlordane	OK	109134	20.1	1			13.895					20
	g. Chlordane	OK	110896	20.4	1			13.175					20
	TCX	OK	95807	20.4	1			5.197					20
	DCBP	OK	215416	38.7	1			24.693					40
CCS*INDBM*2*C	beta-BHC	OK	155243	22.0	1		2	7.009					20
	delta-BHC	OK	221125	21.1	1		2	7.629					20
	Aldrin	OK	247594	20.9	1		2	6.298					20
	Hept. epoxide	OK	277401	20.7	1		2	8.057					20
	4,4'-DDE	OK	381854	44.1	1		2	9.695					40
	Endosulfan II	OK	484316	42.2	1		2	12.695					40
	Endo.sulfate	OK	437128	41.6	1		2	15.483					40
	Endrin ketone	OK	465544	41.7	1		2	16.653					40
	Endrin aldehyde	OK	304044	42.1	1		2	14.351					40
	a. Chlordane	OK	280948	20.9	1		2	9.263					20
	g. Chlordane	OK	286165	21.1	1		2	9.083					20
	TCX	OK	235704	18.6	1		2	3.38					20
	DCBP	OK	589553	41.3	1		2	19.016					40
CCS*INDAM*3	alpha-BHC	OK	79511	23.4	1			6.834					20
	gamma-BHC	OK	84393	23.2	1			7.98					20
	Heptachlor	OK	134959	23.1	1			9.036					20
	Endosulfan I	OK	82598	21.0	1			13.959					20
	Dieldrin	OK	163031	40.8	1			15.185					40
	Endrin	OK	168188	45.5	1			16.471					40
	4,4'-DDD	OK	126101	40.9	1			16.977					40
	4,4'-DDT	OK	166546	41.1	1			17.904					40
	Methoxychlor	OK	668272	200	1			20.412					200
	TCX	OK	95487	20.3	1			5.19					20
	DCBP	OK	215906	38.8	1			24.671					40
CCS*INDAM*3*C	alpha-BHC	OK	251623	21.4	1		2	4.592					20
	gamma-BHC	OK	256966	21.0	1		2	5.287					20
	Heptachlor	OK	315936	20.7	1		2	5.699					20
	Endosulfan I	OK	256652	20.8	1		2	8.839					20
	Dieldrin	OK	478518	41.2	1		2	10.068					40
	Endrin	OK	452389	41.7	1		2	10.751					40
	4,4'-DDD	OK	298554	42.4	1		2	12.704					40
	4,4'-DDT	OK	384026	42.2	1		2	13.372					40
	Methoxychlor	OK	1225572	210	1		2	15.824					200
	TCX	OK	225156	17.7	1		2	3.377					20
	DCBP	OK	578176	40.5	1		2	19.006					40
CCS*INDBM*3	beta-BHC	OK	56251	21.7	1			8.198					20
	delta-BHC	OK	67669	22.4	1			9.44					20
	Aldrin	OK	86721	20.8	1			10.202					20
	Hept. epoxide	OK	92841	20.9	1			12.459					20

	4,4'-DDE	OK	155862	40.6	1		15.015					40
	Endosulfan II	OK	145451	43.3	1		17.09					40
	Endo.sulfate	OK	159261	40.7	1		18.499					40
	Endrin ketone	OK	148301	41.1	1		20.611					40
	Endrin aldehyde	OK	123468	40.9	1		18.131					40
	a. Chlordane	OK	109910	20.3	1		13.877					20
	g. Chlordane	OK	110666	20.3	1		13.161					20
	TCX	OK	94506	20.1	1		5.19					20
	DCBP	OK	211198	37.9	1		24.668					40
CCS*INDBM*3*C	beta-BHC	OK	146821	20.8	1	2	6.998					20
	delta-BHC	OK	217943	20.8	1	2	7.617					20
	Aldrin	OK	242918	20.5	1	2	6.29					20
	Hept. epoxide	OK	271763	20.2	1	2	8.046					20
	4,4'-DDE	OK	367654	42.5	1	2	9.685					40
	Endosulfan II	OK	474727	41.3	1	2	12.683					40
	Endo.sulfate	OK	435380	41.4	1	2	15.469					40
	Endrin ketone	OK	461286	41.4	1	2	16.641					40
	Endrin aldehyde	OK	297244	41.1	1	2	14.338					40
	a. Chlordane	OK	284233	21.1	1	2	9.252					20
	g. Chlordane	OK	278782	20.5	1	2	9.07					20
	TCX	OK	241486	19.0	1	2	3.377					20
	DCBP	OK	582347	40.8	1	2	19.006					40
MB*NONE*1	alpha-BHC	OK	0		1							
	beta-BHC	OK	0		1							
	delta-BHC	OK	0		1							
	gamma-BHC	OK	0		1							
	Heptachlor	OK	0		1							
	Aldrin	OK	0		1							
	Hept. epoxide	OK	0		1							
	Endosulfan I	OK	0		1							
	Dieldrin	OK	0		1							
	4,4'-DDE	OK	0		1							
	Endrin	OK	0		1							
	Endosulfan II	OK	0		1							
	4,4'-DDD	OK	0		1							
	Endo.sulfate	OK	0		1							
	4,4'-DDT	OK	0		1							
	Methoxychlor	OK	0		1							
	Endrin ketone	OK	0		1							
	Endrin aldehyde	OK	0		1							
	a. Chlordane	OK	0		1							
	g. Chlordane	OK	0		1							
	Toxaphene	OK	0		1		0					
	AR1016	OK	0		1		0					
	AR1221	OK	0		1		0					
	AR1232	OK	0		1		0					
	AR1242	OK	0		1		0					
	AR1248	OK	0		1		0					
	AR1254	OK	0		1		0					
	AR1260	OK	0		1		0					
	TCX	OK	397141	31.3	1	2	3.377	200	30	2	N	13.333
	DCBP	OK	215128	38.7	1		24.669	200	30	2	N	13.333
DA*CDMHNSS*40	alpha-BHC	OK	0		1							
	beta-BHC	OK	0		1							
	delta-BHC	OK	0		1							
	gamma-BHC	OK	0		1							
	Heptachlor	OK	0		1							
	Aldrin	OK	0		1							
	Hept. epoxide	OK	0		1							
	Endosulfan I	OK	0		1							
	Dieldrin	OK	0		1							
	4,4'-DDE	OK	0		1							
	Endrin	OK	0		1							
	Endosulfan II	OK	0		1							
	4,4'-DDD	OK	0		1							
	Endo.sulfate	OK	0		1							
	4,4'-DDT	OK	85937	21.2	1		17.902					
	Methoxychlor	OK	0		1							
	Endrin ketone	OK	0		1							
	Endrin aldehyde	OK	0		1							
	a. Chlordane	OK	0		1							
	g. Chlordane	OK	0		1							
	Toxaphene	OK	0		1		0					
	AR1016	OK	0		1		0					
	AR1221	OK	0		1		0					
	AR1232	OK	0		1		0					
	AR1242	OK	0		1		0					
	AR1248	OK	0		1		0					
	AR1254	OK	0		1		0					
	AR1260	OK	0		1		0					

	TCX	OK	316820	25.0	1	2	3.378	200	30	2	N	13.333
	DCBP	OK	179860	32.3	1		24.668	200	30	2	N	13.333
SPM1*CDMHNSS*40	gamma-BHC	OK	532552	43.5	1	2	5.287	500	30	1	N	17.806
	Heptachlor	OK	615272	40.3	1	2	5.699	500	30	1	N	17.806
	Aldrin	OK	453306	38.3	1	2	6.29	500	30	1	N	17.806
	Dieldrin	OK	991092	85.4	1	2	10.064	1000	30	1	N	35.613
	Endrin	OK	937039	86.3	1	2	10.749	1000	30	1	N	35.613
	4,4'-DDT	OK	974320	107	1	2	13.368	1000	30	1	N	35.613
	TCX	OK	320544	25.3	1	2	3.377	200	30	2	N	13.333
	DCBP	OK	181777	32.7	1		24.668	200	30	2	N	13.333
SPM2*CDMHNSS*40	gamma-BHC	OK	496534	40.5	1	2	5.288	500	30	1	N	17.806
	Heptachlor	OK	582092	38.1	1	2	5.701	500	30	1	N	17.806
	Aldrin	OK	423585	35.8	1	2	6.291	500	30	1	N	17.806
	Dieldrin	OK	940168	81.0	1	2	10.067	1000	30	1	N	35.613
	Endrin	OK	888056	81.8	1	2	10.752	1000	30	1	N	35.613
	4,4'-DDT	OK	1076446	118	1	2	13.372	1000	30	1	N	35.613
	TCX	OK	346630	27.3	1	2	3.377	200	30	2	N	13.333
	DCBP	OK	176456	31.7	1		24.667	200	30	2	N	13.333
CCS*INDAM*4	alpha-BHC	OK	82642	24.3	1		6.833					20
	gamma-BHC	OK	86211	23.7	1		7.977					20
	Heptachlor	OK	127161	21.7	1		9.033					20
	Endosulfan I	OK	88276	22.5	1		13.957					20
	Dieldrin	OK	176884	44.3	1		15.183					40
	Endrin	OK	160711	43.5	1		16.469					40
	4,4'-DDD	OK	133408	43.3	1		16.976					40
	4,4'-DDT	OK	171162	42.2	1		17.902					40
	Methoxychlor	OK	705006	211	1		20.411					200
	TCX	OK	100402	21.4	1		5.19					20
	DCBP	OK	236117	42.4	1		24.666					40
CCS*INDAM*4*C	alpha-BHC	OK	258935	22.0	1	2	4.592					20
	gamma-BHC	OK	263317	21.5	1	2	5.287					20
	Heptachlor	OK	325010	21.3	1	2	5.699					20
	Endosulfan I	OK	262455	21.2	1	2	8.837					20
	Dieldrin	OK	492778	42.4	1	2	10.065					40
	Endrin	OK	465188	42.9	1	2	10.75					40
	4,4'-DDD	OK	304093	43.2	1	2	12.705					40
	4,4'-DDT	OK	395440	43.5	1	2	13.368					40
	Methoxychlor	OK	1242258	213	1	2	15.823					200
	TCX	OK	228224	18.0	1	2	3.377					20
	DCBP	OK	597132	41.9	1	2	19.008					40
CCS*INDBM*4	beta-BHC	OK	58323	22.5	1		8.198					20
	delta-BHC	OK	70932	23.5	1		9.439					20
	Aldrin	OK	89186	21.4	1		10.2					20
	Hept. epoxide	OK	97076	21.9	1		12.456					20
	4,4'-DDE	OK	163388	42.5	1		15.013					40
	Endosulfan II	OK	154663	46.0	1		17.089					40
	Endo.sulfate	OK	172313	44.0	1		18.498					40
	Endrin ketone	OK	163524	45.4	1		20.609					40
	Endrin aldehyde	OK	132750	44.0	1		18.131					40
	a. Chlordane	OK	113450	20.9	1		13.876					20
	g. Chlordane	OK	115433	21.2	1		13.158					20
	TCX	OK	97754	20.8	1		5.191					20
	DCBP	OK	230025	41.3	1		24.668					40
CCS*INDBM*4*C	beta-BHC	OK	150365	21.3	1	2	6.997					20
	delta-BHC	OK	219816	21.0	1	2	7.618					20
	Aldrin	OK	248899	21.0	1	2	6.289					20
	Hept. epoxide	OK	277353	20.6	1	2	8.047					20
	4,4'-DDE	OK	363997	42.1	1	2	9.684					40
	Endosulfan II	OK	477955	41.6	1	2	12.68					40
	Endo.sulfate	OK	440570	41.9	1	2	15.467					40
	Endrin ketone	OK	468312	42.0	1	2	16.636					40
	Endrin aldehyde	OK	297667	41.2	1	2	14.336					40
	a. Chlordane	OK	288002	21.4	1	2	9.252					20
	g. Chlordane	OK	282923	20.8	1	2	9.071					20
	TCX	OK	254582	20.1	1	2	3.377					20
	DCBP	OK	593712	41.6	1	2	19.004					40

HOLDING TIMES CHECK

SAMPLE	ANALYTE	ANL DATE	EXT DATE	SMP DATE	H.T. OVER

ALL HOLDING TIMES MET

STORET: 39076 METHOD: CLP90 alpha-BHC, UG/KG-DRY MRF

CALIBRATION CURVE # 1
DETECTION LIMIT=5 DATE: 06/13/94 LARGEST RESP=1084672 %RSD= RT WINDOW:

CONC :	5	20	80
RESP :	16801	68098	321734
CONC':			
R.T.:	6.844	6.844	6.845

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2
DETECTION LIMIT=5 DATE: 06/13/94 LARGEST RESP=793595.50 %RSD= RT WINDOW:

CONC :	5	20	80
RESP :	54564	234876	1166125
CONC':			
R.T.:	4.596	4.598	4.599

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%	
INDAM*2	21.6	20.0	8.0	
INDAM*2*C	21.1	20.0	5.5	
INDBM*2	NA	0.0		
INDBM*2*C	NA	0.0		
INDAM*3	23.4	20.0	17.0	
INDAM*3*C	21.4	20.0	7.0	
INDBM*3	NA	0.0		
INDBM*3*C	NA	0.0		
INDAM*4	24.3	20.0	21.5	Percent Difference exceeds criteria. (>20)
INDAM*4*C	22.0	20.0	10.0	
INDBM*4	NA	0.0		
INDBM*4*C	NA	0.0		

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 34257 METHOD: CLP90 beta-BHC, UG/KG-DRY MRF

CALIBRATION CURVE # 1
DETECTION LIMIT=5 DATE: 06/13/94 LARGEST RESP=566292 %RSD= RT WINDOW:

CONC :	5	20	80
RESP :	13264	51909	225397
CONC':			
R.T.:	8.209	8.209	8.209

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2
DETECTION LIMIT=5 DATE: 06/13/94 LARGEST RESP=150994(USER DEFINED) %RSD= RT WINDOW:

CONC :	5	20	80
RESP :	36910	140927	558840
CONC':			
R.T.:	7.010	7.010	7.010

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	NA	0.0	
INDAM*2*C	NA	0.0	

INDBM*2	21.4	20.0	7.0
INDBM*2*C	22.0	20.0	10.0
INDAM*3	NA	0.0	
INDAM*3*C	NA	0.0	
INDBM*3	21.7	20.0	8.5
INDBM*3*C	20.8	20.0	4.0
INDAM*4	NA	0.0	
INDAM*4*C	NA	0.0	
INDBM*4	22.5	20.0	12.5
INDBM*4*C	21.3	20.0	6.5

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 34262 METHOD: CLP90 delta-BHC, UG/KG-DRY MRF

CALIBRATION CURVE # 1
DETECTION LIMIT=5 DATE: 06/13/94 LARGEST RESP=1019397 %RSD= RT WINDOW:

CONC :	5	20	80
RESP :	15336	60350	274039
CONC':			
R.T.:	9.452	9.453	9.453

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2
DETECTION LIMIT=5 DATE: 06/13/94 LARGEST RESP=212357(USER DEFINED) %RSD= RT WINDOW:

CONC :	5	20	80
RESP :	47318	209320	1027606
CONC':			
R.T.:	7.629	7.629	7.632

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	NA	0.0	
INDAM*2*C	NA	0.0	
INDBM*2	21.9	20.0	9.5
INDBM*2*C	21.1	20.0	5.5
INDAM*3	NA	0.0	
INDAM*3*C	NA	0.0	
INDBM*3	22.4	20.0	12.0
INDBM*3*C	20.8	20.0	4.0
INDAM*4	NA	0.0	
INDAM*4*C	NA	0.0	
INDBM*4	23.5	20.0	17.5
INDBM*4*C	21.0	20.0	5.0

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 39783 METHOD: CLP90 gamma-BHC (Lindane), UG/KG-DRY MRF

CALIBRATION CURVE # 1
DETECTION LIMIT=5 DATE: 06/13/94 LARGEST RESP=420690.50 %RSD= RT WINDOW:

CONC :	5	20	80
RESP :	17768	72783	334816
CONC':			
R.T.:	7.992	7.991	7.992

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2
DETECTION LIMIT=5 DATE: 06/13/94 LARGEST RESP=760314.50 %RSD= RT WINDOW:

CONC :	5	20	80
RESP :	59122	245097	1142031
CONC':			
R.T.:	5.293	5.294	5.295

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	21.2	20.0	6.0
INDAM*2*C	20.8	20.0	4.0
INDBM*2	NA	0.0	
INDBM*2*C	NA	0.0	
INDAM*3	23.2	20.0	16.0
INDAM*3*C	21.0	20.0	5.0
INDBM*3	NA	0.0	
INDBM*3*C	NA	0.0	
INDAM*4	23.7	20.0	18.5
INDAM*4*C	21.5	20.0	7.5
INDBM*4	NA	0.0	
INDBM*4*C	NA	0.0	

SAMPLE MATRIX SPIKE(S)

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.
SPM1*CDMHNSS*40	0.0	15.5	15.5	17.8	87.1	
SPM2*CDMHNSS*40	0.0	14.4	14.4	17.8	80.9	7.4

STORET: 39413 METHOD: CLP90 Heptachlor, UG/KG-DRY MRF

CALIBRATION CURVE # 1
DETECTION LIMIT=5 DATE: 06/13/94 LARGEST RESP=433933.00 %RSD= RT WINDOW:

CONC :	5	20	80
RESP :	30142	117035	508653
CONC':			
R.T.:	9.050	9.048	9.051

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2
DETECTION LIMIT=5 DATE: 06/13/94 LARGEST RESP=765681.50 %RSD= RT WINDOW:

CONC :	5	20	80
RESP :	82220	305423	1224444
CONC':			
R.T.:	5.706	5.706	5.707

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	20.2	20.0	1.0
INDAM*2*C	20.5	20.0	2.5
INDBM*2	NA	0.0	
INDBM*2*C	NA	0.0	
INDAM*3	23.1	20.0	15.5
INDAM*3*C	20.7	20.0	3.5
INDBM*3	NA	0.0	
INDBM*3*C	NA	0.0	
INDAM*4	21.7	20.0	8.5
INDAM*4*C	21.3	20.0	6.5
INDBM*4	NA	0.0	
INDBM*4*C	NA	0.0	

SAMPLE MATRIX SPIKE(S)

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.
SPM1*CDMHNSS*40	0.0	14.3	14.3	17.8	80.3	
SPM2*CDMHNSS*40	0.0	13.6	13.6	17.8	76.4	5.0

STORET: 39333 METHOD: CLP90 Aldrin, UG/KG-DRY MRF

CALIBRATION CURVE # 1
DETECTION LIMIT=5 DATE: 06/13/94 LARGEST RESP=1032530 %RSD= RT WINDOW:

```
 CONC :          5         20         80
 RESP :      19930      83396     421327
 CONC':
  R.T.:    10.215     10.216     10.218

  CONC    =              +             *RESP+             *RESP**2+             *RESP**3
  95% C.I.=
  CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2
  DETECTION LIMIT=5  DATE: 06/13/94  LARGEST RESP=238381(USER DEFINED)  %RSD=  RT WINDOW:
 CONC :          5         20         80
 RESP :      57733     236852    1063746
 CONC':
  R.T.:     6.297      6.298      6.299

  CONC    =              +             *RESP+             *RESP**2+             *RESP**3
  95% C.I.=
  CORRELATION COEFFICIENT =
```

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	NA	0.0	
INDAM*2*C	NA	0.0	
INDBM*2	20.8	20.0	4.0
INDBM*2*C	20.9	20.0	4.5
INDAM*3	NA	0.0	
INDAM*3*C	NA	0.0	
INDBM*3	20.8	20.0	4.0
INDBM*3*C	20.5	20.0	2.5
INDAM*4	NA	0.0	
INDAM*4*C	NA	0.0	
INDBM*4	21.4	20.0	7.0
INDBM*4*C	21.0	20.0	5.0

SAMPLE MATRIX SPIKE(S)

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.
SPM1*CDMHNSS*40	0.0	13.6	13.6	17.8	76.4	
SPM2*CDMHNSS*40	0.0	12.7	12.7	17.8	71.3	6.9

STORET: 39423 METHOD: CLP90 Heptachlor epoxide, UG/KG-DRY MRF

```
CALIBRATION CURVE # 1
  DETECTION LIMIT=5  DATE: 06/13/94  LARGEST RESP=432320.06 %RSD=  RT WINDOW:
 CONC :          5         20         80
 RESP :      23294      88632     395669
 CONC':
  R.T.:    12.474     12.474     12.477

  CONC    =              +             *RESP+             *RESP**2+             *RESP**3
  95% C.I.=
  CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2
  DETECTION LIMIT=5  DATE: 06/13/94  LARGEST RESP=269363(USER DEFINED)  %RSD=  RT WINDOW:
 CONC :          5         20         80
 RESP :      69182     268659    1079652
 CONC':
  R.T.:     8.058      8.058      8.059

  CONC    =              +             *RESP+             *RESP**2+             *RESP**3
  95% C.I.=
  CORRELATION COEFFICIENT =
```

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	NA	0.0	
INDAM*2*C	NA	0.0	
INDBM*2	20.8	20.0	4.0
INDBM*2*C	20.7	20.0	3.5
INDAM*3	NA	0.0	
INDAM*3*C	NA	0.0	

INDBM*3	20.9	20.0	4.5
INDBM*3*C	20.2	20.0	1.0
INDAM*4	NA	0.0	
INDAM*4*C	NA	0.0	
INDBM*4	21.9	20.0	9.5
INDBM*4*C	20.6	20.0	3.0

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 34364 METHOD: CLP90 Endosulfan I, UG/KG-DRY MRF

CALIBRATION CURVE # 1
DETECTION LIMIT=5 DATE: 06/13/94 LARGEST RESP=350246.50 %RSD= RT WINDOW:

CONC :	5	20	80
RESP :	20244	78574	339207
CONC':			
R.T.:	13.980	13.976	13.979

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2
DETECTION LIMIT=5 DATE: 06/13/94 LARGEST RESP=643625.50 %RSD= RT WINDOW:

CONC :	5	20	80
RESP :	70328	247356	1026736
CONC':			
R.T.:	8.849	8.849	8.849

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	20.3	20.0	1.5
INDAM*2*C	20.4	20.0	2.0
INDBM*2	NA	0.0	
INDBM*2*C	NA	0.0	
INDAM*3	21.0	20.0	5.0
INDAM*3*C	20.8	20.0	4.0
INDBM*3	NA	0.0	
INDBM*3*C	NA	0.0	
INDAM*4	22.5	20.0	12.5
INDAM*4*C	21.2	20.0	6.0
INDBM*4	NA	0.0	
INDBM*4*C	NA	0.0	

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 39383 METHOD: CLP90 Dieldrin, UG/KG-DRY MRF

CALIBRATION CURVE # 1
DETECTION LIMIT=10 DATE: 06/13/94 LARGEST RESP=735074.00 %RSD= RT WINDOW:

CONC :	10	40	160
RESP :	38134	159784	857638
CONC':			
R.T.:	15.201	15.201	15.204

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2
DETECTION LIMIT=10 DATE: 06/13/94 LARGEST RESP=1326938.50 %RSD= RT WINDOW:

CONC :	10	40	160
RESP :	117228	464478	2032680
CONC':			
R.T.:	10.080	10.079	10.079

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	40.1	40.0	0.2
INDAM*2*C	40.9	40.0	2.3
INDBM*2	NA	0.0	
INDBM*2*C	NA	0.0	
INDAM*3	40.8	40.0	2.0
INDAM*3*C	41.2	40.0	3.0
INDBM*3	NA	0.0	
INDBM*3*C	NA	0.0	
INDAM*4	44.3	40.0	10.8
INDAM*4*C	42.4	40.0	6.0
INDBM*4	NA	0.0	
INDBM*4*C	NA	0.0	

SAMPLE MATRIX SPIKE(S)

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.
SPM1*CDMHNSS*40	0.0	30.4	30.4	35.6	85.4	
SPM2*CDMHNSS*40	0.0	28.8	28.8	35.6	80.9	5.4

STORET: 39321 METHOD: CLP90 4,4'-DDE, UG/KG-DRY MRF

CALIBRATION CURVE # 1

DETECTION LIMIT=10 DATE: 06/13/94 LARGEST RESP=786312.50 %RSD= RT WINDOW:

CONC :	10	40	160
RESP :	37056	153705	877082
CONC':			
R.T.:	15.029	15.030	15.034

CONC = + *RESP+ *RESP**2+ *RESP**3

95% C.I.=

CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2

DETECTION LIMIT=10 DATE: 06/13/94 LARGEST RESP=452598(USER DEFINED) %RSD= RT WINDOW:

CONC :	10	40	160
RESP :	83168	345996	1650624
CONC':			
R.T.:	9.698	9.699	9.700

CONC = + *RESP+ *RESP**2+ *RESP**3

95% C.I.=

CORRELATION COEFFICIENT =

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	NA	0.0	
INDAM*2*C	NA	0.0	
INDBM*2	41.0	40.0	2.5
INDBM*2*C	44.1	40.0	10.3
INDAM*3	NA	0.0	
INDAM*3*C	NA	0.0	
INDBM*3	40.6	40.0	1.5
INDBM*3*C	42.5	40.0	6.3
INDAM*4	NA	0.0	
INDAM*4*C	NA	0.0	
INDBM*4	42.5	40.0	6.3
INDBM*4*C	42.1	40.0	5.3

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 39393 METHOD: CLP90 Endrin, UG/KG-DRY MRF

CALIBRATION CURVE # 1

DETECTION LIMIT=10 DATE: 06/13/94 LARGEST RESP=746274.75 %RSD= RT WINDOW:

CONC :	10	40	160
RESP :	34376	147787	789752
CONC':			
R.T.:	16.486	16.485	16.488

CONC = + *RESP+ *RESP**2+ *RESP**3

95% C.I.=
CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2
DETECTION LIMIT=10 DATE: 06/13/94 LARGEST RESP=1361522.00 %RSD= RT WINDOW:

CONC :	10	40	160
RESP :	109827	434082	1889415
CONC':			
R.T.:	10.765	10.766	10.764

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	40.0	40.0	0.0
INDAM*2*C	41.1	40.0	2.8
INDBM*2	NA	0.0	
INDBM*2*C	NA	0.0	
INDAM*3	45.5	40.0	13.8
INDAM*3*C	41.7	40.0	4.3
INDBM*3	NA	0.0	
INDBM*3*C	NA	0.0	
INDAM*4	43.5	40.0	8.8
INDAM*4*C	42.9	40.0	7.3
INDBM*4	NA	0.0	
INDBM*4*C	NA	0.0	

SAMPLE MATRIX SPIKE(S)

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	RELDIFF.
SPM1*CDMHNSS*40	0.0	30.8	30.8	35.6	86.5	
SPM2*CDMHNSS*40	0.0	29.1	29.1	35.6	81.7	5.7

STORET: 34359 METHOD: CLP90 Endosulfan II, UG/KG-DRY MRF

CALIBRATION CURVE # 1
DETECTION LIMIT=10 DATE: 06/13/94 LARGEST RESP=1372087 %RSD= RT WINDOW:

CONC :	10	40	160
RESP :	34795	134386	615486
CONC':			
R.T.:	17.101	17.101	17.104

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2
DETECTION LIMIT=10 DATE: 06/13/94 LARGEST RESP=1417602(USER DEFINED) %RSD= RT WINDOW:

CONC :	10	40	160
RESP :	117470	459371	1940217
CONC':			
R.T.:	12.700	12.699	12.701

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	NA	0.0	
INDAM*2*C	NA	0.0	
INDBM*2	42.1	40.0	5.3
INDBM*2*C	42.2	40.0	5.5
INDAM*3	NA	0.0	
INDAM*3*C	NA	0.0	
INDBM*3	43.3	40.0	8.3
INDBM*3*C	41.3	40.0	3.3
INDAM*4	NA	0.0	
INDAM*4*C	NA	0.0	
INDBM*4	46.0	40.0	15.0
INDBM*4*C	41.6	40.0	4.0

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 39311 METHOD: CLP90 4,4'-DDD, UG/KG-DRY MRF

CALIBRATION CURVE # 1
DETECTION LIMIT=10 DATE: 06/13/94 LARGEST RESP=506672.00 %RSD= RT WINDOW:

CONC :	10	40	160
RESP :	29893	123304	610750
CONC':			
R.T.:	16.991	16.990	16.991

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2
DETECTION LIMIT=10 DATE: 06/13/94 LARGEST RESP=339752(USER DEFINED) %RSD= RT WINDOW:

CONC :	10	40	160
RESP :	69892	281380	1510889
CONC':			
R.T.:	12.723	12.725	12.722

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	39.2	40.0	-2.0
INDAM*2*C	41.5	40.0	3.8
INDBM*2	NA	0.0	
INDBM*2*C	NA	0.0	
INDAM*3	40.9	40.0	2.3
INDAM*3*C	42.4	40.0	6.0
INDBM*3	NA	0.0	
INDBM*3*C	NA	0.0	
INDAM*4	43.3	40.0	8.3
INDAM*4*C	43.2	40.0	8.0
INDBM*4	NA	0.0	
INDBM*4*C	NA	0.0	

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 34354 METHOD: CLP90 Endosulfan sulfate, UG/KG-DRY MRF

CALIBRATION CURVE # 1
DETECTION LIMIT=10 DATE: 06/13/94 LARGEST RESP=675025.44 %RSD= RT WINDOW:

CONC :	10	40	160
RESP :	38180	156663	766094
CONC':			
R.T.:	18.510	18.512	18.515

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2
DETECTION LIMIT=10 DATE: 06/13/94 LARGEST RESP=1253101(USER DEFINED) %RSD= RT WINDOW:

CONC :	10	40	160
RESP :	106246	420417	1712488
CONC':			
R.T.:	15.485	15.486	15.486

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%

INDAM*2	NA	0.0	
INDAM*2*C	NA	0.0	
INDBM*2	41.2	40.0	3.0
INDBM*2*C	41.6	40.0	4.0
INDAM*3	NA	0.0	
INDAM*3*C	NA	0.0	
INDBM*3	40.7	40.0	1.8
INDBM*3*C	41.4	40.0	3.5
INDAM*4	NA	0.0	
INDAM*4*C	NA	0.0	
INDBM*4	44.0	40.0	10.0
INDBM*4*C	41.9	40.0	4.8

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 39301 METHOD: CLP90 4,4'-DDT, UG/KG-DRY MRF

CALIBRATION CURVE # 1
DETECTION LIMIT=10 DATE: 06/13/94 LARGEST RESP=628171.13 %RSD= RT WINDOW:

CONC :	10	40	160
RESP :	36634	162210	847960
CONC':			
R.T.:	17.917	17.917	17.919

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2
DETECTION LIMIT=10 DATE: 06/13/94 LARGEST RESP=920446.50 %RSD= RT WINDOW:

CONC :	10	40	160
RESP :	87653	363784	1704644
CONC':			
R.T.:	13.385	13.389	13.389

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	38.9	40.0	-2.8
INDAM*2*C	41.8	40.0	4.5
INDBM*2	NA	0.0	
INDBM*2*C	NA	0.0	
INDAM*3	41.1	40.0	2.8
INDAM*3*C	42.2	40.0	5.5
INDBM*3	NA	0.0	
INDBM*3*C	NA	0.0	
INDAM*4	42.2	40.0	5.5
INDAM*4*C	43.5	40.0	8.8
INDBM*4	NA	0.0	
INDBM*4*C	NA	0.0	

SAMPLE MATRIX SPIKE(S)

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.
SPM1*CDMHNSS*40	7.55	38.2	30.7	35.6	86.2	
SPM2*CDMHNSS*40	7.55	42.2	34.7	35.6	97.5	12.3

STORET: 39481 METHOD: CLP90 Methoxychlor, UG/KG-DRY MRF

CALIBRATION CURVE # 1
DETECTION LIMIT=50 DATE: 06/13/94 LARGEST RESP=1684549.00 %RSD= RT WINDOW:

CONC :	50	200	800
RESP :	152366	667379	2790567
CONC':			
R.T.:	20.424	20.423	20.423

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2
DETECTION LIMIT=50 DATE: 06/13/94 LARGEST RESP=3130260.75 %RSD= RT WINDOW:

CONC :	50	200	800

RESP :	305356	1165680	4215003
CONC':			
R.T.:	15.836	15.837	15.836

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	198	200	-1.0
INDAM*2*C	207	200	3.5
INDBM*2	NA	0.0	
INDBM*2*C	NA	0.0	
INDAM*3	200	200	0.0
INDAM*3*C	210	200	5.0
INDBM*3	NA	0.0	
INDBM*3*C	NA	0.0	
INDAM*4	211	200	5.5
INDAM*4*C	213	200	6.5
INDBM*4	NA	0.0	
INDBM*4*C	NA	0.0	

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 98591 METHOD: CLP90 Endrin ketone, UG/KG-DRY MRF

CALIBRATION CURVE # 1
DETECTION LIMIT=10 DATE: 06/13/94 LARGEST RESP=812739.38 %RSD= RT WINDOW:

CONC :	10	40	160
RESP :	34779	144200	627763
CONC':			
R.T.:	20.621	20.621	20.621

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2
DETECTION LIMIT=10 DATE: 06/13/94 LARGEST RESP=1362709(USER DEFINED) %RSD= RT WINDOW:

CONC :	10	40	160
RESP :	104106	446038	1913928
CONC':			
R.T.:	16.654	16.653	16.655

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	NA	0.0	
INDAM*2*C	NA	0.0	
INDBM*2	42.9	40.0	7.3
INDBM*2*C	41.7	40.0	4.3
INDAM*3	NA	0.0	
INDAM*3*C	NA	0.0	
INDBM*3	41.1	40.0	2.8
INDBM*3*C	41.4	40.0	3.5
INDAM*4	NA	0.0	
INDAM*4*C	NA	0.0	
INDBM*4	45.4	40.0	13.5
INDBM*4*C	42.0	40.0	5.0

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 34369 METHOD: CLP90 Endrin aldehyde, UG/KG-DRY MRF

CALIBRATION CURVE # 1
DETECTION LIMIT=10 DATE: 06/13/94 LARGEST RESP=520752.91 %RSD= RT WINDOW:

```
CONC :        10        40       160
RESP :     30234    120667    519592
CONC':
 R.T.:   18.142    18.143    18.145

 CONC    =              +             *RESP+            *RESP**2+            *RESP**3
 95% C.I.=
 CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2
 DETECTION LIMIT=10  DATE: 06/13/94  LARGEST RESP=932645(USER DEFINED)  %RSD=  RT WINDOW:
CONC :        10        40       160
RESP :     71650    288998   1221970
CONC':
 R.T.:   14.354    14.354    14.355

 CONC    =              +             *RESP+            *RESP**2+            *RESP**3
 95% C.I.=
 CORRELATION COEFFICIENT =
```

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	NA	0.0	
INDAM*2*C	NA	0.0	
INDBM*2	40.0	40.0	0.0
INDBM*2*C	42.1	40.0	5.3
INDAM*3	NA	0.0	
INDAM*3*C	NA	0.0	
INDBM*3	40.9	40.0	2.3
INDBM*3*C	41.1	40.0	2.8
INDAM*4	NA	0.0	
INDAM*4*C	NA	0.0	
INDBM*4	44.0	40.0	10.0
INDBM*4*C	41.2	40.0	3.0

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 97501 METHOD: CLP90 alpha-Chlordane, UG/KG-DRY MRF

```
CALIBRATION CURVE # 1
 DETECTION LIMIT=5  DATE: 06/13/94  LARGEST RESP=327195 %RSD=  RT WINDOW:
CONC :         5        20        80
RESP :     27180    108506    485102
CONC':
 R.T.:   13.895    13.895    13.898

 CONC    =              +             *RESP+            *RESP**2+            *RESP**3
 95% C.I.=
 CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2
 DETECTION LIMIT=5  DATE: 06/13/94  LARGEST RESP=345818(USER DEFINED)  %RSD=  RT WINDOW:
CONC :         5        20        80
RESP :     71653    268838   1111063
CONC':
 R.T.:    9.264     9.266     9.266

 CONC    =              +             *RESP+            *RESP**2+            *RESP**3
 95% C.I.=
 CORRELATION COEFFICIENT =
```

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	NA	0.0	
INDAM*2*C	NA	0.0	
INDBM*2	20.1	20.0	0.5
INDBM*2*C	20.9	20.0	4.5
INDAM*3	NA	0.0	
INDAM*3*C	NA	0.0	
INDBM*3	20.3	20.0	1.5
INDBM*3*C	21.1	20.0	5.5

INDAM*4	NA	0.0	
INDAM*4*C	NA	0.0	
INDBM*4	20.9	20.0	4.5
INDBM*4*C	21.4	20.0	7.0

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 39811 METHOD: CLP90 gamma-Chlordane, UG/KG-DRY MRF

CALIBRATION CURVE # 1
DETECTION LIMIT=5 DATE: 06/13/94 LARGEST RESP=329703(USER DEFINED) %RSD= RT WINDOW:

CONC :	5	20	80
RESP :	28678	108836	485996
CONC':			
R.T.:	13.176	13.179	13.178

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2
DETECTION LIMIT=5 DATE: 06/13/94 LARGEST RESP=277097(USER DEFINED) %RSD= RT WINDOW:

CONC :	5	20	80
RESP :	72427	271812	1103193
CONC':			
R.T.:	9.084	9.083	9.084

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	NA	0.0	
INDAM*2*C	NA	0.0	
INDBM*2	20.4	20.0	2.0
INDBM*2*C	21.1	20.0	5.5
INDAM*3	NA	0.0	
INDAM*3*C	NA	0.0	
INDBM*3	20.3	20.0	1.5
INDBM*3*C	20.5	20.0	2.5
INDAM*4	NA	0.0	
INDAM*4*C	NA	0.0	
INDBM*4	21.2	20.0	6.0
INDBM*4*C	20.8	20.0	4.0

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 39403 METHOD: CLP90 Toxaphene, UG/KG-DRY FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT=500 DATE: 06/13/94 LARGEST RESP= %RSD= RT WINDOW:

CALIBRATION CURVE # 2
DETECTION LIMIT=500 DATE: 06/13/94 LARGEST RESP= %RSD= RT WINDOW:

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	NA	0.0	
INDAM*2*C	NA	0.0	
INDBM*2	NA	0.0	
INDBM*2*C	NA	0.0	
INDAM*3	NA	0.0	
INDAM*3*C	NA	0.0	
INDBM*3	NA	0.0	
INDBM*3*C	NA	0.0	
INDAM*4	NA	0.0	
INDAM*4*C	NA	0.0	
INDBM*4	NA	0.0	
INDBM*4*C	NA	0.0	

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 39514 METHOD: CLP90 Aroclor-1016, UG/KG-DRY FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT=100 DATE: 06/13/94 LARGEST RESP= %RSD= RT WINDOW:

CALIBRATION CURVE # 2
DETECTION LIMIT=100 DATE: 06/13/94 LARGEST RESP= %RSD= RT WINDOW:

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	NA	0.0	
INDAM*2*C	NA	0.0	
INDBM*2	NA	0.0	
INDBM*2*C	NA	0.0	
INDAM*3	NA	0.0	
INDAM*3*C	NA	0.0	
INDBM*3	NA	0.0	
INDBM*3*C	NA	0.0	
INDAM*4	NA	0.0	
INDAM*4*C	NA	0.0	
INDBM*4	NA	0.0	
INDBM*4*C	NA	0.0	

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 39491 METHOD: CLP90 Aroclor-1221, UG/KG-DRY FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT=200 DATE: 06/13/94 LARGEST RESP= %RSD= RT WINDOW:

CALIBRATION CURVE # 2
DETECTION LIMIT=200 DATE: 06/13/94 LARGEST RESP= %RSD= RT WINDOW:

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	NA	0.0	
INDAM*2*C	NA	0.0	
INDBM*2	NA	0.0	
INDBM*2*C	NA	0.0	
INDAM*3	NA	0.0	
INDAM*3*C	NA	0.0	
INDBM*3	NA	0.0	
INDBM*3*C	NA	0.0	
INDAM*4	NA	0.0	
INDAM*4*C	NA	0.0	
INDBM*4	NA	0.0	
INDBM*4*C	NA	0.0	

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 39495 METHOD: CLP90 Aroclor-1232, UG/KG-DRY FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT=100 DATE: 06/13/94 LARGEST RESP= %RSD= RT WINDOW:

CALIBRATION CURVE # 2
DETECTION LIMIT=100 DATE: 06/13/94 LARGEST RESP= %RSD= RT WINDOW:

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	NA	0.0	
INDAM*2*C	NA	0.0	

INDBM*2	NA	0.0
INDBM*2*C	NA	0.0
INDAM*3	NA	0.0
INDAM*3*C	NA	0.0
INDBM*3	NA	0.0
INDBM*3*C	NA	0.0
INDAM*4	NA	0.0
INDAM*4*C	NA	0.0
INDBM*4	NA	0.0
INDBM*4*C	NA	0.0

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 39499 METHOD: CLP90 Aroclor-1242, UG/KG-DRY FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT=100 DATE: 06/13/94 LARGEST RESP= %RSD= RT WINDOW:

CALIBRATION CURVE # 2
DETECTION LIMIT=100 DATE: 06/13/94 LARGEST RESP= %RSD= RT WINDOW:

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	NA	0.0	
INDAM*2*C	NA	0.0	
INDBM*2	NA	0.0	
INDBM*2*C	NA	0.0	
INDAM*3	NA	0.0	
INDAM*3*C	NA	0.0	
INDBM*3	NA	0.0	
INDBM*3*C	NA	0.0	
INDAM*4	NA	0.0	
INDAM*4*C	NA	0.0	
INDBM*4	NA	0.0	
INDBM*4*C	NA	0.0	

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 39503 METHOD: CLP90 Aroclor-1248, UG/KG-DRY FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT=100 DATE: 06/13/94 LARGEST RESP= %RSD= RT WINDOW:

CALIBRATION CURVE # 2
DETECTION LIMIT=100 DATE: 06/13/94 LARGEST RESP= %RSD= RT WINDOW:

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	NA	0.0	
INDAM*2*C	NA	0.0	
INDBM*2	NA	0.0	
INDBM*2*C	NA	0.0	
INDAM*3	NA	0.0	
INDAM*3*C	NA	0.0	
INDBM*3	NA	0.0	
INDBM*3*C	NA	0.0	
INDAM*4	NA	0.0	
INDAM*4*C	NA	0.0	
INDBM*4	NA	0.0	
INDBM*4*C	NA	0.0	

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 39507 METHOD: CLP90 Aroclor-1254, UG/KG-DRY FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT=100 DATE: 06/13/94 LARGEST RESP= %RSD= RT WINDOW:

CALIBRATION CURVE # 2

DETECTION LIMIT=100 DATE: 06/13/94 LARGEST RESP= %RSD= RT WINDOW:

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	NA	0.0	
INDAM*2*C	NA	0.0	
INDBM*2	NA	0.0	
INDBM*2*C	NA	0.0	
INDAM*3	NA	0.0	
INDAM*3*C	NA	0.0	
INDBM*3	NA	0.0	
INDBM*3*C	NA	0.0	
INDAM*4	NA	0.0	
INDAM*4*C	NA	0.0	
INDBM*4	NA	0.0	
INDBM*4*C	NA	0.0	

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 39511 METHOD: CLP90 Aroclor-1260, UG/KG-DRY FINAL

CALIBRATION CURVE # 1

DETECTION LIMIT=100 DATE: 06/13/94 LARGEST RESP= %RSD= RT WINDOW:

CALIBRATION CURVE # 2

DETECTION LIMIT=100 DATE: 06/13/94 LARGEST RESP= %RSD= RT WINDOW:

METHOD BLANK(S)

SAMPLE ID	CONCENTRATION
NONE*1	0.0

CONTINUING CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

STANDARD ID	CALC. CONC	KNOWN CONC	DIFFERENCE%
INDAM*2	NA	0.0	
INDAM*2*C	NA	0.0	
INDBM*2	NA	0.0	
INDBM*2*C	NA	0.0	
INDAM*3	NA	0.0	
INDAM*3*C	NA	0.0	
INDBM*3	NA	0.0	
INDBM*3*C	NA	0.0	
INDAM*4	NA	0.0	
INDAM*4*C	NA	0.0	
INDBM*4	NA	0.0	
INDBM*4*C	NA	0.0	

SAMPLE MATRIX SPIKE(S) *** Optional Quality Control Check ***

SAMPLE ID	UNSP CONC	SPK CONC	FOUND	TARGET	% RECV	REL%DIFF.

STORET: 96999 METHOD: SUR TETRACHLORO-M-XYLENE (CLP90), UG/KG MRF

CALIBRATION CURVE # 1

DETECTION LIMIT=5 DATE: 06/13/94 LARGEST RESP=437440(USER DEFINED) %RSD= RT WINDOW:

CONC :	5	5	20	20	80	80
RESP :	22279	22424	94012	92941	430128	437440
CONC':						
R.T.:	5.198	5.197	5.198	5.197	5.198	5.199

CONC = + *RESP+ *RESP**2+ *RESP**3

95% C.I.=

CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2

DETECTION LIMIT=5 DATE: 06/13/94 LARGEST RESP=857813(USER DEFINED) %RSD= RT WINDOW:

CONC :	5	5	20	20	80	80
RESP :	59156	104439	253722	248826	857813	856696
CONC':						
R.T.:	3.380	3.379	3.380	3.380	3.380	3.380

CONC = + *RESP+ *RESP**2+ *RESP**3

95% C.I.=

CORRELATION COEFFICIENT =

STORET: 95000 METHOD: SUR DECACHLOROBIPHENYL, UG/KG MRF

CALIBRATION CURVE # 1
DETECTION LIMIT=10 DATE: 06/13/94 LARGEST RESP=974245(USER DEFINED) %RSD= RT WINDOW:

CONC :	10	10	40	40	160	160
RESP :	57624	57396	222626	218387	956976	974245
CONC':						
R.T.:	24.693	24.688	24.692	24.693	24.697	24.694

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

CALIBRATION CURVE # 2
DETECTION LIMIT=10 DATE: 06/13/94 LARGEST RESP=2033016(USER DEFINED) %RSD= RT WINDOW:

CONC :	10	10	40	40	160	160
RESP :	152292	153277	570539	569889	2007734	2033016
CONC':						
R.T.:	19.018	19.019	19.018	19.016	19.016	19.018

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

SURROGATE SPIKE(S)

QC.TYPE*FG*SEQ	PARAMETER		FOUND	TARGET	% RECV
CCS*INDAM*2	96999*SUR TETRACHLORO-M-XYLENE {CLP90}	UG/KG	19.9	20.0	99.5
	95000*SUR DECACHLOROBIPHENYL	UG/KG	38.2	40.0	95.5
CCS*INDAM*2*C	96999*SUR TETRACHLORO-M-XYLENE {CLP90}	UG/KG	20.9	20.0	104.5
	95000*SUR DECACHLOROBIPHENYL	UG/KG	39.8	40.0	99.5
CCS*INDBM*2	96999*SUR TETRACHLORO-M-XYLENE {CLP90}	UG/KG	20.4	20.0	102.0
	95000*SUR DECACHLOROBIPHENYL	UG/KG	38.7	40.0	96.8
CCS*INDBM*2*C	96999*SUR TETRACHLORO-M-XYLENE {CLP90}	UG/KG	18.6	20.0	93.0
	95000*SUR DECACHLOROBIPHENYL	UG/KG	41.3	40.0	103.3
CCS*INDAM*3	96999*SUR TETRACHLORO-M-XYLENE {CLP90}	UG/KG	20.3	20.0	101.5
	95000*SUR DECACHLOROBIPHENYL	UG/KG	38.8	40.0	97.0
CCS*INDAM*3*C	96999*SUR TETRACHLORO-M-XYLENE {CLP90}	UG/KG	17.7	20.0	88.5
	95000*SUR DECACHLOROBIPHENYL	UG/KG	40.5	40.0	101.3
CCS*INDBM*3	96999*SUR TETRACHLORO-M-XYLENE {CLP90}	UG/KG	20.1	20.0	100.5
	95000*SUR DECACHLOROBIPHENYL	UG/KG	37.9	40.0	94.8
CCS*INDBM*3*C	96999*SUR TETRACHLORO-M-XYLENE {CLP90}	UG/KG	19.0	20.0	95.0
	95000*SUR DECACHLOROBIPHENYL	UG/KG	40.8	40.0	102.0
MB*NONE*1	96999*SUR TETRACHLORO-M-XYLENE {CLP90}	UG/KG	10.4	13.3	78.2
	95000*SUR DECACHLOROBIPHENYL	UG/KG	12.9	13.3	97.0
DA*CDMHNSS*40	96999*SUR TETRACHLORO-M-XYLENE {CLP90}	UG/KG	8.32	13.3	62.6
	95000*SUR DECACHLOROBIPHENYL	UG/KG	10.8	13.3	81.2
SPM1*CDMHNSS*40	96999*SUR TETRACHLORO-M-XYLENE {CLP90}	UG/KG	8.42	13.3	63.3
	95000*SUR DECACHLOROBIPHENYL	UG/KG	10.9	13.3	82.0
SPM2*CDMHNSS*40	96999*SUR TETRACHLORO-M-XYLENE {CLP90}	UG/KG	9.11	13.3	68.5
	95000*SUR DECACHLOROBIPHENYL	UG/KG	10.6	13.3	79.7
CCS*INDAM*4	96999*SUR TETRACHLORO-M-XYLENE {CLP90}	UG/KG	21.4	20.0	107.0
	95000*SUR DECACHLOROBIPHENYL	UG/KG	42.4	40.0	106.0
CCS*INDAM*4*C	96999*SUR TETRACHLORO-M-XYLENE {CLP90}	UG/KG	18.0	20.0	90.0
	95000*SUR DECACHLOROBIPHENYL	UG/KG	41.9	40.0	104.8
CCS*INDBM*4	96999*SUR TETRACHLORO-M-XYLENE {CLP90}	UG/KG	20.8	20.0	104.0
	95000*SUR DECACHLOROBIPHENYL	UG/KG	41.3	40.0	103.3
CCS*INDBM*4*C	96999*SUR TETRACHLORO-M-XYLENE {CLP90}	UG/KG	20.1	20.0	100.5
	95000*SUR DECACHLOROBIPHENYL	UG/KG	41.6	40.0	104.0

SAMPLE RESULTS

SAMPLE ID	9076*CLP90 alpha-BHC UG/KG-DRY	4257*CLP90 beta-BHC UG/KG-DRY	4262*CLP90 delta-BHC UG/KG-DRY	9783*CLP90 gamma-BHC (Lindane) UG/KG-DRY	9413*CLP90 Heptachlor UG/KG-DRY	9333*CLP90 Aldrin UG/KG-DRY	9423*CLP90 Heptachlor epoxide UG/KG-DRY	4364*CLP90 Endosulfan I UG/KG-DRY	9383*CLP90 Dieldrin UG/KG-DRY	9321*CLP90 4,4'-DDE UG/KG-DRY
MB*NONE*1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CDMHNSS*40	<1.78	<1.78	<1.78	<1.78	<1.78	<1.78	<1.78	<1.78	<3.56	<3.56

SAMPLE ID	9393*CLP90 Endrin UG/KG-DRY	4359*CLP90 Endosulfan II UG/KG-DRY	9311*CLP90 4,4'-DDD UG/KG-DRY	4354*CLP90 Endosulfan sulfate UG/KG-DRY	9301*CLP90 4,4'-DDT UG/KG-DRY	9481*CLP90 Methoxychlor UG/KG-DRY	8591*CLP90 Endrin ketone UG/KG-DRY	4369*CLP90 Endrin aldehyde UG/KG-DRY	7501*CLP90 alpha-Chlordane UG/KG-DRY	9811*CLP90 gamma-Chlordane UG/KG-DRY
MB*NONE*1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CDMHNSS*40	<3.56	<3.56	<3.56	<3.56	7.55	<17.8	<3.56	<3.56	<1.78	<1.78

SAMPLE ID	9403*CLP90 Toxaphene UG/KG-DRY	9514*CLP90 Aroclor-1016 UG/KG-DRY	9491*CLP90 Aroclor-1221 UG/KG-DRY	9495*CLP90 Aroclor-1232 UG/KG-DRY	9499*CLP90 Aroclor-1242 UG/KG-DRY	9503*CLP90 Aroclor-1248 UG/KG-DRY	9507*CLP90 Aroclor-1254 UG/KG-DRY	9511*CLP90 Aroclor-1260 UG/KG-DRY	96999*SUR TETRACHLORO-M-XYLENE UG/KG	95000*SUR DECACHLOROBIPHENYL UG/KG
MB*NONE*1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	12.9
CDMHNSS*40	<178	<35.6	<71.2	<35.6	<35.6	<35.6	<35.6	<35.6	8.32	10.8

UNITS AND EXAMPLE CALCULATIONS

	UNITS ENTERED
FINAL CONCENTRATION	UG/KG-DRY
INJECTION VOLUME	NA
SAMPLE VOLUME	G
EXTRACT VOLUME	ML
CURVE CONCENTRATION	NG/ML
SPIKE SOLN CONCENTRATION	NG/ML
SPIKE VOLUME	ML
SPIKE SAMPLE VOLUME	G
TARGET CONCENTRATION	NG/G
RESPONSE DESCRIPTION	PK AREA
CONVERSION FACTOR	NA

$$\text{FINAL CONC} = \frac{\text{CURV CONC} * \text{EXT VOL} * \text{DIL}}{\text{INJ VOL} * \text{SAMP VOL} * ((100 - \%\text{MOISTURE}) / 100)}$$

$$\text{UG/KG-DRY} = \frac{(\text{NG/ML}) * (\text{ML})}{(\text{NA}) * (\text{G})}$$

$$(\qquad) = \frac{(\qquad\qquad) * (\qquad\qquad) * (\qquad)}{(\qquad\qquad) * (\qquad\qquad) * ((100 - (\qquad\qquad)) / 100)}$$

$$\text{TARGET CONC} = \frac{\text{SPIKE SOLN CONC} * \text{SPIKE VOL}}{\text{SPIKE SAMP VOL} * ((100 - \%\text{MOISTURE}) / 100)}$$

$$\text{NG/G} = \frac{(\text{NG/ML}) * (\text{ML})}{(\text{G})}$$

Environmental Science and Engineering Analytical Services
Computer QC Checks

Batch No.: G50312 Analysis Date: 06/13/94 Analyst: LEE STEVENS

	Yes	"Exceptions" No	Comment / Corrective Action
Are ALL units documented in batch?	X		
Analysis holding time within criteria?	X		
Extract holding time within criteria?	X		
Sample retention times within retention time window?	X		
Method blank present?	X		
Method blank within acceptance criteria?	X		
Standard matrix spike present?		X	N/A LFS 6-21-94
Standard matrix spike within acceptance criteria?			
Sample matrix spike present?	X		
Sample matrix spike within acceptance criteria?	X		
Sample matrix spike duplicate present?	X		
Sample matrix spike duplicate within acceptance criteria?	X		
Surrogate present?	X		
Surrogate within acceptance criteria?	X		

Note: Any "NO" answer requires a comment.

Environmental Science and Engineering Analytical Services
Internal QA/QC Checklist For GC and HPLC Analysis

Batch No.: G50312 Analysis Date: 06/13/94 Analyst: LEE STEVENS

	N/A	Yes	"Exceptions" No	Comment / Corrective Action
Is the method blank free of contamination?		✓		
If not, has the data been blank corrected?	✓			
Are all analysis free of contamination from previous analysis?		✓		
If not, does the quality of the data remain unimpaired?	✓			
Are calibration curves entered correctly?		✓		
Are reported values consistent with the required units?		✓		
Are detection limits reported correctly?		✓		
Are dilution factors entered correctly?		✓		
Is the batch checked for data entry error(s)?		✓		
Have sufficient continuing calibration standards (CCS) been analyzed?	✓	✓		
If not, is an appropriate explanation provided?				
Are the CCS within criteria?	✓	✓		
If not, is an appropriate explanation provided?	✓			
Has second column confirmation been performed for all positive identifications made in the primary analysis?		✓		
Have they been performed within analysis holding time?		✓		
Is an example calculation provided?		✓		
Has the batch documentation checklist been completed?		✓		

Note: Any "NO" answer requires a comment.
Additional Comments:

Completed By LES
Date 6-7-94

Reviewed By [signature]
Date 6/22/94

Notification of appropriate Laboratory Coordinators required for "Exceptions":

Signature	Date	Comments
[signature]	6/23/94	

OVERRIDE COMMENTS

BATCH OVERRIDE BY:

9513356.0839

ESE ENVIRONMENTAL SCIENCE AND ENGINEERING, INC.

CHROMATOGRAPHIC ANALYSIS LOG

Date: 6-13-94
Analyst: Lee F Stevens
Project: D+M Carroll Island
Case No.: 79340546
Instrument ID: HP5890 3203A40609
Data System ID: Turbo 4.0
Analysis Type: CLP-Pest 3/90

COLUMN 'A' / 'B'		INJECTOR A/B		DETECTOR	
Length	30m	Type	on column	Type	ECD
OD	3288225 / 2495246	Temp °C	150-40m-250	Attn.	0
ID	.053	Volume	1uL	Range	1
Phase	DB 608 / DB 5701	Carrier Gas	He	Temp °C	300
Thickness	.83 / 1um	Type	UC	Make-up	5% CH4/Ar
Support	fused silica	Flow Rate	Constant 7/15 ml/min		
Loading	N/A				

Oven Temp. Initial 140 °C for 1 Min
Rate A 20 Final Temp A °C 190 for 0 Min
Rate B 3 / 8 Final B °C 220 / 275 for 0 / 14 Min.

Comments: QEXB 649744 // QEYB 649745 // PECD 649879 // 650312

[Lee tape 13]

Run No.	Sample No.	Run No.	Sample No.	Run No.	Sample No.
1	Resc 731:90	28	CIHZSD3 *6	55	CIHZSD3 *16
2	Resc ↓	29	*7	56	*17
3	IND AH 731:80	30	*8	57	CIHZS3 *28
4	↓ BH ↓	31	*9	58	*29
5	Hexane	32	*10	59	*30 Not acquire
6	Resc 731:90	33	*11	60	*31 Due to
7	PEM 731:91	34	↓ *12	61	*32 Power
8	AR 1660 731:90	35	Hexane	62	↓ *33 Failure
9	1221	36	PIBLK 731:90 2	63	Hexane LFS 6-15-94
10	1232	37	INDAM 1:80 2	64	PIBLK
11	1242	38	↓ BM ↓ 2	65	INDAM 3
12	1248	39	CIHZSD3 *4	66	↓ BM Acquired Spot 3
13	↓ 1254	40	Hexane	67	~~INDAM 731:80 3~~ PIBLK 731:90 3 *4
14	Toxaphene	41	SPM1 *CIHZSD3 *4	LFS 6-15-94 68	~~INDBM~~ AM ↓ 731:80 3 LFS 6-15-94
15	IND AL 90	42	Hexane	69	INDBM ↓ 3
16	BL	43	SPM2 *CIHZSD3 *4	70	CIHZSD3 *15
17	AM	44	Hexane	71	*16
18	BM	45	Hexane	72	↓ *17
19	AH	46	PIBLK 731:90 3	73	CIHZS3 *28
20	↓ BH	47	PEM 731:91 3	74	*29
21	PIBLK ↓ 90 1	48	MB+THAMA-QEYB *1 5-31-94	75	*30
22	PEM 731:91 2	49	CIHZS3 *27	76	*31
23	MB+THAMA-QEXB *1 5-31-94	50	SPM1 *CIHZS3 *27	77	*32
24	CIHZSD3 *1	51	SPM2 *CIHZS3 *27	78	*33
25	↓ *2	52	CIHZSD3 *13	79	HEX
26	*3	53	↓ *14	80	PIBLK 731:90 *5
27	↓ *5	54	↓ *15 - Acquired A - Not B	81	PEM 731:91 *4

BOOK NO: B0465

FORM 87303

00003

000270

ESE ENVIRONMENTAL SCIENCE AND ENGINEERING, INC. | **CHROMATOGRAPHIC ANALYSIS LOG**

Date: 6-13-94 (Cont)
Analyst: Lee F. Stevens
Project: D+B Carroll Island
Case No.: 7234054G
Instrument ID: HP 5890 3203A40609
Data System ID: Turbo 4.0
Analysis Type: CLP-Pest-Soil 3/90

COLUMN	'A'	'B'
Length	30m	30m
OD	328875	1249546
ID	0.53	
Phase	DB608	DB1701
Thickness	.83	1 µm
Support	Fused silica	
Loading	N/A	

INJECTOR	
Type	on-col
Temp °C	150 40/min - 280
Volume	1 uL
Carrier Gas	He
Type	UPC
Flow Rate	Constant 7/15 mL/min

DETECTOR	
Type	ECD
Attn.	0
Range	1
Temp °C	300
Make-up	5% CH4/Ar

Oven Temp. Initial 140 °C for 1 Min
Rate A 20 Final Temp A °C 190 for 0 Min
Rate B 3 Final B °C 220 for 0 Min
8 275 14

Comments: Page 2 from B0465:035

Run No.	Sample No.	Run No.	Sample No.	Run No.	Sample No.
82	MB*None #1 6894				
83	CDMHNSS*40				
84	SPM1 *CDMHNSS*40				
85	SPM2 ↓				
86	MB*THAMA-PEXD #1				
87	CIHZW3 #127				
88	SPM1 *CIHZW3 #127				
89	SPM2 * ↓				
90	CIHZW3 #107				
91	↓ #118				
92	↓ #119				
93	Hexane				
94	PIBLK 731:90 #6				
95	IND AM 731:80 #4				
96	↓ BM ↓ #4				
97	No shot A / PIBLK B				
98	PIBLK 731:90 #7				
99	PEM 731:91 #3				
100	CIHES3 #27 1:5				
101	Hexane				
102	PIBLK 731:90 #8				
103	IND AM 731:80 #5				
104	↓ BM ↓ #5				

FORM 87303

BOOK NO: B0465

ESE ENVIRONMENTAL SCIENCE AND ENGINEERING, INC.

ORGANIC LABORATORY/EXTRACTION LOG SHEET

PROJECT: CDM-HANFORD N-Slope
PROJECT NO.: 194400.22A 0201
CASE NO.: NA
EXTRACTOR(S): NM (3263)
CLEAN-UP: GPC/Florisil
DATE: 6/8/94
TIME: 1:30 PM
EXTRACTION METHOD: 3/90 CLP OCP SM
SAMPLE FRACTION: SS
CHECKED BY: BMD
BALANCE USED: #26

SAMPLE NO.	VOLUME-ml MASS-gr.	INITIAL/ FINAL pH	TYPE/DATE OF CLEAN-UP	FINAL VOL. SOLVENT	SURRO-GATE ADDED Y/N	COMMENTS
CDMHUSS-40	30gr	5.23	GPC/Florisil	10.0ml Hx	yes	All samples receives 2.0ml
40MS		—				3/90 CLP PEST Surrogate
40MSD		—				0.2ug/ml TCX/DCBP 731:89
BLK		—				VIC BAUDER exp. 11/17/94
						40MS, 40MSD receives 1.0ml
						3/90 CLP MATRIX SPIKE (Pest)
						0.5-1.0 ug/ml 731:84
						exp. 11/6/94 VIC BAUDER
						SPIKED: NM
						WIT: BMD

CHAIN-OF-CUSTODY RECORD

FORM 87202

BOOK NO: 2-55-5

032

000272

9513356.0841

ESE ENVIRONMENTAL SCIENCE AND ENGINEERING, INC. | **CHROMATOGRAPHIC ANALYSIS LOG**

Date: 6-8-94
Analyst:
Project: CDM-Han Ford End slope
Case No.: NA
Instrument ID: 1002B-1
Data System ID: NA
Analysis Type: 3/90 OCPSoil

COLUMN
Length:
OD:
ID:
Phase:
Thickness:
Support:
Loading:
Oven Temp. Initial: °C for Min.
Rate A: Final Temp A °C for Min.
Rate B: Final B °C for Min.

INJECTOR
Type:
Temp °C:
Volume:
Carrier Gas:
Type:
Flow Rate:

DETECTOR
Type:
Attn.:
Range:
Temp °C:
Make-up:

Comments: GPCCHK=1.0ml 3/90 SOW GPC Check 790:25 3/25/94 by AT Exp 9/25/94 +9.0ml MeCl2
SPKCHK/End STD=1.0ml 5-12-94 Acetone via bowder CLP Pest 3/90 surrogate C731:85 2ug/ml +1.0ml 5-6-94
methanol via bowder CLP Pest 3/90 1.5-1.0 ug/ml Matrix 731:84 + 8.0ml MeCl2

Run No.	Sample No.	Run No.	Sample No.	Run No.	Sample No.
1	GPCCHK		D = 32		Flow Rat = 5.2ml/mn
2	SPKCHK		C = 18		Temp = 23.6 °C
3	MeCl2		W = 10		MeCl2 Lot # BF982
4	CDMHNSS * BIK				
5	↓ 40MS		Nitrogen PSI = 1600	Time 4:30 pm	6-8-94
6	↓ 40MSD		Nitrogen PSI = 12 PSI		6-9-94
7	MeCl2				
8	CDMHNSS * 40			10cm/hr	
9	End STD				
			temp = 23.6 °C		
			Chart speed = 10cm/hr		

FORM 67303

BOOK NO: 732 000273 ~~000000~~

67100281

SAMPLES COMNINS* 40

3/90 CLP OCP SONICATIONS

EXTRACTION SOLVENT: 50/50 $MeCl_2$/ACETONE

1) Decant aqueous layer from sample, discard stones, sticks, leaves: weigh up **30.0g** soil into Teflon beaker, 6/8/94 NM

2) Add **60.0g** baked Na_2SO_4 (granular or powdered) to dry
3) Method blank is **30.0g** of Na_2SO_4

4) Weigh **50.0g** sample into 250ml beaker, add **50ml** HPLC H_2O to all, stir for 1 hour, check and tabulate pH.

5) Tune sonicator.
6) Spike samples, Immediately add 100ml of 50/50 MeCl/Acetone
7) Sonicate for 3 minutes with 3/4 inch horn, power at 10, and duty cycle at 50%, 1s pulse. Centrifuge at 1000 RPM for 5 minutes, decant extract into KD-receiver through funnels packed with silane treated glasswool and baked sodium sulfate
8) Repeat steps (7) two more times

9) Conc. to 10mls with snyder attachment at 60-80 °C

10) Conc. to 1ml with microsnyder attachment, take to 10.0ml with MeCl in GCT.
11) Load on GPC, check if calibrated within 1 week, GPC check peaks should have <5% shift from previous run 6/8/94

12) Conc extracts off GPC to 10ml using KD-receivers, make copies of GPC chart and include with logsheets DJD 6-9-94
13) Solvent exchange to hexane, take to 5.0ml Hexane GAH 6/13/94

14) Run 2.0ml through florisil catridge, elute with 8ml of 10% acetone in hexane, collect in receivers. Check if performance chk done on catridge, tabulate lot#. Catridge must be rinsed with 10ml of 10% acetone in hexane prior to use. GAH
15) Conc to <2ml using modified microsnyders, quantitatively transfer to amber vials, top to 2.0ml mark with hexane GAH/DJD
16) Clean fraction to fidge C, unclead to B2 in vials GAH

QC Required: MS ✓
MSD ✓
BLANK ✓

Chain of Custody

NM 10 I 6/8/94	TO FRIDGE A NM	TO DJD NM 6/9/94	to GPC 1002 B 6/14/94	TO Fridge T (A) 29 DJD 6-9-94

Clean to Fridge 19	TO FRIDGE 18
UNClean to B-2 GAH 6/13/94	6-14-94 VSB

PROJECT CDM - HANFORD N Slope : Notebook No. 1033

Continued From Page

19440226 02C1
Nim (3265)

3/90 OCP Soil Sam
55

COMHN55* 40, 40ms, 40msD, BLK

1- Weighed up 30gr for sample + 50gr for pH
2- Spiked samples
3- Added 150ml 50/50 CH_2Cl_2/Acetone
4- Sonicated for 3 min
5- Centrifuged for 5 min at 1000 RPM
6- Poured through silane treated glass wool funnels.
7. Repeated steps 3-6 twice more
8- Conc to ~ 10ml on Roto-vap
brought to 10ml in GCT. 6/8/94 JM

Concentrated to 10ml DJD 6-9-94

Solvent Exchanged to Hexane.
Brought to 5.0 ml in Shorty vial.
Loaded 2.0 ml on Florisil cartridge.
Eluted w/ 8.0 ml 10% Acetone/Hexane
Concentrated to 4.2 ml
Brought to 2.0 ml in 4 ml Amber vials.
GMH/DJD 6/13/94

Continued on Page

Read and Understood By

Nancy Mathis 6/8/94 — Signed — Date

Signed — Date 6/13/94

PROJECT STD. PREP. FOR CLP-PEST - 3/90

Notebook No. 00731

Continued From Page

CLP PESTICIDES/PCB (3/90 SOL)
CALIBRATION MIX 1 C-177-02
EXP = 3/96 ISO-OCTANE NSI ENVIRONMENTAL SOLUTIONS

	UG/ML	INDAH NG/ML	INDAM NG/ML	INDAL NG/ML
ALPHA-BHC	8.	80.	20.	5.
GAMMA-BHC	8.	80.	20.	5.
4,4'-DDD	16.	160.	40.	10.
4,4'-DDT	16.	160.	40.	10.
DIELDRIN	16.	160.	40.	10.
ENDOSULFAN I	8.	80.	20.	5.
ENDRIN	16.	160.	40.	10.
HEPTACHLOR	8.	80.	20.	5.
4,4'-METHOXYCHLOR	80.	800.	200.	50.
TETRACHLORO-M-XYLENE	8.	80.	20.	5.
DECACHLOROBIPHENYL	16.	160.	40.	10.

0.5 ML → 50 ML HEXANE; 25 ML → 100 ML HEXANE

0.5 ML → 200 ML HEXANE

CLP PESTICIDES/PCB (3/90 SOL)
CALIBRATION MIX 2 C-176-02
EXP = 3/96 ISO-OCTANE NSI ENVIRONMENTAL SOLUTIONS

HEXANE USED IS GHS BRAND NON-SPECTRO LOT# BG656

	UG/ML	INDBH NG/ML	INDBM NG/ML	INDBL NG/ML
ALDRIN	8.	80.	20.	5.
BETA-BHC	8.	80.	20.	5.
DELTA-BHC	8.	80.	20.	5.
ALPHA-CHLORDANE	8.	80.	20.	5.
GAMMA-CHLORDANE	8.	80.	20.	5.
4,4'-DDE	16.	160.	40.	10.
ENDOSULFAN II	16.	160.	40.	10.
ENDOSULFAN SULFATE	16.	160.	40.	10.
ENDRIN ALDEHYDE	16.	160.	40.	10.
ENDRIN KETONE	16.	160.	40.	10.
HEPTACHLOR EPOXIDE	8.	80.	20.	5.
TETRACHLORO-M-XYLENE	8.	80.	20.	5.
DECACHLORO BIPHENYL	16.	160.	40.	10.

0.5 ML → 50 ML HEXANE; 25 ML → 100 ML HEXANE

0.5 ML → 200 ML HEXANE

Continued on Page

Nathan S. Zeh 3-29-94 — Signed, Date

Robert R. Robert 4/1/94 — Read and Understood By, Signed, Date

CLP PESTICIDES/PCB (3/90 SOW)
PERFORMANCE EVALUATION MIX C-180-01
EXP: 4/95, ISO-OCTANE NSI ENVIRONMENTAL SOLUTIONS

~~UG~~ USE WT 3-30-94

	UG/ML		PEM NG/ML
ALPHA-BHC	1.		10.
BETA-BHC	1.		10.
GAMMA-BHC	1.		10.
4,4'-DDT	10.	0.2 ML →	100.
ENDRIN	5.	20. ML	50.
4,4'-METHOXYCHLOR	25.	HEXANE	250.
TETRACHLORO-M-XYLENE	2.	G-D BRAND	20.
DECACHLOROBIPHENYL	2.	NON-SPECIFIC	20.
		LOT# BG656	

4-13-94 VIC BAUDER REMADE PEM AS ABOVE USING PEM C-180-01 AND HEXANE LOT # BG656 Robert R. Robertson 4/15/94

4-19-94 VIC BAUDER REMADE PEM AS ABOVE USING PEM C-180-01 AND HEXANE LOT #BH188 Robert R. Robertson 4/26/94

4-26-94 VIC BAUER REMADE PEM AS ABOVE USING PEM C180-01 AND HEXANE LOT # BH188 Robert R. Robertson 4/26/94

5-3-94 Vic BAUDER REMADE PEM 0.1 ML → 10. ML HEXANE ~~10 ML~~ TOTAL USING PEM C-180-01 AND HEXANE LOT # BH188. Robert R. Robertson 5/12/94

5-12-94 VIC BAUDER REMADE PEM 0.1 ML → 10. ML HEXANE TOTAL USING PEM C-180-01 AND HEXANE LOT # BH188. Robert R. Robertson 5/12/94

5-21-94 VIC BAUDER REMADE PEM 0.1 ML → 10. ML HEXANE TOTAL USING PEM C-180-01 AND HEXANE LOT # BH188 Robert R. Robertson 5/25/94

5-29-94 VIC BAUER REMADE PEM 0.1 ML → 10 ML HEXANE TOTAL USING PEM C-180-01 AND HEXANE LOT # BH188 RRR 6/6/94

6-6-94 VIC BAUER REMADE PEM 0.1 ML → 10. ML HEXANE TOTAL USING PEM C-180-01 AND HEXANE LOT # BH188 Robert R. Robertson 6/10/94

Continued on Page

Nick S. Eder 3-30-94 Robert R. Robertson 4/11/94

Read and Understood By

Signed Date Signed Date

[redacted]

PROJECT STD Prep for CLP Pes >/40 PEM

Continued From Page 81

- Remade PEM 1ml into 10ml Hexane lot BH188 using PEM(-180-01 as on pg 00731:81 LFS 6-13-94

Continued on Page

Signed 6-13-94 Date

Read and Understood By Signed 6-15-94 Date

PROJECT MATRIX SPIKE PREP. CLP-PEST-3/90

Notebook No. 00731

Continued From Page

COMPOUND	INDIVIDUAL PRIMARIES ① NOTEBOOK:PAGE	UG/ML	VOLUME ADDED ML	STOCK MATRIX SPIKE UG/ML		MATRIX SPIKE UG/ML
LINDANE	933 : 40	1000.	1.	20.		0.5
HEPTACHLOR	933 : 40	1000.	1.	20.	2.5 ML	0.5
ALDRIN	933 : 40	1000.	1.	20.	→	0.5
DIELDRIN	933 : 41	1000.	2.	40.	100 ML TOTAL	1.0
ENDRIN	933 : 41	1000.	2.	40.	IN METHANOL	1.0
4,4'-DDT	933 : 42	1000.	2.	40.		1.0

50. ML TOTAL IN ACETONE → B+J BRAND LOT # BH059

B+J BRAND LOT # BE686

① INDIVIDUAL PRIMARIES MADE BY JOE K. 4-5-94, SOLUTION C IN ACETONE WAS USED.

REMADE MATRIX SPIKE 5-6-94 VSB

STOCK MATRIX SPIKE → 5 ML → MATRIX SPIKE

200 ML METHANOL → B+J BRAND LOT # BE686 Robert R. Robertson 5/6/94

Continued on Page

Nora S. Lynch 4-20-94 Robert R. Robertson 5-6-94

Read and Understood By

Signed Date Signed Date

PROJECT SURROGATE PREP. CLP - PEST-3/90

Continued From Page

PESTICIDE SURROGATE MIX
RESTEK LOT # A 002789 CATALOG # 31000
DATE MADE = 9/93 IN ACETONE

	UG/ML		STOCK UG/ML		SURROGATE SPIKE UG/ML
TCX	200.	0.5 ML → 50.ML ACETONE	2.	20.ML → 200.ML ACETONE	0.2
DCBP	200.		2.		0.2

ACETONE USED IS LOT # BH059 B+J BRAND.

VIC BAUER REMADE SURROGATE SPIKE AS ABOVE ON 5-9-94
USED ACETONE LOT # BH059 B+J BRAND. Robert R. Robertson 5/9/94

Continued on Page

Nick J. Bush 4-26-94 Read and Understood By Robert R. Robertson 5/9/94

Signed Date Signed Date

PROJECT SURROGATE PREP. CLP-PEST-3/90

Notebook No. 00731

Continued From Page

PESTICIDE SURROGATE MIX
RESTEK LOT # A0027789 CATALOG # 32000
DATE MADE = 9/93 IN ACETONE

	UG/ML		STOCK UG/ML		SURROGATE SPIKE UG/ML
TCX	200.	1.0 ML / 50. ML ACETONE →	4.	10. ML / 200. ML ACETONE →	0.2
DCBP	200.		4.		0.2

DILUTE 2X FOR 400 ML TOTAL.

ACETONE USED IS LOT # BH440 B+J BRAND

Continued on Page

5-17-94 Nick S. Zoh

Read and Understood By

Signed | Date | Signed | Date

[redacted]

Notebook No. 00731

PROJECT STD. PREP. FOR CLP-PEST-3/90

Continued From Page

PESTICIDE RESOLUTION CHECK MIX RESTEK LOT# A000056 CATALOG #32001

	UG/ML		RESE NG/ML
GAMMA-CHLORDANE	1.0	0.5 ML	10.
ENDOSULFAN I	0.98		9.8
DIELDRIN	1.98		19.8
4,4'-DDE	1.98		19.8
ENDOSULFAN SULFATE	2.0	50 ML TOTAL HEXANE	20.
ENDRIN KETONE	2.02		20.2
METHOXYCHLOR	9.98	0.5 ML	99.8
TCX ①	2.0		20.
DCBP	2.0		20.

HEXANE B+J BRAND NON-SPECIFIC LOT# BH18T

ACETONE B+J BRAND LOT # BH440

SOURCE: NSI ENVIRONMENTAL SOLUTIONS INC.

	CATALOG-LOT #	SOLVENT	EXPIRATION DATE	UG/ML	VOLUME APPED ML	FINAL VOLUME ACETONE ML	STOCK UG/ML
PCB-1016	125-01-06	ISOOCTANE	5-95	1000.	1.	100.	10.
PCB-1260	129-01-07	ISOOCTANE	8-96	1002.	1.	100.	10.
PCB-1221	126-01-05	ISOOCTANE	4-97	1005.	1.	50.	20.
PCB-1232	107-01-07	METHANOL	2-95	1010.	1.	100.	10.
PCB-1242	132-01-03	ISOOCTANE	10-97	1001.	1.	100.	10.
PCB-1254	135-01-03	ISOOCTANE	10-97	1012.	1.	100.	10.
TOXAPHENE	111-01-07	METHANOL	3-96	1007.	1.	50.	20.
PCB-1248	108-01-06	ISOOCTANE	2-96	5005.	1.	50.	100.

5 / 50 ACETONE → 10. UG/ML

	STOCK UG/ML	VOLUME APPED ML	VOLUME OF 2UG/ML TCX/PCBP APPED ML ②	FINAL VOLUME HEXANE ML	PCB CONC. NG/ML	TCX/DCBP CONC. NG/ML
PCB-1016	10.	1.	1.	100.	100.	20.
PCB-1260	10	1.			100.	
PCB-1221	20.	1.	1.	100.	200.	20.
PCB-1232	10.	1.	1.	100.	100.	20.
PCB-1242	10.	1.	1.	100.	100.	20.
PCB-1254	10.	1.	1.	100.	100.	20.
TOXAPHENE	20.	2.5	1.	100.	500.	20.
PCB-1248	10.	1.	1.	100.	100.	20.

	STOCK ② UG/ML		PIBLK NG/ML
TCX	4.0	0.5 ML → 100 ML HEXANE	20.
DCBP	4.0		20.

① SEE PAGE 87 THIS NOTEBOOK 00731 (VIC BAUER) FOR STD. PREP.

② SEE PAGE 89 THIS NOTEBOOK 00731 (VIC BAUER) FOR STD. PREP.

Continued on Page

Nita S. Tuck 5-21-94 Read and Understood By K. Lewis R. Sutton 5/24/94

Signed Date Signed Date

PROJECT OCP PRIMARY STOCKS

Notebook No. 933

Continued From Page

1) AHBHC A) Chem Serv LOT: 112-86A 98% B) CHEM SERV LOT 45-85B 98%

A) .025 g → 25 ml Hexane = 1,000 µg/ml

B) .025 g → 25 ml Hexane = 1,000 µg/ml

2) LINDANE A) Chem Serv 99.5% Lot: 84-83B .025g → 25 ml Hex = 1,000 µg/ml

B) Chem Serv 99.0% Lot: 20-42D .025g → 25 ml Hex = 1000 µg/ml

C) Chem Serv 99.5% Lot: 84-138B .025g → 25 ml ACE = 1000 µg/ml

3) Δ-BHC A) Chem Serv 98% Lot: 126-47A .025g → 25 ml Hex = 1,000 µg/ml

B) EPA 99.6% Lot K800 .025g → 25 ml Hex = 1,000 µg/ml

4) HEPTACHLOR A) Chem Serv 99.5% Lot: 85-153B .025g → 25 ml Hex = 1000 µg/ml

B) EPA 99.9% Lot: E06H .025g → 25 ml Hex = 1000 µg/ml

C) CHEM SERV 99.5% Lot 85-133B .025g → 25 ml ACE = 1,000 µg/ml

5) B-BHC A) CHEM SERV 98.0 Lot 92-76A .025g → 25 ml Hex = 1,000 µg/ml

B) " " " .025g → 25 ml Hex = 1,000 µg/ml

6) ALDRIN A) SARM 99.8 Lot: A359 .025g → 25 ml Hex = 1,000 µg/ml

B) EPA 99% Lot: A501 .025g → 25 ml Hex = 1,000 µg/ml

C) SARM 99.8% Lot: A359 .025g → 25 ml ACE = 1,000 µg/ml

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
Joe Kostelnik	April 5, 1994	Mark Mathews	4/14/94

[redacted]

PROJECT OCP Primary Stocks

Notebook No. 933

Continued From Page

7) ISODRIN
A) SARM 99.8% LOT: A403 .025g → 25 ml HEX = 1,000 µg/ml
B) EPA 99.3% LOT EO40 .025g → 25 ml HEX = 1,000 µg/ml
C) SARM 99.8% LOT A403 .025g → 25 ml ACE = 1,000 µg/ml

8) HEPTACHLOR EPOXIDE
A) CHEM SERV 99.0% LOT: B3-100A .025g → 25 ml HEX = 1,000 µg/ml
B) CHEM SERV 99% LOT: 1H-1K .025g → 25 ml HEX = 1,000 µg/ml

9) ENDOSULFAN-A
A) CHEM SERV 99.5% LOT: 96-62A .025g → 25 ml HEX = 1,000 µg/ml
B) EPA 99.8% LOT: C09E .025g → 25 ml HEX = 1,000 µg/ml
C) CHEM SERV 99.5% LOT: 96-62A .025g → 25 ml ACE = 1,000 µg/ml

10) PP-DDE
A) CHEM SERV 99.0% LOT: N5-62A .025g → 25 ml HEX = 1,000 µg/ml
B) CHEM SERV 99.3% LOT: 23-27E .025g → 25 ml HEX = 1,000 µg/ml

11) DIELDRIN
A) SARM 99.7% LOT: A401 .025g → 25 ml HEX = 1,000 µg/ml
B) EPA 99.5% LOT: A04B .025g → 25 ml HEX = 1,000 µg/ml
C) SARM 99.7% LOT: A401 .025g → 25 ml ACE = 1,000 µg/ml

12) ENDRIN
A) SARM 99.6% LOT: A402 .025g → 25 ml HEX = 1,000 µg/ml
B) CHEM SERV 99% LOT: N0-79B .025g → 25 ml HEX = 1,000 µg/ml
C) ~~CHEM SERV~~ SARM 99.6% LOT: A402 .025g → 25 ml ACE = 1,000 µg/ml

13) PP-DDD
A) SARM 99.4% LOT: A410 .025g → 25 ml HEX = 1,000 µg/ml
B) CHEM SERV 99% LOT: 19-13A .025g → 25 ml HEX = 1,000 µg/ml

Continued on Page

Read and Understood By

Joe Kochlinski — Signed — April 5, 1994 — Date

[signature] — Signed — 4/14/94 — Date

Notebook No. 933

PROJECT OCP Primary Stocks

Continued From Page

N)	ENDOSULFAN B	A)	Chem Serv	99%	LOT: 114-116A	.025g	→ 25ml Hex	=	1,000	µg/ml
		B)	Chem Serv	99%	LOT 96-63A	.025g	→ 25ml Hex	=	1,000	µg/ml
		C)	Chem Serv	99%	LOT: 114-116A	.025g	→ 25ml ACE	=	1,000	µg/ml
15)	PP-DDT	A)	SARM	99.1%	LOT: A400	.025g	→ 25ml Hex	=	1,000	µg/ml
		B)	CHEM SERV	99%	LOT: 114-57A	.025g	→ 25ml Hex	=	1,000	µg/ml
		C)	SARM	99.1%	LOT: A400	.025g	→ 25ml ACE	=	1,000	µg/ml
16)	ENDRIN ALDEHYDE	A)	AXACT	99%	LOT: ~~15787~~ 15787	.025g	→ 25ml HEX		1,000	µg/ml
		B)	Accustd	99+	LOT MUS-27-065-4	.025g	→ 25ml Hex	=	1,000	µg/ml
17)	ENDOSULFAN SO4	A)	SARM	98.6%	LOT: A405	.025g	→ 25ml Hex	=	1,000	µg/ml
		B)	CHEM SERV	98%	LOT: 30-95B	.025g	→ 25ml Hex	=	1,000	µg/ml
18)	Methoxychlor	A)	CHEM SERV	99%	LOT: 83-43A	.025g	→ 25ml Hex	=	1,000	µg/ml
		B)	CHEM SERV	99%	LOT 30-90	.025g	→ 25ml Hex	=	1,000	µg/ml
		C)	CHEM SERV	99%	LOT: 83-43A	.025g	→ 25ml ACE	=	1,000	µg/ml
19)	ENDRIN KETONE	A)	AXACT	98%	LOT: 15790	.025g	→ 25ml Hex	=	1,000	µg/ml
		B)	EPA	95.1%	LOT CD9L	.010g	→ 10ml Hex	=	1,000	µg/ml
20)	TCX	A)	Aldrich	95.9%	KY 00532781	.025g	→ 25ml Hex	=	1,000	µg/ml
		B)	"	"	"	.025g	→ 25ml Hex	=	1,000	µg/ml

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
[illegible]	April 5, 1994	[illegible]	4/14/94

95133356.0855

Dilution Factor and

Holding Time Report

SAMPLE.....SITE ID.....ANALYTE.....DIL.....BATCH

No data points with dilution > 1.

EXTRACT AND ANALYSIS HOLDING TIME CHECK REPORT REPORT DATE: 07/05/94

SAMPLE	BATCH	STORET*METHOD	STORET NAME	FAILURE
CDMHNSS*40	ALL HOLDING TIMES MET			

9513356.0858

CHAIN OF CUSTODY

ESE COOLER RECEIPT FORM

THIS FORM IS TO BE EXECUTED BY THE ESE SAMPLE RECEIPT CUSTODIAN WHEN PROCESSING SHIPPING CONTAINERS. ANY *NO IS TO BE DESCRIBED IN *DETAILS/COMMENTS*. IMMEDIATE DOCUMENTATION OF PROBLEMS TO THE ANALYTICAL PROJECT MANAGER WILL FACILITATE COMMUNICATION WITH THE CLIENT TO RESOLVE ANY PROBLEMS. REFER TO ACTUAL CHAIN-OF-CUSTODY AND AIRBILL (IF APPLICABLE) FOR ADDITIONAL SAMPLE DOCUMENTATION.

Project: CDM- Hanford Shipping **Container #** (ESE / Other): 405
Received (mm/dd/yr/hr): 6/8/94 1140 By: [illegible]
Opened (if different) : By:

Preliminary Examination Checklist

Did the shipping container arrive with an airbill/shipping slip? .....No Yes
If applicable, carrier name & airbill #: Fed. Ex. 9501619702

Were custody seals on the outside of the container? .....*No Yes
If Yes, a: were custody seals intact upon arrival? .....*No Yes
b: enter Seal Date and Name (or enter "NA" if not available):

Was the shipping container screened for radioactivity with a GM counter? .....*No Yes
If Yes, were readings within criteria? .....*No Yes

Was Chain of Custody (COC) documentation provided with the shipment? .....*No Yes
If Yes, a: was COC fully executed by the shipper (in ink)? .....*No Yes
b: did you sign the COC in the appropriate field? .....*No Yes
c: was the project identifiable from the COC? .....*No Yes
If No, how was this determined?

Were samples received within criteria of 2-6°Deg C? .....*No Yes

Sample Examination & Check-In Checklist

Were samples packaged in conformance to generally accepted practices? .....*No Yes

Did all sample containers arrive intact and sealed? .....*No Yes
Did all sample containers have secure and completed labels? .....*No Yes
If sample containers possessed tags, circle: Tags only Tags + Labels
Were caps of individual bottles/vials free from tape and/or custody seals? .....No Yes
Did all labels and/or tags agree with COC? .....*No Yes

Were all samples examined for the following or were they audited? .....Audited All
Did pH checks confirm indicated preservations? .....*No Yes
Did volumes, containers, & preservations seem appropriate to indicated tests? .....*No Yes
Were VOA vials (waters) free from bubbles? .....*No Yes

NA
NA
6/8/94

Was this checklist free from deficiencies requiring notification of the Lab Project Manager?
(if No, note who was contacted & when in Details/Comments below) .....*No Yes

***Details/Comments:**

(over)

Source: ESE, May 1994

F6260

CHAIN OF CUSTODY RECORD

CDM Federal Programs Corporation

Sample Log Book

PROJECT NAME Hanford North Slope (H-06-2 East) PROJECT NUMBER 6110-002

~~Field~~ Log Book Reference No. 1

SAMPLE NUMBER			DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	ANALYSES 8080	NUMBER OF CONTAINERS	LOG. BOOK PG. NO.	REMARKS	ESE #
39 94H06L	(E)-A01-07-	008	6/6/94	1255	H06L(E)	Soil	X	1x250ml	76	grab	#39
40 94H06L	(E)-A01-08	011	6/6/94	1548	H06L(E)	Soil	X	1x250ml	77	grab (Level IV)	#40
41 94H06L	(E)-A01-09	011	6/6/94	1555	H06L(E)	Soil	X	1x250ml	77	grab	#41
42 94H06L	(E)-A01-10	011	6/6/94	1600	H06L(E)	Soil	X	1x250ml	77	grab	#42

ESE SAMPLE RECEIVING

LDD: 6/10/94

Field Group/#: CDMHNSS #39,41,42 / #40

Storet List: CDMHNSS.3 / CDMHNSS.4

Custody Seal(s) Intact?: Y N N.A.

Cooler Temp. (C): 2

Preservation Audited? Y N N.A.

SAMPLED BY (SIGN) Randy Roberts

RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)
① Randall Roberts	②	③	④	⑤
DATE/TIME (6/7/94 1300)	DATE/TIME (/)	DATE/TIME (/)	DATE/TIME (/)	DATE/TIME (/)
RECEIVED BY (SIGN)	**RECEIVED BY (SIGN)**	**RECEIVED BY (SIGN)**	**RECEIVED BY (SIGN)**	**RECEIVED BY (SIGN)**
①	②	③	④	⑤
DATE/TIME (/)	DATE/TIME (/)	DATE/TIME (/)	DATE/TIME (/)	DATE/TIME (/)

METHOD OF SHIPMENT	SHIPPED BY (SIGN)	RECEIVED FOR LABORATORY BY (SIGN)	DATE/TIME
(Federal Express Airbill # 9501619702)	Randall Roberts	[illegible]	6/9/94 1140

(COC #021)

Copies: Ship with Samples

LEGEND: Original: Return to Sample Traffic Control Center

000290

9513356.0860